



ENERGY STATISTICS OF THAILAND 2013

รายงานสถิติพลังงานของประเทศไทย 2556

PETROLEUM | NATURAL GAS | LIGNITE/COAL | ELECTRICITY | AIR POLLUTION



สำนักงานนโยบาย
และแผนพลังงาน
กระทรวงพลังงาน



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สำนักงานนโยบายและแผนพลังงาน (สนพ.) เป็นหน่วยงานหนึ่งที่มีบทบาทสำคัญในกระทรวงพลังงาน มีภารกิจหลักในการวางแผนนโยบายและแผนพลังงาน รวมถึงมาตรการในการบริหารจัดการพลังงานของประเทศ โดยคำนึงถึงการพัฒนาเศรษฐกิจ สังคม ควบคู่ไปกับการรักษาสิ่งแวดล้อม การดำเนินงานดังกล่าวมีความจำเป็นต้องใช้ข้อมูลสนับสนุนจำนวนมาก เพื่อใช้ในการวิเคราะห์และจัดทำข้อเสนอแนะด้านพลังงานแก่ผู้บริหาร ด้วยเหตุนี้ สนพ. จึงได้จัดทำหนังสือรายงานสถิติพลังงานของประเทศไทยขึ้น เพื่อติดตามสถานการณ์พลังงานของประเทศและของโลกอย่างต่อเนื่อง

หนังสือรายงานสถิติพลังงานของประเทศไทย เป็นหนังสือที่ได้มีการจัดทำขึ้นปีละ 1 ครั้ง เพื่อเป็นการเพิ่มช่องทางในการให้บริการข้อมูลผ่านทางสื่อสิ่งพิมพ์และแผ่น CD ที่สามารถตอบสนองความต้องการของผู้ใช้ได้อย่างรวดเร็วและมีประสิทธิภาพ โดยมีการเผยแพร่หนังสือดังกล่าวไปยังหน่วยงานต่าง ๆ ทั้งในประเทศและต่างประเทศ ซึ่งมีการตอบรับเป็นอย่างดี จึงได้ดำเนินการจัดทำอย่างต่อเนื่อง มีการรวบรวมข้อมูลตั้งแต่อดีตจนถึงปัจจุบัน (ค.ศ. 1988 ถึง ค.ศ. 2012) ซึ่งครอบคลุมเรื่องพลังงานทุกด้าน ได้แก่ การผลิต การใช้ การนำเข้า การส่งออก ราคาและมูลค่าพลังงาน รวมทั้งข้อมูลปริมาณการปลดปล่อยก๊าซคาร์บอนไดออกไซด์ (CO₂) จากการใช้พลังงาน ซึ่งข้อมูลดังกล่าวเหล่านี้ได้นำมาใช้เป็นสารสนเทศทางการบริหารพลังงานของไทย ตลอดจนใช้ประกอบการวิเคราะห์แนวโน้มเพื่อกำหนดนโยบายและแผนด้านพลังงานของประเทศ

สนพ. หวังเป็นอย่างยิ่งว่า รายงานสถิติพลังงานของประเทศไทย 2556 จะเป็นประโยชน์ต่อหน่วยงาน องค์กร และผู้ที่สนใจทั่วไป เพื่อนำข้อมูลไปใช้ในการศึกษา วิจัย วิเคราะห์และการอ้างอิง ที่จะนำไปสู่การพัฒนาทางด้านพลังงานของประเทศต่อไป

The Energy Policy and Planning Office (EPPO) is a pivotal agency under the Ministry of Energy, being tasked with the development of national energy policies and planning, including measures to manage and administer the energy sector, with due consideration of economic and social development, concurrently with environmental protection. In order to undertake the mentioned tasks, it is crucial to acquire substantial information and data for analysis and development of recommendation on energy issues to be presented to the management. As a consequence of this, EPPO has published a report on energy statistics of Thailand with a view to following up continuously national energy situations.

This report on energy statistics of Thailand is issued annually, with the first one issued in 2010, to be another channel to provide energy information via printed matters and in the form of CD, which is expected to promptly and efficiently respond to the users' needs. After EPPO's first publication and dissemination of the report, there has been favorable response and feedback from concerned agencies/organizations, both domestic and overseas. Therefore, the second issue of such a report is consecutively prepared by EPPO this year, with data collection from the past up to the present (1988-2012), covering all aspects of energy, i.e. production, consumption, import, export, prices and nominal value of energy, including the information about carbon dioxide (CO₂) emissions from the use of energy. The mentioned information/data has much contributed to energy management of the country, particularly in support of decision making of the management based on close follow-ups on energy situation movements, and to the analysis of energy trends to assess the impact which may occur from energy use. The analysis outcome will form the basis for the development of recommendations on the energy policy and management plan as well as the energy development plan of the country.

EPPO Hopefully the "Energy Statistics of Thailand 2013" is useful to organizations and people that are interested in general to bring information to use in education, research, analysis and reference. That will lead to the development of the country's energy.

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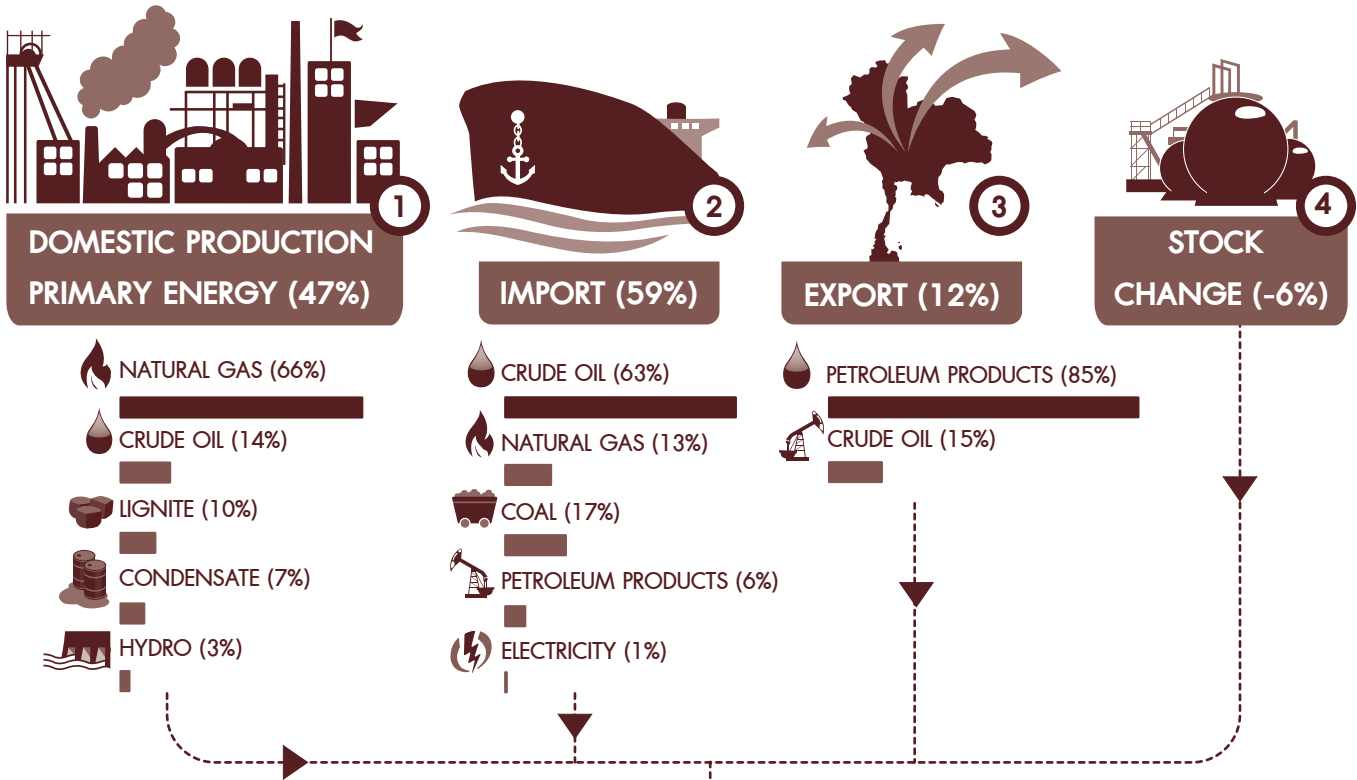
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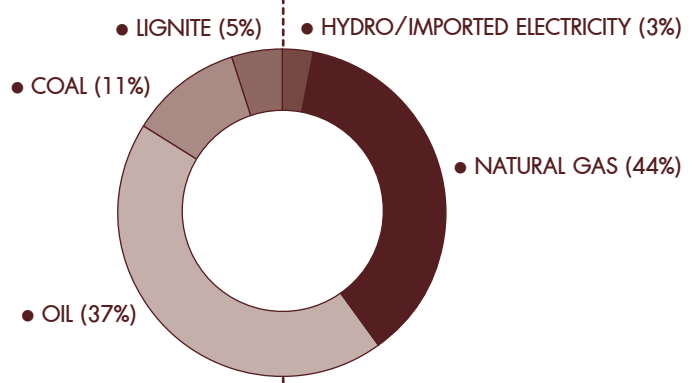
*Note : M = Monthly
Y = Yearly

Energy Overview 2012

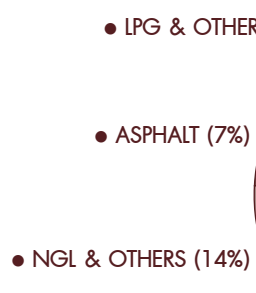


5 = 1 + 2 - 3 + 4

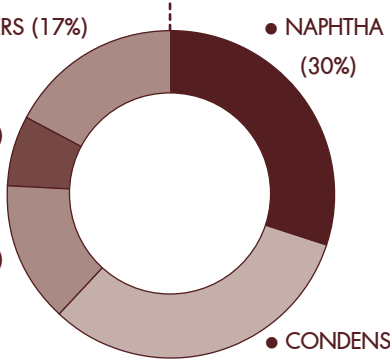
TOTAL PRIMARY ENERGY SUPPLY (100%)



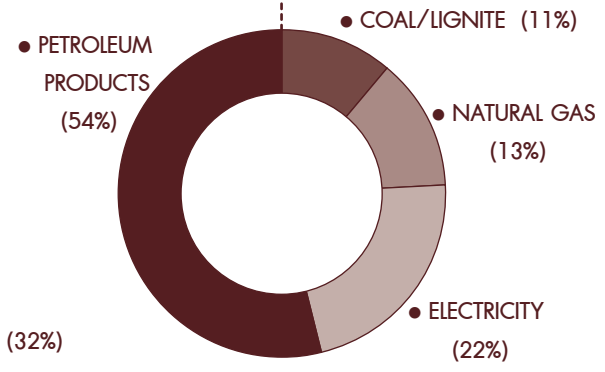
OWN USE & LOSS (19%)



NON-ENERGY USE (17%)



FINAL ENERGY CONSUMPTION (64%)





CHAPTER
บทที่

1

Energy Situation in 2012
สถานการณ์พลังงานปี 2555

บทที่
1

สถานการณ์พลังงานปี 2555

การใช้พลังงานในปี 2555 ของประเทศไทยนั้นมีการขยายตัวที่สูงมากกว่าปกติเมื่อเปรียบเทียบกับปีที่ผ่านมา ๆ มา ทั้งนี้สำนักงานคณะกรรมการพัฒนาการเศรษฐกิจและสังคมแห่งชาติ (สศช.) รายงานอัตราการเจริญเติบโตทางเศรษฐกิจไทยปี 2555 ขยายตัวร้อยละ 6.5 โดยเกิดจากการขยายตัวของอุปสงค์ในประเทศที่เร่งตัวสูงขึ้น จากการใช้จ่ายของภาคครัวเรือนที่เกิดจากการปรับตัวที่สูงขึ้นของรายได้ครัวเรือน นอกจากนี้ยังมีสาเหตุสำคัญมาจากแรงสนับสนุนจากมาตรการค้ำเงินภาษีให้แก่ผู้ซื้อรถยนต์คันแรก การเร่งการใช้จ่ายภาครัฐให้เป็นไปตามเป้าและด้านการลงทุนโดยรวมของประเทศที่สูงขึ้นตามการลงทุนภาคเอกชน ปัจจัยทางเศรษฐกิจที่ดีได้ส่งผลต่อการใช้พลังงานไทยให้ขยายตัวสูงขึ้น และส่งผลต่อสถานการณ์พลังงานไทยดังนี้

การใช้ การผลิต การนำเข้าพลังงานเชิงพาณิชย์ขั้นต้น

การใช้พลังงานเชิงพาณิชย์ขั้นต้น ในปี 2555 เพิ่มขึ้นร้อยละ 6.8 อยู่ที่ระดับ 1,981 พันบาร์เรลเทียบเท่าน้ำมันดิบต่อวัน โดยการใช้ก๊าซธรรมชาติมีสัดส่วนการใช้มากที่สุด คิดเป็นร้อยละ 45 มีการใช้เพิ่มขึ้นร้อยละ 9.6 การใช้น้ำมันมีสัดส่วนรองลงมาที่ร้อยละ 36 มีการใช้เพิ่มขึ้นร้อยละ 5.2 ถ่านหินนำเข้ามีการใช้เพิ่มขึ้นร้อยละ 12.4 การใช้ไฟฟ้าพลังน้ำ/ไฟฟ้านำเข้าเพิ่มขึ้นร้อยละ 3.0 เนื่องจากมีการผลิตไฟฟ้าจากโรงไฟฟ้าพลังน้ำมากขึ้น ในช่วงเดือนเมษายนที่แหล่งเขตกานหุดจ่ายก๊าซ ส่วนการใช้ลิกไนต์ลดลงร้อยละ 12.6 การผลิตพลังงานเชิงพาณิชย์ปีนี้เพิ่มขึ้นร้อยละ 6.2 เมื่อเทียบกับปีก่อน อยู่ที่ระดับ 1,082 พันบาร์เรลเทียบเท่าน้ำมันดิบต่อวัน และการนำเข้าพลังงาน (สุทธิ) เพิ่มขึ้นร้อยละ 6.0 เมื่อเทียบกับปีก่อน อยู่ที่ระดับ 1,079 พันบาร์เรลเทียบเท่าน้ำมันดิบต่อวัน

การใช้ การผลิต และการนำเข้าพลังงานเชิงพาณิชย์ขั้นต้น

หน่วย : เทียบเท่าน้ำมันดิบ/วัน

	2552	2553	2554	2555	อัตราการเปลี่ยนแปลง (%)		
					2553	2554	2555
การใช้	1,663	1,783	1,855	1,981	7.2	4.0	6.8
• น้ำมัน	643	652	674	709	1.5	3.3	5.2
• ก๊าซธรรมชาติ	682	784	810	888	15.0	3.3	9.6
• ถ่านหิน	205	211	204	230	3.2	-3.4	12.4
• ลิกไนต์	98	99	112	98	0.7	13.9	-12.6
• พลังน้ำ/ไฟฟ้านำเข้า	35	36	54	55	2.8	48.5	3.0
การผลิต	895	989	1,018	1,082	10.6	2.9	6.2
การนำเข้า (สุทธิ)	922	1,001	1,018	1,079	8.5	1.7	6.0
การนำเข้า/การใช้ (%)	55	56	55	54			
GDP (%)					7.8	0.1	6.5

Energy Situation in 2012

In 2012, Thailand's energy consumption had a robust growth rate more than a usual. There probably were several reasons to drive such consumption. Thailand's GDP growth rate in 2012, by the National Economic and Social Development Board (NESDB), rebounded to grow 6.5% from the previous year almost of no growth. According to NESDB, the economic growth in 2012 was driven by domestic demand; household consumption, government expenditure and private investment. Government policies, especially a rise in minimum-wage rate and a tax refund from the first car policy, impacted a boost in the household consumption. From government side, the expenditure met its target during 2012 fiscal year, and private investment increased in 2012.

Consumption, Production and Import of Primary Commercial Energy

The total primary energy consumption in 2012 increased with robust rate by 6.8% year on year, being at a level of 1,981 thousand barrels per day (KBD) of crude oil equivalent. Natural gas accounted for the largest share of the consumption, i.e. 45%, accounting for an increase of 9.6%. Oil consumption was the second largest, holding a share of 36%, or an increase of 5.2%. The consumption of imported coal increased by 12.4%, but not lignite, decreased 12.6%. As for hydropower and imported electricity, the demand sharply rose by 3.0% due to Yetakun gas stop supply temporarily in April. Primary energy production in 2012 increased around 6.2% year on year, being at 1,082 KBD. Energy net imports increased 6.0% approximately, being at 1,079 KBD.

Consumption, Production and Import of Primary Commercial Energy

Unit : KBD of crude oil equivalent

	2009	2010	2011	2012	Growth Rate (%)		
					2010	2011	2012
Consumption	1,663	1,783	1,855	1,981	7.2	4.0	6.8
• Petroleum	643	652	674	709	1.5	3.3	5.2
• Natural Gas & LNG	682	784	810	888	15.0	3.3	9.6
• Coal	205	211	204	230	3.2	-3.4	12.4
• Lignite	98	99	112	98	0.7	13.9	-12.6
• Hydro/Imported Electricity	35	36	54	55	2.8	48.5	3.0
Production	895	989	1,018	1,082	10.6	2.9	6.2
Import (Net)	922	1,001	1,018	1,079	8.5	1.7	6.0
Import/ Consumption (%)	55	56	55	54			
GDP (%)					7.8	0.1	6.5

สถานการณ์พลังงานแต่ละชนิด

น้ำมัน

น้ำมันดิบ ปี 2555 มีปริมาณการนำเข้าอยู่ที่ระดับ 860 พันบาร์เรลต่อวัน เพิ่มขึ้นร้อยละ 8.3 คิดเป็นมูลค่า 1,119,338 ล้านบาท หรือเพิ่มขึ้นร้อยละ 14.5 ราคาเฉลี่ยน้ำมันดิบนำเข้าอยู่ที่ระดับ 114 เหรียญสหรัฐต่อบาร์เรล เพิ่มขึ้นจากราคาเฉลี่ยปี 2554 ซึ่งอยู่ที่ 110 เหรียญสหรัฐต่อบาร์เรล อยู่ 4 เหรียญสหรัฐต่อบาร์เรล

การนำเข้าน้ำมันดิบ ปริมาณการนำเข้าน้ำมันดิบปี 2555 เพิ่มขึ้น 8.3%

การนำเข้าน้ำมันดิบ	2552	2553	2554	2555	อัตราการเปลี่ยนแปลง (%)		
					2553	2554	2555
ปริมาณ (พันบาร์เรล/วัน)	803	816	794	860	1.6	-2.7	8.3
ราคาเฉลี่ย (\$ US/บาร์เรล)	62	79	110	114	28.4	38.7	3.4
มูลค่า (พันล้านบาท)	623	751	977	1,119	20.6	30.1	14.5

น้ำมันสำเร็จรูป ในปี 2555 มีการใช้น้ำมันสำเร็จรูปเพิ่มขึ้นจากปีก่อนร้อยละ 5.7 โดยน้ำมันเบนซินมีการใช้เพิ่มขึ้นร้อยละ 5.0 และน้ำมันดีเซลเพิ่มขึ้นร้อยละ 7.1 เนื่องจากในช่วงครึ่งปีแรกของปี 2555 ผลผลิตทางการเกษตรมีมาก ทำให้มีการใช้น้ำมันในภาคขนส่งเพิ่มขึ้น ขณะที่ราคาน้ำมันในตลาดโลกโดยรวมทั้งปีอยู่ในภาวะทรงตัว ทำให้มีการปรับราคาขายปลีกน้ำมันไม่มากนัก ส่วนก๊าซปิโตรเลียมเหลวเพิ่มขึ้นร้อยละ 9.1 ตามความต้องการใช้ที่เพิ่มขึ้นของภาคครัวเรือนและภาคขนส่ง ส่วนน้ำมันเครื่องบินมีการใช้เพิ่มขึ้นเล็กน้อยร้อยละ 0.2 ในขณะที่น้ำมันเตามีการใช้ลดลงร้อยละ 3.7

การใช้น้ำมันสำเร็จรูป

หน่วย : พันบาร์เรล/วัน

ชนิด	2552	2553	2554	2555	อัตราการเปลี่ยนแปลง (%)			
					2552	2553	2554	2555
เบนซิน	130	128	126	132	5.6	-1.4	-1.1	5.0
ดีเซล	318	318	331	353	4.6	0.1	3.8	7.1
เครื่องบิน	76	81	88	88	-4.4	6.3	7.7	0.2
น้ำมันเตา	47	45	42	41	-16.9	-4.2	-6.0	-3.7
LPG**	119	131	141	154	0.9	10.0	7.7	9.1
รวม	690	703	728	768	1.3	1.9	3.4	5.7

**ไม่รวมการใช้ LPG ที่ใช้เป็น Feed stocks ในปีใดก็ตาม

Each Type of Energy Situation

Petroleum

Crude Oil. Crude oil imports in 2012 was at a rate of 860 KBD, increasing by 8.3%. However, the imports value increased to THB 1,119.3 billion, or an increase of 14.5% since the crude oil price was not much change from the previous year, increased only 3.4% or less than US\$4 a barrel, from an average import price at US\$110 a barrel in 2011 to US\$114 a barrel in 2012.

Crude Oil Import In 2012, crude oil import increased by 8.3%

Crude Oil Import	2009	2010	2011	2012	Growth Rate (%)		
					2010	2011	2012
Quantity (KBD)	803	816	794	860	1.6	-2.7	8.3
Average Price (\$ US/barrel)	62	79	110	114	28.4	38.7	3.4
Value (Billion THB)	623	751	977	1,119	20.6	30.1	14.5

Petroleum Products. Compared to 2011, the total petroleum product consumption in 2012 increased by 5.7%. The demand for diesel increased by 7.1%, boosted up by an increase of agriculture product in the beginning of 2012; gasoline demand increased 5.0%; jet petroleum demand increased only 0.2%; and LPG demand (excluding the use in the petrochemical industry) increased at the highest rate of 9.1%. However, the demand for fuel oil was down by 3.7%.

Petroleum Product Consumption

Unit : KBD

Product	2009	2010	2011	2012	Growth Rate (%)			
					2009	2010	2011	2012
Gasoline	130	128	126	132	5.6	-1.4	-1.1	5.0
Diesel	318	318	331	353	4.6	0.1	3.8	7.1
Jet Petroleum	76	81	88	88	-4.4	6.3	7.7	0.2
Fuel Oil	47	45	42	41	-16.9	-4.2	-6.0	-3.7
LPG**	119	131	141	154	0.9	10.0	7.7	9.1
Total	690	703	728	768	1.3	1.9	3.4	5.7

** Excluding LPG use as feedstock in the petrochemical industry

• **น้ำมันเบนซิน** การใช้น้ำมันเบนซินปี 2555 อยู่ที่ระดับ 132 พันบาร์เรลต่อวัน หรือ 21.1 ล้านลิตรต่อวัน เพิ่มขึ้นจากปีก่อนร้อยละ 5.0 ส่วนใหญ่เป็นการเพิ่มขึ้นของน้ำมันกลุ่มแก๊สโซฮอล์ เนื่องจากมีราคาถูกกว่าเบนซิน จากการสนับสนุนให้ใช้พลังงานทดแทนของรัฐบาล ทำให้ประชาชนบางส่วนปรับเปลี่ยนไปใช้แก๊สโซฮอล์มากขึ้น สัดส่วนการใช้น้ำมันเบนซินธรรมดาต่อน้ำมันเบนซินพิเศษอยู่ที่ระดับ 73 : 27 ทั้งนี้ คณะกรรมการนโยบายพลังงานแห่งชาติ (กพช.) ได้มีมติเลื่อนกำหนดการยกเลิกน้ำมันเบนซิน 91 จากวันที่ 1 ตุลาคม 2555 ไปเป็นวันที่ 1 มกราคม 2556 และกรมธุรกิจพลังงานได้ออกประกาศกำหนดมาตรฐานให้น้ำมันเบนซินเหลือเพียงชนิดเดียว ใช้ชื่อว่า "น้ำมันเบนซิน" ที่มีออกเทน 95 โดยให้มีผลบังคับใช้ตั้งแต่วันที่ 1 มกราคม 2556 เป็นต้นไป ซึ่งเป็นส่วนหนึ่งของนโยบายส่งเสริมให้ประชาชนหันมาใช้แก๊สโซฮอล์กันมากขึ้นเพื่อทดแทนการใช้น้ำมันเบนซินในอนาคต

ทั้งนี้ การใช้แก๊สโซฮอล์ 95 (E20) ปี 2555 อยู่ที่ระดับ 1.0 ล้านลิตรต่อวัน มีอัตราการเพิ่มขึ้นมากจากปี 2554 ซึ่งอยู่ที่ระดับ 0.6 ล้านลิตรต่อวัน เนื่องจากมาตรการจูงใจด้านราคาที่เป็นส่วนต่างราคาขายปลีก E20 และ E10 ให้ต่างกันมากขึ้น ประกอบกับผู้ค้าน้ำมันขยายจำนวนสถานีเพิ่มขึ้น โดยปัจจุบันมีสถานีบริการทั้งสิ้น 1,234 แห่ง ทำให้ประชาชนส่วนหนึ่งหันมาใช้ E20 มากขึ้น

• **น้ำมันดีเซล** การใช้น้ำมันดีเซลปี 2555 อยู่ที่ระดับ 56.1 ล้านลิตรต่อวัน เพิ่มขึ้นร้อยละ 7.1 เมื่อเทียบกับปีก่อน ตามภาวะเศรษฐกิจของประเทศที่ขยายตัวและตามมติคณะรัฐมนตรีเห็นชอบให้ขยายเวลาการลดภาษีสรรพสามิตไปจนถึงสิ้นเดือนธันวาคม 2555 เพื่อบรรเทาความเดือดร้อนให้แก่ประชาชน ส่งผลให้ราคาน้ำมันดีเซลอยู่ที่ระดับไม่เกิน 30 บาทต่อลิตร

• **LPG ไทสวีท และปิวเทอ** ปี 2555 มีการใช้ LPG ที่ระดับ 7,386 พันตัน เพิ่มขึ้นจากปีก่อนร้อยละ 7.2 โดยมีการใช้ LPG แยกเป็นรายสาขาดังนี้

- การใช้ในสาขาครัวเรือนมีสัดส่วนการใช้มากที่สุดคิดเป็นร้อยละ 41 ของปริมาณการใช้ทั้งหมด มีอัตราการขยายตัวเพิ่มขึ้นร้อยละ 14.7 อยู่ที่ระดับ 3,047 พันตัน

- การใช้ในอุตสาหกรรมปิโตรเคมีซึ่งมีสัดส่วนรองลงมาคิดเป็นร้อยละ 35 ของปริมาณการใช้ทั้งหมด มีอัตราการขยายตัวเพิ่มขึ้นร้อยละ 3.6 อยู่ที่ระดับ 2,555 พันตัน

- การใช้ในรถยนต์คิดเป็นสัดส่วนร้อยละ 14 ของปริมาณการใช้ทั้งหมด มีอัตราการขยายตัวเพิ่มขึ้นร้อยละ 15.3 อยู่ที่ระดับ 1,061 พันตัน ถึงแม้ว่าในช่วงต้นปีจะมีการปรับราคาขายปลีกขึ้นเดือนละ 0.75 บาทต่อกิโลกรัม ตั้งแต่วันที่ 16 มกราคม-16 เมษายน 2555 และให้คงราคาขายปลีกไว้ที่ 21.38 บาทต่อกิโลกรัมจนถึงสิ้นปีเนื่องจากราคาน้ำมันที่ปรับตัวสูงขึ้นในช่วงต้นปี ส่งผลให้ประชาชนเปลี่ยนมาใช้ LPG เพิ่มมากขึ้น

- การใช้เป็นเชื้อเพลิงในภาคอุตสาหกรรม ซึ่งมีสัดส่วนคิดเป็นร้อยละ 8 ของปริมาณการใช้ทั้งหมด มีการใช้ลดลงร้อยละ 14.5 อยู่ที่ระดับ 614 พันตัน ซึ่งเป็นการลดลงอย่างต่อเนื่องหลังจากที่ กพช. มีมติปรับราคา LPG ให้สะท้อนต้นทุนของโรงกลั่นน้ำมันมากขึ้น ตั้งแต่เดือนกรกฎาคม 2554 โดยราคาขายปลีก LPG ภาคอุตสาหกรรมเฉลี่ย 30.13 บาทต่อกิโลกรัม เพิ่มขึ้นจากช่วงก่อนปรับราคาซึ่งอยู่ที่ระดับ 18.13 บาทต่อกิโลกรัม

- การใช้เป็นพลังงาน (own used) ซึ่งมีสัดส่วนคิดเป็นร้อยละ 2 ของปริมาณการใช้ทั้งหมด มีอัตราการขยายตัวลดลงร้อยละ 16.0 อยู่ที่ระดับ 110 พันตัน

- **Gasoline** - an average consumption of gasoline in 2012 was at a level of 132 KBD (21.1 million litres per day) or 5.0% increase, compared to 2011. An increase in gasoline was mostly from an increase in gasohol consumption, E10 and E20. Government had a policy to promote use of gasohol via its pricing with a subsidy. In 2012, gasohol and regular gasoline had a proportion between them around 73: 27. National Energy Policy Council resulted to have no longer gasoline octane 91 for sale by January 1st 2013, postponed from October 1st 2012. Thus after that there will be only one gasoline left, which is octane 95, in the market. This policy was to encourage the consumption in gasohol for replacing regular gasoline to increase in the future.

In additional, the volume of gasohol E20 consumption in 2012 was 1.0 million liters per day, compared to 0.6 million liters per day in 2011. It means a significant increase in E20 consumption. There was a policy to lower E20 price to make a gap between E20 and E10 wider. Furthermore there were more gas service stations to carry E20 for sale, the 1,234 gas stations in total at the yearend which had E20 in service.

- **Diesel** - In 2012, diesel consumption was at an average of 56.1 million liters per day, an increase of 7.1%, as a robust in economy and retail price stable. To reduce a burden of household expense, the retail price of diesel had been fixed at 29.99 Baht per litre by the government policy since the beginning of the year.

- **LPG, Propane and Butane** - The demand of these products in 2012 was at 7,386 thousand tons, an increase of 7.2%. The sector consumption as follows:

- The household consumption accounted for the largest share of the total demand, i.e. 41%, with a growth rate of 14.7%, being at 3,047 thousand tons.

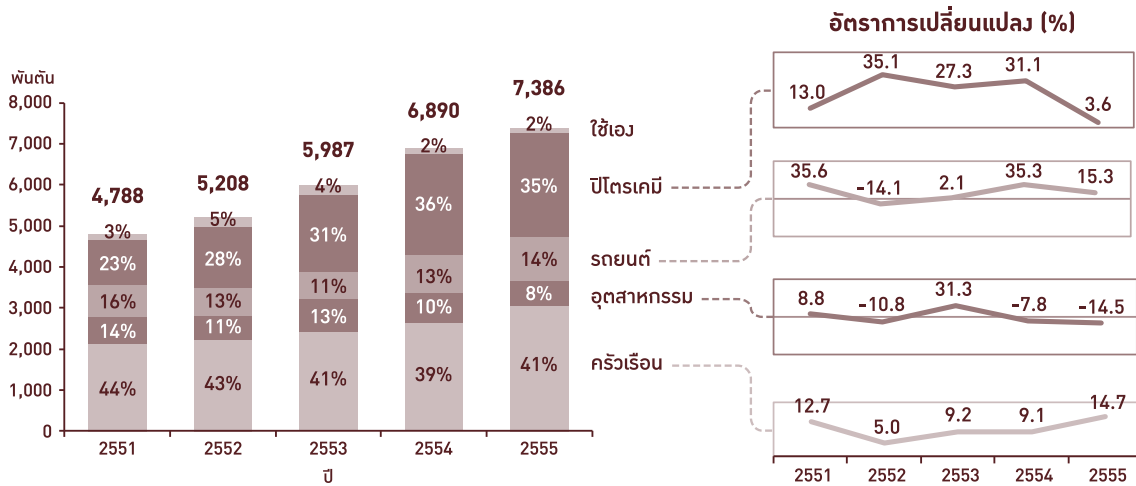
- Next to it was the use as feedstock in the petrochemical industry, holding a share of 35%, growing by 3.6%, being at a level of 2,555 thousand tons.

- The use as fuel for vehicles accounted for a share of 14%, growing by 15.3% at 1,061 thousand tons. Although, LPG price for vehicles has raised 0.75 Baht per kilogram to 21.38 Baht per kilogram since January 2012, LPG remained a high growth.

- On the contrary, the use in the industrial sector accounted for a share of 8.0%, decreasing by 14.5% at 614 thousand tons. It had declined since the government had set a policy to increase the retail LPG price for this sector to reflect the actual cost since year before, July 2011. The LPG retail price in 2012 for industrial sector was 30.13 Baht per kilogram on an average, compared to 18.13 Baht per kilogram before then.

- Own use accounted for a share of 2%, decreasing 16.0% to around 110 thousand tons.

การใช้ LPG โพรเพน และบิวเทน



ปี 2555	ครัวเรือน	อุตสาหกรรม	รถยนต์	ปิโตรเคมี	ใช้เอง	รวม
ปริมาณการใช้ (พันตัน)	3,047	614	1,061	2,555	110	7,386
อัตราการเปลี่ยนแปลง (%)	14.7	-14.5	15.3	3.6	-16.0	7.2

- **น้ำมันเตา** ปี 2555 มีการใช้น้ำมันเตา 2,363 ล้านลิตร ลดลงจากปีก่อนร้อยละ 3.7 โดยส่วนใหญ่ใช้น้ำมันเตาถูกใช้เพื่อผลิตไฟฟ้าในภาคอุตสาหกรรม ที่เหลือเป็นการนำไปใช้เพื่อผลิตไฟฟ้า

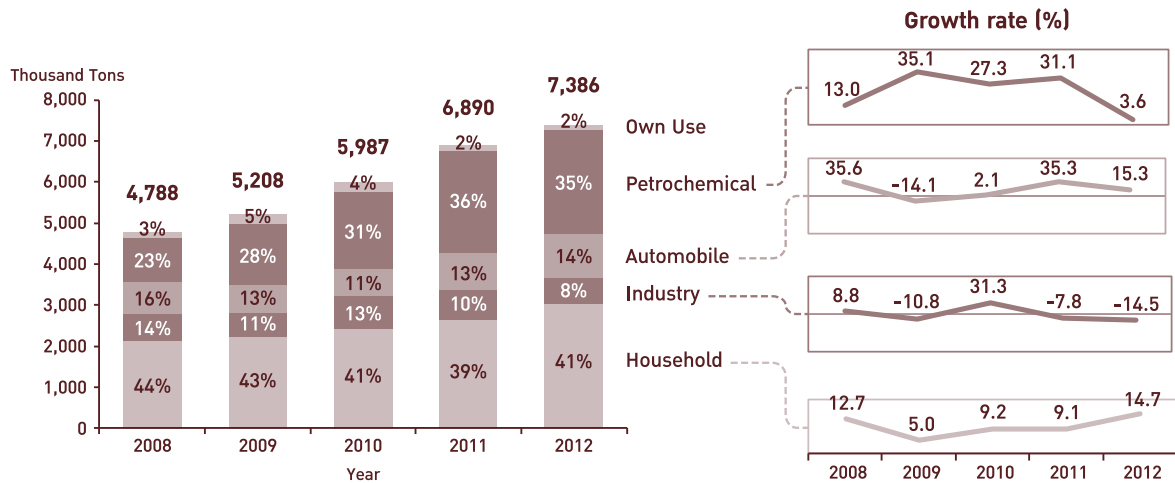
- **น้ำมันเครื่องบิน** ปี 2555 มีการใช้ที่ระดับ 5,091 ล้านลิตร ลดลงจากปีก่อนร้อยละ 0.2 สาเหตุสำคัญอาจเนื่องมาจากวิกฤตเศรษฐกิจยุโรปที่ส่งผลกระทบต่อภาคการท่องเที่ยวของประเทศ โดยเฉพาะนักท่องเที่ยวในกลุ่มยุโรป ประเทศมาเลเซีย และประเทศสิงคโปร์งดการเดินทางเนื่องจากประหยัดค่าใช้จ่าย จึงทำให้ภาพรวมการขยายตัวของอุตสาหกรรมท่องเที่ยวไทยปรับตัวลดลง

ก๊าซธรรมชาติ

การใช้ก๊าซธรรมชาติ ปี 2555 อยู่ที่ระดับ 4,534 ล้านลูกบาศก์ฟุตต่อวัน เพิ่มขึ้นจากปีก่อนร้อยละ 9.8 การใช้ก๊าซธรรมชาติในสาขาต่าง ๆ ส่วนใหญ่เพิ่มขึ้น โดยการใช้เพื่อผลิตไฟฟ้าคิดเป็นสัดส่วนร้อยละ 59 ของการใช้ทั้งหมด มีการใช้เพิ่มขึ้นร้อยละ 8.2 อยู่ที่ระดับ 2,670 ล้านลูกบาศก์ฟุตต่อวัน การใช้ในโรงแยกก๊าซคิดเป็นสัดส่วนร้อยละ 21 ของการใช้ทั้งหมด มีการใช้เพิ่มขึ้นร้อยละ 10.8 การใช้เป็นเชื้อเพลิงในโรงงานอุตสาหกรรมคิดเป็นสัดส่วนร้อยละ 14 ของการใช้ทั้งหมด มีการใช้เพิ่มขึ้นร้อยละ 10.6 และการใช้เพื่อเป็นเชื้อเพลิงสำหรับรถยนต์ (NGV) คิดเป็นสัดส่วนร้อยละ 6 ของการใช้ทั้งหมด มีการใช้เพิ่มขึ้นร้อยละ 20.8

- **การใช้ก๊าซธรรมชาติในรถยนต์ (NGV)** เพิ่มขึ้นตั้งแต่ปี 2555 การใช้ NGV เฉลี่ย 7,720 ตันต่อวัน (278 ล้านลูกบาศก์ฟุตต่อวัน) เพิ่มขึ้นจากปีก่อน ร้อยละ 20.8 ในช่วงต้นปีการปรับเพิ่มราคาขายปลีก NGV เดือนละ 0.50 บาทต่อกิโลกรัม ตั้งแต่วันที่ 16 มกราคม-16 เมษายน 2555 และคงราคาขายปลีกไว้ที่ 10.50 บาทต่อกิโลกรัม แต่หากเทียบราคาน้ำมันเชื้อเพลิงแล้ว NGV ยังคงมีราคาถูกกว่ามาก

LPG, Propane and Butane Consumption



2012	Household	Industry	Automobile	Petrochemical	Own Use	Total
Consumption (Thousand Tons)	3,047	614	1,061	2,555	110	7,386
Growth Rate (%)	14.7	-14.5	15.3	3.6	-16.0	7.2

- **Fuel Oil** - in 2012 fuel oil consumption was 2,363 million liters, decreased 3.7% year-on-year basis. Mostly, fuel oil was used in industry. There was a very few of it use in power generation.

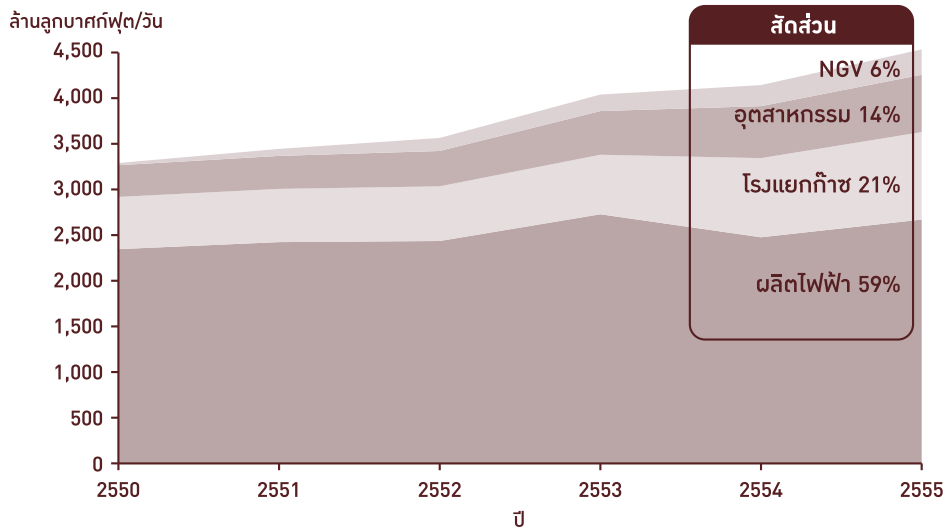
- **Jet Oil** - in 2012 jet oil consumption was 5,091 million liters, decreased 0.2% from the previous year. Tourist industry declined, especially from Europe, Malaysia and Singapore since world economic crisis was on at that time.

Natural Gas

Natural Gas Consumption. In 2012, the demand for natural gas was at a level of 4,534 million standard cubic feet per day (MMSCFD), increasing by 9.8% from previous year. Gas demand for power generation took the largest share of 59%, increase by 8.2% being at 2,670 MMSCFD. The use of natural gas as feedstock in the gas separation plant (GSP), share 21%, increased by 10.8%. Natural gas demand in the industrial sector and in transport sector as a fuel for vehicles (NGV) increased by 10.6% and 20.8% respectively and shared 14% and 6% respectively.

- **Compressed Natural Gas for Vehicles (CNG)** - CNG consumption in 2012 was 7,720 tons per day on an average or equal to 278 MMSCFD, increased 20.8%. CNG price had been rise 0.50 Baht per kilogram a month from January 16th till April 16th by government policy, and its price had been determined at 10.50 Baht per kilogram since then. However, CNG price remained not only much lower than the other fuel costs, but also more stable than the other fuels.

การใช้ก๊าซธรรมชาติรายสาขา



อัตราการเปลี่ยนแปลง (%)	ผลิตไฟฟ้า	โรงแยกก๊าซ	อุตสาหกรรม	NGV	รวม	
	2552	0.2	2.5	6.9	84.2	3.2
	2553	12.0	8.9	23.5	26.8	13.3
	2554	-9.3	33.0	19.2	27.5	2.6
	2555	8.2	10.8	10.6	20.8	9.8

ลิกไนต์/ถ่านหิน

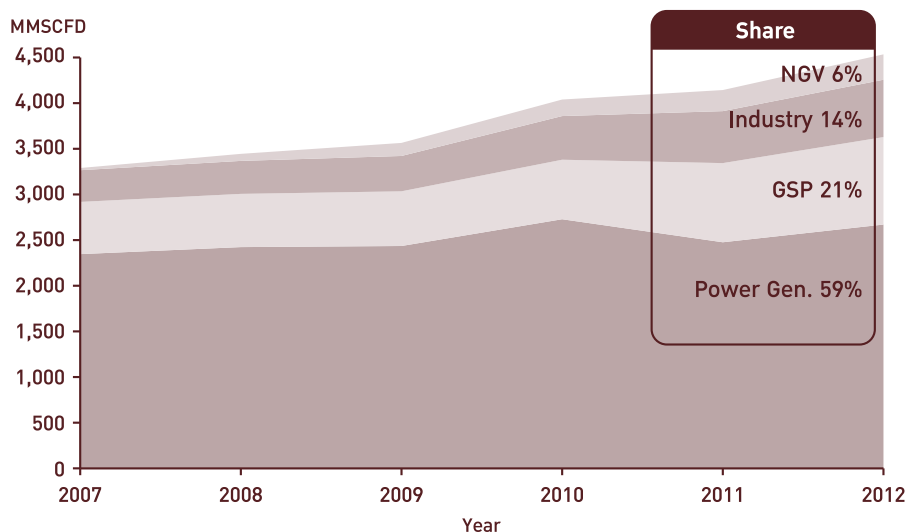
การใช้ลิกไนต์/ถ่านหิน ปี 2555 มีการใช้อยู่ที่ระดับ 37 ล้านตัน หรือคิดเป็น 16,407 พันตันเทียบเท่าน้ำมันดิบ เพิ่มขึ้นจากปีก่อนร้อยละ 3.8 ซึ่งปริมาณการใช้ลิกไนต์อยู่ที่ระดับ 4,919 พันตันเทียบเท่าน้ำมันดิบ ลดลงร้อยละ 12.4 โดยส่วนใหญ่ร้อยละ 84 ของลิกไนต์ทั้งหมดนำไปใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และส่วนที่เหลือนำไปใช้ในภาคอุตสาหกรรมร้อยละ 16 ซึ่งอุตสาหกรรมที่มีการนำไปใช้มากที่สุดคือการผลิตปูนซีเมนต์

ถ่านหินนำเข้าปี 2555 มีปริมาณการใช้ที่ระดับ 11,488 พันตันเทียบเท่าน้ำมันดิบ เพิ่มขึ้นร้อยละ 12.7 ภาคอุตสาหกรรมเป็นสาขาหลักที่มีการใช้ถ่านหินมากที่สุด คิดเป็นสัดส่วนร้อยละ 58 ส่วนที่เหลือนำไปใช้ในการผลิตไฟฟ้าของ IPP และ SPP ร้อยละ 29 และร้อยละ 13 ตามลำดับ โดยในปีนี้ IPP มีการใช้ถ่านหินมากขึ้นเนื่องจากโรงไฟฟ้าเกิดไค้ วัน ขนาดกำลังการผลิตติดตั้ง 660 เมกะวัตต์ได้เริ่มขายไฟฟ้าเข้าระบบของ กฟผ. ตั้งแต่วันที่ 1 สิงหาคม 2555 เป็นต้นมา ทำให้โรงไฟฟ้าเอกชนขนาดใหญ่ (IPP) ที่ใช้ถ่านหินเป็นเชื้อเพลิงผลิตไฟฟ้าของประเทศไทยเพิ่มขึ้นเป็น 2 โรง

ไฟฟ้า

- **กำลังการผลิตติดตั้งไฟฟ้า** ปี 2555 ที่มีอยู่ในระบบรวมทั้งสิ้น 32,600 เมกะวัตต์ โดยมีกำลังการผลิตที่สำคัญจาก กฟผ. ร้อยละ 46 และจากโรงไฟฟ้าเอกชนขนาดใหญ่ (IPP) ร้อยละ 39 ที่เหลือมาจากโรงไฟฟ้าเอกชนขนาดเล็ก (SPP) ร้อยละ 8 และจากการนำเข้าและแลกเปลี่ยนร้อยละ 7

Natural Gas Consumption by Sector



Growth Rate (%)	Power Generation	Gas Separation Plant	Industry	NGV	TOTAL
2009	0.2	2.5	6.9	84.2	3.2
2010	12.0	8.9	23.5	26.8	13.3
2011	-9.3	33.0	19.2	27.5	2.6
2012	8.2	10.8	10.6	20.8	9.8

Lignite/Coal

Lignite/Coal Consumption. In 2012, lignite/coal consumption totaled 37 million tons or 16,407 ktoe, increasing by 3.8% from the previous year (based on the heating value), divided into consumption of lignite at 4,919 ktoe, decreased 12.4%, and imported coal at 11,488 ktoe, increased 12.7%. Of the total lignite consumption, 84% was used for power generation by EGAT; the remaining 16% was mainly used for cement manufacturing. In 2012, coal mainly used in industry with a share of 58%, and the less of them used in power generation, IPP and SPP, with a share of 29% and 13% respectively. Demand for coal from IPP was boosted quite high by an entry of the new large power plant into the industry; GHECO-One with 660 MW installed capacity. This IPP had started run commercially since August 2012.

Electricity

- **Installed Generating Capacity.** Thailand's installed capacity in 2012 was 32,600 MW. The Electricity Generating Authority of Thailand (EGAT) held the largest share of 46%. Next to it was Independent Power Producers (IPP), holding a share of 39%; then Small Power Producers (SPP), 8%; and power purchase from foreign sources, 7%.

- **ความต้องการพลังไฟฟ้าสูงสุดสุทธิในระบบของ กฟผ.** ในปี 2555 ความต้องการไฟฟ้าสูงสุดสุทธิ เกิดขึ้นเมื่อวันพฤหัสบดีที่ 26 เมษายน เวลา 14.30 น. อยู่ที่ระดับ 26,121 เมกะวัตต์ สูงกว่าความต้องการไฟฟ้าสูงสุดสุทธิของปี 2554 ซึ่งเกิดขึ้นเมื่อวันอังคารที่ 24 พฤษภาคม เวลา 14.00 น. ที่ระดับ 23,900 เมกะวัตต์ อยู่ 2,221 เมกะวัตต์ หรือคิดเป็นเพิ่มขึ้นร้อยละ 9.3

- **การผลิตไฟฟ้า** ปี 2555 มีจำนวน 176,973 กิกะวัตต์ชั่วโมง เพิ่มขึ้นจากปีที่แล้วร้อยละ 9.0 โดยเชื้อเพลิงหลักยังคงเป็นก๊าซธรรมชาติ ซึ่งมีสัดส่วนการใช้ร้อยละ 67 รองลงมาคือถ่านหิน/ลิกไนต์ มีสัดส่วนการใช้ร้อยละ 19 ที่เหลือจากการนำเข้ร้อยละ 6 จากพลังน้ำร้อยละ 5 จากพลังงานหมุนเวียนร้อยละ 2 และจากน้ำมันร้อยละ 1

- **การใช้ไฟฟ้า** ปี 2555 รวมทั้งประเทศ อยู่ที่ระดับ 161,778 กิกะวัตต์ชั่วโมง เพิ่มขึ้นร้อยละ 8.7 สาเหตุที่การใช้ไฟฟ้าเพิ่มสูงขึ้นเนื่องจากสภาพอากาศในช่วงเดือนเมษายนที่ร้อนจัด ประกอบกับการฟื้นตัวของภาคธุรกิจขนาดใหญ่และครัวเรือนหลังจากประสบภัยน้ำท่วมเมื่อปลายปี 2554 โดยการใช้ไฟฟ้าในเขตนครหลวงเพิ่มขึ้นร้อยละ 9.2 เขตภูมิภาคเพิ่มขึ้นร้อยละ 8.5 และการใช้จากลูกค้าตรงของ กฟผ. เพิ่มขึ้นร้อยละ 6.0

- **การใช้ไฟฟ้ารายสาขา** ปี 2555 ในภาพรวมกลุ่มผู้ใช้ไฟฟ้ามีความต้องการใช้ไฟฟ้าเพิ่มขึ้น โดยเฉพาะกลุ่มผู้ใช้ไฟฟ้าในสาขาครัวเรือนมีการใช้ไฟฟ้าเพิ่มขึ้นร้อยละ 11.1 เนื่องจากปัจจัยอุณหภูมิที่เพิ่มสูงขึ้นกว่าปีที่ผ่านมาส่งผลทำให้ผู้ใช้ไฟฟ้าสาขาดังกล่าวใช้เครื่องปรับอากาศเพิ่มมากขึ้น ในขณะที่สาขาธุรกิจมีการใช้เพิ่มขึ้นร้อยละ 14.6 และอุตสาหกรรมมีการใช้ไฟฟ้าเพิ่มขึ้นร้อยละ 6.7 ซึ่งเป็นผลมาจากเศรษฐกิจที่เริ่มฟื้นตัวจากอุทกภัยเมื่อปลายปี 2554 โดยภาวะอุตสาหกรรมในไตรมาส 1 ปี 2555 ยังอยู่ในภาวะชะลอตัวต่อเนื่องจากไตรมาส 4 ปี 2554 แต่ในไตรมาส 2 ปี 2555 เริ่มฟื้นตัวดีขึ้น แต่การขยายตัวยังมีไม่มาก เพราะอุตสาหกรรมที่ได้รับผลกระทบจากน้ำท่วมยังไม่ฟื้นตัวเต็มที่ ส่วนในช่วงครึ่งหลังของปี 2555 มีปัจจัยสนับสนุนจากการลงทุนภาครัฐที่ทำให้การใช้ไฟฟ้าในภาคอุตสาหกรรมยานยนต์มีการขยายตัวเพิ่มสูงขึ้น เนื่องจากมีปัจจัยสนับสนุนจากการลงทุนสายการผลิตรถยนต์รุ่นใหม่เพื่อจำหน่ายในประเทศและส่งออกไปเอเชีย ประกอบกับได้รับปัจจัยสนับสนุนจากนโยบายรถยนต์คันแรกของรัฐบาล ในขณะที่อุตสาหกรรมอิเล็กทรอนิกส์และอุตสาหกรรมสิ่งทอมีการใช้ไฟฟ้าลดลง เนื่องจากได้รับผลกระทบจากการชะลอตัวของตลาดหลักทั้งสหรัฐอเมริกา อียู และประเทศญี่ปุ่น รวมทั้งตลาดส่งออกมีการแข่งขันที่รุนแรงขึ้น ประกอบกับโรงงานสิ่งทอรายใหญ่บางแห่งได้รับผลกระทบจากน้ำท่วมทำให้ต้องหยุดผลิตชั่วคราว

- **ค่าเอฟที** มีการปรับหลายครั้งในปี 2555 ดังนี้

- ในช่วงเดือนมกราคม-พฤษภาคม 2555 ค่าเอฟทีอยู่ที่ระดับ 0 สตางค์ต่อหน่วย
- ในช่วงเดือนมิถุนายน-สิงหาคม 2555 มีการปรับค่าเอฟทีที่ 30 สตางค์ต่อหน่วย ทำให้ค่าเอฟทีอยู่ที่ 30 สตางค์ต่อหน่วย
- ในช่วงเดือนกันยายน-ธันวาคม 2555 มีการปรับค่าเอฟทีเพิ่มขึ้นอีก 18 สตางค์ต่อหน่วย ทำให้ค่าเอฟทีกลายเป็น 48 สตางค์ต่อหน่วย ทั้งนี้เนื่องจากราคาเชื้อเพลิงที่ใช้ในการผลิตไฟฟ้าเพิ่มสูงขึ้นอย่างต่อเนื่อง

- **Net Peak Generation Requirement on EGAT system.** The net peak generation requirement in 2012 occurred on Thursday, 26 April 2012, at 14.30 hrs., reaching 26,121 MW, accounting for 2,221 MW or 9.3% higher than that in 2011 which was at 23,900 MW on Tuesday, 24 May 2011, at 14.00 hrs.

- **Power Generation.** The amount of power generation, together with power purchase by EGAT, in 2012 totaled 176,973 gigawatt-hour (GWh), increasing by 9.0% compared with that in 2011. The share of individual fuel types used for power generation was as follows: natural gas, 67%; lignite/coal, 19%; imported electricity, 6%; hydropower, 5%; renewable energy, 2%; and oil, 1%.

- **Power Demand.** In 2012, power demand totaled 161,778 GWh, an increase of 8.7% from that in 2011 because of high temperature during a long hot season, coupled with the impact of high consumption in business and household back to the track from previous year severe flood in central plain of the country included Bangkok area. Electricity consumption in metropolitan area (MEA), provincial area (PEA) and EGAT's direct customers increased in high digits of 9.2%, 8.5% and 6.0%, respectively.

- **Power Demand by Sector.** Power demand in household increased 11.1% due to hot weather. The demand in business and industry also had a high increase of 14.6% and 6.7% respectively because of the economy recovery from the previous year economic down turn. A recovery in industry from a year before severe flood went quite slow. However the first-car-tax-refund policy made a high growth in power consumption of car industry. Nonetheless a slowdown in exports of electronic and textile from economic crisis and a high market competition in these regions, the US, Europe and Japan, caused power consumption in these industries to decline.

- **The Automatic Tariff Adjustment Mechanism (F_t).** The new power tariff structure was put into effect, starting in the month of July in previous year. In 2012, F_t charge was resulted in several revisions as follows:

1st revision: for the round of January–May 2012, the F_t rate was at 0.0 Baht/unit.

2nd revision: for the round of June–August 2012, the F_t rate was at 0.30 Baht/unit, increasing by 0.30 Baht/unit.

3rd revision: for the round of September–December 2011, the F_t rate was at 0.48 Baht/unit, increasing by 0.18 Baht/unit. Price of fuels in power generation was getting high continuously in 2012. This resulted the F_t to increase throughout the year.

Table 1.1-1Y
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : Barrels/Day (Crude Oil Equivalent)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Production	198,155	221,339	250,465	290,923	309,599	331,936	368,138	392,644	450,073	523,408	524,089	547,787
Crude	19,181	21,351	23,968	24,503	26,317	24,940	26,553	23,763	26,419	27,463	29,420	34,006
Condensate	16,308	16,784	17,538	19,799	24,146	26,192	27,863	27,271	32,436	40,774	42,177	45,171
Natural Gas	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,002	305,034	334,169
Lignite	42,296	54,660	73,846	86,017	91,295	96,021	107,695	114,816	131,686	142,732	124,868	119,305
Hydro	16,460	24,469	21,752	19,999	18,411	16,036	19,548	29,267	31,940	31,437	22,590	15,136
Import (Net)	234,734	301,538	354,756	371,980	419,731	492,902	540,526	640,253	739,280	709,378	621,827	657,303
Crude	154,906	204,186	210,001	220,739	277,501	323,859	372,885	452,114	633,170	728,757	679,728	698,895
Condensate	-13,511	-14,459	-15,157	-17,039	-14,532	-10,227	-16,662	-12,871	-21,935	-21,452	-16,405	-11,749
Petroleum Products	88,089	104,985	154,493	161,350	149,664	166,417	163,753	170,416	77,912	-40,379	-65,105	-75,020
Coal	4,504	5,691	4,264	5,871	6,247	11,704	19,001	29,356	48,717	41,133	20,424	40,997
Electricity	746	1,135	1,155	1,059	851	1,149	1,549	1,238	1,416	1,319	2,796	3,910
Natural Gas											389	270
Stock Change	-8,096	8,755	439	-7,222	-2,954	3,222	-6,985	8,397	32,823	-36,720	-30,508	-41,584
Consumption	437,456	510,109	600,472	664,612	718,553	804,947	899,880	1,007,874	1,120,759	1,175,656	1,086,464	1,118,679
Petroleum Products	270,068	323,925	386,018	410,794	451,899	509,873	566,110	635,902	685,204	681,331	610,785	611,174
Natural Gas	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,003	305,423	334,439
Coal	4,504	5,691	4,265	5,872	6,248	11,704	19,001	29,356	48,717	41,133	20,424	40,997
Lignite	41,768	50,814	73,921	86,283	91,714	97,438	107,193	114,584	125,890	139,433	124,446	113,023
Hydro & Imported Elec.	17,206	25,604	22,907	21,058	19,262	17,185	21,097	30,505	33,356	32,756	25,386	19,046
Import/Consumption	54	59	59	56	58	61	60	64	66	60	57	59
Non-Energy Use	3,529	4,013	4,310	5,513	13,731	16,669	15,769	16,626	35,771	93,850	89,960	127,995

Table 1.1-1Y (Cont.)
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : Barrels/Day (Crude Oil Equivalent)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Production	588,596	594,367	631,698	666,413	676,286	737,579	765,110	793,721	848,354	894,765	989,482	1,018,472	1,081,754
Crude	57,937	61,914	75,567	96,322	85,516	113,890	128,950	134,563	143,935	154,041	153,174	139,991	148,977
Condensate	47,528	47,188	48,897	57,032	62,075	63,243	68,488	71,760	77,265	76,361	80,663	76,576	81,584
Natural Gas	350,069	341,406	356,897	373,241	387,695	411,849	422,782	451,905	499,246	537,370	630,858	643,514	717,684
Lignite	106,981	116,451	117,635	107,822	114,898	123,422	109,599	100,152	97,138	96,072	101,052	123,167	96,185
Hydro	26,081	27,408	32,702	31,996	26,102	25,175	35,291	35,341	30,770	30,921	23,735	35,224	37,324
Import (Net)	684,592	750,732	797,089	868,283	988,292	979,920	978,121	997,646	951,993	922,035	1,000,632	1,017,875	1,078,833
Crude	643,063	674,211	682,197	709,070	813,422	762,121	763,858	752,196	765,697	762,294	786,243	761,723	819,173
Condensate	-4,423	-3,482	-4,560										
Petroleum Products	-40,892	-76,091	-66,411	-57,345	-55,733	-51,047	-91,285	-105,481	-166,682	-193,992	-162,977	-133,513	-158,763
Coal	52,177	61,850	70,025	88,931	94,170	107,164	140,264	180,274	199,304	204,976	211,422	204,254	229,556
Electricity	5,088	4,973	4,856	4,278	5,795	7,494	8,873	7,700	4,789	4,239	12,425	18,457	17,973
Natural Gas	29,579	89,271	110,982	123,349	130,638	154,188	156,411	162,957	148,885	144,518	153,519	166,954	170,894
Stock Change	-10,736	8,762	-4,167	-32,091	-12,553	-21,588	-17,339	-44,838	-38,523	-94,140	-83,022	-128,562	-151,551
Consumption	1,147,162	1,199,134	1,282,157	1,348,049	1,450,894	1,520,122	1,544,741	1,603,870	1,617,994	1,662,572	1,782,948	1,854,571	1,980,745
Petroleum Products	578,832	560,322	589,160	623,627	686,612	689,418	673,786	666,775	633,720	642,701	652,464	673,881	709,223
Natural Gas	379,610	430,562	467,743	496,438	518,173	565,854	579,007	614,667	647,953	681,717	784,184	810,274	888,380
Coal	52,177	61,850	70,025	88,931	94,170	107,157	140,264	180,274	199,304	204,962	211,422	204,254	229,556
Lignite	105,374	114,019	117,671	102,779	120,042	125,024	107,520	99,113	101,458	98,032	98,718	112,481	98,289
Hydro & Imported Elec.	31,169	32,381	37,558	36,274	31,897	32,669	44,164	43,041	35,559	35,160	36,160	53,681	55,297
Import/Consumption	60	63	62	64	68	64	63	62	59	55	56	55	54
Non-Energy Use	136,762	137,203	150,797	218,738	226,237	218,965	215,829	232,335	220,876	248,368	290,188	310,338	331,393

Table 1.1-2Y
Primary Commercial Energy Production (Physical Unit)

Year	Hydro (GWh)	Lignite (Tons)					NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)					
		EGAT		Others	Total	Benjamas			Sirikit	Tantawan	Fang	Others	Total	
		Mae-Moh	Krabi											
1988	3,718	5,717,250	237,396	5,954,646	1,340,413	7,295,059	211,641	6,558	6,549				472	7,020
1989	5,512	6,541,191	318,585	6,859,776	2,150,146	9,009,922	211,399	6,731	7,372			421		7,793
1990	4,900	9,652,991	156,262	9,809,254	2,629,219	12,438,473	230,261	7,034	8,307			441		8,748
1991	4,505	11,513,775	242,699	11,756,475	2,889,540	14,646,015	285,599	7,940	8,308			450	186	8,944
1992	4,159	11,844,352	253,950	12,098,302	3,290,259	15,388,561	304,356	9,710	8,601			489	542	9,632
1993	3,613	11,221,088	211,800	11,432,888	4,105,039	15,537,927	342,762	10,504	8,054			469	580	9,103
1994	4,404	11,906,553	225,065	12,131,618	4,963,253	17,094,871	378,779	11,174	8,119			531	1,042	9,692
1995	6,593	13,191,880	144,232	13,336,112	5,084,686	18,420,798	401,221	10,937	6,435			514	1,724	8,674
1996	7,215	16,381,301		16,381,301	5,309,093	21,690,394	463,555	13,044	6,844			472	2,353	9,669
1997	7,082	17,692,415		17,692,415	5,746,141	23,438,556	570,777	16,352	6,450			483	1,129	10,024
1998	5,089	14,419,327		14,419,327	5,576,868	19,996,195	619,591	16,914	7,540			376	554	10,738
1999	3,410	12,021,265		12,021,265	6,240,043	18,261,308	678,770	18,115	1,176			363	492	12,412
2000	5,891	13,621,615	30,000	13,651,615	4,134,132	17,785,747	713,015	19,113	8,914			321	647	21,205
2001	6,174	15,314,436	133,000	15,447,436	4,159,559	19,606,995	693,469	18,924	10,551			240	1,168	22,598
2002	7,367	14,994,739	187,000	15,181,739	4,420,245	19,601,984	724,936	19,609	12,823			241	4,940	27,582
2003	7,208	15,591,841	146,000	15,737,841	3,105,554	18,843,395	758,134	22,872	17,985			309	7,986	35,158
2004	5,896	16,561,572	95,868	16,657,440	3,402,404	20,059,844	789,651	24,963	14,412			291	8,707	31,299
2005	5,671	16,534,142	36,522	16,570,664	4,307,512	20,878,176	836,555	25,363	16,724			292	15,875	41,570
2006	7,950	15,763,798	56,000	15,819,798	3,250,810	19,070,608	858,763	27,466	18,251			354	18,580	47,067
2007	7,961	16,117,809	27,112	16,144,921	2,094,255	18,239,176	917,917	28,778	15,378			354	23,085	49,115
2008	6,951	16,420,847	23,248	16,444,095	1,651,290	18,095,385	1,016,856	31,071	16,455			431	25,748	52,680
2009	6,966	15,631,766		15,631,766	1,934,334	17,566,100	1,091,516	30,623	10,609			454	35,116	56,225
2010	5,347	15,987,263		15,987,263	2,270,799	18,258,062	1,281,410	32,349	9,733			421	36,386	55,909
2011	7,935	17,558,336		17,558,336	3,768,770	21,327,106	1,307,117	30,710	9,883			381	30,466	51,097
2012	8,431	16,590,461		16,590,461	1,475,968	18,066,429	1,461,767	32,808	10,403			346	33,094	54,526

Table 1.1-3Y
Primary Commercial Energy Production

Unit : KTOE

Year	Hydro				Lignite				NG	Condensate	Crude Oil					Grand Total
	EGAT		Non EGAT		Total	Benjamas	Sirikit	Tantawan			Fang	Others	Total			
	Mae-Moh	Krabi	Total	Total												
1988	824	1,416	61	1,477	584	2,061	5,200	816	895	64	960	9,861				
1989	1,221	1,620	82	1,702	937	2,639	5,194	838	1,008	58	1,066	10,958				
1990	1,086	2,391	40	2,431	1,146	3,577	5,658	875	1,136	60	1,196	12,392				
1991	998	2,852	63	2,915	1,260	4,175	7,017	988	1,136	62	1,223	14,401				
1992	921	2,934	65	2,999	1,434	4,433	7,478	1,208	1,176	67	1,317	15,357				
1993	800	2,779	55	2,834	1,790	4,624	8,422	1,307	1,101	64	1,245	16,398				
1994	976	2,949	58	3,007	2,164	5,171	9,307	1,391	1,110	73	1,325	18,170				
1995	1,461	3,268	37	3,305	2,217	5,522	9,858	1,361	880	70	1,186	19,388				
1996	1,598	4,058		4,058	2,314	6,372	11,390	1,623	936	65	1,322	22,305				
1997	1,569	4,382		4,382	2,505	6,887	14,024	2,035	882	66	1,371	25,886				
1998	1,127	3,572		3,572	2,431	6,003	15,223	2,105	1,031	51	1,468	25,926				
1999	755	2,978		2,978	2,720	5,698	16,677	2,254	1,167	50	1,697	27,081				
2000	1,305	3,374	8	3,382	1,802	5,184	17,519	2,378	1,219	44	2,899	29,285				
2001	1,368	3,793	34	3,827	1,813	5,640	17,039	2,355	1,443	33	3,090	29,492				
2002	1,632	3,714	48	3,762	1,927	5,689	17,812	2,440	1,753	33	3,771	31,344				
2003	1,597	3,862	38	3,900	1,354	5,254	18,627	2,846	2,459	42	4,807	33,131				
2004	1,306	4,102	25	4,127	1,483	5,610	19,402	3,106	1,971	40	4,280	33,704				
2005	1,256	4,096	9	4,105	1,878	5,983	20,554	3,156	2,287	40	5,684	36,633				
2006	1,761	3,905	14	3,919	1,417	5,336	21,100	3,418	2,496	48	6,435	38,050				
2007	1,764	3,992	7	3,999	913	4,912	22,553	3,581	2,103	48	6,716	39,526				
2008	1,540	4,067	6	4,073	720	4,793	24,984	3,867	2,250	59	7,203	42,387				
2009	1,543	3,872		3,872	843	4,715	26,819	3,811	1,451	62	7,688	44,576				
2010	1,185	3,960		3,960	990	4,950	31,484	4,026	1,331	58	7,644	49,289				
2011	1,758	4,349		4,349	1,643	5,992	32,116	3,822	1,351	52	6,987	50,675				
2012	1,868	4,109		4,109	643	4,752	35,916	4,083	1,273	47	7,455	54,074				

Table 1.1-4Y
Primary Commercial Energy Import (Net) (Physical Unit)

Year	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)					
				Gasoline	Diesel	J.P.&Kerosene	Fuel Oil	LPG		Others	Total	NG	LNG	Total	
1988	361,076	9,014	-5,433,155	375	3,763	545	286	270				438			
1989	455,031	11,849	-5,798,632	610	4,304	495	247	695				665			
1990	340,897	12,187	-6,078,577	643	5,576	524	1,777	519	-5			676			
1991	469,422	12,810	-6,833,180	786	5,144	580	2,665	191	-94			620			
1992	500,854	16,148	-5,843,959	953	4,271	679	3,175	-56	-551			500			
1993	935,759	18,794	-4,101,385	635	5,328	648	3,331	-6	-566			673			
1994	1,519,212	21,639	-6,682,085	594	4,715	515	3,499	131	-176			907			
1995	2,347,159	26,237	-5,161,711	379	5,729	178	3,701	-112	-368			725			
1996	3,905,824	36,844	-8,820,929	-885	4,063	-163	1,727	-218	-401			832			
1997	3,288,765	42,291	-8,602,987	-1,881	52	-231	231	-870	-187			773			
1998	1,632,980	39,446	-6,578,884	-1,691	-1,487	-261	462	-870	-510			1,637	791		791
1999	3,277,890	40,558	-4,711,795	-1,657	-891	-1,119	598	-1,346	-727			2,290	549		549
2000	4,183,196	37,420	-1,778,593	-1,073	-1,031	-1,205	-147	-1,240	2,076			2,988	60,247		60,247
2001	4,945,205	39,125	-1,396,547	-1,336	-1,324	-879	-1,504	-1,403	1,823			2,913	181,330		181,330
2002	5,598,838	39,589	-1,828,900	-1,006	-1,625	-1,188	-767	-1,270	1,784			2,844	225,429		225,429
2003	7,110,436	41,148	41	-969	-1,543	-625	-569	-1,426	1,523			2,506	250,548		250,548
2004	7,549,953	47,333	-110	-1,167	-1,668	-376	-325	-1,643	1,566			3,403	266,082		266,082
2005	8,568,291	44,227		-2,022	-1,090	-601	539	-1,755	1,196			4,389	313,190		313,190
2006	11,214,797	44,328	124	-1,922	-2,576	-1,017	-314	-1,067	1,017			5,197	317,705		317,705
2007	14,413,796	43,651	51	-1,417	-2,498	-443	-1,942	-514	511			4,510	331,002		331,002
2008	15,979,001	44,556		-1,478	-3,717	-1,407	-3,370	798	-320			2,812	303,246		303,246
2009	16,388,840	44,237		-1,337	-4,411	-1,618	-3,795	1,367	-1,121			2,483	293,548		293,548
2010	16,904,205	45,627		-1,342	-5,444	-1,827	-3,133	2,901	232			7,277	311,830		311,830
2011	16,331,105	44,204		-935	-4,649	-1,297	-3,151	2,631	491			10,810	303,402	35,719	339,121
2012	18,404,370	47,668		-1,265	-5,356	-781	-3,492	3,186	-595			10,555	300,622	47,452	348,075

Table 1.1-5Y
Primary Commercial Energy Import (Net)

Unit : KTOE

Year	Coal	Crude Oil	Condensate	Petroleum Products							Electricity	NG & LNG		Grand Total	
				Gasoline	Diesel	J.P.&Kerosene	Fuel Oil	LPG	Others	Total		NG	LNG		Total
1988	225	7,752	-676	280	3,244	446	269	170				37			11,747
1989	284	10,190	-722	454	3,710	405	233	438				57			15,049
1990	213	10,481	-756	479	4,806	429	1,673	327	-4			58			17,706
1991	293	11,016	-850	585	4,434	474	2,508	120	-70			53			18,563
1992	313	13,887	-727	710	3,682	555	2,989	-35	-411			43			21,006
1993	584	16,163	-510	473	4,593	530	3,135	-4	-421			57			24,600
1994	948	18,610	-832	442	4,064	421	3,293	83	-131			77			26,975
1995	1,465	22,564	-642	282	4,938	146	3,484	-70	-275			62			31,954
1996	2,438	31,686	-1,098	-659	3,502	-133	1,626	-137	-299			71			36,997
1997	2,053	36,370	-1,071	-1,401	45	-189	217	-548	-139			66			35,403
1998	1,019	33,923	-819	-1,260	-1,282	-214	435	-548	-380			140	19		31,033
1999	2,046	34,880	-586	-1,234	-768	-915	563	-848	-542			195	13		32,804
2000	2,611	32,181	-221	-800	-889	-985	-138	-782	1,547			255	1,480		34,259
2001	3,087	33,648	-174	-996	-1,142	-718	-1,415	-884	1,358			248	4,455		37,467
2002	3,495	34,046	-228	-750	-1,401	-971	-722	-800	1,330			242	5,539		39,780
2003	4,438	35,388		-722	-1,330	-511	-536	-899	1,135			214	6,156		43,333
2004	4,713	40,707		-869	-1,438	-307	-306	-1,035	1,167			290	6,538		49,460
2005	5,348	38,035		-1,506	-939	-491	508	-1,106	987			374	7,695		48,905
2006	7,000	38,122		-1,432	-2,220	-832	-295	-672	896			443	7,806		48,816
2007	8,997	37,540		-1,056	-2,154	-362	-1,828	-324	459			384	8,133		49,789
2008	9,974	38,318		-1,101	-3,204	-1,150	-3,172	503	-217			240	7,451		47,642
2009	10,230	38,044		-996	-3,802	-1,322	-3,572	861	-850			212	7,212		46,017
2010	10,551	39,239		-1,000	-4,693	-1,494	-2,949	1,828	173			620	7,662		49,937
2011	10,194	38,015		-696	-4,008	-1,060	-2,966	1,658	421			921	7,455	878	50,812
2012	11,488	40,995		-942	-4,617	-639	-3,287	2,007	-288			899	7,386	1,166	54,168

Remarks : LPG includes Propane and Butane

Table 1.1-6Y
Primary Commercial Energy Consumption (Physical Unit)

Year	Hydro / Import (GWh)	Lignite (Tons)					Total	NG&LNG (MMSCF)	Petroleum (Million Litres)	Imported Coal (Tons)
		EGAT		Others	Total					
		Mae-Moh	Krabi							
1988	4,156	5,681,773	213,978	5,895,751	1,316,064	7,211,815	211,641	16,302	361,076	
1989	6,177	6,545,092	219,112	6,764,205	1,799,380	8,563,585	211,399	19,409	455,031	
1990	5,576	9,619,613	255,710	9,875,323	2,600,686	12,476,010	230,261	22,957	340,987	
1991	5,125	11,504,708	219,982	11,724,690	2,934,444	14,659,135	285,599	24,379	469,513	
1992	4,659	12,129,274	241,265	12,370,539	3,193,113	15,563,652	304,356	26,856	500,946	
1993	4,285	11,239,942	249,845	11,489,787	4,222,965	15,712,752	342,762	30,202	935,759	
1994	5,311	11,908,173	247,711	12,155,884	4,897,708	17,053,592	378,779	33,523	1,519,212	
1995	7,318	13,374,488	193,005	13,567,493	4,939,136	18,506,629	401,221	37,660	2,347,159	
1996	8,047	16,405,340		16,405,340	4,688,467	21,093,807	463,555	40,793	3,905,842	
1997	7,855	18,010,806		18,010,806	5,235,658	23,246,464	570,777	40,600	3,288,780	
1998	6,726	15,388,095		15,388,095	5,029,499	20,417,594	620,381	36,521	1,632,970	
1999	5,700	13,893,584		13,893,584	4,610,512	18,504,096	679,318	36,585	3,277,940	
2000	8,879	14,120,569		14,120,569	3,722,528	17,843,097	773,183	35,027	4,183,209	
2001	9,087	15,744,116		15,744,116	3,753,746	19,497,862	874,564	34,150	4,945,198	
2002	10,211	15,035,329		15,035,329	4,503,816	19,539,145	950,087	35,908	5,598,850	
2003	9,713	15,406,532		15,406,532	2,753,088	18,159,620	1,008,373	37,949	7,110,439	
2004	9,300	16,536,694		16,536,694	4,006,700	20,543,394	1,055,404	41,650	7,549,950	
2005	10,060	16,571,091		16,571,091	4,475,747	21,046,838	1,149,371	41,725	8,567,691	
2006	13,147	15,815,374		15,815,374	3,036,745	18,852,119	1,176,088	41,051	11,214,800	
2007	12,471	15,811,050		15,811,050	2,159,379	17,970,429	1,248,521	41,031	14,413,800	
2008	9,763	16,407,465		16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,979,000	
2009	9,448	15,818,265		15,818,265	2,042,529	17,860,794	1,384,714	40,065	16,387,662	
2010	12,624	16,004,196		16,004,196	2,017,685	18,021,881	1,592,846	40,827	16,904,203	
2011	18,745	17,161,168		17,161,168	2,856,989	20,018,157	1,645,841	42,248	16,331,105	
2012	18,986	16,754,281		16,754,281	1,611,596	18,365,877	1,809,436	44,669	18,404,375	

Table 1.1-7Y
Primary Commercial Energy Consumption

Unit : KTOE

Year	Hydro / Import Electricity	Lignite				NG&LNG	Petroleum	Imported Coal	Total
		EGAT		Others	Total				
		Mae-Moh	Krabi						
1988	861	1,407	55	1,462	628	2,090	13,515	225	21,891
1989	1,278	1,621	56	1,677	858	2,535	16,166	284	25,457
1990	1,144	2,383	66	2,449	1,241	3,690	19,265	213	29,970
1991	1,051	2,850	57	2,907	1,400	4,307	20,501	293	33,169
1992	964	3,004	62	3,066	1,523	4,589	22,615	313	35,959
1993	857	2,784	64	2,848	2,014	4,862	25,446	584	40,171
1994	1,053	2,950	64	3,014	2,336	5,350	28,253	948	44,911
1995	1,523	3,313	50	3,363	2,356	5,719	31,736	1,465	50,301
1996	1,669	4,064		4,064	2,236	6,300	34,290	2,438	56,087
1997	1,635	4,461		4,461	2,497	6,958	34,003	2,053	58,673
1998	1,267	3,812		3,812	2,399	6,211	30,482	1,019	54,222
1999	950	3,441		3,441	2,199	5,640	30,502	2,046	55,829
2000	1,560	3,498		3,498	1,776	5,274	28,967	2,611	57,409
2001	1,616	3,900		3,900	1,791	5,691	27,964	3,087	59,846
2002	1,874	3,724		3,724	2,148	5,872	29,403	3,495	63,988
2003	1,811	3,816		3,816	1,313	5,129	31,123	4,438	67,277
2004	1,596	4,096		4,096	1,911	6,007	34,361	4,713	72,608
2005	1,630	4,105		4,105	2,135	6,240	34,407	5,348	75,865
2006	2,204	3,917		3,917	1,449	5,366	33,627	7,000	77,093
2007	2,148	3,916		3,916	1,030	4,946	33,277	8,997	80,044
2008	1,780	4,064		4,064	1,013	5,077	31,714	9,974	80,971
2009	1,755	3,918		3,918	974	4,892	32,075	10,229	82,973
2010	1,805	3,964		3,964	962	4,926	32,563	10,551	88,981
2011	2,679	4,251		4,251	1,363	5,614	33,631	10,194	92,556
2012	2,767	4,150		4,150	769	4,919	35,492	11,488	99,124

Table 1.2-1Y
Final Modern Energy Consumption (Physical Unit)

Year	Solid Fossil Fuel (Thousand Tons)		Petroleum Products (Million Litres)								Electricity (GWh)*		NG in Industry (MMSCF)		
	Coal**	Lignite**	Coal**	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Electricity (GWh)*	Energy	Others	Total
			Total												
1988	361	1,316	1,677	1,401	1,299	1,623	1,832	126	7,280	1,905	15,466	28,110	3,306		3,306
1989	455	1,799	2,254	1,571	1,526	1,796	2,112	119	8,632	2,439	18,196	32,749	3,512	930	4,442
1990	341	2,601	2,942	1,716	1,746	1,941	2,292	123	9,765	2,679	20,262	38,174	5,551	4,990	10,541
1991	470	2,804	3,273	1,845	1,885	2,005	2,468	111	9,889	2,950	21,153	44,204	7,685	6,063	13,748
1992	501	3,141	3,641	2,059	2,217	2,118	2,724	112	10,282	3,553	23,065	49,290	11,873	6,263	18,135
1993	936	4,223	5,159	2,224	2,748	2,164	2,899	107	11,746	3,705	25,592	55,184	14,543	6,101	20,644
1994	1,519	4,898	6,417	2,404	3,419	2,173	3,134	114	12,814	4,202	28,259	62,483	19,211	5,189	24,400
1995	2,335	4,939	7,275	2,629	4,087	2,206	3,295	101	14,863	4,464	31,645	70,532	26,093	6,610	32,703
1996	3,840	4,688	8,528	2,902	4,842	2,076	3,393	98	16,507	4,585	34,404	78,282	28,057	6,670	34,727
1997	3,197	5,236	8,432	2,985	5,382	1,973	3,543	86	16,807	4,429	35,205	83,211	34,886	7,742	42,628
1998	1,528	5,030	6,558	2,757	4,969	2,199	3,315	55	14,979	3,688	31,962	82,435	33,514	6,303	39,817
1999	2,205	4,611	6,816	2,983	4,685	2,340	3,298	52	15,160	4,169	32,688	83,685	44,002	8,180	52,182
2000	2,053	3,723	5,776	3,375	3,427	3,335	3,494	49	14,945	4,009	32,634	90,257	66,281	7,704	73,985
2001	2,603	3,754	6,357	3,728	3,001	3,856	3,717	57	15,151	3,917	33,427	95,870	68,782		68,782
2002	3,197	4,504	7,700	3,882	2,985	4,341	3,778	62	16,036	4,283	35,366	103,248	76,205		76,205
2003	4,885	2,753	7,638	3,975	3,085	4,550	3,761	36	17,528	4,386	37,321	110,245	82,732		82,732
2004	5,356	4,007	9,363	4,035	3,029	4,631	4,242	23	19,569	4,768	40,298	119,304	98,784		98,784
2005	6,495	4,476	10,971	4,364	2,886	4,362	4,293	21	19,545	4,354	39,825	125,770	99,772		99,772
2006	7,265	3,037	10,302	5,074	2,656	4,559	4,519	20	18,350	3,956	39,134	131,428	107,803		107,803
2007	8,665	2,159	10,825	5,812	2,625	4,712	4,932	18	18,702	3,441	40,242	137,320	135,136		135,136
2008	10,072	2,124	12,196	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	139,978	162,535		162,535
2009	10,778	2,043	12,821	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	139,292	197,533		197,533
2010	11,289	2,018	13,307	7,587	2,908	4,509	4,712	15	18,468	2,475	40,674	153,884	234,578		234,578
2011	10,196	2,857	13,053	8,178	2,394	4,937	5,077	13	19,181	2,142	41,921	153,332	295,160		295,160
2012	10,625	1,612	12,237	8,930	2,376	5,329	5,091	13	20,546	2,044	44,329	164,276	343,669		343,669

* Including Power Generation from SPP

** Preliminary data

*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 1.2-2Y
Final Modern Energy Consumption

Unit : KTOE

Year	Solid Fossil Fuel		Petroleum Products							Electricity*		NG in Industry			Total
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Energy	Others	Total	
1988	225	628	853	883	968	1,210	1,497	103	6,275	1,793	12,729	2,395	81	81	16,058
1989	284	858	1,142	990	1,137	1,338	1,727	97	7,441	2,296	15,026	2,791	86	23	19,068
1990	213	1,241	1,454	1,082	1,301	1,446	1,874	101	8,417	2,521	16,742	3,253	136	123	21,708
1991	293	1,337	1,630	1,163	1,405	1,494	2,017	91	8,524	2,777	17,471	3,767	189	149	23,206
1992	313	1,498	1,811	1,297	1,652	1,578	2,227	92	8,863	3,344	19,053	4,200	292	154	25,510
1993	584	2,014	2,598	1,401	2,047	1,612	2,369	88	10,124	3,487	21,128	4,702	357	150	28,935
1994	948	2,336	3,284	1,515	2,547	1,619	2,562	93	11,046	3,955	23,337	5,324	472	127	32,544
1995	1,458	2,356	3,814	1,656	3,045	1,644	2,693	82	12,812	4,202	26,134	6,010	641	162	36,761
1996	2,397	2,236	4,633	1,829	3,608	1,547	2,773	80	14,229	4,315	28,381	6,670	689	164	40,537
1997	1,995	2,497	4,492	1,881	4,010	1,470	2,896	70	14,487	4,169	28,983	7,090	857	190	41,612
1998	954	2,399	3,353	1,737	3,702	1,639	2,709	45	12,912	3,471	26,215	7,024	823	155	37,570
1999	1,376	2,199	3,575	1,880	3,491	1,744	2,696	42	13,068	3,924	26,845	7,131	1,081	201	38,833
2000	1,282	1,776	3,058	2,127	2,553	2,484	2,856	40	12,882	3,774	26,716	7,691	1,629	189	39,283
2001	1,625	1,791	3,416	2,349	2,236	2,873	3,039	46	13,060	3,687	27,290	8,169	1,690	1,690	40,565
2002	1,995	2,148	4,143	2,446	2,224	3,235	3,088	51	13,822	4,032	28,898	8,798	1,872	1,872	43,711
2003	3,049	1,313	4,362	2,505	2,298	3,390	3,074	29	15,109	4,128	30,533	9,394	2,033	2,033	46,322
2004	3,343	1,911	5,254	2,543	2,257	3,451	3,467	19	16,868	4,488	33,093	10,166	2,427	2,427	50,940
2005	4,054	2,135	6,189	2,750	2,150	3,250	3,509	17	16,847	4,098	32,621	10,717	2,451	2,451	51,978
2006	4,535	1,449	5,984	3,198	1,979	3,397	3,693	16	15,817	3,723	31,823	11,199	2,649	2,649	51,655
2007	5,409	1,030	6,439	3,663	1,956	3,510	4,031	15	16,120	3,239	32,534	11,701	3,320	3,320	53,994
2008	6,287	1,013	7,300	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,928	3,993	3,993	54,692
2009	6,728	974	7,702	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,869	4,853	4,853	56,383
2010	7,047	962	8,009	4,781	2,166	3,360	3,851	12	15,919	2,330	32,419	13,112	5,764	5,764	59,304
2011	6,364	1,363	7,727	5,153	1,784	3,678	4,150	11	16,534	2,016	33,326	13,065	7,252	7,252	61,370
2012	6,632	769	7,401	5,627	1,770	3,970	4,162	11	17,710	1,924	35,174	13,998	8,444	8,444	65,017

* Including Power Generation from SPP

** Preliminary data

*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries

**Table 1.3-1
Energy Reserves
31 December 2012**

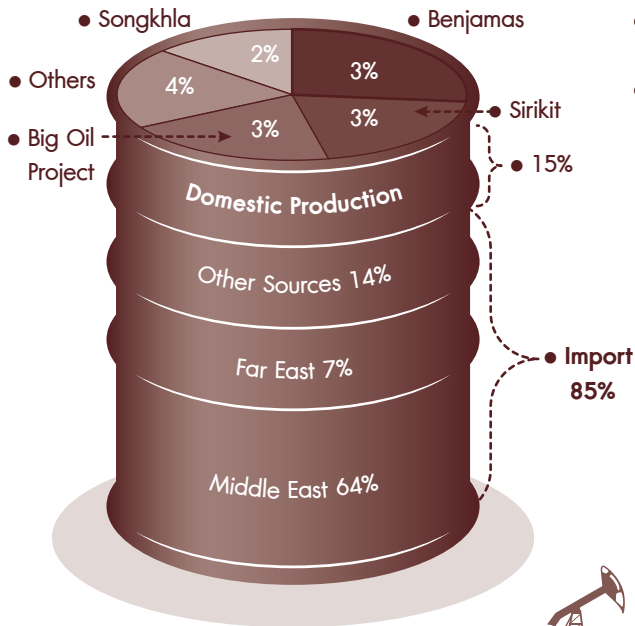
Energy Type (Original Unit)	Reserves*			Production 2012	Available for Use (Year)		
	P1	P1+P2	P1+P2+P3		P1	P1+P2	P1+P2+P3
Petroleum							
- Crude Oil (MMBBL)	232	653	930	55	4	12	17
- Condensate (MMBBL)	217	501	600	33	7	15	18
- Natural Gas (BCF)	9,039	18,612	23,283	1,462	6	13	16
Lignite (M. Tons)	1,181	2,007	2,007	18	65	111	111
Energy Type (KTOE)	Reserves*			Production 2012	Available for Use (Year)		
P1	P1+P2	P1+P2+P3	P1		P1+P2	P1+P2+P3	
Petroleum							
- Crude Oil	280,785	608,851	773,921	47,454			
- Condensate	31,724	89,247	127,159	7,455	4	12	17
- Natural Gas	26,975	62,304	74,688	4,083	7	15	18
Lignite	222,086	457,300	572,074	35,916	6	13	16
Total	339,752	577,222	577,222	5,197	65	111	111
	620,537	1,186,073	1,351,143	52,651			
Energy Type (MMBBL Crude Oil Equivalent)	Reserves*			Production 2012	Available for Use (Year)		
P1	P1+P2	P1+P2+P3	P1		P1+P2	P1+P2+P3	
Petroleum							
- Crude Oil	2,054	4,453	5,660	347			
- Condensate	232	653	930	55	4	12	17
- Natural Gas	197	456	546	30	7	15	18
Lignite	1,624	3,345	4,184	263	6	13	16
Total	2,485	4,222	4,222	38	65	111	111
	4,538	8,674	9,882	385			

Remark : P1 = Proved Reserves, P2 = Probable Reserves, P3 = Possible Reserves

Source : *Department of Mineral Fuels (DMF)

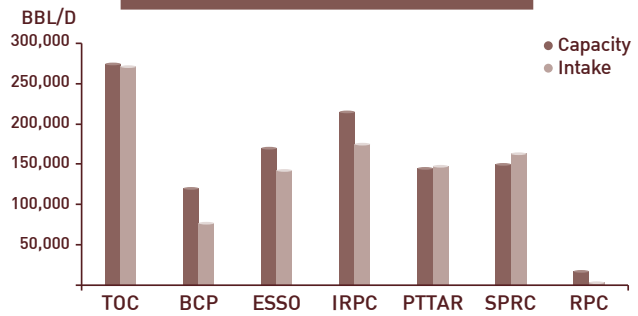
Oil

Crude Oil Supply 2012

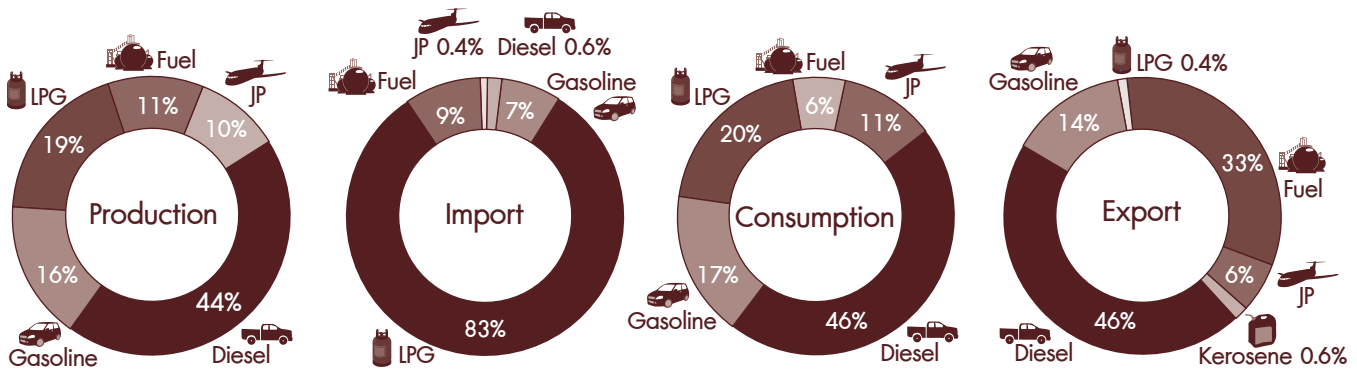


- Big Oil Project : Plathong, Plamuke, Kapong, Surat and Yala
- Middle East : United Arab Emirates, Saudi Arabia, Oman, Qatar and Others
- Far East : Malaysia, Indonesia, Brunei and Others

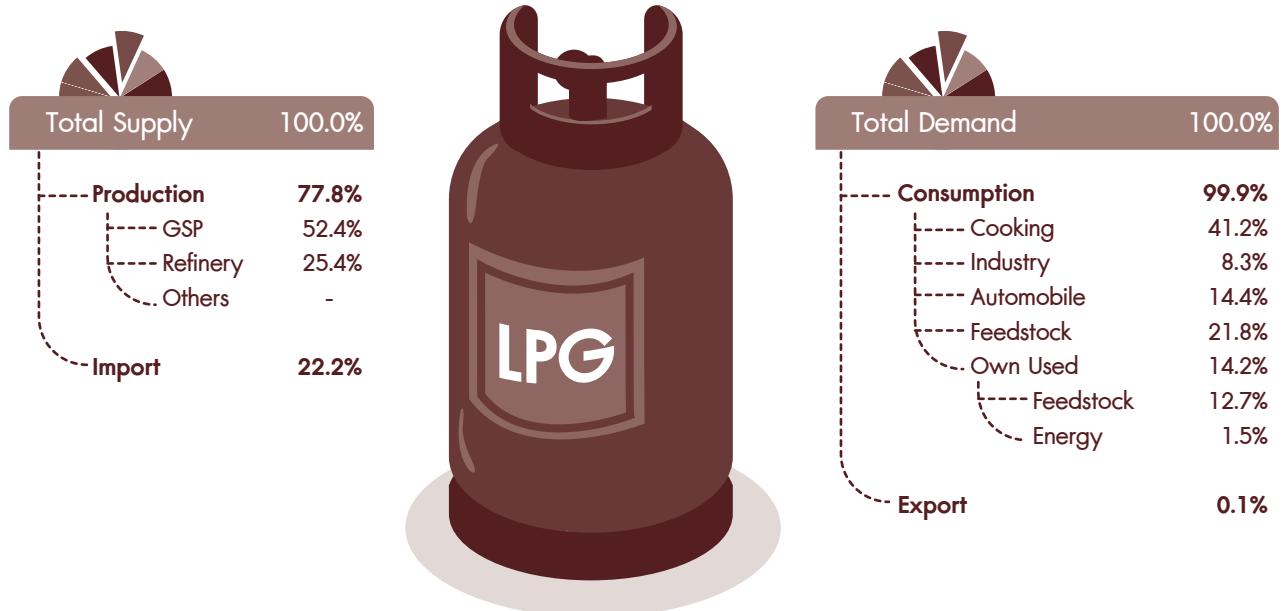
Refinery Utilization Ratio 2012



Share of Petroleum Products 2012



Supply and Demand of LPG, Propane and Butane 2012





CHAPTER
บทที่

2

Oil
น้ำมัน

บทที่ 2 น้ำมัน

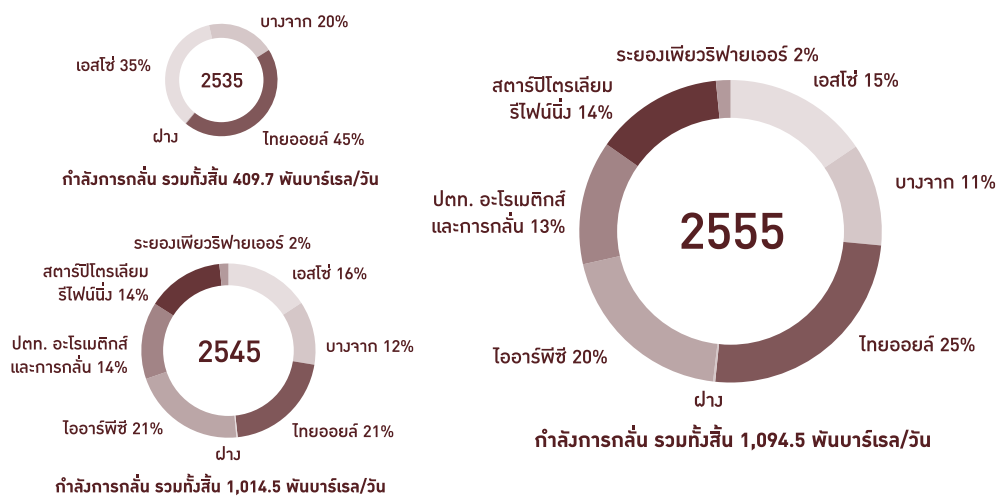


การผลิตน้ำมันดิบ ในปี 2555 มีปริมาณการผลิตน้ำมันดิบในประเทศรวมทั้งสิ้น 148,977 บาร์เรลต่อวัน โดยแหล่งน้ำมันดิบที่สำคัญของไทย ได้แก่ แหล่งเบญจมาศ สิริกิติ์ ทานตะวัน จัสมิน และบิกออย์โปรเจ็คของบริษัทยูโนแคล ประเทศไทย จำกัด

การนำเข้าและส่งออกน้ำมันดิบ การนำเข้าส่วนใหญ่มาจากกลุ่มประเทศตะวันออกกลาง ร้อยละ 75 กลุ่มประเทศตะวันออกไกล ร้อยละ 8 และแหล่งอื่น ๆ ร้อยละ 17 ในขณะที่ประเทศไทยก็มีการส่งออกน้ำมันดิบไปยังต่างประเทศเช่นกัน อาทิ เกาหลี สหรัฐอเมริกา และสิงคโปร์

การกลั่นน้ำมัน ในปี 2555 ประเทศไทยมีโรงกลั่นน้ำมันจำนวนทั้งสิ้น 8 โรง ประกอบด้วย บริษัทเอสโซ่ ประเทศไทย จำกัด (มหาชน) บริษัทบางจากปิโตรเลียม จำกัด (มหาชน) บริษัทไทยออยล์ จำกัด (มหาชน) บริษัท ปตท. อะโรเมติกส์และการกลั่น จำกัด (มหาชน) บริษัทสตาร์ปิโตรเลียม รีไฟน์นิ่ง จำกัด บริษัทไออาร์พีซี จำกัด (มหาชน) บริษัทระยองเพียวริฟายเออร์ จำกัด (มหาชน) และโรงกลั่นน้ำมันฝาง โดยมีกำลังการกลั่นรวมทั้งสิ้น 1,094,500 บาร์เรลต่อวัน

กำลังการกลั่นน้ำมันของประเทศไทย ปี 2535 ปี 2545 และปี 2555



Chapter 2

Oil

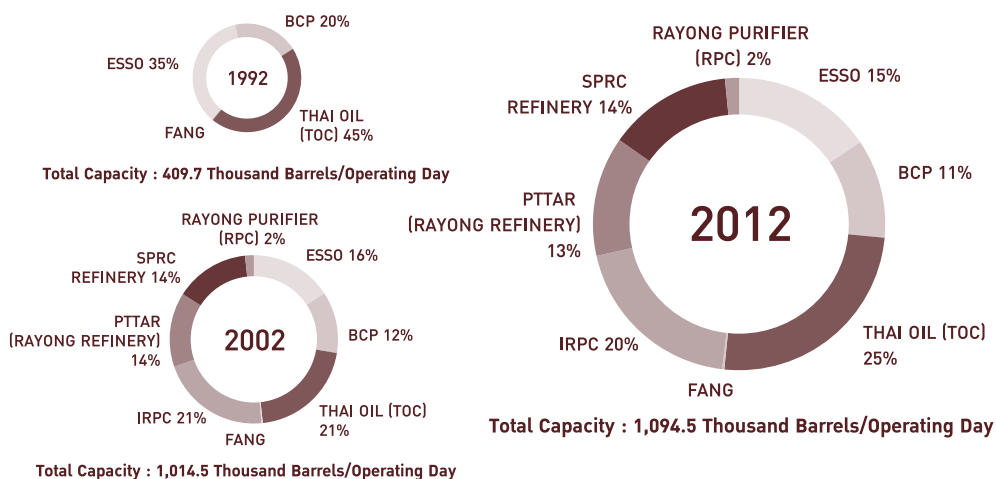
Crude Oil Production. The accumulated domestic oil production in 2012 totaled 148,977 barrels per day (BBL/D). Major crude oil fields in Thailand comprise Benjamas, Sirikit, Tantawan, Jasmin and Big Oil Project of Unocal (Thailand) Co., Ltd.

Crude Oil Import and Export. Most of the imports were from the Middle East, holding a share of 75%; the remainder was from the Far East, accounting for 8%, and from other sources, 17%. Concurrently, Thailand also exported crude oil to such countries as Korea, the USA and Singapore.

Oil Refining. As of 2012, there are eight oil refineries in Thailand, with a total refining capacity of 1,094,500 BBL/D, comprising:

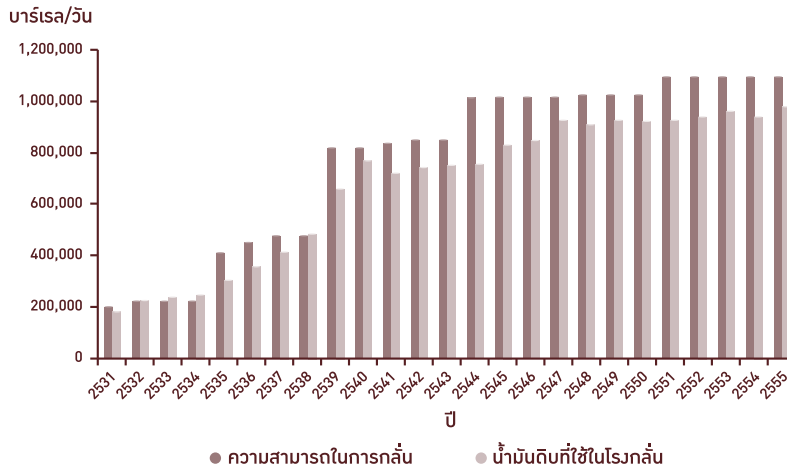
- | | |
|--|--|
| 1) ESSO Thailand Co., Ltd. | 2) Bangchak Petroleum Public Co., Ltd. |
| 3) Thai Oil Public Co., Ltd. | 4) PTT Aromatics and Refining Public Co., Ltd. |
| 5) Star Petroleum Refining Co., Ltd. | 6) IRPC Public Co., Ltd. |
| 7) Rayong Purifier Public Co., Ltd., and | 8) Fang Oil Refinery. |

Thailand's Refining Capacity in 1992, 2002 and 2012



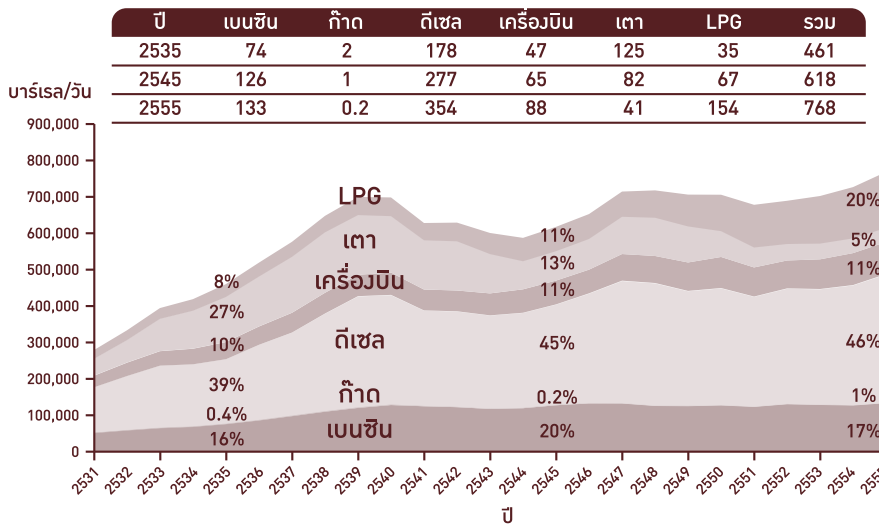
การใช้น้ำมันดิบเพื่อการกลั่นในปี 2555 อยู่ที่ระดับ 976,745 บาร์เรลต่อวัน คิดเป็นสัดส่วนร้อยละ 89 ของความสามารถในการกลั่นของประเทศ

การใช้กำลังการกลั่นของไทย



การผลิตและการใช้น้ำมันสำเร็จรูป ในปี 2555 การผลิตน้ำมันสำเร็จรูปอยู่ที่ระดับ 992 พันบาร์เรลต่อวัน ในขณะที่การใช้น้ำมันสำเร็จรูปอยู่ที่ระดับ 768 พันบาร์เรลต่อวัน โดยการใช้ น้ำมันดีเซลมีสัดส่วนมากที่สุดคือร้อยละ 46 รองลงมาเป็นก๊าซปิโตรเลียมเหลว (LPG) ร้อยละ 20 น้ำมันเบนซิน ร้อยละ 17 น้ำมันเครื่องบิน ร้อยละ 11 น้ำมันเตา ร้อยละ 5 และน้ำมันก๊าด ร้อยละ 1

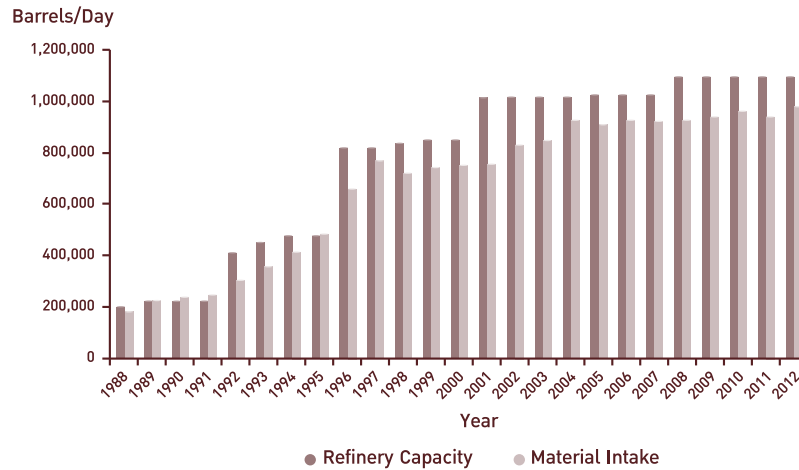
การใช้น้ำมันสำเร็จรูป



การนำเข้าและส่งออกน้ำมันสำเร็จรูป ในปี 2555 มีการส่งออก 199 พันบาร์เรลต่อวัน โดยน้ำมันดีเซลมีสัดส่วนการส่งออกมากที่สุด ร้อยละ 46 ของการส่งออกน้ำมันสำเร็จรูปทั้งหมด ในขณะที่การนำเข้าน้ำมันสำเร็จรูปมีปริมาณเพียง 67 พันบาร์เรลต่อวัน ทั้งนี้ปริมาณ LPG มีสัดส่วนการนำเข้ามากที่สุดถึงร้อยละ 82 ของการนำเข้าน้ำมันสำเร็จรูปทั้งหมด

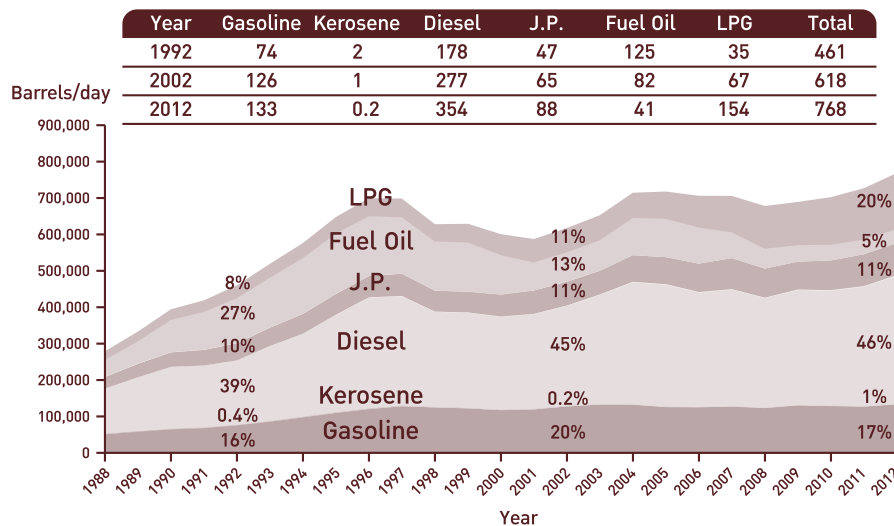
The refinery intake of crude oil in 2012 was at a volume of 976,745 BBL/D, accounting for 89% of the total domestic refining capacity.

Refinery Utilization Ratio



Production and Consumption of Petroleum Products. In 2012, the production of petroleum products was at a volume of 992 KBD while the consumption was at 768 KBD. Diesel consumption accounted for the largest share of 46%; others comprised liquefied petroleum gas (LPG), 20%; gasoline, 17%; jet petroleum, 11%; fuel oil, 5%; and kerosene, 1%.

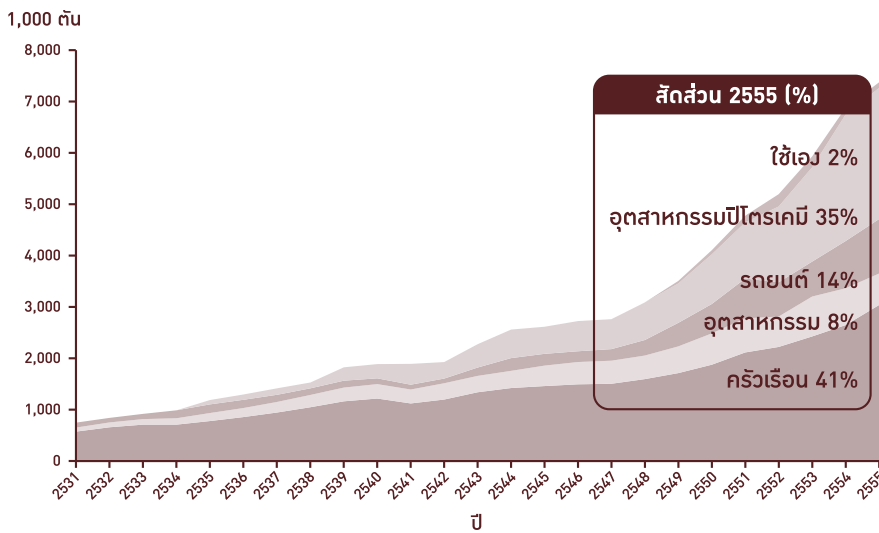
Petroleum Product Consumption



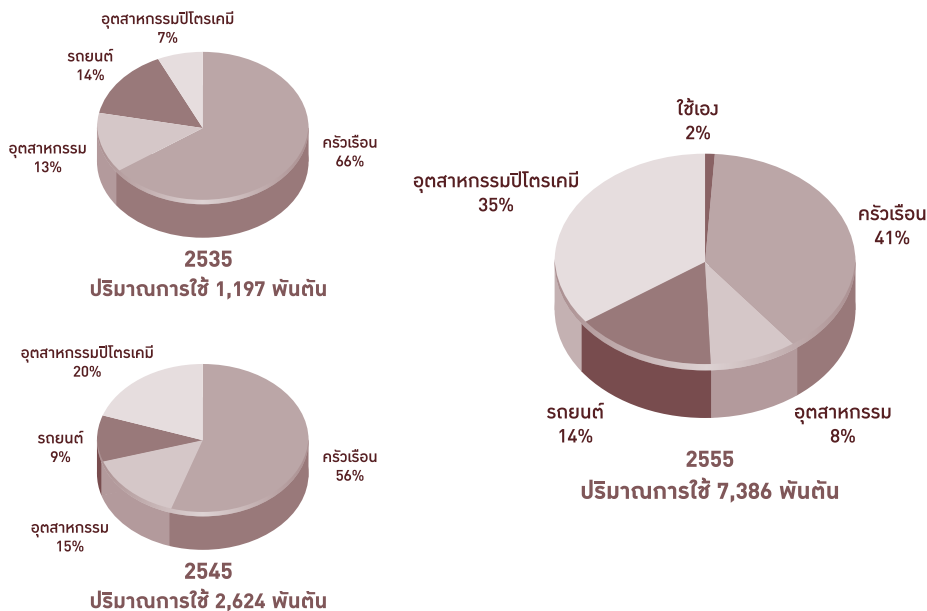
Import and Export of Petroleum Products. In 2012, the export volume of petroleum products was 199 KBD, with diesel accounting for the largest share, i.e. 46%, of the total export; while the petroleum product import volume was only 67 KBD, with LPG accounting for the largest share of 82% of the total import.

การใช้ LPG โพรเพน และบิวเทน ในปี 2555 สาขาครัวเรือนมีสัดส่วนการใช้ LPG โพรเพน และบิวเทน มากที่สุด คิดเป็นสัดส่วนร้อยละ 41 ในขณะที่การใช้สาขาอุตสาหกรรมปิโตรเคมีและสาขาขนส่งมีสัดส่วนอยู่ที่ร้อยละ 35 และร้อยละ 14 ตามลำดับ สัดส่วนที่เหลือเป็นการใช้ในสาขาอุตสาหกรรมและใช้เองอยู่ที่ร้อยละ 8 และร้อยละ 2 ตามลำดับ

การใช้ LPG โพรเพน และบิวเทน รายสาขา



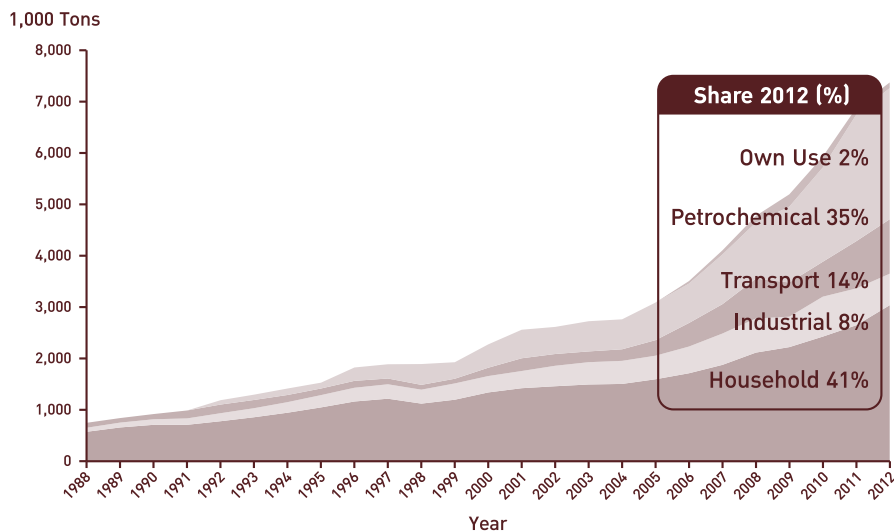
การใช้ LPG โพรเพน และบิวเทน รายสาขาในปี 2535 ปี 2545 และปี 2555



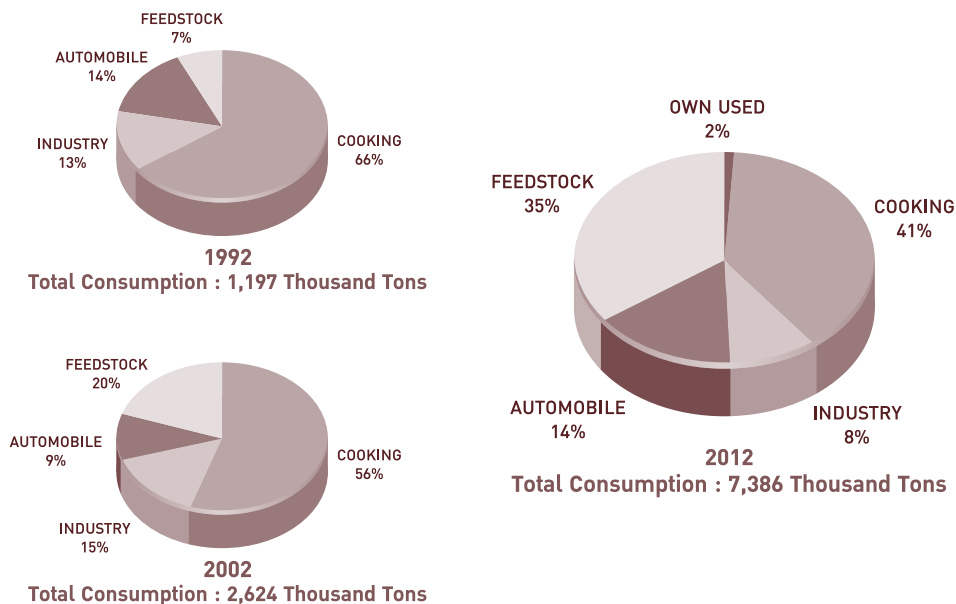
การนำเข้าและส่งออก LPG ในปี 2555 มีการนำเข้าในรูปแบบของ LPG โพรเพน และบิวเทน อยู่ที่ระดับ 1,730 พันตัน เพิ่มขึ้นจากปีก่อนร้อยละ 20.4 และมีการส่งออกอยู่ที่ระดับ 10 พันตัน ลดลงจากปีก่อนร้อยละ 38.4 โดยส่วนใหญ่ส่งออกไปประเทศเพื่อนบ้าน ได้แก่ กัมพูชา มาเลเซีย และลาว

LPG, Propane and Butane Consumption. In 2012, the share of LPG, propane and butane consumption in the household sector was 41%, decreasing from the consumption share of this sector in the previous year, while that in the petrochemical and transport sectors increased to 35% and 14% respectively. The industrial sector and own (on-site) use accounted for the remaining share of 8% and 2% respectively.

LPG, Propane and Butane Consumption by Sector



LPG, Propane and Butane Consumption by Sector in 1992, 2002, 2012



LPG Import and Export. In 2012, the LPG import was only under propane and butane, accounted for 1,730 thousand tons or increasing 20.4%, compared to the previous year. The export of it was at 10 thousand tons, a decrease of 38.4% year on year. Most of LPG exports went to Thailand's neighboring countries i.e. Cambodia, Malaysia and Laos.

Table 2.1.1-1Y
Production of Crude Oil

Unit : Barrels/Day

Year	Bung Ya & Muang	Chaba	Fang	Bualuang	Songkhla	Neung & Sawng	Unocal	Sirikit	Wichian Buri	Nasanun	Tan Tawan	Jusmin	Nang-Nual	Banyen	Benjamas	Others	Total
1988								17,892					1,289				19,181
1989		1,153						20,197									21,351
1990		1,209						22,759									23,968
1991	111	1,233			398			22,762									24,503
1992	188	1,336			1,293			23,500									26,317
1993	158	1,285			1,186			22,065					246				24,940
1994	229	1,454			957			22,245					1,669				26,553
1995	196	1,409			1,285			17,631	143				3,077			21	23,763
1996	434	1,290			956			18,701	273				4,696			69	26,419
1997	518	1,324			812			17,672	198		5,374		1,485			81	27,463
1998	509	1,030			638			20,658	221		6,213					149	29,420
1999	570	996			546			23,384	140		5,056		4,696		3,223	91	34,006
2000	635	878			548			23,483	200		7,454		1,485		24,354	385	57,937
2001	902	658			597		1,149	21,212	180		7,938				28,906	372	61,914
2002	803	661			463		11,634	20,591	159		5,649				35,132	476	75,567
2003	733	847			436		20,231	19,127	223		5,193				49,275	258	96,322
2004	856	796			390		22,021	17,050	172		4,503				39,378	350	85,516
2005	1,098	800			354		29,794	17,129	150		6,650		1,912		45,819	4,415	113,890
2006	1,050	970			370		38,679	18,775	96		8,296		684		50,004	1,377	128,950
2007	1,460	971			344		39,215	20,511	309	1,202	7,703		504		42,132	945	134,563
2008	1,674	1,178		3,324	287		35,559	20,942	174	8,222	6,505			1,445	44,960	1,046	143,935
2009	1,539	3,862		8,916	5,063		33,766	21,324	121	8,346	6,196			6,596	29,067	14,074	154,041
2010	1,486	3,739		8,327	7,926		36,998	21,808	105	6,689	3,860			3,891	26,665	16,397	153,174
2011	1,163	2,167		7,641	9,787		30,643	22,974	118	2,474	5,428			4,620	27,077	11,855	139,991
2012	1,210	1,699		7,200	19,883		28,281	28,423	128	1,375	3,748			3,685	25,439	16,302	148,977

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2Y
Production of Condensate

Unit : Barrels/Day

Year	Pailin	Erawan	Bannpot	Satun	South Satun	Platong & Kapong	Phuhoim	Funan & Jakrawan	Bongkot	Gomin	Arthit	Trat	Others	Total
1988		6,257	2,296	5,436		3,930								17,919
1989		7,325	1,863	5,409		3,199							646	18,441
1990		7,885	1,172	5,506	541	1,526							2,640	19,270
1991		9,691	599	6,152	1,765	1,667							1,881	21,753
1992		8,476	362	6,990	1,436	1,589		6,571					1,106	26,530
1993		9,271	389	6,465	1,485	1,729		7,296	1,557				586	28,778
1994		8,978	565	7,245	403	1,988		6,381	3,410				1,644	30,615
1995		9,152	176	6,922	703	2,718		5,480	4,150	261			402	29,964
1996		7,999	385	6,944	1,085	2,879		4,843	7,803	3,349			353	35,639
1997		9,529	865	7,261	1,689	5,816		6,748	10,103	2,499			288	44,800
1998		9,601	566	7,420	1,881	5,436		7,438	10,830	1,026			2,142	46,341
1999	3,261	9,936	553	6,409	2,036	3,496		6,610	13,581	789		824	2,136	49,631
2000	9,207	8,569	359	4,607	1,571	3,302		6,307	13,393	1,410		2,198	1,297	52,220
2001	8,272	8,928	233	3,823	1,288	1,965		6,926	16,208	607		2,589	1,008	51,847
2002	11,330	9,029	393	3,353	850	690		8,260	16,111	647		2,306	756	53,724
2003	16,975	12,070	237	3,226	864	111		5,568	15,729	4,798		2,473	612	62,663
2004	19,003	11,726	1,358	3,917	482			6,683	17,665	4,505		2,047	818	68,204
2005	21,620	11,599	1,779	3,586	566			6,247	17,839	4,022		1,984	245	69,487
2006	25,269	11,101	3,414	2,497	692		32	8,302	17,685	1,219		4,928	111	75,250
2007	25,276	11,291	3,829	3,931	459		464	11,746	17,869	550		3,111	319	78,845
2008	23,268	10,594	2,645	4,136	355	302	458	10,240	18,505	800		969	11	84,893
2009	22,106	12,496	1,759	2,937	380		409	6,591	18,300	753		647	2	83,900
2010	22,435	11,180	3,789	2,730	170		428	6,733	19,568	2,519		1,567		88,627
2011	18,048	10,531	2,886	2,625	132	1,536	380	5,508	20,556	4,372		1,208	543	84,136
2012	11,861	9,025	2,344	3,901	138	6,705	435	7,842	27,359	3,453		1,422	4,606	89,639

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-1Y
Import of Crude Oil Classified by Sources

Unit : Million Litres

Year	Middle East	Far East	Others	Total
1988	5,690	3,020	304	9,014
1989	8,264	3,358	228	11,849
1990	7,726	4,357	104	12,187
1991	7,375	5,220	214	12,810
1992	9,468	5,789	891	16,148
1993	10,822	7,435	537	18,794
1994	13,190	8,035	415	21,639
1995	16,605	8,951	681	26,237
1996	26,534	9,669	642	36,844
1997	32,597	8,226	1,468	42,291
1998	33,307	5,717	421	39,446
1999	32,281	6,309	1,969	40,558
2000	28,980	8,086	2,104	39,170
2001	32,011	7,320	2,011	41,342
2002	31,453	7,957	2,867	42,278
2003	35,482	8,153	1,390	45,025
2004	40,966	7,278	2,378	50,621
2005	38,233	6,409	3,391	48,033
2006	38,912	5,724	3,489	48,125
2007	36,747	4,222	5,703	46,671
2008	39,145	3,344	4,736	47,225
2009	36,601	6,025	3,995	46,620
2010	34,397	4,250	8,718	47,365
2011	35,725	3,716	6,648	46,090
2012	37,460	4,022	8,575	50,056

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-2Y
Quantity and Value of Petroleum Products Import

Description	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Crude Oil												
-Value (M. Baht)	21,413.9	32,592.6	42,792.3	39,854.6	48,644.4	51,024.4	55,362.6	72,121.9	121,936.8	166,545.2	137,100.4	169,633.0
-Quantity (M. Litres)	9,014.1	11,849.2	12,186.7	12,809.8	16,147.9	18,794.0	21,639.1	26,236.8	36,844.4	42,290.8	39,445.6	40,557.9
-Quantity (BBL/D)	154,906.0	204,186.0	210,001.0	220,739.0	277,502.0	323,859.0	372,886.0	452,115.0	633,170.0	728,758.0	679,729.0	698,896.0
-Value(M.US\$)	844.5	1,263.3	1,673.3	1,560.0	1,910.8	2,013.1	2,199.0	2,889.9	4,798.3	5,312.2	3,277.2	4,442.9
-Price (\$/BBL)	14.9	17.0	21.8	19.4	18.8	17.0	16.2	17.5	20.7	20.0	13.2	17.4
2. Petroleum Products												
-Value (M. Baht)	15,638.8	22,329.4	38,170.7	37,910.3	32,295.0	35,032.1	29,449.4	33,148.4	32,620.4	12,960.8	5,189.6	9,727.8
-Quantity (M. Litres)	5,239.7	6,360.3	9,063.2	9,400.9	9,217.3	10,408.5	9,826.5	10,483.0	8,445.9	3,083.5	1,406.9	2,069.5
-Quantity (BBL/D)	90,043.0	109,600.0	156,178.0	161,998.0	158,399.0	179,359.0	169,330.0	180,644.0	145,143.0	53,134.0	24,243.0	35,661.0
-Value(M.US\$)	617.6	866.9	1,489.9	1,484.9	1,267.2	1,380.6	1,168.8	1,328.8	1,285.9	451.6	127.7	254.7
-Price (\$/BBL)	18.7	21.7	26.1	25.1	21.9	21.1	18.9	20.2	24.2	23.3	14.4	19.6
3. Others												
-Value (M. Baht)	568.1	790.9	892.9	1,129.1	1,162.5	2,221.8	3,389.4	4,054.5	4,480.4	7,811.2	5,348.3	5,394.1
-Quantity (M. Litres)	87.2	87.6	108.8	127.2	161.4	357.5	651.4	733.1	747.0	1,382.6	921.1	1,148.4
-Quantity (BBL/D)	1,499.0	1,510.0	1,874.0	2,192.0	2,773.0	6,160.0	11,225.0	12,633.0	12,838.0	23,825.0	15,873.0	19,789.0
-Value(M.US\$)	22.3	30.7	34.8	44.2	45.7	87.6	134.6	162.4	176.5	258.1	129.4	141.4
-Price (\$/BBL)	40.7	55.8	50.9	55.3	45.0	39.0	32.9	35.2	37.6	29.7	22.3	19.6
4. Total Petroleum												
-Value (M. Baht)	37,620.8	55,712.8	81,855.9	78,894.0	82,102.0	88,278.3	88,201.4	109,324.9	159,037.6	187,317.2	147,638.4	184,754.9
-Quantity (M. Litres)	14,340.9	18,297.0	21,358.6	22,338.0	25,526.6	29,559.9	32,116.9	37,452.9	46,037.3	46,756.8	41,773.6	43,775.7
-Quantity (BBL/D)	246,448.0	315,296.0	368,054.0	384,929.0	438,674.0	509,379.0	553,441.0	645,391.0	791,151.0	805,716.0	719,845.0	754,346.0
-Value(M.US\$)	1,484.4	2,160.9	3,198.0	3,089.1	3,223.6	3,481.3	3,502.4	4,381.1	6,260.7	6,021.9	3,534.4	4,839.0
-Price (\$/BBL)	16.5	18.8	23.8	22.0	20.1	18.7	17.3	18.6	21.6	20.5	13.5	17.6

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
Remarks : Excluding Lube Oil and Grease

Table 2.1.2-2Y (Cont.)
Quantity and Value of Petroleum Products Import

Description	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1. Crude Oil													
-Value (M. Baht)	285,862.0	284,373.3	286,952.7	346,056.8	486,627.4	644,933.3	753,782.9	715,789.3	1,002,667.3	623,023.9	751,466.6	977,374.0	1,119,337.8
-Quantity (M. Litres)	39,169.9	41,341.6	42,277.7	45,024.8	50,621.2	48,032.7	48,125.4	46,671.3	47,225.0	46,620.2	47,365.3	46,090.0	50,056.0
-Quantity (BBL/D)	673,134.0	712,401.0	728,532.0	775,870.0	872,308.0	827,702.0	829,300.0	804,242.0	811,561.0	803,362.0	816,201.0	794,226.0	862,568.0
-Value(M.US\$)	7,042.7	6,365.4	6,663.7	8,309.6	12,037.8	15,932.4	19,824.4	20,706.9	30,131.3	18,150.4	23,676.0	31,943.7	35,872.7
-Price (\$/BBL)	28.6	24.5	25.1	29.3	37.8	52.7	65.5	70.5	101.4	61.9	79.5	110.2	113.9
2. Petroleum Products													
-Value (M. Baht)	9,160.4	3,910.6	7,391.2	8,909.1	15,774.5	29,362.6	23,513.8	15,409.3	21,353.8	21,749.7	41,415.1	49,674.6	70,469.8
-Quantity (M. Litres)	1,300.2	469.5	981.5	998.0	1,715.0	2,164.7	1,503.7	932.2	1,229.0	1,887.8	3,112.8	3,093.7	3,889.6
-Quantity (BBL/D)	22,344.0	8,090.0	16,913.0	17,197.0	29,553.0	37,303.0	25,912.0	16,063.0	21,120.0	32,530.0	53,640.0	53,311.0	66,843.0
-Value(M.US\$)	237.2	87.4	171.0	214.0	394.6	728.6	615.0	445.4	640.4	635.4	1,308.8	1,624.2	2,261.0
-Price (\$/BBL)	29.0	29.6	27.7	34.1	36.6	53.5	65.0	76.0	82.8	53.5	66.9	83.5	92.4
3. Others													
-Value (M. Baht)	29,867.2	26,757.0	20,462.4	24,259.1	28,902.3	30,462.2	38,867.3	34,841.6	19,708.8	7,366.4	25,419.6	44,604.9	53,701.1
-Quantity (M. Litres)	4,141.5	3,924.8	3,011.1	2,999.5	2,837.2	2,417.5	2,630.6	2,208.8	1,039.3	699.7	1,768.9	2,429.3	2,714.5
-Quantity (BBL/D)	71,172.0	67,632.0	51,888.0	51,687.0	48,890.0	41,659.0	45,330.0	38,061.0	17,860.0	12,058.0	30,483.0	41,862.0	46,776.0
-Value(M.US\$)	747.1	601.9	475.4	580.8	716.0	755.0	1,019.7	1,008.0	598.4	212.0	800.3	1,454.6	1,721.4
-Price (\$/BBL)	28.7	24.4	25.1	30.8	40.1	49.7	61.6	72.6	91.5	48.2	71.9	95.2	100.8
4. Total Petroleum													
-Value (M. Baht)	324,889.5	315,040.9	314,806.3	379,225.0	531,304.2	704,758.1	816,164.0	766,040.2	1,043,729.9	652,140.0	818,301.2	1,071,653.5	1,243,508.7
-Quantity (M. Litres)	44,611.6	45,735.8	46,270.3	49,022.3	55,173.4	52,614.9	52,259.7	49,812.2	49,493.3	49,207.6	52,247.0	51,613.1	56,660.1
-Quantity (BBL/D)	766,649.0	788,123.0	797,333.0	844,755.0	950,751.0	906,663.0	900,542.0	858,367.0	850,541.0	847,949.0	900,324.0	889,400.0	973,703.0
-Value(M.US\$)	8,027.0	7,054.7	7,310.1	9,104.4	13,148.4	17,416.0	21,459.2	22,160.3	31,370.0	18,997.9	25,785.1	35,022.5	39,855.1
-Price (\$/BBL)	28.6	24.5	25.1	29.5	37.9	52.6	65.3	70.7	100.8	61.4	78.5	107.9	111.8

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
Remarks : Excluding Lube Oil and Grease

Table 2.1.3-1Y
Quantity and Value of Petroleum Products Export

Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1. Crude Oil												
-Value (M.Baht)												1,749.75
-Quantity (M.Litres)												30,069.00
-Quantity (BBL/D)												
-Value (M.US\$)												
-Price (\$/BBL)												
2. Petroleum Products												
-Value (M.Baht)		23.75	34.56	194.51	472.50	412.75	810.40	4,399.43	6,350.68	5,851.66	7,100.70	6,393.56
-Quantity (M.Litres)	9.47											
-Quantity (BBL/D)	163.00	409.00	596.00	3,343.00	8,142.00	7,112.00	13,965.00	75,604.00	109,435.00	100,836.00	122,360.00	109,873.00
-Value (M.US\$)												
-Price (\$/BBL)												
3. Others												
-Value (M.Baht)												
-Quantity (M.Litres)			9.04	399.66	480.85	308.65	456.87	415.90	451.32	410.85	718.39	1,026.48
-Quantity (BBL/D)			156.00	6,868.00	8,286.00	5,319.00	7,873.00	7,147.00	7,777.00	7,080.00	12,379.00	17,640.00
-Value (M.US\$)												
-Price (\$/BBL)												
4. Total Petroleum												
-Value (M.Baht)		23.75	43.60	594.16	953.35	721.39	1,267.27	4,955.29	6,802.00	6,262.51	7,839.15	9,169.79
-Quantity (M.Litres)	9.47											
-Quantity (BBL/D)	163.00	409.00	751.00	10,211.00	16,428.00	12,431.00	21,838.00	85,157.00	117,212.00	107,916.00	135,085.00	157,583.00
-Value (M.US\$)												
-Price (\$/BBL)												

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.3-1Y (Cont.)
Quantity and Value of Petroleum Products Export

Description	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1. Crude Oil												
-Value (M.Baht)	14,448.50	18,075.02	29,355.84	33,883.08	52,858.33	56,834.78	45,811.90	56,575.07	27,409.67	26,107.31	38,925.85	51,531.16
-Quantity (M.Litres)	2,216.18	2,688.87	3,876.48	3,287.85	3,805.71	3,797.65	3,020.28	2,668.79	2,383.15	1,738.44	1,886.17	2,387.95
-Quantity (BBL/D)	38,189.00	46,335.00	66,800.00	56,502.00	65,580.00	65,441.00	52,046.00	45,863.00	41,067.00	29,957.00	32,503.00	41,149.00
-Value (M.US\$)	324.22	420.60	703.76	836.35	1,300.09	1,494.26	1,324.73	1,703.53	797.72	821.84	1,271.47	1,647.60
-Price (\$/BBL)	23.26	24.87	28.86	40.44	54.31	62.56	69.73	101.49	53.22	75.16	107.18	109.70
2. Petroleum Products												
-Value (M.Baht)				70,954.44	99,398.18	138,062.55	127,171.65	225,446.99	174,515.78	198,590.18	230,722.50	268,489.76
-Quantity (M.Litres)				6,916.20	7,132.47	6,129.89	7,004.38	8,399.38	7,092.74	7,746.61	11,681.60	11,957.35
-Quantity (BBL/D)				119,180.00	122,907.00	105,631.00	120,370.00	144,739.00	122,222.00	133,490.00	206,050.00	180,852.00
-Value (M.US\$)				1,753.33	2,440.45	3,637.40	3,683.57	6,765.35	5,089.58	6,284.87	7,549.38	8,605.31
-Price (\$/BBL)				39.80	54.70	68.85	75.60	103.39	69.27	83.57	114.37	117.97
3. Others												
-Value (M.Baht)				15,504.54	12,135.82	22,863.33	31,904.92	34,936.97	30,770.25	33,273.94	47,534.09	75,893.96
-Quantity (M.Litres)				1,009.63	963.81	1,342.06	1,473.34	1,527.38	2,239.99	2,014.59	2,432.90	3,440.83
-Quantity (BBL/D)				17,398.00	16,608.00	23,127.00	25,319.00	26,320.00	38,600.00	34,715.00	41,924.00	59,293.00
-Value (M.US\$)				384.48	299.71	602.41	602.41	923.28	899.58	1,050.85	1,549.88	2,430.46
-Price (\$/BBL)				41.49	46.73	62.71	68.97	73.06	63.85	82.93	101.28	112.30
4. Total Petroleum												
-Value (M.Baht)	14,448.50	18,075.02	29,355.84	120,342.06	164,392.34	217,760.66	204,888.47	316,959.02	232,695.70	257,971.43	317,182.44	395,914.88
-Quantity (M.Litres)	10,142.01	10,785.15	11,348.43	11,765.57	11,918.21	13,724.41	12,895.39	15,340.48	16,304.74	15,710.37	14,814.17	17,426.37
-Quantity (BBL/D)	174,768.00	185,850.00	195,557.00	202,191.00	205,375.00	236,500.00	222,214.00	263,626.00	280,964.00	270,722.00	255,279.00	300,292.00
-Value (M.US\$)	324.22	420.60	703.76	2,974.16	4,040.26	5,734.06	5,931.58	9,511.06	6,786.89	8,157.55	10,370.73	12,683.37
-Price (\$/BBL)	5.08	6.20	9.86	40.19	53.90	66.43	73.13	98.57	66.18	82.55	111.30	115.72

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1Y
Refining Capacity

Unit : Barrels/Day

Company	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
ESSO	69,680	69,680	69,680	69,680	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000
BCP	65,000	68,000	68,000	68,000	80,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
TOC	65,000	83,500	83,500	83,500	183,500	183,500	210,000	210,000	210,000	210,000	210,000	210,000	210,000
FANG	1,000	1,100	1,100	1,100	1,200	1,400	1,700	1,700	2,500	2,500	2,500	2,500	2,500
IRPC / TPI									65,000	65,000	65,000	65,000	65,000
PTTAR / RRC									145,000	145,000	145,000	145,000	145,000
STRC									130,000	130,000	130,000	145,000	145,000
RPC											17,000	17,000	17,000
Total	200,680	222,280	222,280	222,280	409,700	449,900	476,700	476,700	817,500	817,500	834,500	849,500	849,500

Company	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
ESSO	160,000	160,000	160,000	160,000	160,000	160,000	160,000	170,000	170,000	170,000	170,000	170,000
BCP	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
TOC	210,000	210,000	210,000	210,000	220,000	220,000	220,000	275,000	275,000	275,000	275,000	275,000
FANG	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
IRPC / TPI	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000
PTTAR / RRC	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000
STRC	145,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
RPC	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000
Total	1,014,500	1,014,500	1,014,500	1,014,500	1,024,500	1,029,500	1,029,500	1,094,500	1,094,500	1,094,500	1,094,500	1,094,500

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-2Y
Material Intake by Refinery

Unit : Barrels/Day

Year	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR / RRC	SPRC	RPC	Total
1988	69,263	48,994	65,929					184,186
1989	96,972	50,732	77,716					225,420
1990	103,611	64,837	72,354					240,803
1991	105,693	69,242	73,691					248,626
1992	150,198	77,025	78,409					305,631
1993	192,327	90,489	74,903					357,719
1994	209,436	107,774	96,810					414,020
1995	214,493	110,400	150,404	10,192				485,490
1996	194,645	97,795	150,675	36,179	104,224	75,488		659,006
1997	205,889	98,563	144,951	49,631	132,081	136,346		767,461
1998	187,864	91,296	120,497	56,076	129,590	130,875	5,611	721,808
1999	164,056	95,091	118,480	58,917	147,630	150,265	7,518	741,957
2000	169,385	85,597	134,558	65,953	142,983	142,948	8,205	749,629
2001	192,555	73,819	135,659	66,769	138,253	138,253	10,706	756,014
2002	204,849	72,709	126,901	129,884	142,159	142,159	9,028	827,688
2003	225,616	74,655	136,917	127,116	135,347	135,347	11,093	846,091
2004	223,125	90,113	129,869	178,104	146,469	147,073	11,097	925,850
2005	226,465	62,738	152,965	178,124	138,709	138,709	11,487	909,198
2006	229,326	57,070	150,485	169,417	153,689	153,689	11,822	925,498
2007	208,907	65,827	148,266	189,299	147,782	147,702	12,976	920,759
2008	272,648	73,540	141,046	171,788	127,455	127,455	11,498	925,432
2009	268,177	85,098	137,506	140,469	142,634	152,514	10,234	936,633
2010	255,423	88,575	124,933	173,097	146,312	162,738	10,686	961,764
2011	275,498	89,918	110,206	157,863	134,267	156,640	11,515	935,909
2012	271,235	76,731	142,254	174,920	147,439	163,012	1,155	976,745

Remark : Since mid of December 2007 RRC merged with ATC to form PTTAR.

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-1Y
Production of Petroleum Products

Unit : Million Litres

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
	1988	2,533.5	1,443.9	1,089.6	120.4	3,459.7					3,366.6
1989	2,757.1	1,601.3	1,155.8	131.0	4,202.6	4,075.0	127.6	1,662.6	3,403.4	882.5	13,039.2
1990	3,044.9	1,777.2	1,267.7	140.1	4,427.0	4,305.4	121.6	1,778.1	3,540.1	1,347.1	14,277.2
1991	3,106.1	1,919.5	1,186.6	100.2	4,794.6	4,655.4	139.2	1,856.0	3,587.6	1,817.3	15,261.7
1992	3,751.3	2,270.6	1,480.6	121.6	6,093.5	5,936.3	157.3	2,083.5	4,328.7	2,355.0	18,733.5
1993	4,603.2	2,442.2	2,161.0	124.6	7,273.9	7,069.9	204.0	2,321.4	4,739.5	2,655.4	21,717.9
1994	5,025.0	2,034.7	2,990.3	120.6	8,432.9	8,218.6	214.3	2,700.4	5,763.6	2,535.9	24,578.3
1995	6,181.6	2,247.4	3,934.2	113.0	10,073.7	9,866.5	207.2	3,138.3	6,000.6	3,151.2	28,658.4
1996	7,969.5	2,693.4	5,276.1	189.3	13,929.9	13,754.5	175.4	3,572.0	8,354.1	3,761.1	37,775.8
1997	9,419.5	2,879.6	6,539.9	122.7	17,272.5	17,128.3	144.3	3,810.8	8,701.9	4,650.6	43,978.1
1998	8,722.1	2,798.9	5,923.2	114.9	16,437.3	16,326.4	111.0	3,567.4	7,846.2	4,472.4	41,160.3
1999	8,631.5	2,762.7	5,868.8	346.7	15,948.2	15,817.1	131.1	4,119.0	7,828.8	4,984.7	41,858.8
2000	8,086.5	3,792.3	4,294.2	491.2	16,105.7	15,991.3	114.4	4,347.8	6,990.7	5,575.6	41,597.5
2001	8,327.2	4,131.3	4,195.9	587.1	16,666.8	16,558.7	108.1	4,237.2	6,465.9	6,348.4	42,632.6
2002	8,250.8	4,305.3	3,945.5	549.6	17,520.0	17,418.6	101.4	4,669.9	5,979.6	6,359.3	43,329.1
2003	8,639.7	4,662.2	3,977.4	697.3	19,176.8	19,072.2	104.6	4,257.3	6,080.9	6,679.3	45,531.2
2004	8,957.2	4,846.3	4,110.9	1,119.5	21,243.3	21,127.1	116.1	4,630.8	6,721.5	7,069.8	49,742.1
2005	9,232.7	5,076.1	4,156.6	1,016.7	20,797.2	20,713.0	84.2	4,836.6	6,159.2	7,734.9	49,777.1
2006	9,089.9	5,034.7	4,055.2	1,041.1	21,149.4	21,095.3	54.0	5,602.9	6,308.1	7,702.6	50,893.9
2007	8,702.9	5,068.1	3,634.8	123.4	21,994.9	21,963.5	31.4	5,322.6	6,452.0	8,276.7	50,872.4
2008	8,449.0	4,900.1	3,548.9	194.9	20,769.0	20,765.4	3.7	6,001.9	6,873.3	8,065.4	50,353.4
2009	8,852.1	5,190.3	3,661.8	92.9	22,489.0	22,489.0		5,975.0	6,884.2	8,273.0	52,566.1
2010	8,741.9	5,305.0	3,436.9	466.7	23,304.8	23,304.8		6,196.1	5,999.8	8,178.4	52,887.6
2011	8,325.9	5,699.7	2,626.2	151.8	23,098.6	23,098.2	0.4	6,292.7	5,815.8	10,041.5	53,726.3
2012	9,150.1	6,646.8	2,503.3	75.9	25,124.6	25,124.6		5,857.8	6,138.1	11,201.7	57,548.1

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2Y
Production of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
1988	43,538.1	24,813.3	18,724.7	2,069.0	59,454.8	57,854.9	1,599.9	22,462.4	44,258.2	19,260.9	191,043.6
1989	47,510.5	27,593.7	19,916.8	2,257.4	72,419.4	70,220.6	2,198.8	28,650.0	58,647.6	15,207.2	224,693.8
1990	52,469.9	30,624.8	21,845.0	2,414.2	76,286.3	74,190.9	2,095.4	30,640.3	61,003.2	23,213.3	246,026.7
1991	53,524.5	33,076.9	20,447.5	1,726.6	82,620.8	80,222.1	2,398.7	31,982.7	61,821.7	31,315.8	262,991.7
1992	64,466.0	39,020.2	25,444.0	2,089.6	104,716.6	102,015.2	2,703.1	35,804.9	74,388.6	40,470.6	321,936.5
1993	79,322.6	42,084.1	37,238.4	2,147.1	125,344.3	121,828.9	3,515.3	40,002.5	81,671.3	45,758.0	374,244.8
1994	86,591.1	35,062.0	51,529.0	2,078.1	145,316.2	141,623.4	3,692.8	46,533.4	99,318.7	43,698.7	423,536.5
1995	106,521.7	38,727.3	67,794.3	1,947.2	173,590.6	170,020.1	3,570.4	54,079.3	103,402.7	54,301.6	493,843.7
1996	136,955.7	46,286.0	90,669.6	3,253.1	239,385.0	236,370.8	3,014.2	61,384.7	143,565.0	64,634.4	649,177.2
1997	162,317.4	49,621.4	112,695.9	2,114.3	297,640.8	295,155.9	2,486.5	65,667.9	149,951.7	80,139.4	757,834.2
1998	150,299.7	48,230.8	102,068.9	1,979.9	283,248.6	281,337.5	1,912.7	61,473.6	135,206.2	77,068.6	709,278.4
1999	148,738.5	47,607.0	101,131.5	5,974.3	274,820.4	272,561.2	2,259.1	70,978.8	134,906.3	85,896.6	721,314.5
2000	138,966.3	65,170.6	73,795.7	8,441.2	276,776.1	274,810.2	1,965.9	74,716.8	120,135.0	95,816.5	714,853.3
2001	143,494.8	71,190.8	72,304.0	10,116.9	287,203.3	285,340.5	1,862.7	73,015.7	111,420.8	109,396.0	734,649.0
2002	142,178.3	74,189.2	67,989.1	9,470.7	301,905.7	300,158.4	1,747.3	80,472.0	103,040.8	109,583.8	746,650.1
2003	148,879.8	80,339.3	68,538.8	12,015.9	330,455.8	328,653.3	1,802.4	73,362.0	104,786.4	115,098.1	784,597.5
2004	153,929.3	83,283.5	70,645.7	19,238.5	365,065.7	363,068.8	1,995.1	79,580.2	115,508.8	121,494.3	854,818.7
2005	159,098.4	87,471.6	71,626.8	17,519.8	358,378.7	356,927.7	1,450.9	83,344.6	106,135.7	133,288.3	857,763.3
2006	156,637.7	86,758.2	69,879.4	17,940.3	364,447.8	363,515.5	930.5	96,549.5	108,701.5	132,731.7	877,007.5
2007	149,968.9	87,333.8	62,635.1	2,126.4	379,017.5	378,476.4	541.0	91,719.3	111,181.2	142,624.6	876,637.5
2008	145,195.9	84,208.1	60,987.7	3,349.3	356,914.9	356,853.0	63.5	103,142.5	118,117.5	138,603.7	865,323.6
2009	152,539.9	89,439.5	63,100.3	1,600.8	387,531.9	387,531.9		102,961.5	118,628.9	142,560.8	905,823.4
2010	150,640.9	91,416.1	59,224.8	8,042.2	401,589.8	401,589.8		106,771.5	103,388.9	140,930.7	911,364.0
2011	143,472.4	98,217.6	45,254.8	2,615.8	398,036.5	398,029.6	6.8	108,436.2	100,218.2	173,035.7	925,816.1
2012	157,244.3	114,225.1	43,019.1	1,304.3	431,765.8	431,765.8		100,666.1	105,483.1	192,501.0	988,963.8

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPP0)

Table 2.3.2-1Y
Sale of Petroleum Products

Unit : Million Litres

Year	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	Diesel						
					HSD	LSD					
1988	2,922.9	1,623.4	1,299.5	125.6	7,284.6	7,187.4	97.2	1,831.7	2,735.9	1,400.7	16,301.3
1989	3,321.7	1,795.8	1,525.9	119.2	8,649.7	8,520.2	129.5	2,112.3	3,634.1	1,571.5	19,408.5
1990	3,686.9	1,940.6	1,746.3	123.0	9,928.0	9,811.1	117.0	2,292.3	5,210.1	1,716.3	22,956.6
1991	3,890.4	2,005.1	1,885.3	111.3	9,950.6	9,811.1	139.5	2,467.9	6,113.7	1,844.8	24,378.7
1992	4,335.0	2,117.7	2,217.3	112.3	10,353.8	10,194.8	158.9	2,724.2	7,271.0	2,058.5	26,854.8
1993	4,911.8	2,163.9	2,747.9	107.5	12,033.3	11,833.7	199.6	2,898.6	8,026.8	2,223.9	30,201.8
1994	5,591.2	2,172.6	3,418.6	113.7	13,288.8	13,069.1	219.7	3,133.7	8,991.1	2,403.6	33,522.0
1995	6,293.3	2,206.2	4,087.1	100.9	15,619.1	15,424.1	194.9	3,294.5	9,722.4	2,628.8	37,658.9
1996	6,918.1	2,076.1	4,842.0	98.4	17,826.6	17,665.5	161.1	3,393.0	9,653.1	2,902.5	40,791.5
1997	7,355.3	1,973.0	5,382.3	85.9	17,535.2	17,387.8	147.4	3,542.7	9,094.4	2,985.4	40,598.8
1998	7,168.3	2,199.2	4,969.2	55.1	15,285.0	15,167.2	117.8	3,314.5	7,940.5	2,757.1	36,520.4
1999	7,025.6	2,340.1	4,685.4	51.7	15,294.9	15,159.5	135.4	3,297.7	7,931.1	2,983.3	36,584.3
2000	6,761.6	3,334.5	3,427.1	48.8	14,973.7	14,868.1	105.6	3,493.7	6,373.4	3,375.4	35,026.5
2001	6,857.1	3,856.0	3,001.0	56.5	15,225.9	15,121.0	104.8	3,717.4	4,563.8	3,728.4	34,148.9
2002	7,326.0	4,341.4	2,984.7	61.8	16,076.9	15,963.6	113.2	3,777.7	4,782.7	3,881.9	35,906.9
2003	7,635.1	4,550.3	3,084.8	35.8	17,550.3	17,450.8	99.5	3,761.3	4,990.6	3,975.2	37,948.2
2004	7,660.7	4,631.3	3,029.3	23.3	19,623.9	19,519.3	104.6	4,241.9	6,064.2	4,035.1	41,648.9
2005	7,248.1	4,362.1	2,886.0	21.3	19,593.8	19,516.6	77.2	4,292.7	6,204.8	4,363.9	41,724.5
2006	7,215.1	4,558.9	2,656.3	19.7	18,371.0	18,311.8	59.2	4,518.5	5,851.3	5,074.4	41,050.0
2007	7,336.8	4,711.6	2,625.2	18.2	18,709.7	18,676.9	32.8	4,931.8	4,221.5	5,812.4	41,030.4
2008	7,120.6	4,311.4	2,809.2	15.7	17,643.0	17,633.6	9.4	4,636.5	3,287.3	6,828.4	39,531.4
2009	7,524.4	4,291.6	3,232.8	17.6	18,465.3	18,465.3		4,431.5	2,730.9	6,894.3	40,063.9
2010	7,416.8	4,509.2	2,907.6	15.3	18,480.1	18,480.1		4,711.7	2,615.2	7,587.3	40,826.2
2011	7,331.1	4,936.8	2,394.3	13.0	19,192.1	19,192.1		5,076.5	2,455.9	8,178.0	42,246.7
2012	7,705.0	5,328.9	2,376.0	13.4	20,564.6	20,564.6		5,091.4	2,363.3	8,929.8	44,667.5

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

*Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 2.3.2-2Y
Sale of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1988	50,229.9	27,898.1	22,331.8	2,158.4	123,515.3	1,670.3	31,477.7	47,016.3	24,071.0	280,137.8
1989	57,239.7	30,945.3	26,294.4	2,054.0	146,820.6	2,231.5	36,399.2	62,623.0	27,080.1	334,448.6
1990	63,532.9	33,440.5	30,092.3	2,119.5	169,065.5	2,016.1	39,501.0	89,780.7	29,575.3	395,589.7
1991	67,039.6	34,552.0	32,487.6	1,917.9	169,065.5	2,403.8	42,527.0	105,351.6	31,789.7	420,095.9
1992	74,496.9	36,392.6	38,104.2	1,929.8	175,197.4	2,730.6	46,815.3	124,952.0	35,375.2	461,500.5
1993	84,640.4	37,288.4	47,351.9	1,852.4	203,919.0	3,439.5	49,948.8	138,318.3	38,322.3	520,440.4
1994	96,347.9	37,438.3	58,909.5	1,959.2	225,207.5	3,785.8	54,000.1	154,935.2	41,418.9	577,654.2
1995	108,446.5	38,017.3	70,429.1	1,738.7	265,789.0	3,358.5	56,771.0	167,537.0	45,299.6	648,940.8
1996	118,887.4	35,677.7	83,209.6	1,691.0	303,581.3	2,768.5	58,308.6	165,888.3	49,879.4	701,002.8
1997	126,747.0	33,998.8	92,748.1	1,480.2	299,627.7	2,540.0	61,048.0	156,715.2	51,444.6	699,601.4
1998	123,524.6	37,896.7	85,629.5	949.4	261,362.1	2,029.9	57,115.6	136,831.2	47,510.5	629,323.5
1999	121,065.5	40,324.7	80,739.1	890.8	261,229.4	2,333.2	56,826.1	136,669.2	51,408.4	630,424.2
2000	116,197.9	57,303.3	58,894.6	838.6	255,508.0	1,814.7	60,039.1	109,526.7	58,006.1	601,929.8
2001	118,161.9	66,446.8	51,713.4	973.6	260,566.0	1,805.9	64,058.4	78,643.6	64,248.0	588,457.5
2002	126,242.1	74,811.2	51,432.5	1,064.9	275,085.7	1,950.6	65,097.5	82,415.7	66,893.1	618,751.4
2003	131,568.5	78,411.0	53,157.4	616.9	300,713.3	1,714.5	64,814.9	85,998.3	68,500.9	653,927.5
2004	131,648.9	79,588.8	52,058.4	400.4	335,438.8	1,797.5	72,896.9	104,213.1	69,343.1	715,737.2
2005	124,899.7	75,167.9	49,731.7	367.0	336,311.3	1,330.3	73,972.0	106,921.5	75,199.0	718,999.6
2006	124,331.0	78,559.2	45,773.5	339.4	315,550.1	1,020.1	77,863.0	100,829.9	87,442.3	707,376.9
2007	126,428.2	81,190.5	45,237.6	313.6	321,841.5	565.2	84,985.0	72,745.1	100,159.6	707,038.8
2008	122,367.3	74,091.3	48,276.0	269.8	303,033.1	161.5	79,678.1	56,492.1	117,345.9	679,346.7
2009	129,660.9	73,953.1	55,707.8	303.2	318,195.2	318,195.2	76,363.8	47,059.0	118,803.0	690,385.4
2010	127,806.7	77,702.8	50,103.9	263.6	318,450.2	318,450.2	81,192.3	45,065.2	130,744.8	703,520.6
2011	126,329.9	85,071.2	41,258.7	224.0	330,719.5	330,719.5	87,478.5	42,320.2	140,923.8	727,998.1
2012	132,410.2	91,577.0	40,831.5	230.2	353,402.3	353,402.3	87,495.6	40,613.2	153,458.4	767,611.9

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

*Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 2.3.3-1Y
Import of Petroleum Products

Unit : Million Litres

Year	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG	Total	Diesel						
						HSD	LSD					
1988	375.2	195.4	179.8		3,763.4	3,763.4		545.1	285.7	270.3	5,239.6	
1989	613.6	206.9	406.7		4,309.6	4,309.6		495.3	247.2	694.6	6,360.2	
1990	652.7	180.3	472.4		5,590.2	5,590.2		524.2	1,777.5	518.5	9,063.2	
1991	802.5	105.2	697.3		5,161.7	5,161.7		580.7	2,664.9	191.2	9,400.9	
1992	1,058.7	71.2	987.6		4,294.7	4,294.7		685.2	3,175.4	3.3	9,217.3	
1993	938.8	109.3	829.6		5,382.6	5,382.6		655.5	3,350.1	81.4	10,408.4	
1994	833.1	416.0	417.1		4,786.4	4,786.4		524.9	3,524.1	157.9	9,826.4	
1995	653.2	289.1	364.1		5,815.9	5,815.9		192.1	3,745.8	76.1	10,482.9	
1996	351.9	119.9	232.1		5,133.8	5,133.8		71.9	2,741.8	146.4	8,445.8	
1997	68.1	47.7	20.5		2,005.5	2,005.5	37.2	23.2	945.9	3.6	3,083.4	
1998	25.0	16.8	8.2		716.0	716.0		1.6	661.4	2.8	1,406.8	
1999	51.8	18.7	33.1		1,084.5	1,084.5		4.0	929.1		2,069.4	
2000	29.1	17.7	11.4		645.5	645.5		3.0	622.6		1,300.2	
2001	144.2	144.2			321.7	321.7		3.6			469.4	
2002	224.2	217.4	6.9		706.5	706.5		50.8			981.4	
2003	139.3	139.3			605.3	605.3		42.5	210.9		997.9	
2004	192.7	169.8	22.9		713.5	713.5		49.8	753.1	5.9	1,715.0	
2005					719.4	719.4		2.6	1,442.8		2,164.7	
2006					364.8	364.8		33.9	1,105.0		1,503.7	
2007	162.1	135.2	26.9		191.0	191.0		42.8	536.3		932.1	
2008					89.6	89.6		47.9	254.3	837.2	1,229.0	
2009	14.1	14.1			385.3	385.3		10.5	83.2	1,394.7	1,887.7	
2010					61.2	61.2		3.3	101.2	2,947.1	3,112.8	
2011	34.1	18.5		15.6	56.0	56.0		10.8	331.7	2,661.2	3,093.7	
2012	312.7	70.2		242.5	15.3	15.3		2.8	362.5	3,204.3	3,897.5	

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Including Propane and Butane

Table 2.3.3-2Y
Import of Petroleum Products

Unit : Barrels/Day

Year	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG	Total	Diesel					
						HSD	LSD				
1988	6,447.8	3,357.9	3,089.8		64,673.9	64,673.9		9,367.5	4,909.7	4,645.1	90,043.3
1989	10,573.5	3,565.3	7,008.2		74,263.3	74,263.3		8,535.0	4,259.7	11,969.3	109,600.2
1990	11,247.3	3,106.9	8,140.4		96,330.6	96,330.6		9,033.0	30,629.9	8,934.8	156,178.0
1991	13,828.7	1,812.8	12,015.9		88,946.7	88,946.7		10,006.6	45,921.7	3,294.7	161,997.6
1992	18,193.7	1,223.5	16,971.8		73,804.3	73,804.3		11,775.1	54,569.1	56.7	158,399.4
1993	16,177.4	1,883.4	14,295.7		92,753.3	92,753.3		11,295.6	57,729.1	1,402.6	179,359.2
1994	14,356.0	7,168.5	7,187.4		82,479.5	82,479.5		9,045.1	60,727.5	2,720.9	169,330.2
1995	11,255.9	4,981.7	6,274.1		100,219.9	100,219.9		3,310.2	64,547.8	1,311.3	180,643.5
1996	6,047.3	2,060.4	3,986.6		88,224.2	88,224.2		1,235.6	47,117.7	2,515.8	145,142.4
1997	1,173.5	821.9	353.2		34,558.9	34,558.9	641.0	399.7	16,299.8	62.0	53,134.2
1998	430.8	289.4	141.3		12,338.1	12,338.1		27.5	11,397.2	48.2	24,242.8
1999	892.6	322.2	570.3		18,688.1	18,688.1		68.9	16,010.3		35,661.3
2000	500.0	304.1	195.9		11,092.9	11,092.9		51.5	10,699.3		22,343.9
2001	2,484.8	2,484.8			5,543.5	5,543.5		62.0			8,089.8
2002	3,863.4	3,746.2	118.9		12,174.4	12,174.4		875.3			16,913.0
2003	2,400.4	2,400.4			10,430.5	10,430.5		732.3	3,634.2		17,197.1
2004	3,311.5	2,918.0	393.5		12,261.4	12,261.4		855.8	12,942.0	101.3	29,472.5
2005					12,396.7	12,396.7		44.8	24,862.4		37,302.8
2006					6,286.2	6,286.2		584.1	19,041.4		25,911.9
2007	2,793.3	2,329.7	463.5		3,291.3	3,291.3		737.5	9,241.5		16,062.7
2008					1,539.7	1,539.7		823.1	4,370.1	14,387.2	21,120.3
2009	242.9	242.9			6,639.5	6,639.5		180.9	1,433.7	24,033.5	32,529.7
2010					1,054.6	1,054.6		56.8	1,743.8	50,784.6	53,640.3
2011	587.6	318.7		268.8	964.9	964.9		186.1	5,715.8	45,857.9	53,311.1
2012	5,388.4	1,209.6		4,178.7	263.6	263.6		48.2	6,246.6	55,216.7	67,162.3

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Including Propane and Butane

Table 2.3.4-1Y
Export of Petroleum Products

Unit : Million Litres

Year	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	Diesel						
					HSD	LSD					
1989	4.1	3.9	0.2	5.4	5.4						9.4
1990	9.3	8.5	0.8	14.5	14.5						23.7
1991	16.7	16.0	0.7	17.4	17.4			0.3		0.2	34.5
1992	105.6	104.5	1.1	23.3	23.3			6.2		59.4	194.5
1993	304.2	301.5	2.7	54.1	54.1			7.2	19.5	87.2	472.5
1994	239.4	235.1	4.2	71.2	71.2			9.6	25.5	27.0	373.0
1995	274.0	255.8	18.2	87.3	87.3			13.6	44.5	187.9	607.5
1996	1,236.8	705.3	531.5	1,071.1	1,071.1			195.4	1,014.8	364.5	3,921.5
1997	1,948.7	935.0	1,013.6	1,953.1	1,953.1			277.5	715.2	873.6	5,781.7
1998	1,716.1	635.8	1,080.3	2,203.2	2,203.2			236.8	199.4	873.3	5,255.0
1999	1,708.5	486.3	1,222.3	1,976.0	1,976.0			820.8	330.8	1,346.1	6,484.3
2000	1,102.3	329.9	772.4	1,676.8	1,676.8			816.4	769.3	1,240.5	5,996.9
2001	1,480.6	382.8	1,097.8	1,646.2	1,642.8	3.5		487.8	1,503.6	1,403.3	6,916.2
2002	1,230.4	220.9	1,009.5	2,331.6	2,331.6			920.7	766.8	1,269.9	6,837.8
2003	1,108.3	251.1	857.3	2,148.2	2,148.2			558.0	779.9	1,426.1	6,129.8
2004	1,359.5	316.5	1,043.0	2,381.6	2,381.6			367.1	1,078.3	1,648.6	6,893.9
2005	2,021.9	738.5	1,283.4	1,809.0	1,809.0			599.3	903.4	1,755.3	7,092.7
2006	1,921.9	514.4	1,407.5	2,940.5	2,940.5			1,017.3	1,418.6	1,067.2	8,399.3
2007	1,578.9	543.2	1,035.7	2,689.5	2,689.5			449.0	2,478.0	514.0	7,746.6
2008	1,478.4	648.0	830.4	3,806.3	3,806.3			1,346.8	3,624.3	39.3	10,403.6
2009	1,351.1	903.9	447.2	4,796.5	4,796.5			1,609.3	3,878.0	27.8	11,681.6
2010	1,341.8	801.8	539.9	5,505.3	5,505.3			1,404.5	3,234.0	45.7	11,957.3
2011	968.7	730.3	238.4	4,705.5	4,705.5			1,201.5	3,482.9	29.9	10,495.1
2012	1,569.6	1,468.2	101.4	5,371.3	5,371.3			752.5	3,854.2	18.4	11,597.5

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2Y
Export of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
1989	70.6	67.2	3.4	93.0	93.0					163.1
1990	160.2	146.4	13.7	249.8	249.8					409.3
1991	287.7	275.7	12.0	299.8	299.8				5.1	595.5
1992	1,814.7	1,795.8	18.9	400.4	400.4				106.5	3,342.5
1993	5,241.9	5,195.4	46.5	932.2	932.2				124.0	8,142.2
1994	4,125.3	4,051.2	72.3	1,226.9	1,226.9				165.4	6,428.9
1995	4,721.5	4,407.9	313.6	1,504.3	1,504.3				234.3	10,468.9
1996	21,254.3	12,120.5	9,133.8	18,406.8	18,406.8				3,357.9	67,391.3
1997	33,580.1	16,111.9	17,466.4	33,655.9	33,655.9				4,781.8	99,631.5
1998	29,571.9	10,956.1	18,615.8	37,965.6	37,965.6				4,080.5	90,555.1
1999	29,440.9	8,379.9	21,062.7	34,050.5	34,050.5				14,144.0	111,739.2
2000	18,943.0	5,669.3	13,273.6	28,815.7	28,815.7				14,029.8	103,056.6
2001	25,513.7	6,596.4	18,917.3	28,367.4	28,367.4			60.3	8,405.8	119,180.4
2002	21,202.3	3,806.5	17,395.7	40,178.2	40,178.2				15,865.5	117,830.0
2003	19,098.2	4,326.9	14,773.0	37,017.9	37,017.9				9,615.4	105,630.5
2004	23,362.9	5,439.0	17,923.9	40,927.7	40,927.7				6,308.6	118,471.6
2005	34,841.5	12,725.8	22,115.6	31,172.8	31,172.8				10,327.1	122,222.5
2006	33,118.3	8,864.1	24,254.1	50,670.8	50,670.8				17,530.1	144,738.6
2007	27,207.7	9,360.4	17,847.2	46,345.6	46,345.6				7,737.1	133,490.1
2008	25,406.2	11,135.8	14,270.4	65,411.2	65,411.2				23,144.7	178,786.3
2009	23,282.2	15,576.0	7,706.1	82,653.6	82,653.6				27,731.5	201,298.1
2010	23,121.9	13,816.6	9,305.5	94,867.6	94,867.6				24,202.4	206,049.7
2011	16,692.7	12,584.5	4,108.1	81,085.4	81,085.4				20,704.3	180,852.4
2012	27,047.4	25,300.1	1,747.3	92,558.5	92,558.5				12,967.1	199,850.3

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPP0)

Table 2.4-1Y
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Year	Crude Oil Balance				Oil Products				Oil Products				Demand		
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	Demand	Export	Demand
1988	37,099	154,906	184,185	194,912	91,542	286,454	286,767	50,230	125,185	111,352	286,767	169	341,756		
1989	39,792	204,185	225,420	228,735	111,109	339,845	341,587	57,240	149,051	135,295	341,587	169	341,756		
1990	43,238	210,001	240,803	250,755	158,052	408,808	411,876	63,533	171,080	177,262	411,876	415	412,291		
1991	46,256	220,739	248,626	268,647	164,190	432,837	437,149	67,038	171,469	198,640	437,149	760	437,909		
1992	52,846	277,501	305,631	343,165	161,172	504,338	485,489	74,496	177,929	233,063	485,489	10,240	495,730		
1993	53,718	323,859	357,718	399,453	185,519	584,972	548,503	84,640	207,358	256,504	548,503	16,488	564,991		
1994	57,167	372,885	414,020	449,449	180,554	630,004	605,282	96,347	228,993	279,940	605,282	11,831	617,113		
1995	53,727	452,114	3,495	485,490	193,276	717,707	676,847	108,446	269,148	299,252	676,847	18,448	695,296		
1996	62,057	633,170	8,212	659,005	157,980	850,358	749,315	118,886	306,349	324,078	749,315	77,036	826,351		
1997	72,263	728,757	9,803	767,460	807,783	884,742	799,152	126,747	302,167	370,237	799,152	103,970	903,123		
1998	75,760	679,728	10,281	721,808	761,043	801,159	727,514	123,525	263,391	340,597	727,514	93,930	821,445		
1999	83,636	698,895	10,620	741,956	795,171	850,621	762,447	121,065	263,562	377,819	762,447	121,228	883,675		
2000	110,157	673,133	36,885	749,629	822,770	916,285	741,781	116,198	257,322	368,260	741,781	122,707	864,489		
2001	113,760	712,400	38,189	756,013	842,636	918,358	727,146	118,161	262,373	346,612	727,146	138,653	865,800		
2002	129,291	728,532	51,411	827,688	855,821	924,622	758,288	126,242	277,037	355,007	758,288	135,555	893,844		
2003	158,985	775,870	66,799	846,091	906,018	974,902	804,224	131,569	302,428	370,227	804,224	126,489	930,714		
2004	153,719	869,924	58,400	925,850	930,528	1,008,757	857,237	131,648	337,236	388,352	857,237	140,161	997,399		
2005	183,377	827,701	65,580	909,197	916,713	995,675	860,405	124,899	337,641	397,864	860,405	137,029	997,434		
2006	204,199	829,300	65,441	925,497	939,220	1,010,462	847,874	124,331	316,570	406,972	847,874	171,896	1,019,770		
2007	213,408	804,242	52,045	920,759	949,248	1,003,372	846,035	126,427	322,406	397,200	846,035	169,540	1,015,575		
2008	228,828	811,560	45,863	925,432	970,761	1,009,742	806,635	122,368	303,194	381,073	806,635	210,711	1,017,346		
2009	237,941	803,361	41,066	936,633	1,030,814	1,075,401	829,375	129,660	318,195	381,519	829,375	240,405	1,069,780		
2010	241,801	816,201	29,956	961,763	1,068,081	1,152,204	882,964	127,806	318,449	436,709	882,964	241,321	1,124,286		
2011	224,127	794,226	32,502	935,908	1,105,521	1,200,695	930,353	126,330	330,720	473,302	930,353	222,204	1,152,557		
2012	238,616	860,211	41,036	976,745	1,174,871	1,288,498	988,039	132,409	353,402	502,227	988,039	259,094	1,247,134		

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2Y
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total Supply	751	852	1,007	1,085	1,273	1,478	1,455	1,743	2,110	2,513	2,417	2,692
- Production	605	477	727	981	1,272	1,434	1,369	1,702	2,031	2,511	2,415	2,692
GSP	438	287	520	778	965	1,043	915	978	1,070	1,170	1,186	1,232
Refinery	168	190	207	203	307	391	455	673	888	1,002	924	1,083
Others								52	73	340	305	377
- Import	146	375	280	103	2	44	85	41	79	2	2	
Total Demand	756	849	927	996	1,229	1,351	1,439	1,639	2,031	2,368	2,372	2,663
- Consumption	756	849	927	996	1,197	1,304	1,424	1,538	1,834	1,896	1,901	1,936
Cooking	582	666	717	717	787	864	953	1,056	1,171	1,225	1,130	1,206
Industry	79	95	108	125	156	176	206	240	268	281	272	318
Automobile	96	88	102	154	169	160	139	128	134	112	93	91
Feedstock					85	103	126	114	260	278	406	322
Own Used												
- Feedstock												
- Energy												
- Export					32	47	15	101	197	472	472	727
Balance (Supply-Demand)	-5	3	81	88	45	126	16	104	80	145	45	29

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including own used as feedstock of IRPC and PTTGC

**Table 2.4-2Y (Cont.)
Demand and Supply of LPG, Propane and Butane**

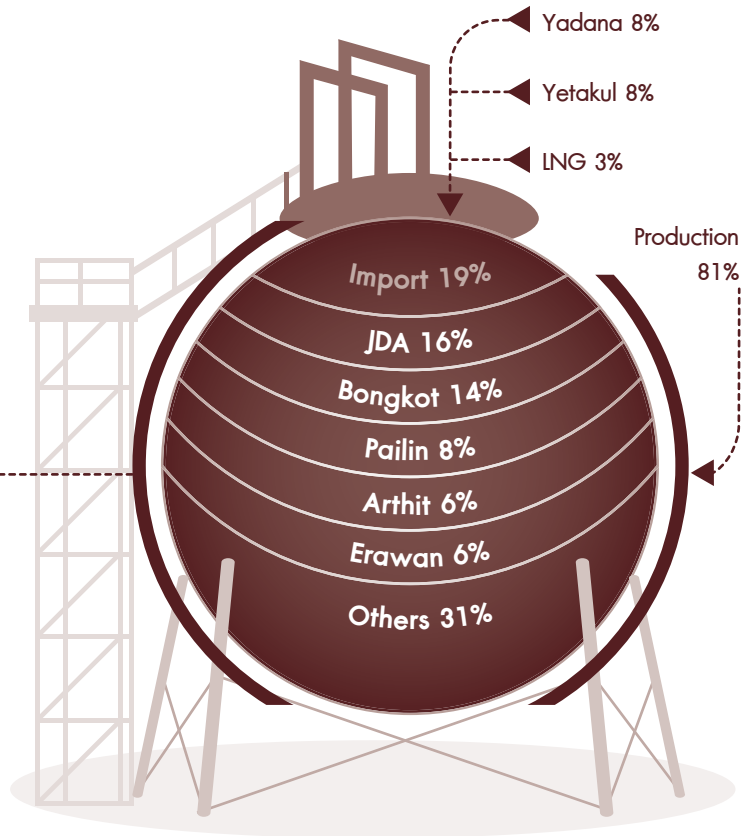
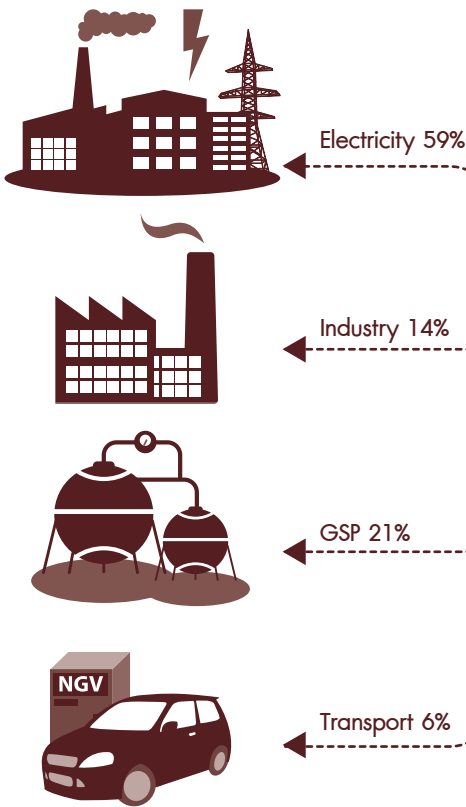
Unit : Thousand Tons

Description	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total Supply	3,011	3,428	3,434	3,607	3,821	4,177	4,159	4,469	4,807	5,221	6,008	6,859	7,779
- Production	3,011	3,428	3,434	3,607	3,818	4,177	4,159	4,469	4,355	4,467	4,416	5,422	6,049
GSP	1,401	1,785	1,850	1,918	1,960	2,397	2,357	2,667	2,664	2,695	2,676	3,428	4,078
Refinery	1,283	1,480	1,421	1,478	1,650	1,581	1,585	1,567	1,688	1,770	1,730	1,994	1,971
Others	327	164	163	211	208	199	218	236	3	2	10		
- Import					3				452	753	1,591	1,437	1,730
Total Demand	2,954	3,339	3,310	3,505	3,662	4,047	4,094	4,393	4,810	5,223	6,012	6,906	7,396
- Consumption	2,284	2,569	2,624	2,735	2,772	3,099	3,518	4,116	4,788	5,208	5,987	6,890	7,386
Cooking	1,348	1,430	1,468	1,502	1,513	1,604	1,721	1,884	2,124	2,231	2,435	2,656	3,047
Industry	319	335	399	435	450	459	521	611	665	593	778	718	614
Automobile	162	248	229	210	225	303	459	572	776	666	680	920	1,061
Feedstock	455	556	528	588	584	711	698	798	759	1,056	1,527	2,113	1,613
Own Used						22	119	251	466	662	567	483	1,051
- Feedstock						22	69	170	335	422	354	353	942
- Energy							49	81	130	240	213	131	110
- Export	670	770	686	770	890	948	576	278	21	15	25	16	10
Balance (Supply-Demand)	57	89	124	102	159	130	65	76	-2	-2	-4	-47	383

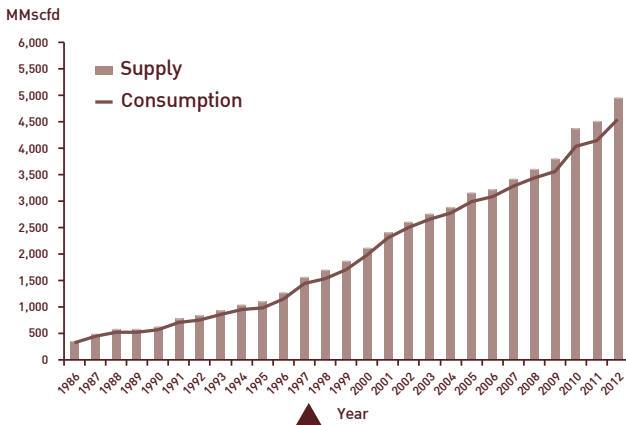
Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including own used as feedstock of IRPC and PTTGC

Natural Gas

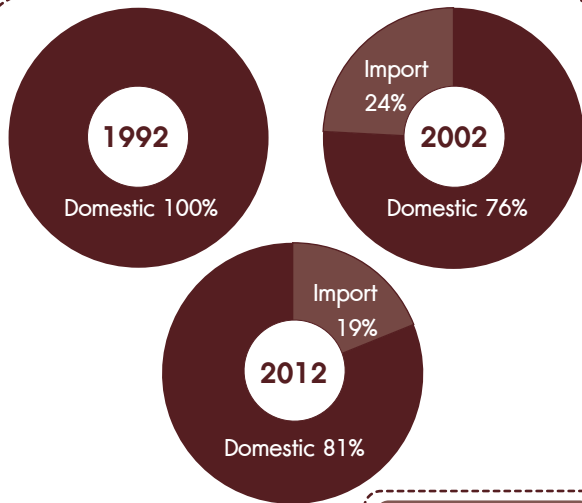
Share of Natural Gas Consumption



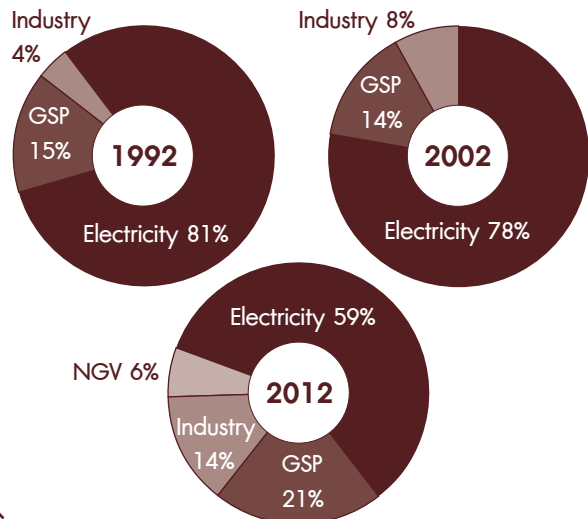
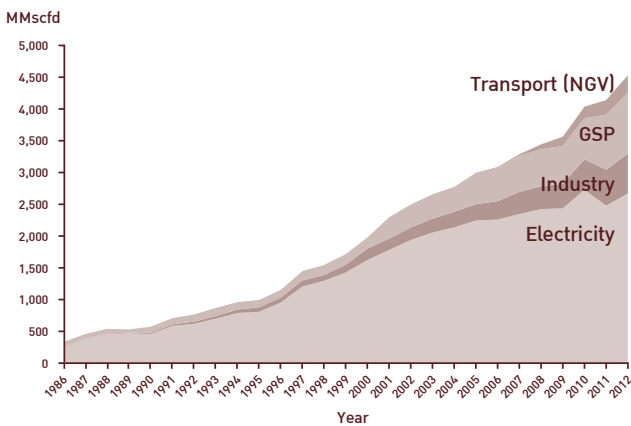
Natural Gas Supply and Consumption



$$\text{Supply} = \text{Production} + \text{Import}$$



Natural Gas Consumption by Sector





CHAPTER
บทที่



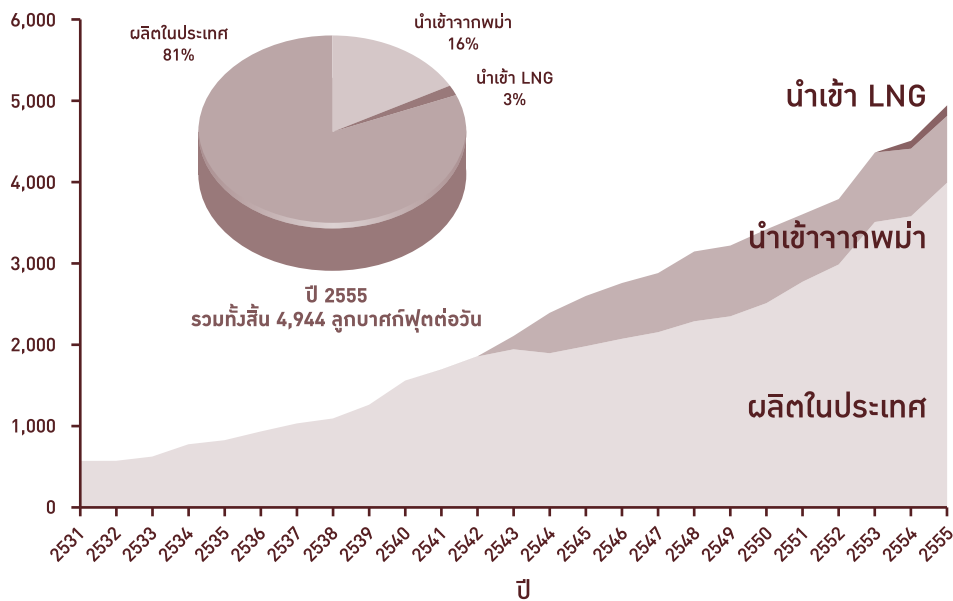
Natural Gas
ก๊าซธรรมชาติ

ก๊าซธรรมชาติ

การจัดการก๊าซธรรมชาติ ประเทศไทยเริ่มผลิตก๊าซธรรมชาติในปี 2524 จากแหล่งเอราวัณ แต่ในปัจจุบันมีแหล่งก๊าซธรรมชาติที่สำคัญเพิ่มขึ้นอีกหลายแหล่ง ได้แก่ แหล่งบงกช เจดีเอ อาทิตย และ ไพลิน โดยในปี 2555 การผลิตก๊าซธรรมชาติในประเทศอยู่ที่ระดับ 3,994 ล้านลูกบาศก์ฟุตต่อวัน คิดเป็นสัดส่วนร้อยละ 81 ส่วนที่เหลือร้อยละ 19 เป็นการนำเข้าจากต่างประเทศ ซึ่งแบ่งเป็นการนำเข้าจากพม่า 820 ล้านลูกบาศก์ฟุตต่อวัน และเป็นการนำเข้า LNG จำนวน 130 ล้านลูกบาศก์ฟุตต่อวัน รวมเป็นการจัดหาทั้งสิ้น 4,944 ล้านลูกบาศก์ฟุตต่อวัน ทั้งนี้ประเทศไทยเริ่มมีการนำเข้า LNG เป็นครั้งแรกในเดือนพฤษภาคม 2554

การจัดการก๊าซธรรมชาติ

ล้านลูกบาศก์ฟุตต่อวัน

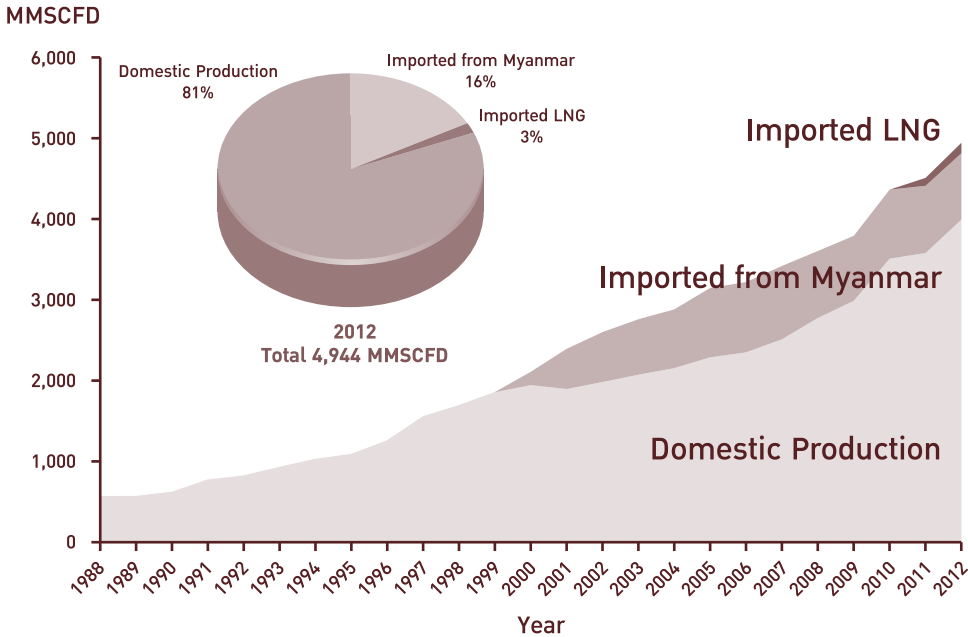


การใช้ก๊าซธรรมชาติ ในปี 2555 มีปริมาณการใช้ทั้งสิ้น 4,534 ล้านลูกบาศก์ฟุตต่อวัน ก๊าซธรรมชาติจะถูกนำไปใช้ในการผลิตไฟฟ้ามากที่สุดคือร้อยละ 59 ส่วนที่เหลือเป็นการใช้ในโรงแยกก๊าซ ร้อยละ 21 อุตสาหกรรม ร้อยละ 14 และใช้ในการขนส่ง (CNG) ร้อยละ 6

Natural Gas

Natural Gas Supply. Natural gas production in Thailand began in 1981 from Erawan field; to date, additional major gas fields have been discovered, comprising Bong Kot, JDA (Thailand-Malaysia Joint Development Area), Arthit and Pailin. In 2012, domestic natural gas production was at a level of 3,994 million standard cubic feet per day (MMSCFD), accounting for a share of 81%; the remaining 19% was imported from Myanmar 820 MMSCFD and imported LNG 130 MMSCFD, making a total natural gas supply of the country at 4,944 MMSCFD. There was LNG imported in Thailand starting in May 2011.

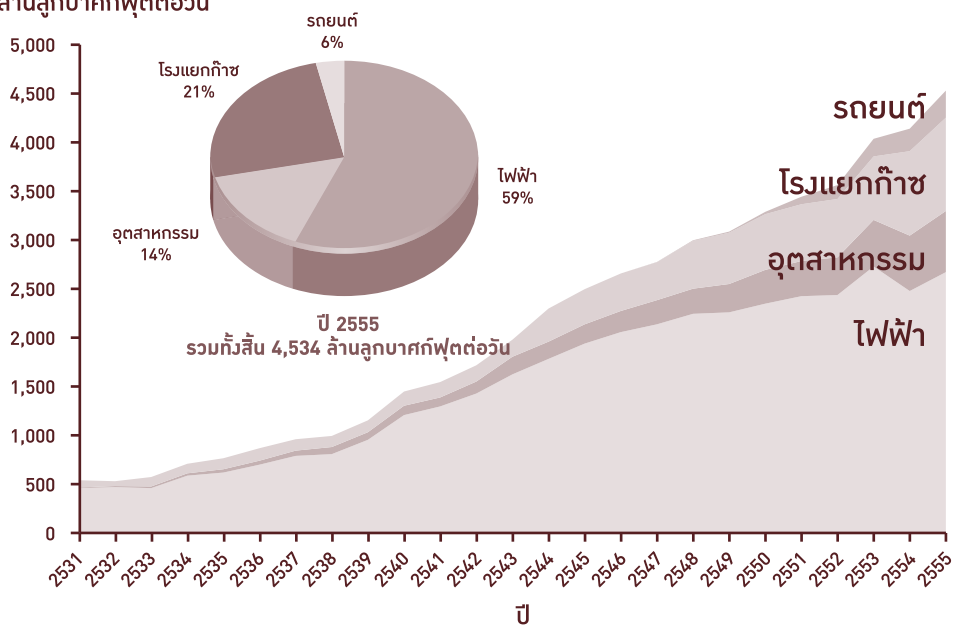
Natural Gas Supply



Natural Gas Consumption. The total volume of natural gas consumption in 2012 was 4,534 MMSCFD. Natural gas was mainly used as fuel in power generation, holding a share of 59% of the total consumption in the year. The remainder was used in the following: gas separation plants, at a share of 21%; the industrial sector, 14%; and the transport (CNG), 6%.

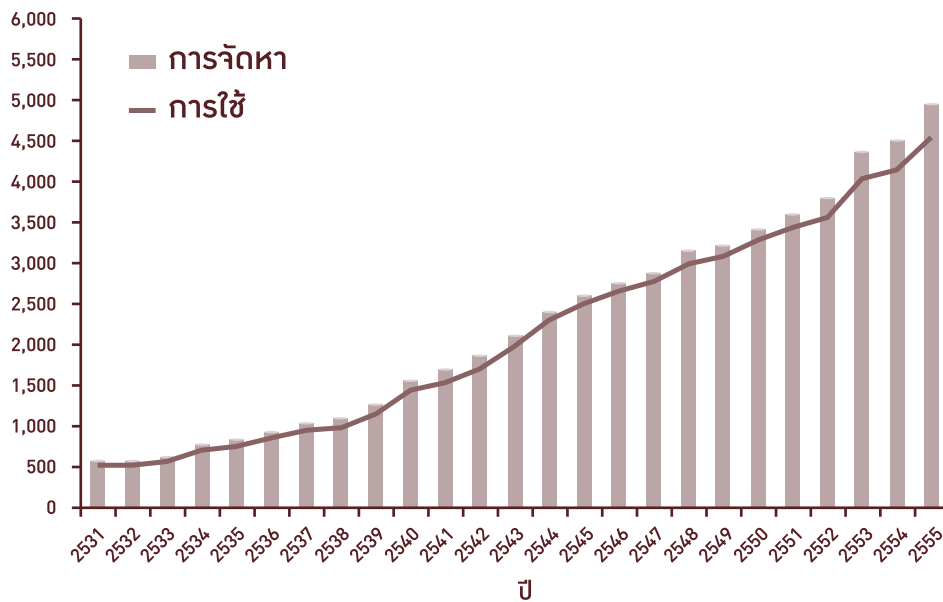
การใช้ก๊าซธรรมชาติรายสาขา

ล้านลูกบาศก์ฟุตต่อวัน

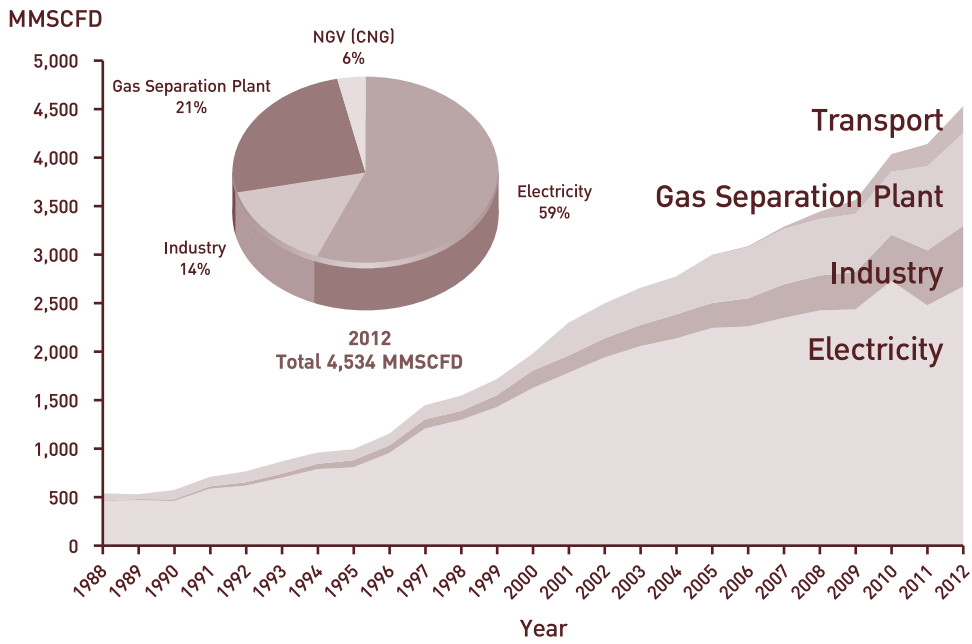


การจัดการและการใช้ก๊าซธรรมชาติ

ล้านลูกบาศก์ฟุตต่อวัน



Natural Gas Consumption by Sector



Natural Gas

Natural Gas Supply and Consumption

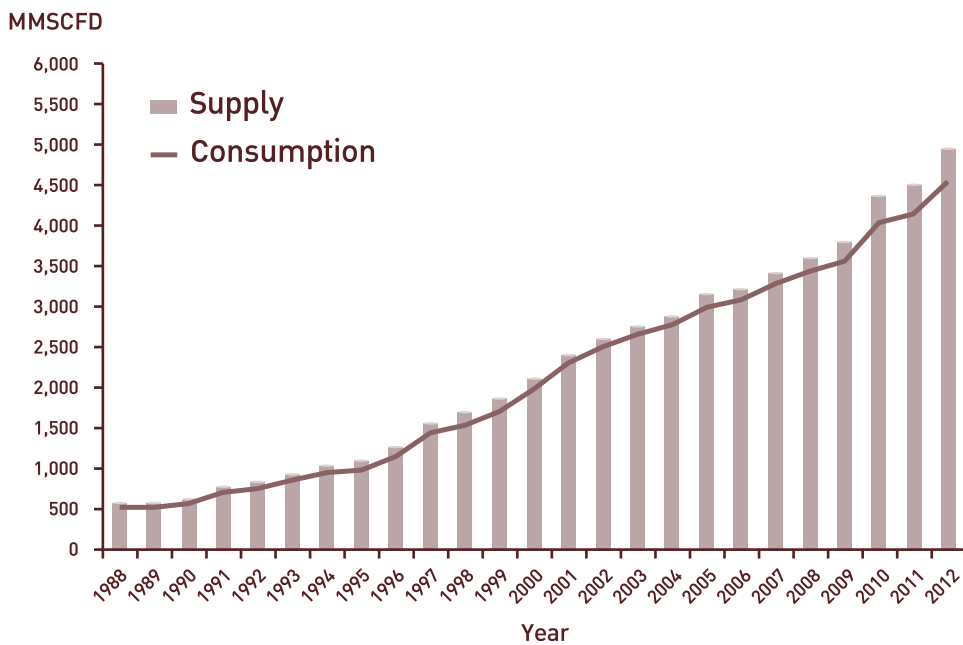


Table 3.1-1Y
Production and Import of Natural Gas

Unit : MMSCFD

Year	Domestic Production											Import					Grand Total		
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total	Yadana		Yetakun	LNG
1988	30			216		197								134	578				578
1989	32			221		196								129	579				579
1990	41			231		201								158	631				631
1991	43		51	284		212								192	782				782
1992	50		57	253		206		128						138	832				832
1993	56		56	290		197		162		70				110	939				939
1994	65		63	267		198		160		202				82	1,038				1,038
1995	68		64	285		195	2	152		237				95	1,099				1,099
1996	60		65	268		203	49	160		336				126	1,267				1,267
1997	61		79	294		219	50	209		344				307	1,564				1,564
1998	55		90	299		211	25	246		437				335	1,698	2			1,700
1999	56	27	93	306	61	171	16	253		578				299	1,860	2		2	1,861
2000	59	97	71	278	234	125	24	208		548				304	1,948	128		36	2,113
2001	57	118	60	266	212	118	9	199		584				275	1,900	377		119	496
2002	56	152	59	266	298	114	9	228		566		11		229	1,986	418		199	617
2003	55	169	50	281	406	96	45	189		516		30		241	2,077	410		275	686
2004	54	147	35	274	412	104	64	187		597		24		259	2,158	439		287	726
2005	60	157	33	277	435	118	47	221		605		41		297	2,292	431		426	857
2006	50	159	31	278	438	90	27	263		627		41		343	2,353	452		417	869
2007	46	172	26	278	457	108	13	309		629		65		319	2,515	473		433	906
2008	41	147	23	275	431	101	14	286		604		100		268	2,778	434		394	828
2009	54	86	20	244	417	64	24	177		540		110		315	2,990	409		394	803
2010	63	76	18	256	430	82	85	87		596		95		374	3,511	434		419	853
2011	43	86	16	239	411	111	95	84		606		56		487	3,581	426		404	928
2012	45	46	14	255	361	163	85	94		869		55		802	3,994	423		397	950

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-1Y
Distribution of NGL

Year	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
1988		131	6	138		826,823	39,455	866,279		2,259	107	2,366
1989		75	4	79		470,285	25,025	495,310		1,288	68	1,357
1990	5	133	2	140	30,442	836,226	11,708	878,376	83	2,291	32	2,406
1991	85	113	12	211	537,469	712,688	74,725	1,324,883	1,472	1,952	204	3,629
1992	152	47	20	219	953,609	295,856	125,815	1,375,281	2,605	808	343	3,757
1993	140	73	31	244	879,449	461,695	195,308	1,536,452	2,409	1,264	535	4,209
1994	67	113	43	223	419,846	711,359	273,465	1,404,672	1,150	1,948	749	3,848
1995	96	94	37	227	602,360	588,716	234,949	1,426,026	1,650	1,612	643	3,906
1996	33	165	57	255	205,600	1,040,130	358,172	1,603,903	561	2,841	978	4,382
1997	153	28	154	335	961,815	175,920	968,882	2,106,618	2,635	481	2,654	5,771
1998	178	18	164	360	1,118,416	113,311	1,031,602	2,263,330	3,064	310	2,826	6,200
1999	199	27	171	396	1,249,394	169,719	1,073,063	2,492,177	3,423	464	2,939	6,827
2000	149	23	331	503	938,176	146,385	2,079,331	3,163,893	2,563	399	5,681	8,644
2001	106	55	395	556	669,375	343,469	2,482,794	3,495,640	1,833	941	6,802	9,577
2002	57		489	546	358,911		3,077,307	3,436,219	983		8,430	9,414
2003	49	107	486	642	310,746	675,638	3,054,569	4,040,954	851	1,851	8,368	11,071
2004	79	116	429	624	499,812	728,529	2,695,422	3,923,764	1,365	1,990	7,364	10,720
2005	176	6	543	724	1,106,817	34,611	3,415,103	4,556,531	3,032	94	9,356	12,483
2006	129	57	547	733	808,290	359,473	3,441,850	4,609,614	2,214	984	9,429	12,629
2007	133	6	650	789	834,411	38,387	4,090,011	4,962,810	2,286	105	11,205	13,596
2008	142		672	814	894,079		4,226,379	5,120,458	2,442		11,547	13,990
2009	114		676	790	717,208		4,253,688	4,970,897	1,964		11,653	13,618
2010	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962
2011	203		777	979	1,275,883		4,884,661	6,160,545	3,495		13,382	16,878
2012	300		802	1,101	1,884,687		5,041,486	6,926,173	5,163		13,812	18,975

Source : PTT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2Y
Consumption of Natural Gas by Sector

Unit : MMSCFD

Year	Electricity				Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP	Total				
1988	452			452	7	74		532
1989	463			463	10	50		523
1990	452			452	17	97		567
1991	580			580	24	98		702
1992	612			612	34	113		759
1993	693			693	41	128		862
1994	783			783	54	117		954
1995	801			801	73	114		988
1996	888		60	948	78	122		1,148
1997	1,119		83	1,202	96	146		1,444
1998	1,152		140	1,291	92	158		1,542
1999	1,153	2	267	1,423	123	167		1,713
2000	1,244	71	305	1,620	181	175		1,976
2001	1,070	360	349	1,779	177	340		2,296
2002	1,075	486	375	1,936	198	361		2,495
2003	991	662	401	2,054	217	385		2,657
2004	994	723	418	2,134	248	389	3	2,774
2005	1,011	802	428	2,242	258	491	6	2,997
2006	1,016	825	417	2,257	291	527	11	3,086
2007	1,054	847	445	2,346	347	572	24	3,288
2008	1,014	968	441	2,423	361	583	77	3,444
2009	1,101	905	429	2,435	387	599	143	3,564
2010	1,346	943	440	2,728	478	652	181	4,039
2011	1,148	866	462	2,476	569	867	231	4,143
2012	1,330	922	419	2,670	628	958	278	4,534

Remark : Heat value of NG = 1,000 BTU/SCF

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-3Y
Consumption Share of Natural Gas by Sector

Year	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
1988	452	7	74		532	84.9	1.3	13.8		100.0
1989	463	10	50		523	88.6	1.8	9.6		100.0
1990	452	17	97		567	79.8	3.1	17.1		100.0
1991	580	24	98		702	82.5	3.5	14.0		100.0
1992	612	34	113		759	80.6	4.4	14.9		100.0
1993	693	41	128		862	80.4	4.7	14.8		100.0
1994	783	54	117		954	82.1	5.6	12.3		100.0
1995	801	73	114		988	81.1	7.4	11.6		100.0
1996	948	78	122		1,148	82.5	6.8	10.7		100.0
1997	1,202	96	146		1,444	83.2	6.7	10.1		100.0
1998	1,291	92	158		1,542	83.8	6.0	10.3		100.0
1999	1,423	123	167		1,713	83.1	7.2	9.8		100.0
2000	1,620	181	175		1,976	82.0	9.2	8.9		100.0
2001	1,779	177	340		2,296	77.5	7.7	14.8		100.0
2002	1,936	198	361		2,495	77.6	8.0	14.4		100.0
2003	2,054	217	385		2,657	77.3	8.2	14.5		100.0
2004	2,134	248	389	3	2,774	76.9	8.9	14.0	0.1	100.0
2005	2,242	258	491	6	2,997	74.8	8.6	16.4	0.2	100.0
2006	2,257	291	527	11	3,086	73.2	9.4	17.1	0.4	100.0
2007	2,346	347	572	24	3,288	71.3	10.6	17.4	0.7	100.0
2008	2,423	361	583	77	3,444	70.4	10.5	16.9	2.2	100.0
2009	2,435	387	599	143	3,564	68.3	10.9	16.8	4.0	100.0
2010	2,728	478	652	181	4,039	67.6	11.8	16.1	4.5	100.0
2011	2,476	569	867	231	4,143	59.8	13.7	20.9	5.6	100.0
2012	2,670	628	958	278	4,534	58.9	13.8	21.1	6.1	100.0

Remark : Heat value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-4
Consumption of Compressed Natural Gas (CNG)

Year	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Liters)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2008	104,553	23,182	127,735	13,416	14,873	28,289	77	445	381	826
Jan	53,542	6,873	60,415	776	498	1,274	41	24	14	38
Feb	57,666	7,603	65,269	815	537	1,352	47	25	15	40
Mar	60,272	8,853	69,125	923	678	1,601	52	29	18	47
Apr	63,016	9,903	72,919	955	750	1,705	57	30	20	50
May	66,245	11,265	77,510	1,052	895	1,947	63	33	24	57
Jun	70,914	13,247	84,161	1,115	1,041	2,156	72	35	28	63
Jul	78,099	16,233	94,332	1,263	1,312	2,575	83	39	36	75
Aug	85,307	18,470	103,777	1,363	1,476	2,839	91	42	40	83
Sep	91,999	20,655	112,654	1,384	1,553	2,937	98	43	42	85
Oct	96,097	22,031	118,128	1,540	1,765	3,305	107	48	48	96
Nov	99,764	22,812	122,576	1,514	1,730	3,244	108	47	47	94
Dec	104,553	23,182	127,735	1,591	1,763	3,354	108	50	48	98
2009	133,777	28,246	162,023	25,338	26,750	52,088	143	797	721	1,518
Jan	107,932	23,503	131,435	1,732	1,885	3,617	117	54	51	105
Feb	116,299	23,726	140,025	1,837	1,874	3,711	133	57	51	108
Mar	117,348	23,987	141,335	2,112	2,158	4,270	138	66	59	124
Apr	118,350	24,142	142,492	1,870	1,908	3,778	126	58	52	110
May	119,543	24,324	143,867	2,051	2,087	4,138	133	64	57	121
Jun	121,925	24,716	146,641	2,108	2,137	4,245	142	66	58	124
Jul	124,252	25,213	149,465	2,194	2,227	4,421	143	68	61	129
Aug	126,161	25,777	151,938	2,296	2,345	4,641	150	71	64	135
Sep	128,284	26,330	154,614	2,232	2,290	4,522	151	69	62	132
Oct	128,924	27,278	156,202	2,322	2,457	4,779	154	72	67	139
Nov	132,183	27,835	160,018	2,325	2,449	4,774	159	72	67	139
Dec	133,777	28,246	162,023	2,526	2,666	5,192	167	79	73	151
2010	191,233	34,435	225,668	34,765	31,301	66,066	181	1,042	888	1,929
Jan	136,780	28,687	165,467	2,334	2,447	4,781	154	73	67	139
Feb	140,052	29,022	169,074	2,357	2,442	4,799	171	73	67	140
Mar	143,944	29,533	173,477	2,693	2,763	5,456	176	84	75	159
Apr	147,431	29,921	177,352	2,457	2,493	4,950	165	76	68	144
May	151,313	30,384	181,697	2,583	2,594	5,177	167	80	71	151
Jun	156,849	30,892	187,741	2,736	2,694	5,430	181	85	73	159
Jul	161,866	31,486	193,352	2,813	2,736	5,549	179	88	75	162
Aug	166,981	32,135	199,116	2,859	2,752	5,611	181	89	75	164
Sep	172,763	32,754	205,517	2,926	2,774	5,700	191	91	76	167
Oct	178,055	33,313	211,368	3,091	2,892	5,983	190	96	79	175
Nov	185,113	33,877	218,990	3,196	2,924	6,120	204	99	80	179
Dec	191,233	34,435	225,668	3,426	3,084	6,510	210	107	84	191

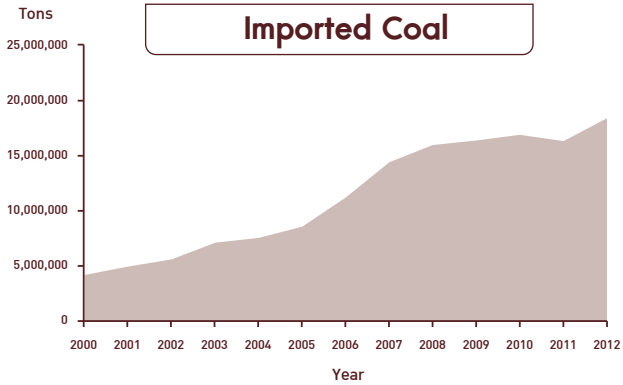
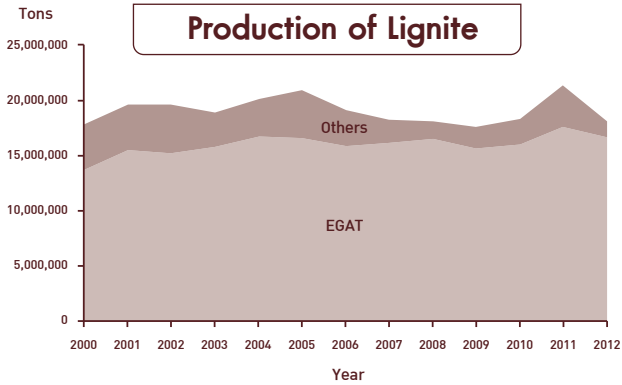
**Table 3.2-4 (Cont.)
Consumption of Compressed Natural Gas (CNG)**

Year	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Liters)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2011	260,520	40,061	300,581	47,590	36,591	84,181	231	1,443	1,030	2,473
Jan	196,792	34,924	231,716	3,400	3,017	6,417	207	106	82	188
Feb	203,099	35,451	238,550	3,439	3,001	6,440	230	107	82	189
Mar	209,986	36,080	246,066	3,852	3,309	7,161	231	120	90	210
Apr	215,140	36,513	251,653	3,489	2,961	6,450	215	109	81	189
May	222,536	37,024	259,560	4,028	3,350	7,378	238	125	91	217
Jun	230,100	37,598	267,698	4,062	3,318	7,380	246	126	90	217
Jul	237,104	38,135	275,239	4,158	3,344	7,502	242	129	91	220
Aug	244,732	38,699	283,431	4,293	3,395	7,688	248	134	92	226
Sep	251,986	39,194	291,180	4,185	3,255	7,440	248	130	89	219
Oct	255,090	39,504	294,594	3,879	3,003	6,882	222	121	82	202
Nov	256,183	39,757	295,940	3,328	2,582	5,910	197	104	70	174
Dec	260,520	40,061	300,581	4,259	3,274	7,533	243	133	89	222
2012	331,943	42,914	374,857	61,877	39,998	101,875	278	1,853	1,153	3,006
Jan	264,854	40,395	305,249	4,696	3,581	8,277	267	146	98	244
Feb	269,686	40,692	310,378	4,562	3,442	8,004	276	142	94	236
Mar	273,566	41,052	314,618	4,941	3,708	8,649	279	154	101	255
Apr	276,843	41,400	318,243	4,463	3,337	7,800	260	139	91	230
May	281,582	41,610	323,192	4,956	3,662	8,618	278	154	100	254
Jun	286,852	41,781	328,633	4,808	3,502	8,310	277	150	95	245
Jul	293,637	41,996	335,633	4,898	3,503	8,401	271	152	95	248
Aug	300,430	42,191	342,621	5,154	3,619	8,773	283	160	99	259
Sep	310,263	42,389	352,652	5,062	3,458	8,520	284	158	94	252
Oct	317,956	42,573	360,529	5,292	3,543	8,835	285	165	96	261
Nov	325,054	42,762	367,816	5,284	3,476	8,760	292	164	95	259
Dec	331,943	42,914	374,857	5,423	3,505	8,928	288	169	95	264

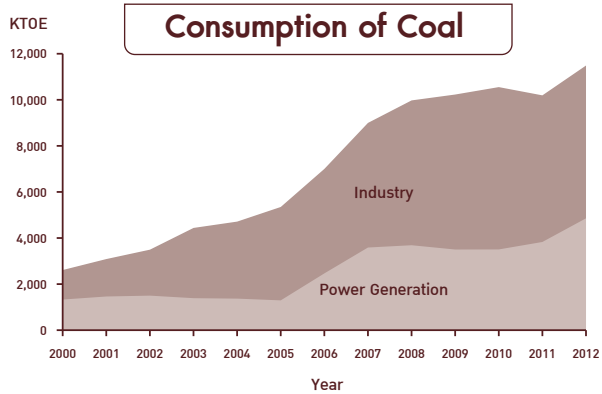
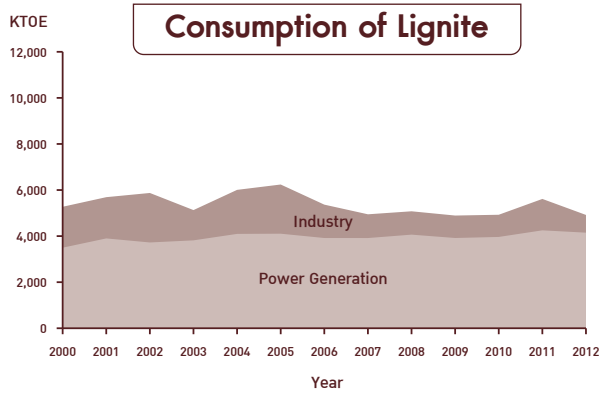
Lignite/Coal



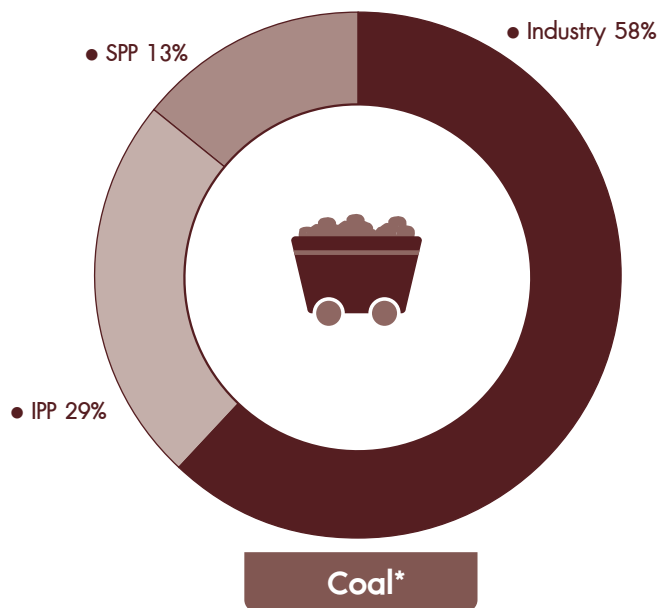
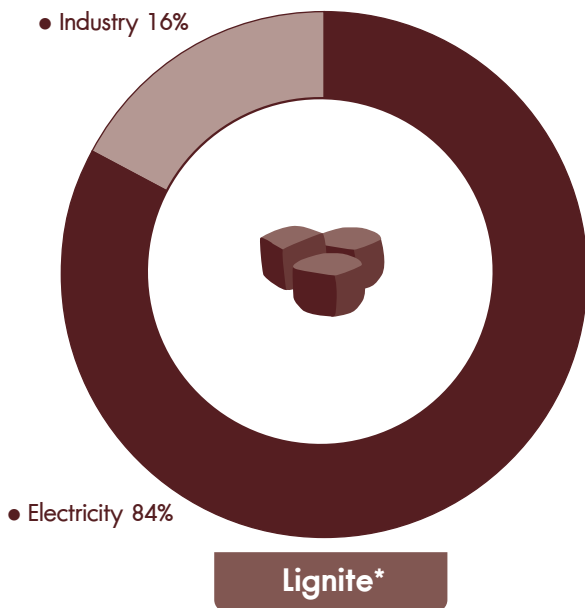
Supply



Demand



Share of Lignite & Coal Consumption 2012



*Based on the calorific value.



CHAPTER
บทที่

4

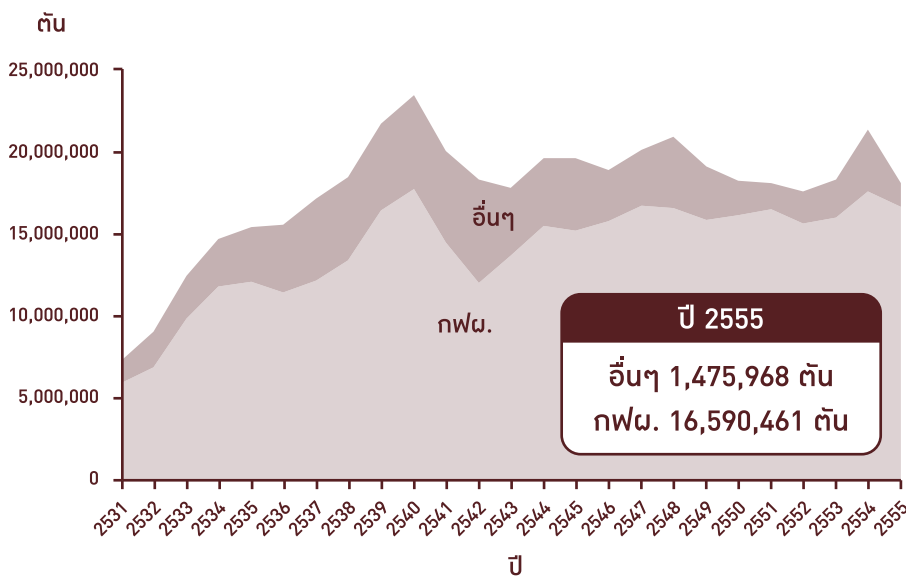
Lignite/Coal
ลิกไนต์/ถ่านหิน

ลิกไนต์/ถ่านหิน

การผลิตลิกไนต์ในประเทศไทย ผลิตได้จาก 2 ผู้ผลิตหลัก คือ เหมืองของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และเหมืองของบริษัทเอกชน โดยเหมืองของ กฟผ. ประกอบด้วย เหมืองแม่เมาะ จังหวัดลำปาง และเหมืองกระบี่ จังหวัดกระบี่ โดยเหมืองกระบี่ได้หยุดการผลิตแล้วตั้งแต่วันที่ 2551 ส่วนลิกไนต์ที่ผลิตจากเหมืองแม่เมาะทั้งหมดจะถูกนำไปใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของโรงไฟฟ้าแม่เมาะ สำหรับลิกไนต์ที่ผลิตจากเหมืองของบริษัทเอกชน ปัจจุบันเริ่มชะลอตัวลงเนื่องจากแหล่งสัมปทานสำคัญ ๆ ภายในประเทศทยอยหมดลง ทั้งนี้ลิกไนต์ที่ผลิตจากเหมืองเอกชนส่วนใหญ่จะนำไปใช้เป็นเชื้อเพลิงในภาคอุตสาหกรรม

ในปี 2555 มีปริมาณการผลิตลิกไนต์ในประเทศไทยรวมทั้งสิ้น 18,066,429 ตัน โดยร้อยละ 92 เป็นการผลิตจากเหมืองแม่เมาะของ กฟผ. ส่วนที่เหลือร้อยละ 8 เป็นการผลิตจากเหมืองของภาคเอกชน

การผลิตลิกไนต์



การใช้ลิกไนต์และถ่านหิน ในปี 2555 มีสัดส่วนการใช้ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงในการผลิตไฟฟ้าและภาคอุตสาหกรรม คิดเป็นสัดส่วนร้อยละ 55 และร้อยละ 45 ตามลำดับ (คิดจากค่าความร้อน) โดยภาคอุตสาหกรรมใช้ในอุตสาหกรรมผลิตปูนซีเมนต์ในกระบวนการผลิตปูนเม็ด (Clinker) และใช้ในอุตสาหกรรมที่ใช้หม้อไอน้ำเป็นหลัก เช่น อุตสาหกรรมกระดาษ อุตสาหกรรมอาหาร อุตสาหกรรมสิ่งทอ ฯลฯ

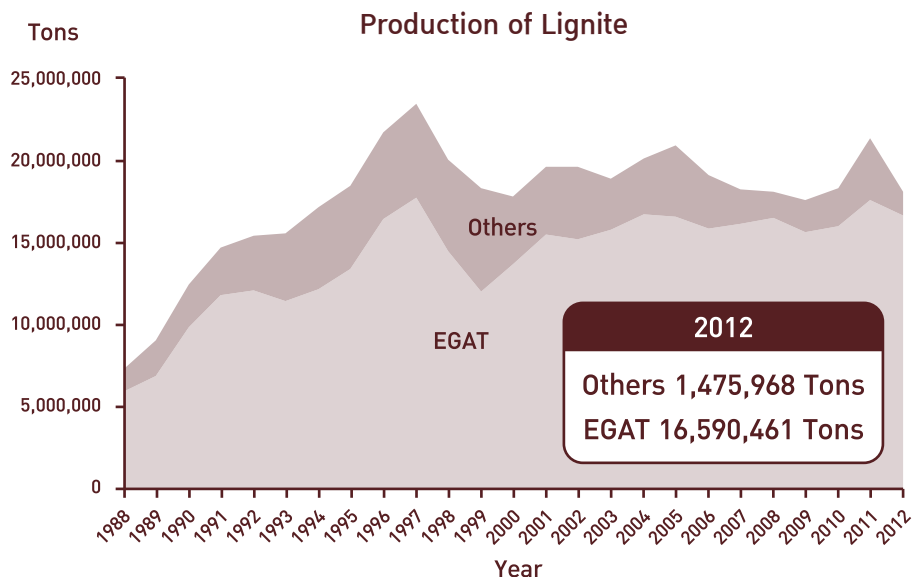
ในปี 2555 มีการใช้ลิกไนต์ในการผลิตไฟฟ้าคิดเป็นสัดส่วนร้อยละ 25.3 ที่เหลือใช้ในภาคอุตสาหกรรม คิดเป็นร้อยละ 4.7 ส่วนถ่านหินใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของ IPP ร้อยละ 20.4 SPP ร้อยละ 9.2 และใช้เป็นเชื้อเพลิงในภาคอุตสาหกรรมร้อยละ 40.4

Lignite/Coal

Domestic Lignite Production. Domestic lignite production came from two major sources – one was from the mines belonging to the Electricity Generating Authority of Thailand (EGAT) and the other was from mines belonging to private producers. EGAT's sources comprised the production from Mae Moh mine in Lampang province (in northern Thailand) and Krabi mine in Krabi province (in the South of the country). Lignite produced from Mae Moh mine would be entirely used as fuel for power generation at Mae Moh Power Plant while that from Krabi mine would serve the demand in the industrial sector. However, the production at Krabi mine had diminished substantially in output and was eventually discontinued in 2008.

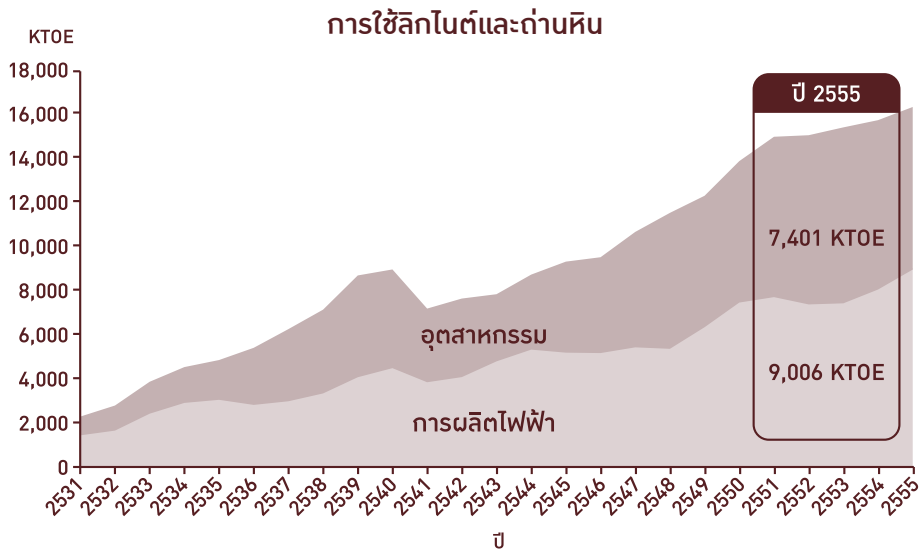
As for lignite production from the mines of private producers, the production volume gradually dropped off because major domestic lignite concessions expired one after another. Most of the lignite produced from private sector mines was used in such industries as cement, paper, food and textile.

In 2012, lignite production in the country a total of 18,066,429 tons by 92% was from EGAT's Mae Moh mine. The remaining 8% was from the mines of private sector.

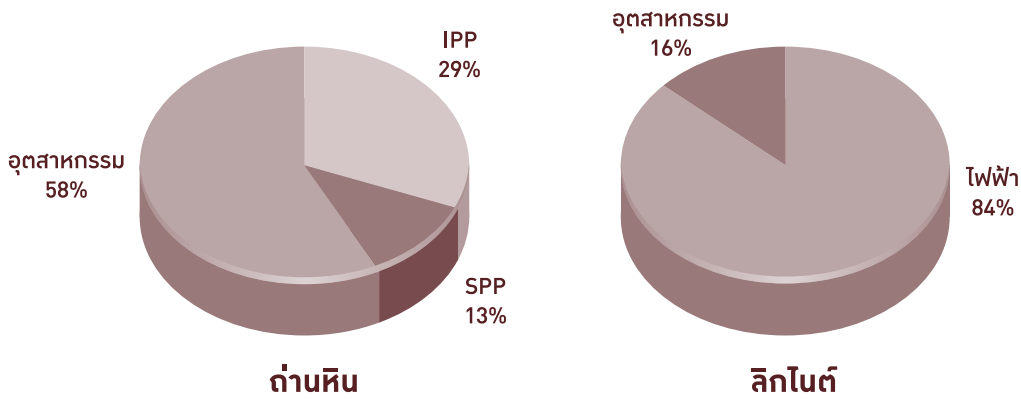


Lignite and Coal Consumption. In 2012, the shares of coal/lignite consumption as fuel in the power generation sector and the industrial sector (based on the calorific value) were 55% and 45% respectively. Coal demand in the industrial sector was growing, mainly by clinker production and industries using boilers.

Lignite was mainly used for power generation, accounting for a share of 25.3%; the remaining 4.7% was used in the industrial sector. As for coal, 20.4% was used as fuel in power generation by Independent Power Producers (IPP), 9.2% by Small Power Producers (SPP), and 40.4% was used as fuel in the industrial sector.

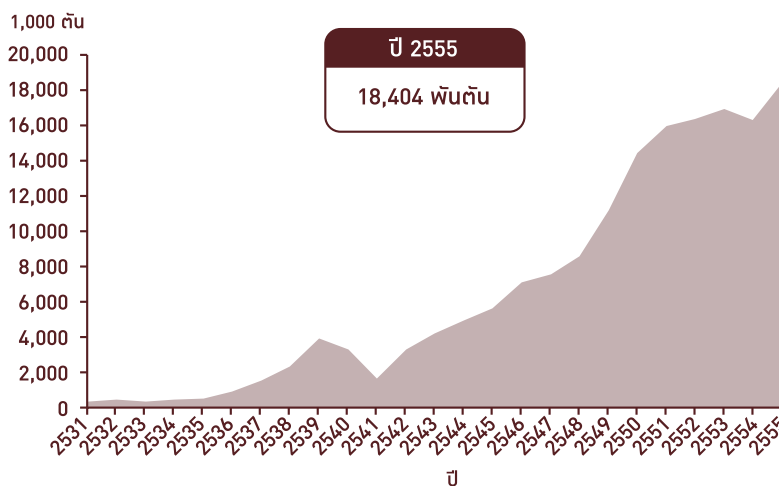


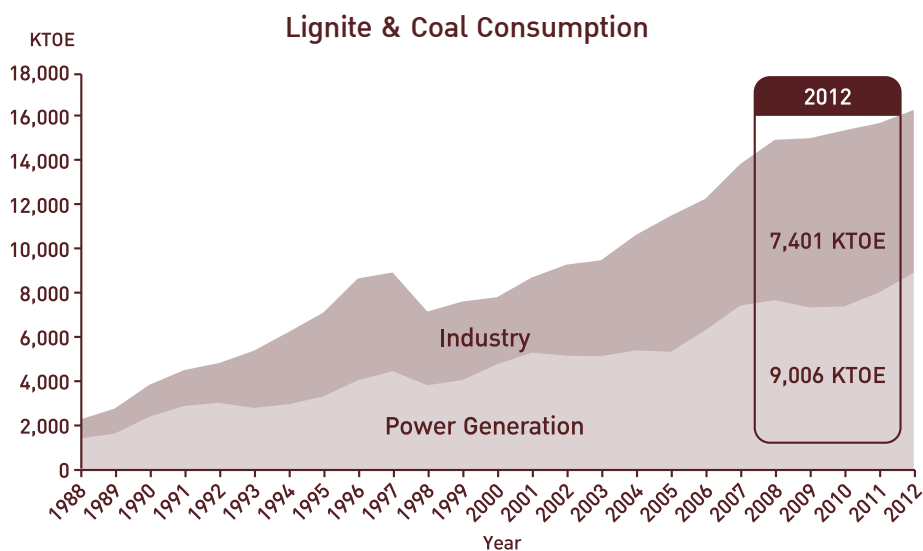
สัดส่วนการใช้ลิกไนต์และถ่านหินในปี 2555



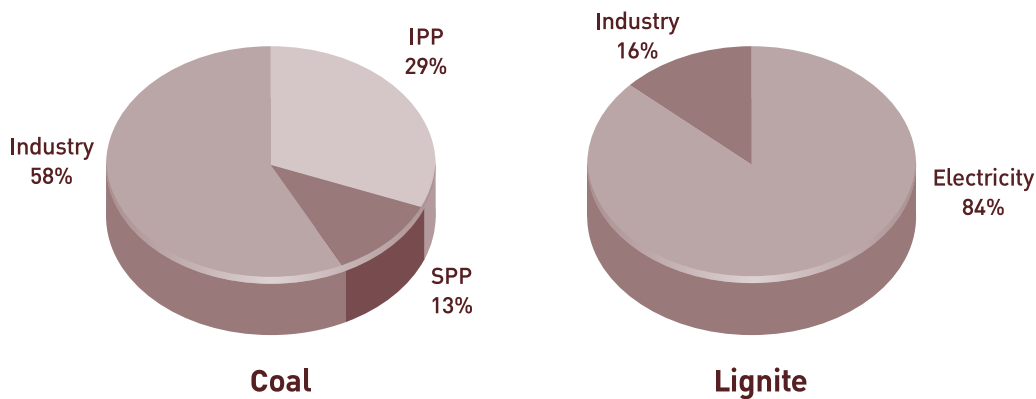
การนำเข้าถ่านหิน ปริมาณการนำเข้าถ่านหินมีแนวโน้มเพิ่มขึ้นอย่างต่อเนื่อง สาเหตุจากความต้องการใช้ถ่านหินที่เพิ่มขึ้นทำให้ปริมาณถ่านหินในประเทศมีไม่เพียงพอต่อความต้องการ ประกอบกับแหล่งสัมปทานลิกไนต์ภายในประเทศทยอยหมดลง รวมทั้งถ่านหินนำเข้ามีค่าความร้อนสูงและมีกำมะถันน้อยเมื่อเทียบกับถ่านหินที่ผลิตได้ภายในประเทศ และราคาถ่านหินถูกกว่าเมื่อเทียบกับพลังงานชนิดอื่น ทั้งนี้ ถ่านหินนำเข้าที่ใช้ในประเทศส่วนใหญ่เป็นถ่านหินประเภท Sub-Bituminous และ Bituminous มีเพียงเล็กน้อยที่เป็นถ่านหินประเภท Anthracite และ Briquettes โดยถ่านหินนำเข้า (Sub-Bituminous) จะมีค่าความร้อนตั้งแต่ 5,000 - 6,000 กิโลแคลอรี/กิโลกรัม

การนำเข้าถ่านหิน





Share of Lignite & Coal Consumption 2012



Coal Import. Most of imported coal used in Thailand is of sub-bituminous and bituminous categories; only a small amount is anthracite and briquette. The calorific or heating value of imported coal (sub-bituminous) will be in a range of 5,000 – 6,000 kilocalories per kilogram (kcal/kg). The amount of coal imports increased continuously because domestic lignite concessions came to expiry one after another and because the price of coal was cheaper when compared with other energy types.

Imported Coal

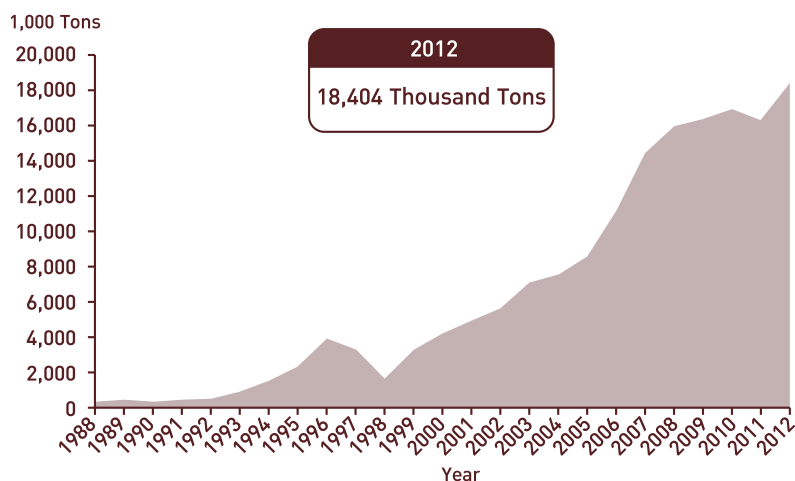


Table 4.1 - 1Y
Production and Consumption of Lignite

Unit : Ton

Year	Mae-Moh		Krabi		Total EGAT		Others		Nationwide	
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
1988	5,717,250	5,681,773	237,396	213,979	5,954,646	5,895,752	1,340,413	1,316,064	7,295,059	7,211,816
1989	6,541,191	6,545,093	318,585	219,113	6,859,776	6,764,205	2,150,146	1,799,380	9,009,922	8,563,586
1990	9,652,991	9,619,614	156,262	255,710	9,809,254	9,875,324	2,629,219	2,600,686	12,438,473	12,476,010
1991	11,513,775	11,504,708	242,699	219,983	11,756,475	11,724,691	2,889,540	2,934,445	14,646,015	14,659,135
1992	11,844,352	12,129,274	253,950	241,265	12,098,302	12,370,539	3,290,259	3,193,113	15,388,561	15,563,652
1993	11,221,088	11,239,942	211,800	249,845	11,432,888	11,489,787	4,105,039	4,222,966	15,537,927	15,712,753
1994	11,906,553	11,908,173	225,065	247,711	12,131,618	12,155,884	4,963,253	4,897,708	17,094,871	17,053,592
1995	13,191,880	13,374,488	144,232	193,006	13,336,112	13,567,494	5,084,686	4,939,136	18,420,798	18,506,630
1996	16,381,301	16,405,340			16,381,301	16,405,340	5,309,093	4,688,467	21,690,394	21,093,807
1997	17,692,415	18,010,806			17,692,415	18,010,806	5,746,141	5,235,659	23,438,556	23,246,465
1998	14,419,327	15,388,095			14,419,327	15,388,095	5,576,868	5,029,499	19,996,195	20,417,594
1999	12,021,265	13,893,584			12,021,265	13,893,584	6,240,043	4,610,512	18,261,308	18,504,096
2000	13,621,615	14,120,569	30,000		13,651,615	14,120,569	4,134,132	3,722,528	17,785,747	17,843,097
2001	15,314,436	15,744,116	133,000		15,447,436	15,744,116	4,159,559	3,753,746	19,606,995	19,497,862
2002	14,994,739	15,035,329	187,000		15,181,739	15,035,329	4,420,245	4,503,816	19,601,984	19,539,145
2003	15,591,841	15,406,532	146,000		15,737,841	15,406,532	3,105,554	2,753,089	18,843,395	18,159,621
2004	16,561,572	16,536,694	95,868		16,657,440	16,536,694	3,402,404	4,006,701	20,059,844	20,543,395
2005	16,534,142	16,571,091	36,522		16,570,664	16,571,091	4,307,512	4,475,747	20,878,176	21,046,838
2006	15,763,798	15,815,374	56,000		15,819,798	15,815,374	3,250,810	3,036,746	19,070,608	18,852,120
2007	16,117,809	15,811,050	27,112		16,144,921	15,811,050	2,094,255	2,159,379	18,239,176	17,970,429
2008	16,420,847	16,407,465	23,248		16,444,095	16,407,465	1,651,290	2,124,087	18,095,385	18,531,552
2009	15,631,766	15,818,265			15,631,766	15,818,265	1,934,334	2,042,529	17,566,100	17,860,794
2010	15,987,263	16,004,196			15,987,263	16,004,196	2,270,799	2,017,685	18,258,062	18,021,881
2011	17,558,336	17,161,168			17,558,336	17,161,168	3,768,770	2,856,989	21,327,106	20,018,157
2012	16,590,461	16,754,281			16,590,461	16,754,281	1,475,968	1,611,596	18,066,429	18,365,877

Source : Department of Primary Industries and Mines (DPIM), EGAT

Table 4.1-2Y
Consumption of Lignite and Coal Classified by Sector

Unit : 1,000 Tons

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1988			361	361	5,896	1,316	7,212	5,896	1,677	7,573
1989			455	455	6,764	1,799	8,564	6,764	2,254	9,019
1990			341	341	9,875	2,601	12,476	9,875	2,942	12,817
1991			470	470	11,856	2,804	14,659	11,856	3,273	15,129
1992			501	501	12,423	3,141	15,564	12,423	3,641	16,065
1993			936	936	11,490	4,223	15,713	11,490	5,159	16,649
1994			1,519	1,519	12,156	4,898	17,054	12,156	6,417	18,573
1995		12	2,335	2,347	13,567	4,939	18,507	13,579	7,275	20,854
1996		66	3,840	3,906	16,405	4,688	21,094	16,472	8,528	25,000
1997		92	3,197	3,289	18,011	5,236	23,246	18,103	8,432	26,535
1998		105	1,528	1,633	15,388	5,030	20,418	15,493	6,558	22,051
1999		1,073	2,205	3,278	13,894	4,611	18,504	14,966	8,616	21,782
2000		2,130	2,053	4,183	14,121	3,723	17,843	16,251	5,776	22,026
2001		2,342	2,603	4,945	15,744	3,754	19,498	18,086	6,357	24,443
2002		2,402	3,197	5,599	15,035	4,504	19,539	17,438	7,700	25,138
2003		2,225	4,885	7,110	15,407	2,753	18,160	17,632	7,638	25,270
2004		2,194	5,356	7,550	16,537	4,007	20,543	18,731	9,363	28,093
2005		2,073	6,495	8,568	16,571	4,476	21,047	18,644	10,971	29,615
2006	1,476	2,473	7,265	11,215	15,815	3,037	18,852	19,765	10,302	30,067
2007	3,697	2,051	8,665	14,414	15,811	2,159	17,970	21,559	10,825	32,384
2008	3,666	2,241	10,072	15,979	16,407	2,124	18,532	22,315	12,196	34,511
2009	3,645	1,965	10,778	16,388	15,818	2,043	17,861	21,428	12,821	34,248
2010	3,647	1,968	11,289	16,904	16,004	2,018	18,022	21,619	13,307	34,926
2011	3,855	2,280	10,196	16,331	17,161	2,857	20,018	23,296	13,053	36,349
2012	5,362	2,417	10,625	18,404	16,754	1,612	18,366	24,534	12,237	36,770
Fuel Share (%)										
1988			4.8	4.8	77.9	17.4	95.2	77.9	22.2	100.0
1989			5.1	5.1	75.0	20.0	95.0	75.0	25.0	100.0
1990			2.7	2.7	77.1	20.3	97.3	77.1	23.0	100.0
1991			3.1	3.1	78.4	18.5	96.9	78.4	21.6	100.0
1992			3.1	3.1	77.3	19.6	96.9	77.3	22.7	100.0
1993			5.6	5.6	69.0	25.4	94.4	69.0	31.0	100.0
1994			8.2	8.2	65.5	26.4	91.8	65.5	34.6	100.0
1995		0.1	11.2	11.3	65.1	23.7	88.7	65.1	34.9	100.0
1996		0.3	15.4	15.6	65.6	18.8	84.4	65.9	34.1	100.0
1997		0.4	12.1	12.4	67.9	19.7	87.6	68.2	31.8	100.0
1998		0.5	6.9	7.4	69.8	22.8	92.6	70.3	29.7	100.0
1999		4.9	10.1	15.1	63.8	21.2	85.0	68.7	31.3	100.0
2000		9.7	9.3	19.0	64.1	16.9	81.0	73.8	26.2	100.0
2001		9.6	10.7	20.2	64.4	15.4	79.8	74.0	26.0	100.0
2002		9.6	12.7	22.3	59.8	17.9	77.7	69.4	30.6	100.0
2003		8.8	19.3	28.1	61.0	10.9	71.9	69.8	30.2	100.0
2004		7.8	19.1	26.9	58.9	14.3	73.1	66.7	33.3	100.0
2005		7.0	21.9	28.9	56.0	15.1	71.1	63.0	37.0	100.0
2006	4.9	8.2	24.2	37.3	52.6	10.1	62.7	65.7	34.3	100.0
2007	11.4	6.3	26.8	44.5	48.8	6.7	55.5	66.6	33.4	100.0
2008	10.6	6.5	29.2	46.3	47.5	6.2	53.7	64.7	35.3	100.0
2009	10.6	5.7	31.5	47.9	46.2	6.0	52.2	62.6	37.4	100.0
2010	10.4	5.6	32.3	48.4	45.8	5.8	51.6	61.9	38.1	100.0
2011	10.6	6.3	28.0	44.9	47.2	7.9	55.1	64.1	35.9	100.0
2012	14.6	6.6	28.9	50.1	45.5	4.4	49.9	66.7	33.3	100.0
Growth Rate(%)										
1989			26.0	26.0	14.7	36.7	18.7	14.7	34.4	19.1
1990			-25.1	-25.1	46.0	44.5	45.7	46.0	30.5	42.1
1991			37.7	37.7	20.1	7.8	17.5	20.1	11.3	18.0
1992			6.7	6.7	4.8	12.0	6.2	4.8	11.3	6.2
1993			86.8	86.8	-7.5	34.5	1.0	-7.5	41.7	3.6
1994			62.4	62.4	5.8	16.0	8.5	5.8	24.4	11.6
1995			53.7	54.5	11.6	0.9	8.5	11.7	13.4	12.3
1996		466.9	64.4	66.4	20.9	-5.1	14.0	21.3	17.2	19.9
1997		38.9	-16.7	-15.8	9.8	11.7	10.2	9.9	-1.1	6.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-12.2	-14.4	-22.2	-16.9
1999		923.1	44.3	100.7	-9.7	-8.3	-9.4	-3.4	3.9	-1.2
2000		98.5	-6.9	27.6	1.6	-19.3	-3.6	8.6	-15.3	1.1
2001		10.0	26.8	18.2	11.5	0.8	9.3	11.3	10.1	11.0
2002		2.6	22.8	13.2	-4.5	20.0	0.2	-3.6	21.1	2.8
2003		-7.4	52.8	27.0	2.5	-38.9	-7.1	1.1	-0.8	0.5
2004		-1.4	9.6	6.2	7.3	45.5	13.1	6.2	22.6	11.2
2005		-5.5	21.3	13.5	0.2	11.7	2.5	-0.5	17.2	5.4
2006		19.3	11.9	30.9	-4.6	-32.2	-10.4	6.0	-6.1	1.5
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-4.7	9.1	5.1	7.7
2008	-0.8	9.3	16.2	10.9	3.8	-1.6	3.1	3.5	12.7	6.6
2009	-0.6	-12.3	7.0	2.6	-3.6	-3.8	-3.6	-4.0	5.1	-0.8
2010	0.1	0.2	4.7	3.2	1.2	-1.2	0.9	0.9	3.8	2.0
2011	5.7	15.8	-9.7	-3.4	7.2	41.6	11.1	11.1	-1.9	4.1
2012	39.1	6.0	4.2	12.7	-2.4	-43.6	-8.3	-8.3	-6.3	1.2

Remarks IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Lignite/Coal

Table 4.1-3Y
Consumption of Lignite and Coal Classified by Sector

Unit : KTOE

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1988			225	225	1,460	628	2,088	1,460	853	2,314
1989			284	284	1,675	858	2,534	1,675	1,142	2,818
1990			213	213	2,446	1,241	3,687	2,446	1,453	3,899
1991			293	293	2,937	1,337	4,274	2,937	1,630	4,567
1992			313	313	3,077	1,498	4,575	3,077	1,811	4,888
1993			584	584	2,846	2,014	4,860	2,846	2,598	5,444
1994			948	948	3,011	2,336	5,347	3,011	3,284	6,296
1995		7	1,458	1,465	3,361	2,356	5,717	3,368	3,814	7,182
1996		41	2,397	2,438	4,064	2,236	6,300	4,105	4,633	8,738
1997		57	1,995	2,053	4,461	2,497	6,959	4,519	4,493	9,012
1998		65	954	1,019	3,812	2,399	6,211	3,877	3,353	7,230
1999		670	1,376	2,046	3,441	2,199	5,641	4,111	3,576	7,687
2000		1,330	1,282	2,611	3,498	1,776	5,273	4,827	3,057	7,884
2001		1,462	1,625	3,087	3,900	1,791	5,690	5,362	3,415	8,777
2002		1,499	1,995	3,495	3,724	2,148	5,873	5,224	4,144	9,367
2003		1,389	3,049	4,438	3,816	1,313	5,129	5,205	4,362	9,568
2004		1,370	3,343	4,713	4,096	1,911	6,007	5,466	5,254	10,720
2005		1,294	4,054	5,348	4,105	2,135	6,240	5,399	6,189	11,587
2006	922	1,544	4,535	7,000	3,917	1,449	5,366	6,383	5,983	12,366
2007	2,308	1,280	5,409	8,997	3,916	1,030	4,946	7,504	6,439	13,943
2008	2,288	1,399	6,287	9,974	4,064	1,013	5,077	7,751	7,300	15,051
2009	2,275	1,226	6,728	10,229	3,918	974	4,892	7,419	7,702	15,121
2010	2,276	1,229	7,047	10,551	3,964	962	4,927	7,469	8,009	15,478
2011	2,406	1,423	6,364	10,194	4,251	1,363	5,614	8,080	7,727	15,807
2012	3,347	1,509	6,632	11,488	4,150	769	4,919	9,006	7,401	16,407
Fuel Share (%)										
1988			9.7	9.7	63.1	27.1	90.3	63.1	36.9	100.0
1989			10.1	10.1	59.5	30.5	89.9	59.5	40.5	100.0
1990			5.5	5.5	62.7	31.8	94.5	62.7	37.3	100.0
1991			6.4	6.4	64.3	29.3	93.6	64.3	35.7	100.0
1992			6.4	6.4	63.0	30.7	93.6	63.0	37.0	100.0
1993			10.7	10.7	52.3	37.0	89.3	52.3	47.7	100.0
1994			15.1	15.1	47.8	37.1	84.9	47.8	52.2	100.0
1995		0.1	20.3	20.4	46.8	32.8	79.6	46.9	53.1	100.0
1996		0.5	27.4	27.9	46.5	25.6	72.1	47.0	53.0	100.0
1997		0.6	22.1	22.8	49.5	27.7	77.2	50.1	49.9	100.0
1998		0.9	13.2	14.1	52.7	33.2	85.9	53.6	46.4	100.0
1999		8.7	17.9	26.6	44.8	28.6	73.4	53.5	46.5	100.0
2000		16.9	16.3	33.1	44.4	22.5	66.9	61.2	38.8	100.0
2001		16.7	18.5	35.2	44.4	20.4	64.8	61.1	38.9	100.0
2002		16.0	21.3	37.3	39.8	22.9	62.7	55.8	44.2	100.0
2003		14.5	31.9	46.4	39.9	13.7	53.6	54.4	45.6	100.0
2004		12.8	31.2	44.0	38.2	17.8	56.0	51.0	49.0	100.0
2005		11.2	35.0	46.2	35.4	18.4	53.9	46.6	53.4	100.0
2006	7.5	12.5	36.7	56.6	31.7	11.7	43.4	51.6	48.4	100.0
2007	16.6	9.2	38.8	64.5	28.1	7.4	35.5	53.8	46.2	100.0
2008	15.2	9.3	41.8	66.3	27.0	6.7	33.7	51.5	48.5	100.0
2009	15.0	8.1	44.5	67.7	25.9	6.4	32.4	49.1	50.9	100.0
2010	14.7	7.9	45.5	68.2	25.6	6.2	31.8	48.3	51.7	100.0
2011	15.2	9.0	40.3	64.5	26.9	8.6	35.5	51.1	48.9	100.0
2012	20.4	9.2	40.4	70.0	25.3	-4.7	30.0	54.9	45.1	100.0
Growth Rate(%)										
1989			26.0	26.0	14.7	36.7	21.3	14.7	33.9	21.8
1990			-25.1	-25.1	46.0	44.5	45.5	46.0	27.2	38.4
1991			37.7	37.7	20.1	7.8	15.9	20.1	12.2	17.1
1992			6.7	6.7	4.8	12.0	7.1	4.8	11.1	7.0
1993			86.8	86.8	-7.5	34.5	6.2	-7.5	43.5	11.4
1994			62.4	62.4	5.8	16.0	10.0	5.8	26.4	15.6
1995			53.7	54.5	11.6	0.9	6.9	11.9	16.1	14.1
1996		466.9	64.4	66.4	20.9	-5.1	10.2	21.9	21.5	21.7
1997		38.9	-16.7	-15.8	9.8	11.7	10.5	10.1	-3.0	3.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-10.8	-14.2	-25.4	-19.8
1999		923.1	44.3	100.7	-9.7	-8.3	-9.2	6.0	6.6	6.3
2000		98.5	-6.9	27.6	1.6	-19.3	-6.5	17.4	-14.5	2.6
2001		10.0	26.8	18.2	11.5	0.8	7.9	11.1	11.7	11.3
2002		2.6	22.8	13.2	-4.5	20.0	3.2	-2.6	21.3	6.7
2003		-7.4	52.8	27.0	2.5	-38.9	-12.7	-0.4	5.3	2.1
2004		-1.4	9.6	6.2	7.3	45.5	17.1	5.0	20.4	12.0
2005		-5.5	21.3	13.5	0.2	11.7	3.9	-1.2	17.8	8.1
2006		19.3	11.9	30.9	-4.6	-32.2	-14.0	18.2	-3.3	6.7
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-7.8	17.6	7.6	12.8
2008	-0.8	9.3	16.2	10.9	3.8	-1.6	2.7	3.3	13.4	8.0
2009	-0.6	-12.3	7.0	2.6	-3.6	-3.8	-3.6	-4.3	5.5	0.5
2010	0.1	0.2	4.7	3.2	1.2	-1.2	0.7	0.7	4.0	2.4
2011	5.7	15.8	-9.7	-3.4	7.2	41.6	13.9	8.2	-3.5	2.1
2012	39.1	6.0	4.2	12.7	-2.4	-43.6	-12.4	11.5	-4.2	3.8

Remarks IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.2-1Y
Coal Import

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Briquettes												
- Quantity (1,000 Tons)	0.02	0.05	0.03	0.06	0.20	3.06	0.05	0.04	0.02	0.01	0.03	0.00
- Value (Million Bahts)	0.08	0.44	0.29	0.50	0.16	1.18	0.55	0.31	0.39	0.58	0.20	0.23
Anthracite												
- Quantity (1,000 Tons)	4.92	7.92	12.89	18.78	1.57	3.63	1.18	5.08	46.16	8.09	23.10	110.80
- Value (Million Bahts)	16.83	24.42	28.50	32.33	3.94	11.68	4.68	13.45	63.62	27.24	47.31	149.57
Coal Solid Fuels from Coal												
- Quantity (1,000 Tons)	287.38	362.49	236.72	366.14	438.70	867.57	1,408.15	2,244.85	3,733.61	3,191.91	1,521.42	3,079.53
- Value (Million Bahts)	286.10	526.84	330.46	377.03	424.75	805.85	1,345.23	1,833.53	3,485.59	3,427.83	1,629.55	3,507.49
Peat												
- Quantity (1,000 Tons)				0.01				0.25	0.74	1.27	1.07	1.21
- Value (Million Bahts)				0.06				1.53	5.98	6.28	6.76	7.51
Coke of Coal												
- Quantity (1,000 Tons)	68.76	84.57	91.25	84.43	60.39	61.50	109.84	96.95	125.30	87.48	87.38	86.34
- Value (Million Bahts)	212.61	312.30	286.52	308.75	220.39	200.71	368.59	325.56	429.56	350.98	384.35	344.98
Total												
- Quantity (1,000 Tons)	361.08	455.03	340.90	469.42	500.85	935.76	1,519.21	2,347.16	3,905.84	3,288.78	1,632.98	3,277.93
- Value (Million Bahts)	515.62	863.99	645.77	718.66	649.23	1,019.42	1,719.06	2,174.40	3,985.25	3,813.12	2,068.16	4,009.80

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)

Table 4.2-1Y (Cont.)
Coal Import

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Briquettes													
- Quantity (1,000 Tons)	0.00	0.00	0.00	0.00	0.02	0.02	0.03	50.13	0.01	0.00	0.00	0.00	0.10
- Value (Million Bahts)	0.04	0.01	0.05	0.27	0.75	0.07	0.50	56.92	0.76	0.82	0.21	0.01	1.92
Anthracite													
- Quantity (1,000 Tons)	164.69	234.89	581.26	532.86	355.13	487.76	553.49	305.46	242.20	677.52	367.82	210.70	138.06
- Value (Million Bahts)	243.30	353.50	827.78	829.85	720.87	1,406.69	1,236.50	836.44	1,280.39	2,209.51	1,539.64	1,407.26	808.05
Coal Solid Fuels from Coal													
- Quantity (1,000 Tons)	3,933.74	4,651.04	4,944.07	6,509.00	7,124.40	8,006.40	10,550.96	13,777.60	15,679.32	15,587.41	16,319.89	16,002.60	18,221.60
- Value (Million Bahts)	4,472.65	6,810.36	6,485.58	8,106.07	10,520.27	13,166.66	17,014.32	24,769.55	34,089.44	33,448.03	34,834.61	39,179.19	45,160.57
Peat													
- Quantity (1,000 Tons)	1.67	2.23	2.85	3.82	4.03	3.16	4.13	214.29	4.88	6.36	7.77	9.64	8.59
- Value (Million Bahts)	8.82	13.35	18.74	28.45	31.80	25.67	29.39	3,329.67	45.04	52.75	64.69	81.71	84.15
Coke of Coal													
- Quantity (1,000 Tons)	83.10	57.06	70.65	64.75	66.39	70.96	45.48	66.32	52.59	117.54	208.73	108.16	36.02
- Value (Million Bahts)	342.88	312.16	540.16	405.16	1,001.56	822.98	487.50	663.81	1,040.38	1,224.22	2,921.98	1,667.53	647.62
Total													
- Quantity (1,000 Tons)	4,183.20	4,945.21	5,598.84	7,110.44	7,549.95	8,568.29	11,214.80	14,413.80	15,979.00	16,388.84	16,904.21	16,331.11	18,404.37
- Value (Million Bahts)	5,067.69	7,489.37	7,872.31	9,369.79	12,275.26	15,422.06	18,895.88	29,656.38	36,456.01	36,935.34	39,361.12	42,335.71	46,702.31

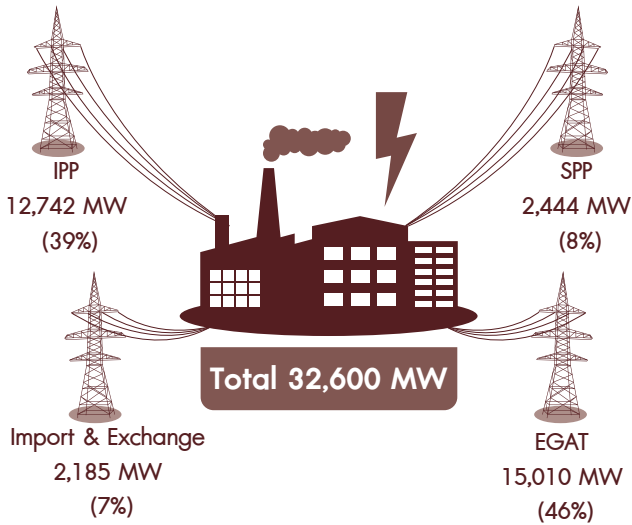
Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)



Electricity

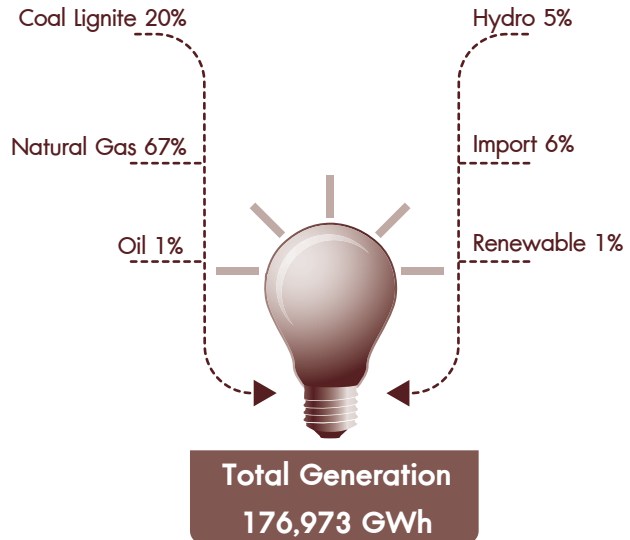
System Installed Generating Capacity

As of December 2012



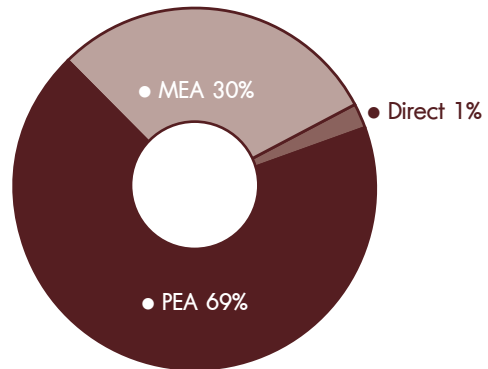
Share of Power Generation

by Fuel Type in 2012



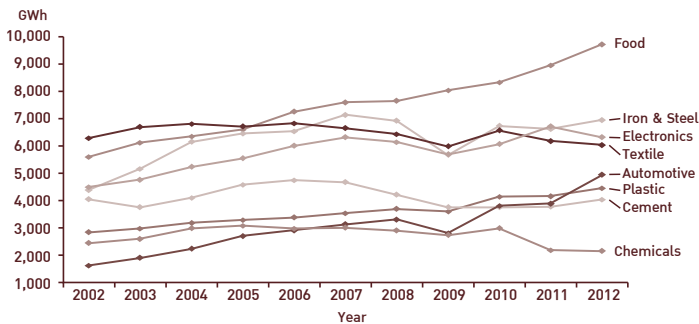
Share of Electricity Consumption

by Sector 2012

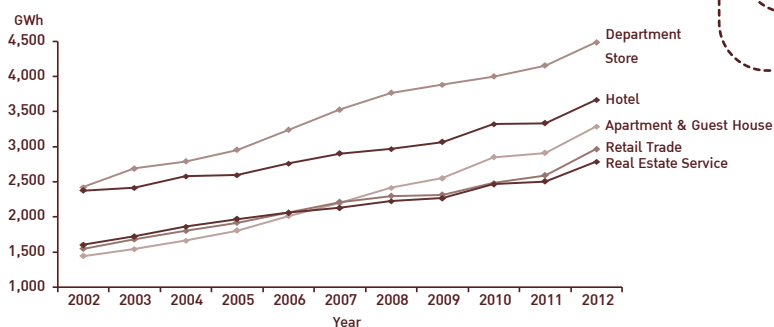


Total Consumption: 161,778 GWh

Electricity Consumption by Industrial Cluster



Electricity Consumption by Commercial Cluster



- Residential 36,447 GWh (23%)
- Small General Service 17,015 GWh (11%)
- Industrial 72,296 GWh (45%)
- Business 27,083 (17%)
- Government and Non-Profit 3,799 GWh (2%)
- Agriculture 377 GWh (0.2%)
- Free of Charge 2,191 GWh (1%)
- Other 2,570 GWh (1%)



CHAPTER
บทที่

5

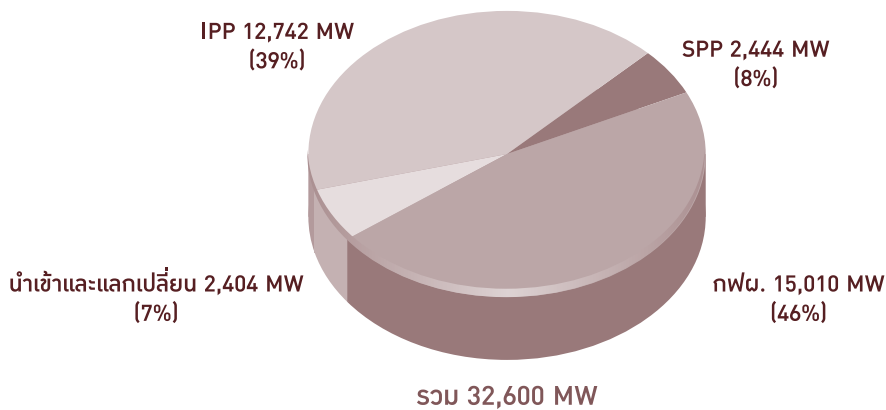
Electricity
ไฟฟ้า

บทที่ 5 ไฟฟ้า

กำลังการผลิตติดตั้ง ในอดีตการผลิตไฟฟ้าของประเทศไทยมีการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) เป็นผู้ผลิตไฟฟ้าเพียงรายเดียว ต่อมารัฐบาลมีนโยบายให้เอกชนเข้ามามีส่วนร่วมในการผลิตไฟฟ้า เพื่อให้มีการแข่งขันด้านการผลิต ในปี 2537 จึงมีผู้ผลิตไฟฟ้าเอกชนรายใหญ่ (Independent Power Producers : IPP) และผู้ผลิตไฟฟ้าเอกชนรายเล็ก (Small Power Producers : SPP) เข้ามามีบทบาทในภาคการผลิตไฟฟ้า ทำให้เกิดการปรับปรุงประสิทธิภาพการผลิตและบริการ ในปัจจุบันได้ส่งเสริมให้มีการใช้พลังงานหมุนเวียน ในการผลิตไฟฟ้าจึงมีผู้ผลิตไฟฟ้าขนาดเล็กมาก (Very Small Power Producers : VSPP) ที่ใช้พลังงานหมุนเวียน เป็นหลักเข้ามาในระบบ

ในปี 2555 มีกำลังการผลิตติดตั้งที่อยู่ในระบบรวมทั้งสิ้น 32,600 เมกะวัตต์ เป็นการผลิตติดตั้งของ กฟผ. ร้อยละ 46 IPP ร้อยละ 39 SPP ร้อยละ 8 และนำเข้าจาก สปป.ลาว และแลกเปลี่ยนกับมาเลเซีย ร้อยละ 7

กำลังการผลิตติดตั้งที่อยู่ในระบบ
ณ เดือนธันวาคม 2555



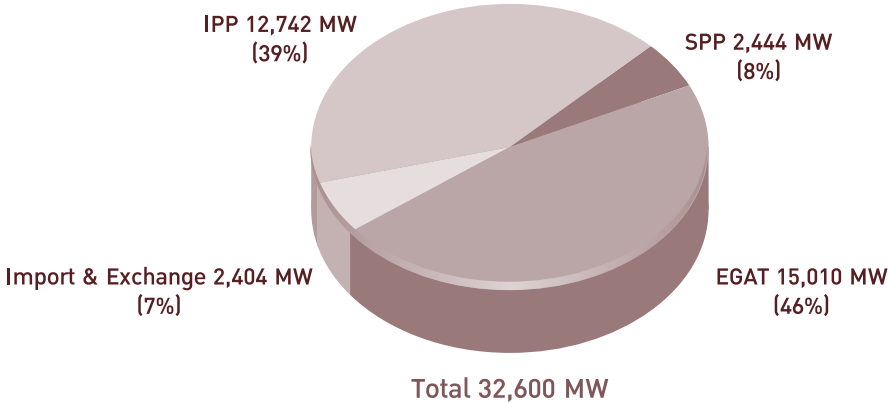
การผลิตพลังงานไฟฟ้า มีแนวโน้มเพิ่มขึ้น ยกเว้นปี 2541 ซึ่งเกิดวิกฤตเศรษฐกิจ และปี 2554 ซึ่งเกิดอุทกภัยในหลายพื้นที่ ทำให้ปริมาณการผลิตพลังงานไฟฟ้าของประเทศไทยลดลง โดยในปี 2555 การผลิตอยู่ที่ระดับ 176,973 กิกะวัตต์ชั่วโมง เป็นการผลิตไฟฟ้าจากก๊าซธรรมชาติ ร้อยละ 67 ถ่านหิน/ลิกไนต์ ร้อยละ 20 นำเข้า/แลกเปลี่ยนไฟฟ้าและอื่น ๆ ร้อยละ 7 ไฟฟ้าพลังน้ำ ร้อยละ 5 และน้ำมัน ร้อยละ 1

Electricity

Installed Generating Capacity. In the past, the Electricity Generating Authority of Thailand (EGAT) was the sole power producer in Thailand. Later, the government had formulated a policy promoting the private sector role in the power generation sector in order to encourage competition in the generation business. As a result, since 1994, a number of Independent Power Producers (IPP) and Small Power Producers (SPP) have taken part in the power supply industry, resulting in improvement in power generation and service quality. Currently, promotion is being made on the use of renewable energy in power generation, resulting in a growing number of Very Small Power Producers (VSPP), using renewable energy as main fuel, supplying power to the grid.

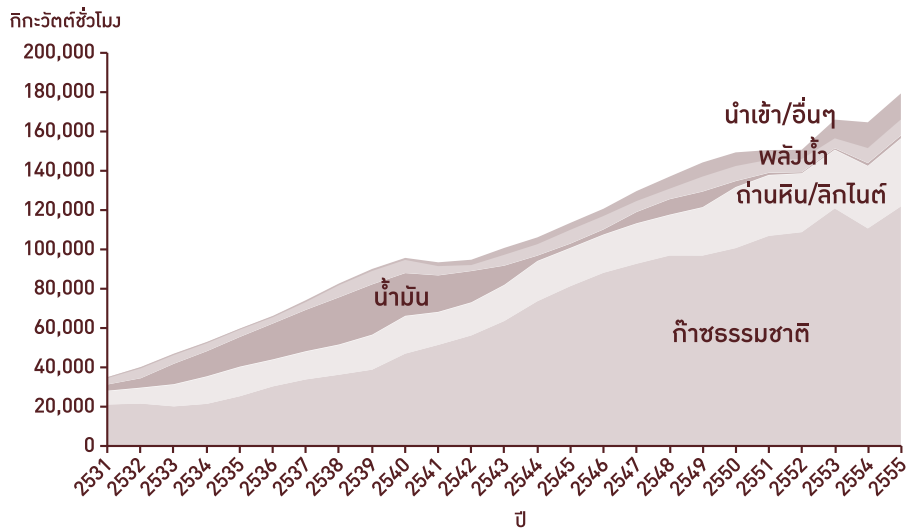
In 2012, the total System Installed Generating Capacity stood at 32,600 MW, divided into the installed capacity of EGAT, 46%; IPP, 39%; SPP, 8%; and imported electricity from Lao PDR and exchange with Malaysia, 7%.

**System Installed Generating Capacity
As of December 2012**

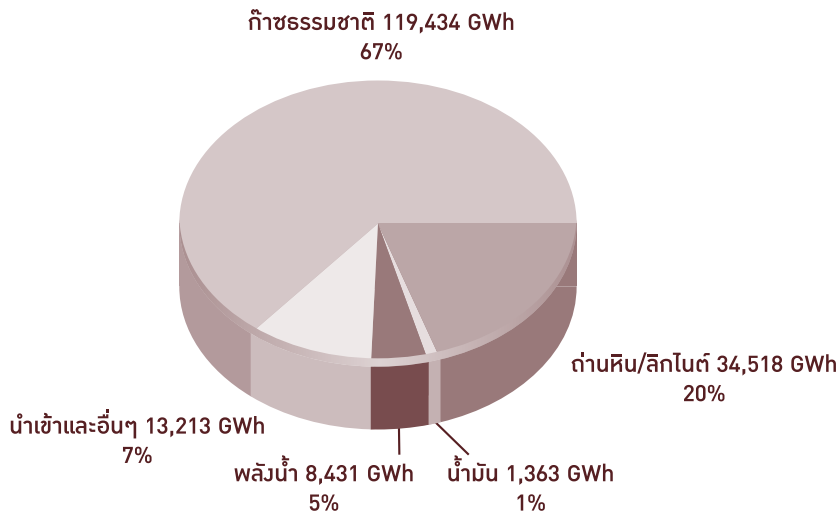


Electricity Generation. The electricity generation trend in Thailand has been on the rise, except for the year 1998 due to the economic crisis and the heavy flood in wide area in 2011 then causing the electricity generation to shrink during that period. In 2012, the generation was at a level of 176,973 gigawatt-hours (GWh), with the use of the following fuels: natural gas, 67%; coal/lignite, 20%; electricity import/exchange and others, 7%; hydropower, 5% and oil, 1%.

การผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่าง ๆ

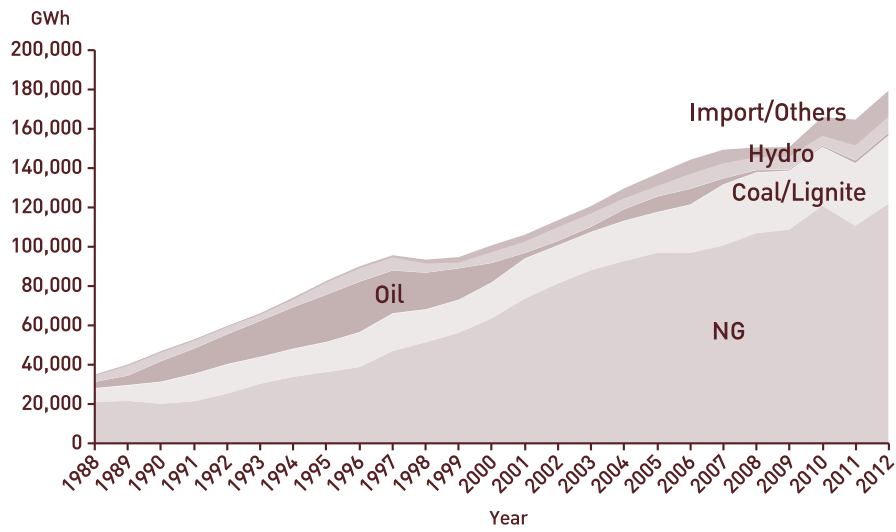


สัดส่วนการผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่าง ๆ ปี 2555

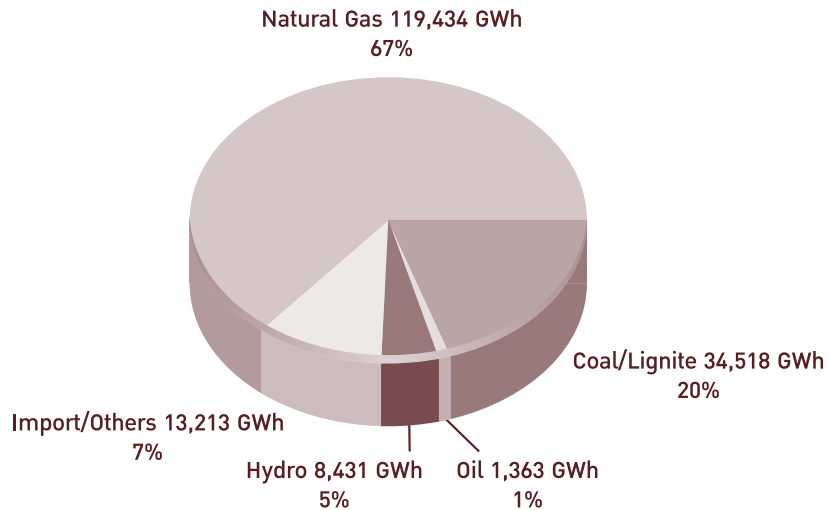


ความต้องการพลังไฟฟ้าสูงสุดสุทธิในระบบของ กฟผ. ในปี 2555 ความต้องการไฟฟ้าสูงสุดสุทธิเกิดขึ้นเมื่อวันพฤหัสบดีที่ 26 เมษายน เวลา 14.30 น. อยู่ที่ระดับ 26,121 เมกะวัตต์ สูงกว่าความต้องการไฟฟ้าสูงสุดสุทธิของปี 2554 ซึ่งเกิดขึ้นเมื่อวันอังคารที่ 24 พฤษภาคม เวลา 14.00 น. ที่ระดับ 23,900 เมกะวัตต์ อยู่ 2,221 เมกะวัตต์ หรือคิดเป็นเพิ่มขึ้นร้อยละ 9.3 ส่วนค่าตัวประกอบการใช้ไฟฟ้าเฉลี่ย (Load Factor) ของปี 2555 อยู่ที่ระดับร้อยละ 75.2

Power Generation by Fuel Type



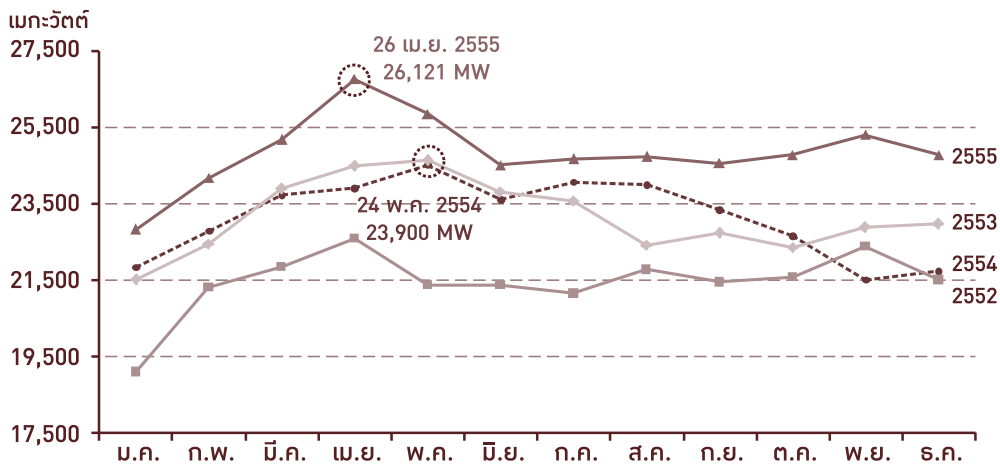
Share of Power Generation by Fuel Type in 2012



Electricity

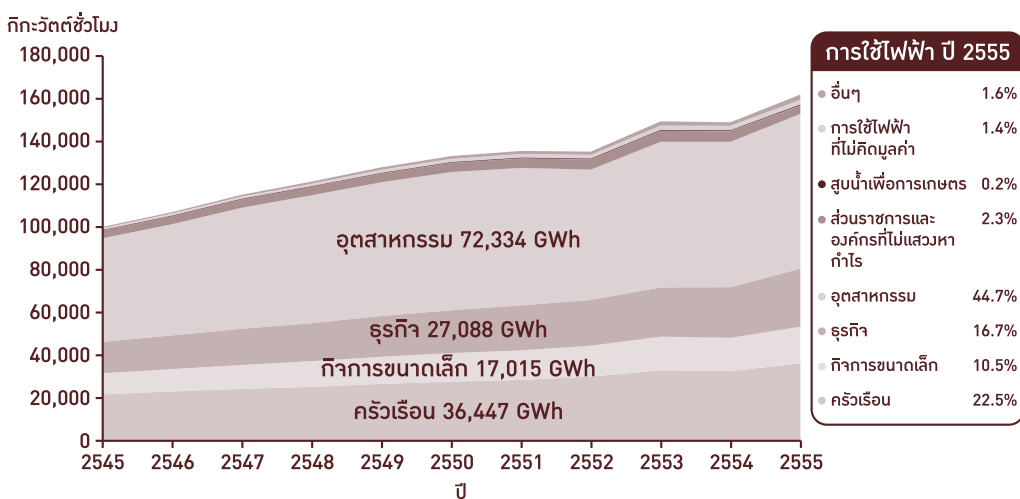
Net Peak Generation Requirement on EGAT system. The net peak generation requirement in 2012 occurred on Thursday, 26 April 2012, at 14.30 hrs., reaching 26,121 MW, accounting for 2,221 MW or 9.3% higher than that in 2011 which was at 23,900 MW on Tuesday, 24 May 2011, at 14.00 hrs. The average load factor in 2012 was at 75.2%.

ความต้องการพลังไฟฟ้าสูงสุดสุทธิในระบบ

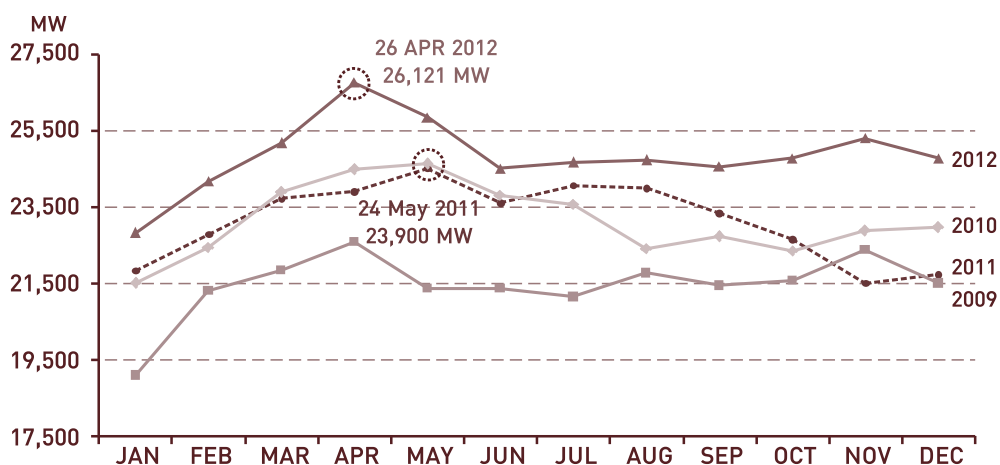


การใช้ไฟฟ้า ปริมาณการใช้ไฟฟ้ารายสาขาของประเทศไทยมีสัดส่วนใกล้เคียงกันกับในอดีตที่ผ่านมา โดยในปี 2555 การใช้ไฟฟ้ารวมทั้งประเทศเพิ่มขึ้นร้อยละ 8.7 เมื่อเทียบกับปีก่อน อยู่ที่ระดับ 161,778 กิกะวัตต์ ชั่วโมง เนื่องจากภาคธุรกิจและภาคอุตสาหกรรมเริ่มฟื้นตัวจากวิกฤตอุทกภัย รวมทั้งนโยบายกระตุ้นเศรษฐกิจต่างๆ ของรัฐบาล และสภาพอากาศที่ร้อนอบอ้าว โดยสาขาที่มีสัดส่วนการใช้ไฟฟ้าสูงสุด คือ ภาคอุตสาหกรรม คิดเป็นร้อยละ 45 ของการใช้ไฟฟ้าทั่วประเทศ รองลงมาคือ การใช้ไฟฟ้าในภาคครัวเรือน คิดเป็นร้อยละ 23 และภาคธุรกิจ คิดเป็นร้อยละ 17

การใช้ไฟฟ้ารายสาขา

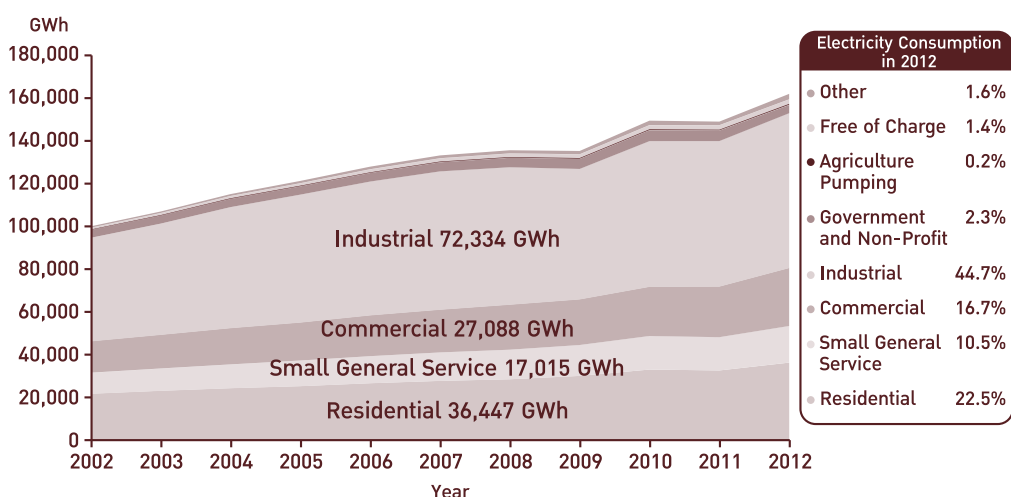


Net Peak Generation Requirement on EGAT system



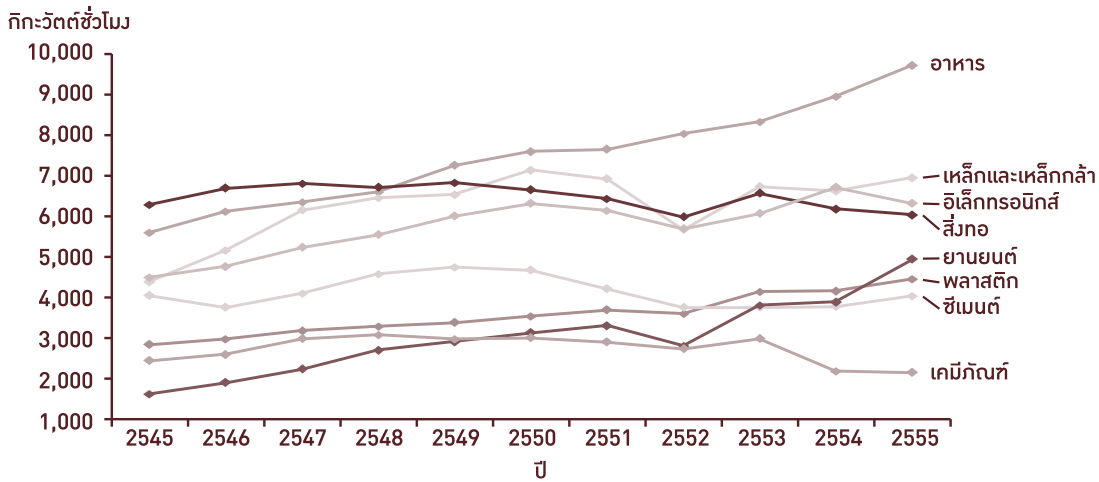
Electricity Consumption. The share of electricity consumption by sector in Thailand was similar to that in the past. In 2012, the total consumption of the country increased by 8.7%, compared with that in the previous year, reaching the amount of 161,778 GWh, due to the factories resumed their normal production capacity after the heavy floods in 2011, coupled with government’s economic stimulus measures and the extremely hot weather. The economic sector accounting for the highest share of national electricity consumption was the industrial sector, holding a share of 45%; while the household and commercial sectors accounted for a share of 23% and 17% respectively.

Electricity Consumption by Sector



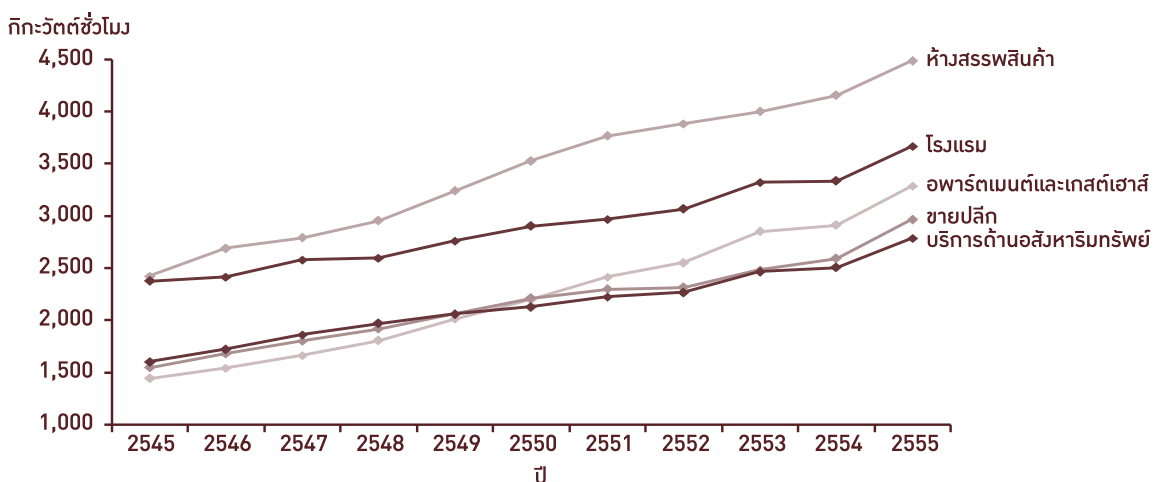
• **การใช้ไฟฟ้าในสาขาอุตสาหกรรมที่สำคัญ** การใช้ไฟฟ้าในสาขาอุตสาหกรรมส่วนใหญ่มีแนวโน้มเพิ่มขึ้นในช่วงปี 2545 ถึงปี 2550 หลังจากนั้นในช่วงปี 2551 ถึงปี 2552 มีแนวโน้มลดลง เนื่องจากภาวะเศรษฐกิจโลกที่ชะลอตัวลงประกอบกับภาวะความไม่เสถียรภาพทางการเมืองภายในประเทศไทย ต่อมาในปี 2553 ถึงปี 2555 การใช้ไฟฟ้าในสาขาอุตสาหกรรมส่วนใหญ่กลับมาเพิ่มสูงขึ้นอีกครั้ง โดยเฉพาะอย่างยิ่งอุตสาหกรรมอาหารและอุตสาหกรรมยานยนต์

การใช้ไฟฟ้าในสาขาอุตสาหกรรม



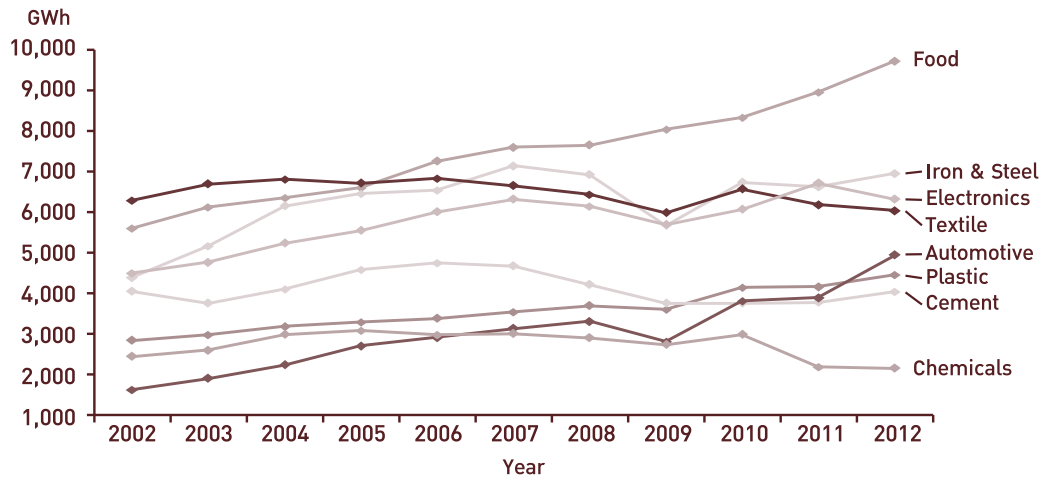
• **การใช้ไฟฟ้าในสาขาธุรกิจที่สำคัญ** การใช้ไฟฟ้าในสาขาธุรกิจส่วนใหญ่มีแนวโน้มเพิ่มขึ้นตั้งแต่ปี 2545 ถึงปี 2555 โดยในปี 2555 ธุรกิจที่มีการใช้ไฟฟ้าในสัดส่วนที่สูง ได้แก่ ห้างสรรพสินค้า โรงแรม อพาร์ทเมนต์ และเกสต์เฮาส์ ชายปลีก และบริการด้านอสังหาริมทรัพย์ ตามลำดับ

การใช้ไฟฟ้าในสาขาธุรกิจ



- *Electricity Demand in Major Industrial Clusters.* During 2002-2007, electricity demand in most industrial clusters was continuously on the rise. However, during 2008-2009, the trend dropped off due to the global economic slowdown coupled with the domestic political instability. In 2010-2012, electricity demand in most industrial clusters rebound again, especially food and automotive industry.

Electricity Consumption by Industrial Cluster



- *Electricity Demand in Major Commercial Clusters.* Electricity demand in most commercial clusters continuously increased from 2002 to 2012. In 2012, the business & commerce that accounted for high electricity consumption were as follows: department stores, hotels, apartments & guest houses, retail trade and real estate services, respectively.

Electricity Consumption by Commercial Cluster

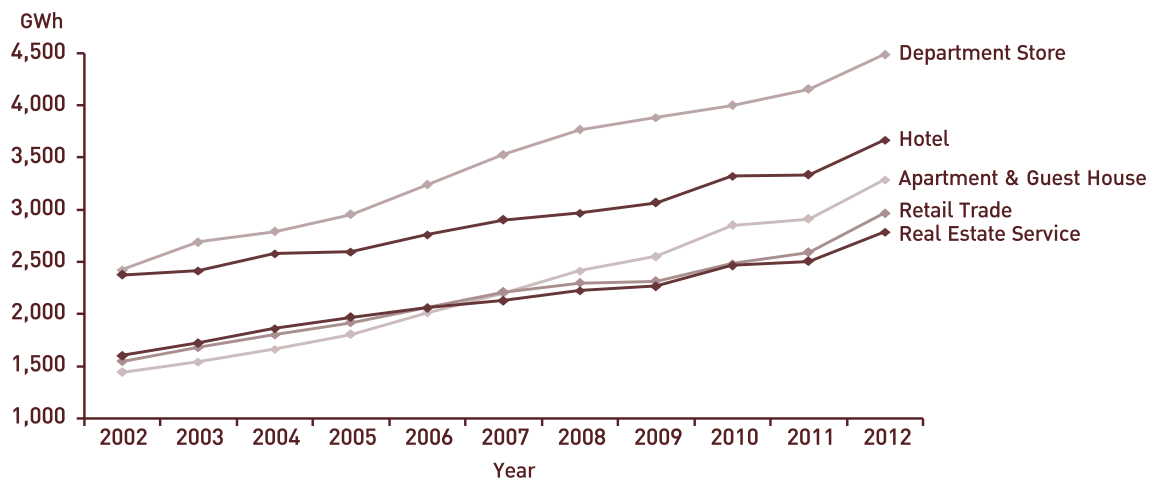


Table 5.1-1Y
Electricity Generation by Fuel Type

Unit : GWh

Year	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
1988	3,718.17	3,142.03	6,799.50	18,719.88	3.47	0.00	0.00	429.78	30.19	0.00	0.00	32,843.02
1989	5,512.21	4,738.83	7,869.57	19,194.75	16.45	0.00	0.00	643.15	21.57	0.00	0.00	37,996.53
1990	4,900.11	10,012.63	11,052.85	17,765.06	356.85	1.01	0.02	652.32	23.98	0.00	0.00	44,764.83
1991	4,505.35	12,636.39	13,785.22	19,051.19	112.57	1.00	0.02	593.11	28.65	0.00	0.00	50,713.50
1992	4,158.94	14,928.92	14,815.05	22,943.04	161.34	1.12	0.02	479.90	19.71	0.00	0.00	57,508.05
1993	3,612.50	17,494.52	13,503.75	27,953.16	743.97	1.14	0.03	644.52	28.26	0.00	0.00	63,981.85
1994	4,403.60	19,647.18	14,130.91	30,920.18	1,385.18	0.90	0.04	870.82	36.52	13.30	564.63	71,973.25
1995	6,593.01	21,711.89	15,152.25	25,377.38	2,261.18	1.05	0.04	699.12	26.00	261.65	8,352.74	80,436.33
1996	7,215.00	20,983.73	17,507.17	24,722.17	4,572.36	1.19	0.17	805.61	26.17	1,232.93	10,730.73	87,797.24
1997	7,082.00	19,266.11	18,924.58	28,613.71	2,440.68	1.28	0.22	745.63	27.19	2,150.90	14,154.62	93,406.91
1998	5,088.82	17,534.10	16,475.24	32,702.16	988.97	1.30	0.24	1,622.71	14.61	3,191.85	13,535.73	91,155.72
1999	3,409.67	15,429.25	15,418.91	32,851.18	457.33	1.49	0.24	2,255.66	34.49	8,353.15	14,259.57	92,470.95
2000	5,891.44	9,611.42	15,852.17	35,642.22	107.95	1.65	0.33	2,966.25	25.64	10,175.54	18,212.92	98,487.52
2001	6,174.35	2,419.96	17,722.36	34,786.99	248.06	1.50	0.45	2,881.71	31.08	11,644.29	27,958.14	103,868.90
2002	7,366.94	1,969.39	16,651.86	35,251.60	150.98	1.44	0.31	2,812.18	31.71	12,548.25	34,469.23	111,253.87
2003	7,207.76	2,434.28	16,856.16	31,694.40	75.30	1.61	0.24	2,473.41	32.29	13,303.23	44,332.77	118,411.44
2004	5,896.29	5,467.67	17,993.55	30,901.10	232.95	1.26	0.87	3,377.85	25.50	13,440.60	50,172.86	127,510.51
2005	5,671.18	7,640.00	18,334.50	33,064.85	176.85	1.45	0.81	4,371.89	17.40	13,546.61	51,972.65	134,798.20
2006	7,950.05	7,808.44	18,027.68	33,962.67	76.92	1.72	0.85	5,151.85	44.79	13,530.95	55,362.65	141,918.57
2007	7,961.36	2,966.57	18,497.68	36,501.69	28.24	1.84	0.80	4,488.36	21.70	14,439.45	62,118.21	147,025.89
2008	6,950.69	990.08	18,679.30	37,260.98	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93
2009	6,965.74	448.23	17,922.09	41,761.02	45.07	1.41	1.86	2,451.41	24.04	13,896.54	64,840.71	148,358.11
2010	5,346.75	558.31	17,987.63	50,802.50	41.59	1.64	5.65	7,253.78	23.64	13,870.81	67,775.99	163,668.30
2011	7,934.92	1,294.89	18,835.63	45,863.42	35.98	1.82	6.22	10,774.41	33.69	14,936.20	62,625.97	162,343.14
2012	8,431.22	1,299.96	18,802.01	52,568.77	62.76	0.87	2.87	10,527.43	0.00	15,134.22	70,143.04	176,973.14

Source : EGAT

Remarks : Power Generation from NG and Diesel Oil not Including REGCO'S generation since Dec, 1994

Table 5.1-2Y
Power Generation Classified by Fuel Type

Unit : GWh

Year	Natural Gas		Coal & Lignite		Oil			Hydro Electricity		Imported	Others	Total
			Lignite	Coal	Fuel Oil	Diesel	Total		Total			
1988	18,719.88	6,799.50	0.00	6,799.50	3,142.03	3.47	3,145.50	3,718.17	429.78	30.19	32,843.02	
1989	19,194.75	7,869.57	0.00	7,869.57	4,738.83	16.45	4,755.28	5,512.21	643.15	21.57	37,996.53	
1990	17,765.06	11,052.85	0.00	11,052.85	10,012.63	356.85	10,369.48	4,900.11	652.32	25.00	44,764.83	
1991	19,051.19	13,785.22	0.00	13,785.22	12,636.39	112.57	12,748.96	4,505.35	593.11	29.66	50,713.50	
1992	22,943.04	14,815.05	0.00	14,815.05	14,928.92	161.34	15,090.26	4,158.94	479.90	20.86	57,508.05	
1993	27,953.16	13,503.75	0.00	13,503.75	17,494.52	743.97	18,238.49	3,612.50	644.52	29.42	63,981.85	
1994	31,484.80	14,130.91	0.00	14,130.91	19,647.18	1,385.18	21,032.36	4,403.60	870.82	50.77	71,973.25	
1995	33,863.29	15,152.25	12.86	15,165.11	21,711.89	2,261.18	23,973.07	6,593.01	699.12	142.77	80,436.33	
1996	36,433.34	17,507.17	72.87	17,580.04	20,983.73	4,572.36	25,556.09	7,215.00	805.61	207.10	87,797.24	
1997	44,573.66	18,924.58	101.21	19,025.79	19,266.11	2,440.68	21,706.79	7,082.00	745.63	273.46	93,406.91	
1998	49,021.15	16,475.24	115.23	16,590.47	17,534.10	988.97	18,523.07	5,088.82	1,622.71	309.54	91,155.72	
1999	53,839.40	15,418.91	1,214.28	16,633.19	15,429.25	457.33	15,886.58	3,409.67	2,255.66	447.43	92,470.95	
2000	61,186.22	15,852.17	2,345.20	18,197.37	9,611.42	107.95	9,719.37	5,891.44	2,966.25	526.87	98,487.52	
2001	71,228.81	17,722.36	2,573.70	20,296.06	2,419.96	248.06	2,668.02	6,174.35	2,881.71	621.07	103,868.90	
2002	78,910.24	16,651.86	2,639.66	19,291.52	1,969.39	150.98	2,120.37	7,366.94	2,812.18	752.40	111,253.87	
2003	85,687.77	16,856.16	2,445.18	19,301.34	2,434.28	75.30	2,509.58	7,207.76	2,473.41	1,231.43	118,411.44	
2004	90,289.10	17,993.55	2,410.86	20,404.41	5,467.67	232.95	5,700.62	5,896.29	3,377.85	1,841.84	127,510.51	
2005	94,467.70	18,334.50	2,279.83	20,614.33	7,640.00	176.85	7,816.85	5,671.18	4,371.89	1,856.19	134,798.20	
2006	94,438.58	18,027.68	6,440.74	24,468.42	7,808.44	76.92	7,885.36	7,950.05	5,151.85	2,024.52	141,918.57	
2007	98,243.53	18,497.68	12,383.40	30,881.08	2,966.57	28.24	2,994.81	7,961.36	4,488.36	2,456.79	147,025.89	
2008	104,458.01	18,679.30	12,158.35	30,837.65	990.08	23.28	1,013.37	6,950.69	2,783.57	2,177.66	148,220.93	
2009	106,343.39	17,922.09	11,885.98	29,808.07	448.23	45.07	493.30	6,965.74	2,451.41	2,296.31	148,358.11	
2010	118,438.21	17,987.63	11,776.42	29,764.05	558.31	41.59	599.90	5,346.75	7,253.78	2,265.76	163,668.30	
2011	108,292.24	18,835.63	12,845.26	31,680.89	1,294.89	35.98	1,330.87	7,934.92	10,774.41	2,329.81	162,343.14	
2012	119,433.57	18,802.01	15,715.53	34,517.54	1,299.96	62.76	1,362.72	8,431.22	10,527.43	2,685.39	176,973.14	

Source : EGAT

Table 5.1-3Y
Peak Generation Requirement, Energy Generation Requirement
and Load Factor

Year	Peak Generation Requirement		Gross Energy Generation Requirement (GWh)	Load Factor ^{3/} (%)
	Net Peak ^{1/} (MW)	Gross Peak ^{2/} (MW)		
1988	-	5,444	32,843	68.7
1989	-	6,337	38,006	68.5
1990	-	7,221	44,765	70.8
1991	-	8,045	50,713	72.0
1992	-	8,904	57,509	73.5
1993	-	9,839	63,982	74.2
1994	-	11,064	71,973	74.3
1995	-	12,268	80,436	74.8
1996	-	13,311	87,797	75.1
1997	-	14,506	93,407	73.5
1998	-	14,180	91,156	73.4
1999	-	13,712	91,414	76.1
2000	-	14,918	98,487	75.2
2001	-	16,126	103,856	73.5
2002	-	16,681	111,256	76.1
2003	-	18,121	117,290	73.9
2004	-	19,326	127,511	75.1
2005	-	20,538	134,798	74.9
2006	-	21,064	141,919	76.9
2007	-	22,586	147,026	74.3
2008	-	22,568	148,264	74.8
2009	22,045	22,596	148,372	75.0
2010	24,010	24,630	163,660	75.9
2011	23,900	24,518	162,343	75.6
2012	26,121	26,774	176,973	75.2

Source : EGAT

Remark : 1/ Net Peak Generation Requirement on EGAT system excluding station service

2/ Gross Peak Generation Requirement estimated by EPPO since 2009 (estimated from Net Peak Generation Requirement and EGAT station service)

3/ Load Factor estimated from Gross Peak Generation Requirement and Gross Energy Generation Requirement

Table 5.1-4Y
EGAT Purchased from SPP

Unit : GWh

Year	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
1994	0.00	0.00	0.00	13.30	13.30
1995	133.14	12.86	0.00	115.65	261.65
1996	980.44	72.90	0.00	179.59	1,232.93
1997	1,805.35	101.22	14.82	230.00	2,151.38
1998	2,783.25	115.24	38.42	254.95	3,191.85
1999	6,728.62	1,214.29	43.29	367.92	8,354.11
2000	7,331.08	2,345.17	32.13	467.17	10,175.54
2001	8,483.65	2,573.67	36.55	551.50	11,645.37
2002	9,189.42	2,639.65	37.36	681.59	12,548.01
2003	9,660.66	2,445.22	37.25	1,160.10	13,303.23
2004	9,215.09	2,410.93	162.18	1,652.11	13,440.30
2005	9,430.12	2,279.80	91.04	1,745.56	13,546.53
2006	9,168.70	2,385.14	28.35	1,948.76	13,530.95
2007	9,779.30	2,227.71	22.08	2,410.37	14,439.45
2008	9,873.57	2,015.89	26.72	2,120.25	14,036.43
2009	9,759.71	1,867.85	30.58	2,238.41	13,896.54
2010	9,895.45	1,740.59	19.06	2,215.71	13,870.81
2011	10,607.29	2,040.75	20.69	2,267.47	14,936.20
2012	10,427.48	2,009.76	29.97	2,667.02	15,134.22

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5Y
EGAT Purchased from IPP

Unit : GWh

Year	Natural Gas (NG)	Coal / Lignite	Total
1994	564.62	0.00	564.62
1995	8,352.74	0.00	8,352.74
1996	10,730.73	0.00	10,730.73
1997	14,154.62	0.00	14,154.62
1998	13,535.73	0.00	13,535.73
1999	14,259.57	0.00	14,259.57
2000	18,212.92	0.00	18,212.92
2001	27,958.14	0.00	27,958.14
2002	34,469.23	0.00	34,469.23
2003	44,332.77	0.00	44,332.77
2004	50,172.86	0.00	50,172.86
2005	51,972.65	0.00	51,972.65
2006	51,307.09	4,055.57	55,362.65
2007	51,962.48	10,155.73	62,118.21
2008	57,323.37	10,142.45	67,465.82
2009	54,822.58	10,018.13	64,840.71
2010	57,740.20	10,035.79	67,775.99
2011	51,821.45	10,804.51	62,625.97
2012	56,437.30	13,705.74	70,143.04

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.2-1Y
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2002	431.08	7,195.81	5,023.22	8,025.50	12,114.33	1,596.15	1,213.70	0.00	0.00	0.00	0.00	181.19	35,780.97
2003	405.19	7,593.58	5,282.09	7,819.94	13,363.13	1,607.78	1,177.08	0.00	0.00	0.00	0.00	181.84	37,430.64
2004	413.06	7,921.56	5,566.11	8,050.86	14,120.77	1,658.92	1,200.01	0.00	0.00	0.00	0.00	188.10	39,119.39
2005	407.03	8,230.34	5,771.96	8,045.11	14,605.93	1,693.78	1,151.71	0.00	0.00	0.00	0.00	194.10	40,099.96
2006	411.35	8,667.81	6,039.00	8,061.22	15,189.57	1,729.67	1,175.48	0.00	0.00	0.00	0.00	208.18	41,482.28
2007	395.94	8,834.49	6,150.31	7,959.27	15,484.14	1,773.67	1,214.71	0.00	0.00	0.00	0.00	222.88	42,035.41
2008	399.63	8,981.78	6,253.09	7,913.50	15,394.02	1,809.30	1,250.78	0.00	0.00	0.00	0.00	233.80	42,235.91
2009	426.38	9,352.88	6,379.67	7,619.31	14,605.04	1,789.81	1,288.25	0.00	0.00	0.00	0.00	271.96	41,733.30
2010	416.35	10,299.58	6,859.18	7,685.95	16,325.93	1,802.57	1,357.89	0.00	0.00	0.00	0.00	312.71	45,060.16
2011	422.47	9,702.33	6,644.43	7,494.56	16,468.94	1,779.70	1,293.24	0.00	42.08	0.00	0.00	346.99	44,194.74
2012	434.35	10,964.58	7,210.42	8,132.84	17,807.83	1,984.38	1,049.10	0.00	301.68	0.00	0.00	358.83	48,244.00

Growth Rate (%)

2003	-6.0	5.5	4.9	5.2	-2.6	10.3	0.7	-3.0	0.0	0.0	0.0	0.4	4.6
2004	1.9	4.3	4.2	5.4	3.0	5.7	3.2	2.0	0.0	0.0	0.0	3.4	4.5
2005	-1.5	3.9	3.6	3.7	-0.1	3.4	2.1	-4.0	0.0	0.0	0.0	3.2	2.5
2006	1.1	5.3	5.1	4.6	0.2	4.0	2.1	2.1	0.0	0.0	0.0	7.3	3.5
2007	-3.7	1.9	1.7	1.8	-1.3	1.9	2.5	3.3	0.0	0.0	0.0	7.1	1.3
2008	0.9	1.7	1.6	1.7	-0.6	-0.6	2.0	3.0	0.0	0.0	0.0	4.9	0.5
2009	6.7	4.1	4.2	2.0	-3.7	-5.1	-1.1	3.0	0.0	0.0	0.0	16.3	-1.2
2010	-2.4	10.1	9.6	7.5	0.9	11.8	0.7	5.4	0.0	0.0	0.0	15.0	8.0
2011	1.5	-5.8	-5.5	-3.1	-2.5	0.9	-1.3	-4.8	0.0	0.0	0.0	11.0	-1.9
2012	2.8	13.0	12.6	8.5	8.5	8.1	11.5	-18.9	0.0	616.9	0.0	3.4	9.2

Source : MEA

Table 5.2-2Y
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2002	6,429.75	7,906.54	4,727.54	11,046.12	25,839.86	1,574.57	2,421.48	192.13	396.62	10.00	1,159.01	778.09	62,481.72
2003	6,633.84	8,696.93	5,060.51	12,187.24	27,777.98	1,619.98	2,524.02	227.88	433.18	22.41	1,678.91	902.04	67,764.91
2004	6,898.03	9,305.66	5,467.16	12,056.22	32,376.37	1,800.53	2,614.47	250.76	495.29	41.78	1,817.95	995.99	74,120.22
2005	7,094.76	9,749.76	6,122.17	12,815.60	34,825.55	1,848.38	2,696.77	249.36	552.74	64.74	2,093.87	1,069.86	79,183.56
2006	7,285.05	10,483.18	6,519.48	14,145.57	36,628.50	2,075.60	2,803.58	240.02	610.50	152.93	2,110.77	1,327.84	84,383.01
2007	7,347.58	11,359.97	7,056.63	14,666.67	38,833.76	2,254.71	3,015.08	267.77	648.70	38.16	2,067.92	1,400.35	88,957.32
2008	7,404.77	11,905.03	7,476.60	14,793.40	39,603.55	2,425.15	3,140.78	281.46	689.34	92.84	1,789.21	1,543.63	91,145.76
2009	7,916.66	12,560.58	7,962.63	14,665.28	38,358.60	2,589.40	3,388.37	317.86	670.99	93.07	1,625.82	1,571.14	91,720.40
2010	8,119.97	14,380.59	8,726.67	16,061.32	44,000.09	2,947.36	3,691.49	335.29	761.84	82.09	1,642.39	1,720.98	102,470.08
2011	8,178.87	14,495.78	8,801.77	15,621.92	44,630.74	3,019.61	3,594.99	296.71	798.54	68.57	1,618.49	1,821.40	102,947.38
2012	8,338.68	16,709.52	9,804.49	16,756.50	48,593.60	3,420.17	2,749.69	377.07	870.35	586.00	1,678.51	1,832.56	111,717.16

Growth Rate (%)

2003	3.2	10.0	6.9	7.0	10.3	7.5	2.9	4.2	18.6	9.2	124.1	44.9	15.9	8.5
2004	4.0	7.0	5.7	8.0	-1.1	16.6	11.2	3.6	10.0	14.3	86.4	8.3	10.4	9.4
2005	2.9	4.8	4.0	12.0	6.3	7.6	2.7	3.2	-0.6	11.6	55.0	15.2	7.4	6.8
2006	2.7	7.5	5.5	6.5	10.4	5.2	12.3	4.0	-3.8	10.5	136.2	0.8	24.1	6.6
2007	0.9	8.4	5.3	8.2	3.7	6.0	8.6	7.5	11.6	6.3	-75.1	-2.0	5.5	5.4
2008	0.8	4.8	3.2	6.0	0.9	2.0	7.6	4.2	5.1	6.3	143.3	-13.5	10.2	2.5
2009	6.9	5.5	6.1	6.5	-0.9	-3.1	6.8	7.9	12.9	-2.7	0.2	-9.1	1.8	0.6
2010	2.6	14.5	9.9	9.6	9.5	14.7	13.8	9.0	5.5	13.5	-11.8	1.0	9.5	11.7
2011	0.7	0.8	0.8	0.9	-2.7	1.4	2.5	-2.6	-11.5	4.8	-16.5	-1.5	5.8	0.5
2012	2.0	15.3	10.5	11.4	7.3	8.9	13.3	-23.5	27.1	9.0	754.6	3.7	0.6	8.5

Source : PEA

**Table 5.2-3Y
Electricity Consumption for the Whole Country (Classified by Tariff)**

Unit : GWh

Year	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total MEA+PEA	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh													
2002	6,860.83	15,102.35	21,963.17	19,071.62	37,954.18	3,170.72	3,635.18	192.13	396.62	10.00	1,159.01	959.29	98,262.69	1,828.35	100,091.04
2003	7,039.04	16,290.51	23,329.55	20,342.59	41,141.11	3,227.76	3,701.10	227.88	433.18	22.41	1,678.91	1,083.87	105,195.54	1,791.61	106,987.15
2004	7,311.09	17,227.23	24,538.32	21,033.28	46,497.14	3,459.45	3,814.47	250.76	495.29	41.78	1,817.95	1,184.09	113,239.61	1,861.50	115,101.11
2005	7,501.80	17,980.10	25,481.90	21,894.13	49,431.48	3,542.15	3,848.48	249.36	552.74	64.74	2,093.87	1,263.96	119,283.52	1,956.51	121,240.03
2006	7,696.40	19,150.99	26,847.38	22,558.48	51,818.08	3,805.26	3,979.06	240.02	610.50	152.93	2,110.77	1,536.02	125,865.29	2,013.99	127,879.29
2007	7,743.53	20,194.46	27,937.98	23,206.94	54,317.90	4,028.38	4,229.80	267.77	648.70	38.16	2,067.92	1,623.24	130,992.73	2,120.09	133,112.81
2008	7,804.40	20,886.81	28,691.22	23,729.70	54,997.57	4,234.45	4,391.56	281.46	689.34	92.84	1,789.21	1,777.43	133,381.68	2,138.61	135,520.29
2009	8,343.04	21,913.46	30,256.50	22,284.59	52,963.64	4,379.21	4,676.62	317.86	670.99	93.07	1,625.82	1,843.11	133,453.70	1,727.13	135,180.83
2010	8,536.32	24,680.17	33,216.49	23,747.26	60,326.02	4,749.93	5,049.39	335.29	761.84	82.09	1,642.39	2,033.69	147,530.24	1,770.89	149,301.13
2011	8,601.35	24,198.11	32,799.46	23,116.47	61,099.69	4,799.31	4,888.22	296.71	840.63	68.57	1,618.49	2,168.39	147,142.13	1,713.36	148,855.49
2012	8,773.03	27,674.10	36,447.12	24,889.34	66,401.43	5,404.55	3,798.79	377.07	1,172.03	586.00	1,678.51	2,191.39	159,961.15	1,816.93	161,778.08

Growth Rate (%)

2003	2.6	7.9	6.2	6.1	4.9	8.4	1.8	18.6	9.2	124.1	44.9	13.0	7.1	-2.0	6.9
2004	3.9	5.8	5.2	6.7	0.5	13.0	7.2	3.1	10.0	86.4	8.3	9.3	7.7	3.9	7.6
2005	2.6	4.4	3.9	7.8	3.8	6.3	2.4	0.9	-0.6	55.0	15.2	6.8	5.3	5.1	5.3
2006	2.6	6.5	5.4	5.6	6.5	4.8	7.4	3.4	-3.8	136.2	0.8	21.5	5.5	2.9	5.5
2007	0.6	5.5	4.1	5.2	1.9	4.8	5.9	6.3	11.6	-75.1	-2.0	5.7	4.1	5.3	4.1
2008	0.8	3.4	2.7	4.0	0.4	1.3	5.1	3.8	6.3	143.3	-13.5	9.5	1.8	0.9	1.8
2009	6.9	4.9	5.5	4.5	-1.9	-3.7	3.4	6.5	12.9	0.2	-9.1	3.7	0.1	-19.2	-0.3
2010	2.3	12.6	9.8	8.7	6.6	13.9	8.5	8.0	13.5	-11.8	1.0	10.3	10.6	2.5	10.5
2011	0.8	-2.0	-1.3	-0.9	-2.7	1.3	1.0	-3.2	10.3	-16.5	-1.5	6.6	-0.3	-3.3	-0.3
2012	2.0	14.4	11.1	10.2	7.7	8.7	12.6	-22.3	39.4	754.6	3.7	1.1	8.7	6.0	8.7

Source : MEA, PEA and EGAT

Table 5.2-4Y
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	7,626.88	5,023.22	8,744.68	12,761.74	1,213.70	0.00	229.55	35,599.78	181.19	35,780.97
2003	7,998.77	5,282.09	9,258.57	13,298.76	1,177.08	0.00	233.53	37,248.80	181.84	37,430.64
2004	8,334.63	5,566.11	9,804.04	13,791.03	1,200.01	0.00	235.47	38,931.29	188.10	39,119.39
2005	8,637.37	5,771.96	10,171.38	13,915.05	1,151.71	0.00	258.39	39,905.86	194.10	40,099.96
2006	9,079.16	6,039.00	10,584.39	13,968.58	1,175.48	0.00	427.49	41,274.10	208.18	41,482.28
2007	9,230.43	6,150.31	10,767.25	13,863.48	1,214.71	0.00	586.34	41,812.53	222.88	42,035.41
2008	9,381.42	6,253.09	11,020.20	13,546.46	1,250.78	0.00	550.16	42,002.11	233.80	42,235.91
2009	9,779.26	6,379.67	10,951.08	12,369.37	1,288.25	0.00	693.71	41,461.34	271.96	41,733.30
2010	10,715.93	6,859.18	11,489.17	13,778.76	1,357.89	0.00	546.51	44,747.45	312.71	45,060.16
2011	10,124.80	6,644.43	11,683.86	13,574.72	1,293.24	0.00	526.71	43,847.75	346.99	44,194.74
2012	11,398.92	7,210.42	12,910.34	14,309.39	1,049.10	0.00	1,007.00	47,885.17	358.83	48,244.00

Growth Rate (%)

2003	4.9	5.2	5.9	4.2	-3.0	0.0	1.7	4.6	0.4	4.6
2004	4.2	5.4	5.9	3.7	1.9	0.0	0.8	4.5	3.4	4.5
2005	3.6	3.7	3.7	0.9	-4.0	0.0	9.7	2.5	3.2	2.5
2006	5.1	4.6	4.1	0.4	2.1	0.0	65.4	3.4	7.3	3.4
2007	1.7	1.8	1.7	-0.8	3.3	0.0	37.2	1.3	7.1	1.3
2008	1.6	1.7	2.3	-2.3	3.0	0.0	-6.2	0.5	4.9	0.5
2009	4.2	2.0	-0.6	-8.7	3.0	0.0	26.1	-1.3	16.3	-1.2
2010	9.6	7.5	4.9	11.4	5.4	0.0	-21.2	7.9	15.0	8.0
2011	-5.5	-3.1	1.7	-1.5	-4.8	0.0	-3.6	-2.0	11.0	-1.9
2012	12.6	8.5	10.5	5.4	-18.9	0.0	91.2	9.2	3.4	9.2

Source : MEA

Table 5.2-5Y
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	14,336.29	4,727.54	5,486.76	34,137.01	2,421.48	192.13	402.40	61,703.62	778.09	62,481.72
2003	15,330.77	5,060.51	5,932.65	37,330.38	2,524.02	227.88	456.66	66,862.87	902.04	67,764.91
2004	16,203.70	5,467.16	6,588.03	41,373.99	2,614.47	250.76	626.12	73,124.23	995.99	74,120.22
2005	16,844.52	6,122.17	7,031.84	44,375.66	2,696.77	249.36	793.38	78,113.70	1,069.86	79,183.56
2006	17,768.23	6,519.48	7,911.25	47,051.36	2,803.58	240.02	761.27	83,055.17	1,327.84	84,383.01
2007	18,707.55	7,056.63	8,620.35	49,172.17	3,015.08	267.77	717.41	87,556.96	1,400.35	88,957.32
2008	19,309.80	7,476.60	9,433.90	49,060.36	3,140.78	281.46	899.23	89,602.13	1,543.63	91,145.76
2009	20,477.24	7,962.63	9,978.89	47,200.89	3,388.37	317.86	823.37	90,149.26	1,571.14	91,720.40
2010	22,500.56	8,726.67	11,147.91	52,847.67	3,691.49	335.29	1,499.51	100,749.10	1,720.98	102,470.08
2011	22,674.65	8,801.77	11,615.26	53,014.62	3,594.99	296.71	1,127.99	101,125.99	1,821.40	102,947.38
2012	25,048.20	9,804.49	13,780.15	56,605.38	2,749.69	377.07	1,519.60	109,884.59	1,832.56	111,717.16

Growth Rate (%)

2003	6.9	7.0	8.1	9.4	4.2	18.6	13.5	8.4	15.9	8.5
2004	5.7	8.0	11.0	10.8	3.6	10.0	37.1	9.4	10.4	9.4
2005	4.0	12.0	6.7	7.3	3.1	-0.6	26.7	6.8	7.4	6.8
2006	5.5	6.5	12.5	6.0	4.0	-3.7	-4.0	6.3	24.1	6.6
2007	5.3	8.2	9.0	4.5	7.5	11.6	-5.8	5.4	5.5	5.4
2008	3.2	6.0	9.4	-0.2	4.2	5.1	25.3	2.3	10.2	2.5
2009	6.0	6.5	5.8	-3.8	7.9	12.9	-8.4	0.6	1.8	0.6
2010	9.9	9.6	11.7	12.0	8.9	5.5	82.1	11.8	9.5	11.7
2011	0.8	0.9	4.2	0.3	-2.6	-11.5	-24.8	0.4	5.8	0.5
2012	10.5	11.4	18.6	6.8	-23.5	27.1	34.7	8.7	0.6	8.5

Source : PEA

Table 5.2-6Y
Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	21,963.17	9,750.76	14,702.42	48,256.14	3,635.18	192.13	631.95	99,131.75	969.29	100,091.04
2003	23,329.55	10,342.59	15,767.06	51,844.91	3,701.10	227.88	690.18	105,903.28	1,083.87	106,987.15
2004	24,538.32	11,033.28	16,975.84	56,442.76	3,814.47	250.76	861.59	113,917.02	1,184.09	115,101.11
2005	25,481.90	11,894.13	17,781.04	59,669.40	3,848.48	249.36	1,051.77	119,976.07	1,263.96	121,240.03
2006	26,847.38	12,558.48	19,097.15	62,432.42	3,979.06	240.02	1,188.76	126,343.27	1,536.02	127,879.29
2007	27,937.98	13,206.94	19,990.72	64,552.61	4,229.80	267.77	1,303.76	131,489.58	1,623.24	133,112.81
2008	28,691.22	13,729.70	21,051.91	64,147.63	4,391.56	281.46	1,449.39	133,742.86	1,777.43	135,520.29
2009	30,256.50	14,342.30	21,347.09	60,880.27	4,676.62	317.86	1,517.08	133,337.73	1,843.11	135,180.83
2010	33,216.49	15,585.85	22,995.61	68,038.79	5,049.39	335.29	2,046.02	147,267.44	2,033.69	149,301.13
2011	32,799.46	15,446.19	23,659.90	67,941.92	4,888.22	296.71	1,654.70	146,687.10	2,168.39	148,855.49
2012	36,447.12	17,014.91	27,087.87	72,334.32	3,798.79	377.07	2,526.60	159,586.69	2,191.39	161,778.08

Growth Rate (%)

2003	6.2	6.1	7.2	7.4	1.8	18.6	9.2	6.8	13.0	6.9
2004	5.2	6.7	7.7	8.9	3.1	10.0	24.8	7.6	9.2	7.6
2005	3.8	7.8	4.7	5.7	0.9	-0.6	22.1	5.3	6.7	5.3
2006	5.4	5.6	7.4	4.6	3.4	-3.7	13.0	5.3	21.5	5.5
2007	4.1	5.2	4.7	3.4	6.3	11.6	9.7	4.1	5.7	4.1
2008	2.7	4.0	5.3	-0.6	3.8	5.1	11.2	1.7	9.5	1.8
2009	5.5	4.5	1.4	-5.1	6.5	12.9	4.7	-0.3	3.7	-0.3
2010	9.8	8.7	7.7	11.8	8.0	5.5	34.9	10.4	10.3	10.4
2011	-1.3	-0.9	2.9	-0.1	-3.2	-11.5	-19.1	-0.4	6.6	-0.3
2012	11.1	10.2	14.5	6.5	-22.3	27.1	52.7	8.8	1.1	8.7

Source : MEA, PEA and EGAT

Table 5.3-1Y
EGAT Fuel Consumption in Power Generation

Year	Fuel Oil (M.Litres)	Disel Oil (M.Litres)	Natural Gas (MMSCFD)	Lignite (Tons)
1988	831	5	473	5,895,752
1989	1,195	17	484	6,764,206
1990	2,532	163	473	9,875,324
1991	3,164	62	606	11,724,691
1992	3,719	71	640	12,370,539
1993	4,322	288	725	11,490,328
1994	4,789	474	820	12,155,884
1995	5,258	756	838	13,567,494
1996	5,068	1,320	929	16,405,340
1997	4,665	729	1,170	18,010,806
1998	4,253	306	1,205	15,388,095
1999	3,762	135	1,206	13,893,584
2000	2,364	29	1,301	14,120,569
2001	647	75	1,504	15,744,116
2002	499	41	1,632	15,035,329
2003	605	23	1,624	15,406,532
2004	1,296	55	1,671	16,536,694
2005	1,851	49	1,740	16,571,091
2006	1,895	21	1,766	15,815,374
2007	780	8	1,715	15,811,050
2008	249	8	1,558	16,407,465
2009	111	13	1,541	15,818,265
2010	140	12	1,879	16,004,196
2011	314	11	1,591	17,161,168
2012	319	19	1,789	16,754,281

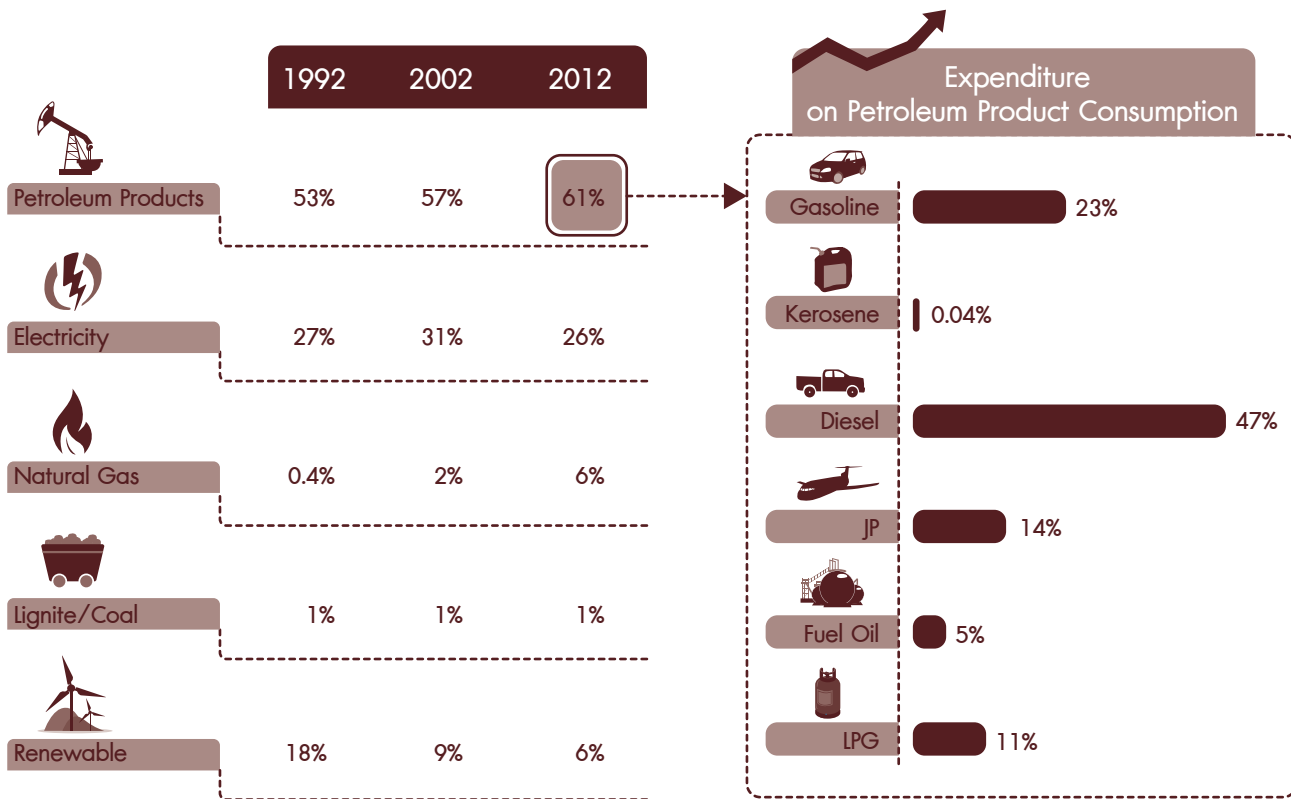
Source : EGAT

Remarks : From Dec 1994 onwards, Disel Oil does not Include Regco Use

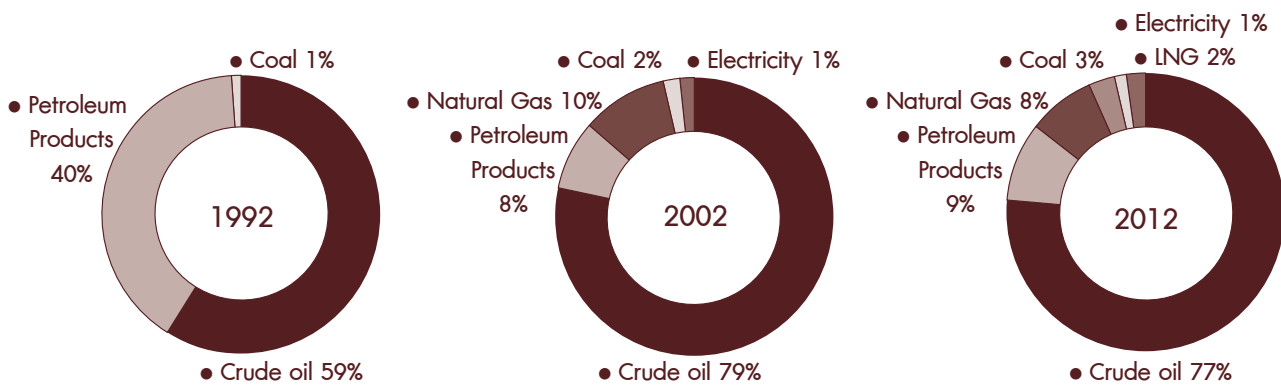


Energy Value

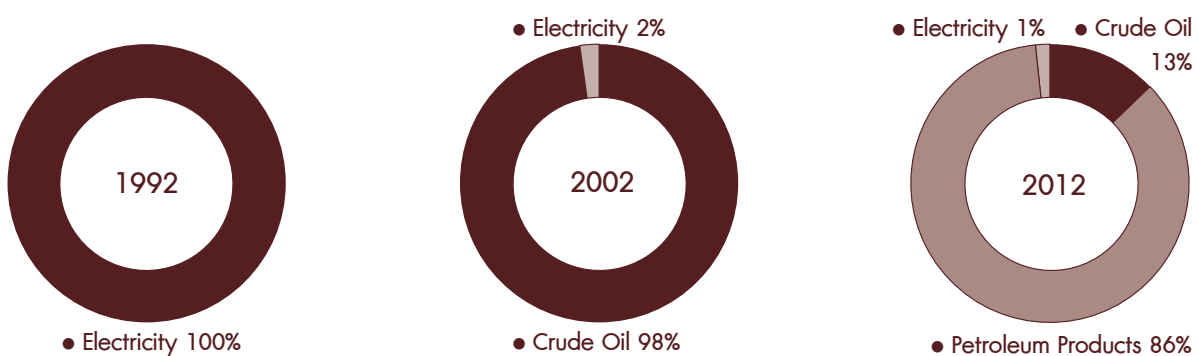
Share of Expenditure on Final Energy Consumption



Value of Energy Import



Value of Energy Export





CHAPTER
บทที่



Energy Value
มูลค่าพลังงาน

บทที่ 6

มูลค่าพลังงาน

มูลค่าการใช้พลังงาน ของประเทศไทยมีแนวโน้มเพิ่มขึ้นต่อเนื่องทุกปี โดยในปี 2555 มีมูลค่าการใช้พลังงานอยู่ที่ระดับ 2,139 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 10.2 โดยมูลค่าการใช้ น้ำมันสำเร็จรูปมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 61 ของมูลค่าการใช้พลังงานทั้งหมด อยู่ที่ระดับ 1,311 พันล้านบาท เพิ่มขึ้นร้อยละ 7.4 จากปีก่อน รองลงมาเป็นมูลค่าการใช้ไฟฟ้า คิดเป็นสัดส่วนร้อยละ 26 อยู่ที่ระดับ 551 พันล้านบาท เพิ่มขึ้นร้อยละ 16.9 มูลค่าการใช้ก๊าซธรรมชาติ และพลังงานทดแทน คิดเป็นสัดส่วนร้อยละ 6 เท่ากัน โดยอยู่ที่ระดับเดียวกันที่ 123 พันล้านบาท เพิ่มขึ้นร้อยละ 25.4 และร้อยละ 2.5 ตามลำดับ และมูลค่าการใช้ถ่านหิน คิดเป็นสัดส่วนเท่ากันร้อยละ 1 อยู่ที่ระดับ 31 พันล้านบาท เพิ่มขึ้นร้อยละ 1.3

มูลค่าการนำเข้าพลังงาน ในปี 2555 มีมูลค่าการนำเข้าทั้งหมด 1,447 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 16.9 โดยมูลค่าการนำเข้าพลังงานเพิ่มขึ้นทุกประเภท

มูลค่าการนำเข้า น้ำมันดิบมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 77 ของมูลค่าการนำเข้าทั้งหมด อยู่ที่ระดับ 1,119 พันล้านบาท เพิ่มขึ้นร้อยละ 14.5 รองลงมาเป็นน้ำมันสำเร็จรูป คิดเป็นสัดส่วนร้อยละ 9 อยู่ที่ระดับ 124 พันล้านบาท ก๊าซธรรมชาติ คิดเป็นสัดส่วนร้อยละ 8 อยู่ที่ระดับ 116 พันล้านบาท มูลค่าการนำเข้าถ่านหิน คิดเป็นสัดส่วนร้อยละ 3 อยู่ที่ระดับ 47 พันล้านบาท เพิ่มขึ้นร้อยละ 10.3 ไฟฟ้านำเข้ามีมูลค่า 16 พันล้านบาท คิดเป็นสัดส่วนร้อยละ 1.0 เพิ่มขึ้นร้อยละ 16.7 และ LNG มีมูลค่าการนำเข้า 24 พันล้านบาท เพิ่มขึ้นร้อยละ 50.2

ประเทศไทยมีสัดส่วนมูลค่าการนำเข้าพลังงานต่อมูลค่าการใช้พลังงานทั้งหมดเพิ่มขึ้นต่อเนื่องทุกปี โดยในปี 2555 มีสัดส่วนการนำเข้าต่อการใช้เพิ่มขึ้นอยู่ที่ระดับร้อยละ 68 สูงกว่าปีที่ผ่านมาซึ่งอยู่ที่ระดับร้อยละ 63

Energy Value

Nominal Value of Energy Consumption. Thailand's value of energy consumption had been increasing each year. In 2012, the nominal terms of energy consumption in Thailand totaled 2,139 billion Baht (approx. US\$ 57.7 billion, at a rate of 31 THB/US\$), an increase of 10.2% from that in the previous year. Petroleum product consumption was worth 1,311 billion Baht, an increase of 7.4% compared with the previous year, accounting for the largest share of 61% of the total energy consumption value. Next to it was the electricity consumption of which the nominal value was 551 billion Baht, an increase by 16.9%, accounting for a share of 26%. Renewable/alternative and Natural gas energy consumption were the same amount 123 billion Baht, an increase of 25.4% and 2.5% respectively. Both account of the same share of 6%. Lignite/coal consumption was worth 31 billion Baht, an increase of 1.3%, holding a share of 1%

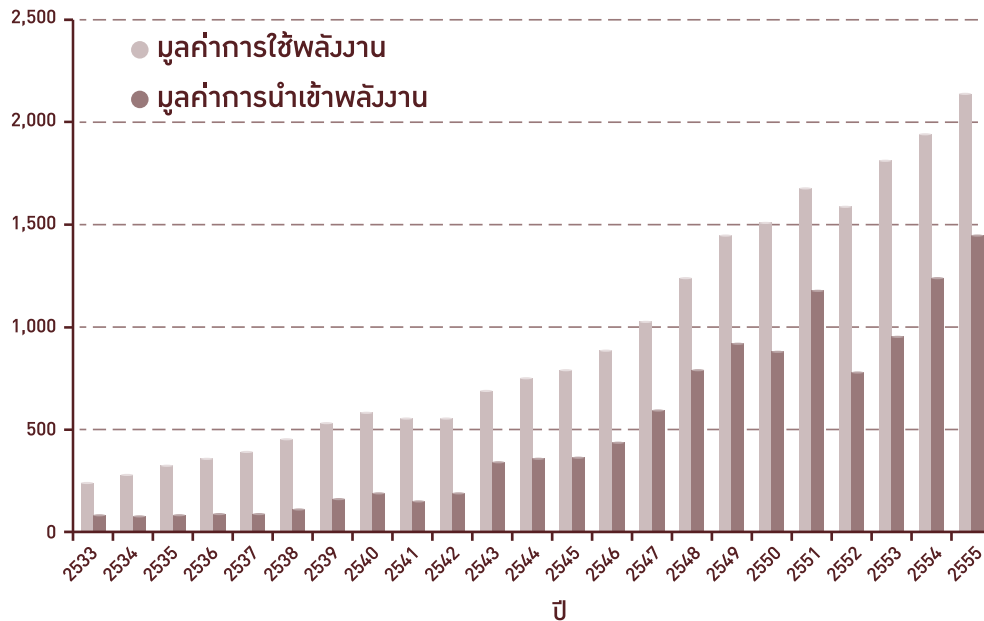
Nominal Value of Energy Import. In 2012, total energy import into Thailand was worth 1,447 billion Baht, an increase of 16.9% from that in the previous year, with increasing import value of all energy types.

The value of imported crude oil, which constituted the largest share (77%) of the total import value, was 1,119 billion Baht, accounting for an increase of 14.5%. Next to it was that of Petroleum product import holding a share of 9%, worth 124 billion Baht, natural gas import holding a share of 8%, worth 116 billion Baht, coal import which was worth 47 billion Baht, an increase of 10.3%, holding a share of 3%.; then imported electricity, worth 16 billion Baht, a considerable increase of 16.7%, but still holding a meager share of 1 %, and finally LNG import , worth 24 billion Baht, accounting for an increase of 50.2%.

In Thailand, the ratio of energy import value to total energy consumption value increases each year. In 2012 the ratio was 68%, increasing 63% from the previous year.

มูลค่าการใช้และการนำเข้าพลังงาน

พันล้านบาท



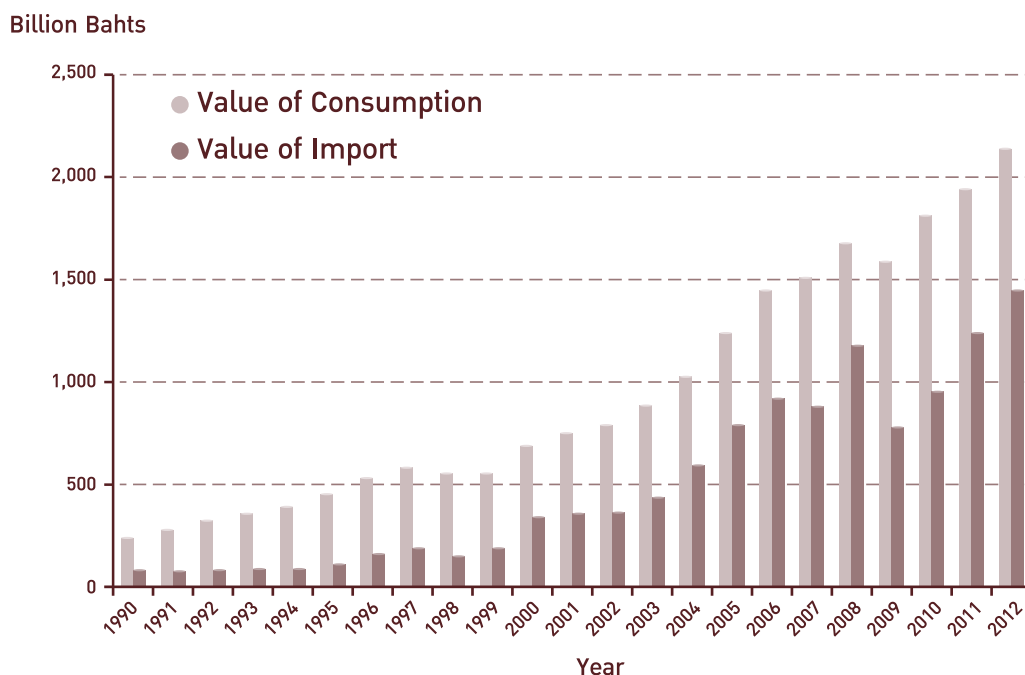
มูลค่าการใช้น้ำมันสำเร็จรูป ในปี 2555 มีมูลค่าการใช้อยู่ที่ระดับ 1,311 พันล้านบาท เพิ่มขึ้นจาก

ปีก่อนร้อยละ 7.4 โดยมูลค่าการใช้น้ำมันดีเซลมีสัดส่วนมากที่สุด คิดเป็นร้อยละ 48 ของมูลค่าการใช้น้ำมันสำเร็จรูปทั้งหมด เพิ่มขึ้นร้อยละ 10.6 รองลงมาเป็นน้ำมันเบนซินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 23 เพิ่มขึ้นร้อยละ 9.9 น้ำมันเครื่องบินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 14 ลดลงร้อยละ 5.6 ก๊าซ LPG มีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 11 เพิ่มขึ้นร้อยละ 8.4 และน้ำมันเตามีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 5 เพิ่มขึ้นร้อยละ 5.3

มูลค่าการส่งออกพลังงาน ในปี 2555 มีมูลค่าการส่งออกอยู่ที่ระดับ 401 พันล้านบาท เพิ่มขึ้นจาก

ปีก่อนร้อยละ 24.8 โดยมูลค่าการส่งออกน้ำมันสำเร็จรูปมีสัดส่วนการส่งออกมากที่สุด คิดเป็นร้อยละ 86 ของมูลค่าการส่งออกทั้งหมด เพิ่มขึ้นร้อยละ 23.8 รองลงมาเป็นน้ำมันดิบมีสัดส่วนการส่งออกคิดเป็นร้อยละ 13 ของมูลค่าการส่งออกทั้งหมด เพิ่มขึ้นร้อยละ 32.4 และไฟฟ้ามีสัดส่วนการส่งออกน้อยที่สุด คิดเป็นร้อยละ 1 ของมูลค่าการส่งออกทั้งหมด เพิ่มขึ้นร้อยละ 26.2

Nominal Value of Energy Consumption & Import



Nominal Value of Petroleum Product Consumption. In 2012, the worth of petroleum product consumption was 1,311 billion Baht, increasing by 7.4% from that in 2011. The worth of diesel consumption increased by 10.6%, accounting for the largest share (48%) of the total petroleum product consumption value. Next to it was gasoline, holding a share of 23% of the total consumption value, or an increase of 9.9%. Jet petroleum had a share of 14%, a decreasing by 5.6%; LPG holding a share of 11%, increasing by 8.4%; and fuel oil, holding a share of 5%, increasing by 5.3%.

Nominal Value of Energy Export. In 2012, the nominal value of energy export stood at 401 billion Baht, increasing by 24.8% from that in the previous year. Petroleum product export accounted for the largest share, i.e. 86%, of the total energy export value, accounting for an increase of 23.8%. Next to it was crude oil, worth 13% of the total energy export value, an increasing of 32.4%; and then electricity, holding only 1% of the total energy export value, increasing of 26.2%.

Table 6.1-1Y
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Petroleum Products	161,577	171,865	188,741	199,027	232,997	280,397	318,671	306,762	309,746	407,912	430,516
Electricity	73,201	87,354	98,239	111,531	136,231	153,410	162,115	175,418	167,864	199,059	232,655
Natural Gas	827	1,200	1,519	2,067	3,059	3,398	4,685	4,622	5,942	10,283	11,396
Lignite/Coal	2,529	2,841	3,595	4,835	5,821	7,511	7,819	5,870	6,202	5,667	7,569
Renewable*	41,125	60,461	65,323	72,738	76,815	85,536	87,341	63,635	65,235	66,958	70,255
Total	279,260	323,722	357,417	390,198	454,922	530,253	580,630	556,307	554,989	689,879	752,390

Table 6.1-1Y (Cont.)
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Petroleum Products	451,554	515,313	605,407	774,404	916,291	956,733	1,092,114	960,067	1,106,668	1,220,582	1,311,027
Electricity	247,528	267,559	302,830	330,086	387,213	392,669	397,924	431,165	474,671	471,604	550,672
Natural Gas	13,413	16,404	16,361	22,275	28,880	35,110	53,867	49,272	68,724	97,666	122,509
Lignite/Coal	8,767	10,033	13,349	18,438	18,024	23,128	28,673	28,611	29,738	31,196	31,607
Renewable*	69,932	75,122	86,235	95,541	97,142	102,103	103,991	115,268	129,370	119,673	122,627
Total	791,195	884,432	1,024,182	1,240,743	1,447,550	1,509,743	1,676,568	1,584,383	1,809,170	1,940,720	2,138,442

* Estimate

Source : PTT, EGAT, DOE, DEDE

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2Y
Expenditure on Petroleum Product Consumption

Unit : Million Bahts

Energy Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Gasoline	24,699	28,069	32,340	38,062	39,703	44,377	47,775	57,017	64,344	76,622	83,661	84,184
- Regular	13,718	15,175	16,379	19,159	19,215	19,260	18,247	19,572	19,161	19,841	24,571	26,873
- Premium	10,980	12,894	15,961	18,902	20,489	25,118	29,527	37,445	45,183	56,781	59,090	57,311
Kerosene	769	730	838	987	1,004	960	969	878	985	951	647	613
Diesel	44,389	52,631	65,596	79,712	80,493	92,436	94,884	112,987	142,109	158,139	137,998	139,458
J.P.	11,210	12,927	15,610	21,923	24,334	25,896	26,707	28,681	33,993	39,547	38,846	39,100
Fuel Oil	5,582	7,146	8,491	10,138	14,381	12,161	14,739	18,085	20,733	23,515	23,646	26,931
LPG	7,450	8,359	9,129	10,756	11,950	12,910	13,953	15,350	18,233	19,897	21,964	19,460
Total	94,098	109,861	132,004	161,577	171,865	188,741	199,027	232,997	280,397	318,671	306,762	309,746

Table 6.1-2Y (Cont.)
Expenditure on Petroleum Product Consumption

Unit : Million Bahts

Energy Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Gasoline	102,308	102,318	107,765	122,450	141,585	166,787	193,415	204,467	220,348	214,832	249,036	271,490	298,487
- Regular	49,214	55,815	62,104	71,232	84,390	100,458	121,885	132,532	138,594	124,046	154,621	184,308	210,016
- Premium	53,094	46,503	45,662	51,218	57,195	66,329	71,531	71,935	81,754	90,786	94,415	87,182	88,471
Kerosene	739	903	963	604	454	520	562	526	593	657	572	496	484
Diesel	192,492	203,176	210,375	245,980	285,424	386,712	468,950	478,902	542,811	438,079	522,176	565,081	625,259
J.P.	52,845	59,339	58,802	62,995	82,786	105,301	128,856	142,742	175,118	164,897	176,736	193,917	183,075
Fuel Oil	36,980	36,194	39,625	45,350	52,239	65,574	68,524	63,754	69,647	52,101	54,500	57,057	60,069
LPG	22,547	28,586	34,024	37,933	42,920	49,510	55,984	66,343	83,598	89,501	103,648	132,542	143,653
Total	407,912	430,516	451,554	515,313	605,407	774,404	916,291	956,733	1,092,114	960,067	1,106,668	1,220,582	1,311,027

Remarks : Final Energy Consumption
Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3Y
Value of Energy Import

Unit : Million Bahts

Energy Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Crude Oil	21,414	32,593	42,792	39,855	48,644	51,024	55,363	72,122	121,937	166,545	137,100	169,633
Pet. Products	16,207	23,120	39,064	39,039	33,458	37,254	32,839	37,203	37,101	20,772	10,538	15,122
Natural Gas												
Coal	516	864	646	719	649	1,019	1,719	2,174	3,985	3,813	2,068	4,010
Electricity										710	2,494	3,431
LNG												
Total	38,136	56,577	82,502	79,613	82,751	89,298	89,920	111,499	163,023	191,840	152,200	192,196

Table 6.1-3Y (Cont.)
Value of Energy Import

Unit : Million Bahts

Energy Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Crude Oil	285,862	284,373	286,953	346,057	486,627	644,933	753,783	715,789	1,002,667	623,024	751,467	977,374	1,119,338
Pet. Products	39,028	30,668	27,854	33,168	44,677	59,825	62,381	50,251	41,063	29,116	66,835	94,279	124,350
Natural Gas	7,839	30,559	35,073	42,635	46,053	62,827	77,843	78,901	90,506	84,208	84,481	93,493	116,325
Coal	5,068	7,489	7,872	9,370	12,275	15,422	18,896	29,656	36,456	36,935	39,361	42,336	46,702
Electricity	4,671	4,701	4,474	4,159	5,659	7,114	8,294	7,414	4,540	3,623	8,157	13,860	16,171
LNG												15,993	24,023
Total	342,468	357,790	362,226	435,389	595,291	790,122	921,197	882,012	1,175,232	776,906	950,300	1,237,336	1,446,909

Source : PTT, EGAT, DOE, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4Y
Value of Energy Export

Unit : Million Bahts

Energy Type	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Crude Oil										14,449	18,075
Petroleum Products											
Electricity	71	82	100	142	163	188	292	334	329	407	451
Total	71	82	100	142	163	188	292	334	329	14,855	18,526

Table 6.1-4Y (Cont.)
Value of Energy Export

Unit : Million Bahts

Energy Type	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Crude Oil	29,356	33,883	52,858	56,835	45,812	56,575	27,410	26,107	38,926	51,531
Petroleum Products		86,459	111,534	160,926	159,077	260,384	205,286	231,864	278,257	344,384
Electricity	500	647	1,328	1,730	2,145	2,801	4,068	4,087	4,140	5,223
Total	29,856	120,989	165,721	219,491	207,034	319,760	236,764	262,058	321,322	401,138

Source : PTT, EGAT, DOE, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Energy and Economics

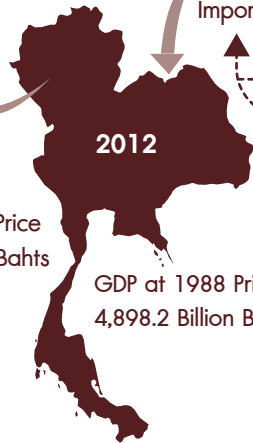
Export 7,091.3 Billion Bahts

Import 7,738.5 Billion Bahts

Goods and Services 6,315.7
Energy 1,422.9

GDP at Current Price
11,375.3 Billion Bahts

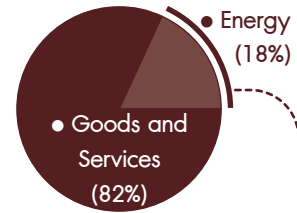
GDP at 1988 Price
4,898.2 Billion Bahts



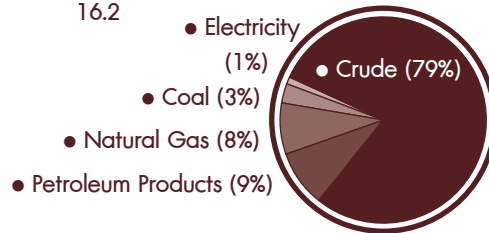
Crude	1,119.3
Petroleum Products	124.3
Natural Gas	116.3
Coal	46.7
Electricity	16.2

Unit : Billion Bahts

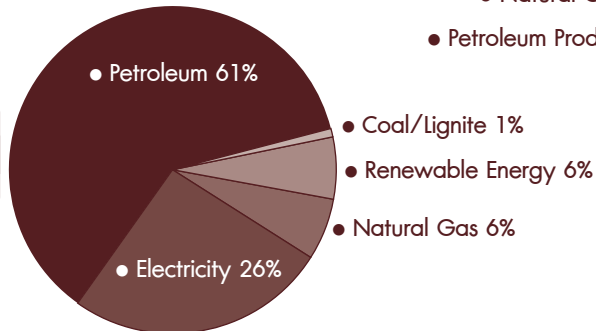
Value of Import



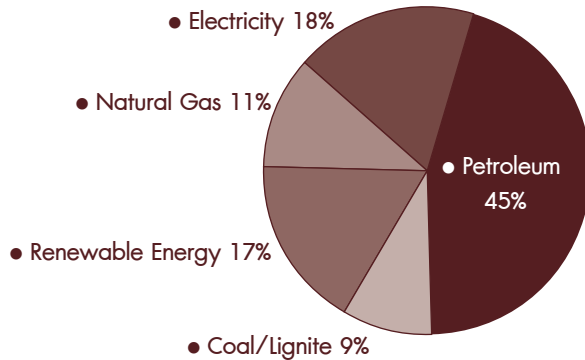
Value of Energy Import



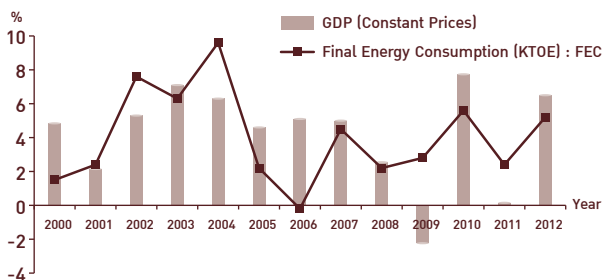
Value of Final Energy Consumption
2,139.0 Billion Bahts



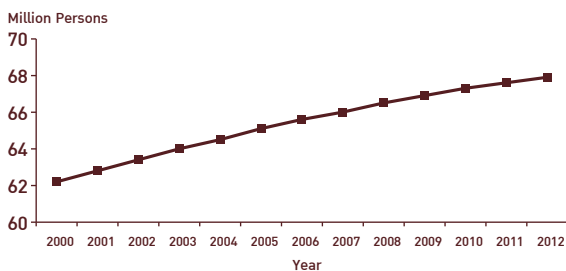
Final Energy Consumption
78,393 KTOE



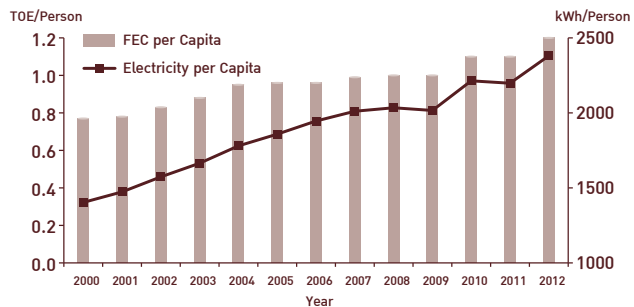
Growth Rate (%)



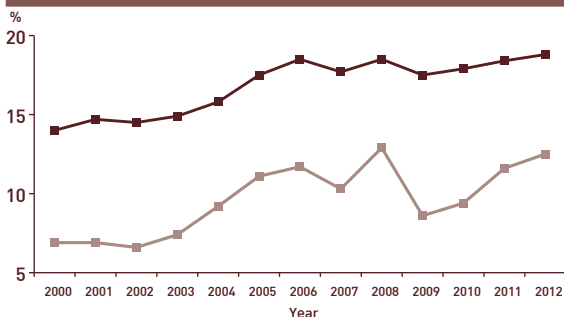
Population (Million Persons)



Ratios (%)

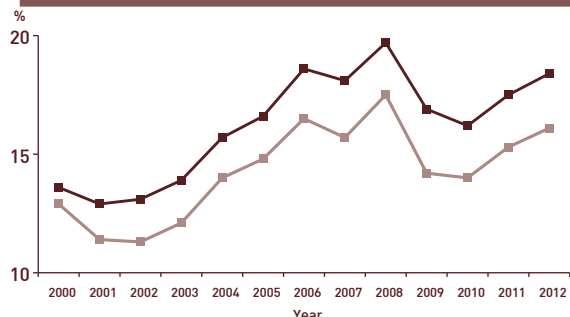


Ratios (%)



■ FEC Value : GDP at current Market Prices
■ Value of Imported Energy : GDP at current Market Prices

Ratios (%)



■ Value of Imported Energy : Total Import
■ Value of Imported Petroleum : Total Import



CHAPTER
บทที่

7

Energy and Economics
พลังงานกับเศรษฐกิจ

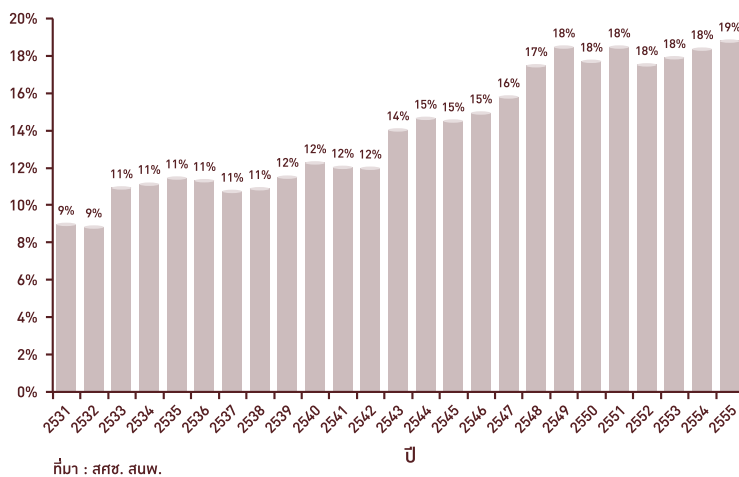
บทที่
7

พลังงานกับเศรษฐกิจ

อัตราการเจริญเติบโตทางเศรษฐกิจของไทย (GDP) ปี 2555 ขยายตัวอยู่ที่ร้อยละ 6.5 พ้นตัวจากผลของมหาอุทกภัยในปีที่ผ่านมา โดยมีปัจจัยสำคัญจากการขยายตัวทั้งด้านการผลิตและการใช้จ่าย โดยเฉพาะภาคอุตสาหกรรมและการใช้จ่ายภาคครัวเรือน รวมทั้งได้รับแรงส่งจากการขยายตัวเร่งขึ้นของการบริโภคภาคเอกชน และรายจ่ายภาครัฐ ในขณะที่การส่งออกยังคงหดตัวต่อเนื่องจากผลกระทบวิกฤตเศรษฐกิจยุโรปและอเมริกา

มูลค่าการใช้พลังงานต่อ GDP ณ ราคาตลาด คือ การเปรียบเทียบสัดส่วนมูลค่าการใช้พลังงานต่อรายได้ประชาชาติ ซึ่งมีแนวโน้มเพิ่มขึ้น โดยในปี 2555 ประเทศไทยมีมูลค่าการใช้พลังงานต่อ GDP อยู่ที่ร้อยละ 18.8 ในขณะที่ปี 2531 มีสัดส่วนอยู่ที่ร้อยละ 9.0 เท่านั้น

สัดส่วนมูลค่าการใช้พลังงานต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)



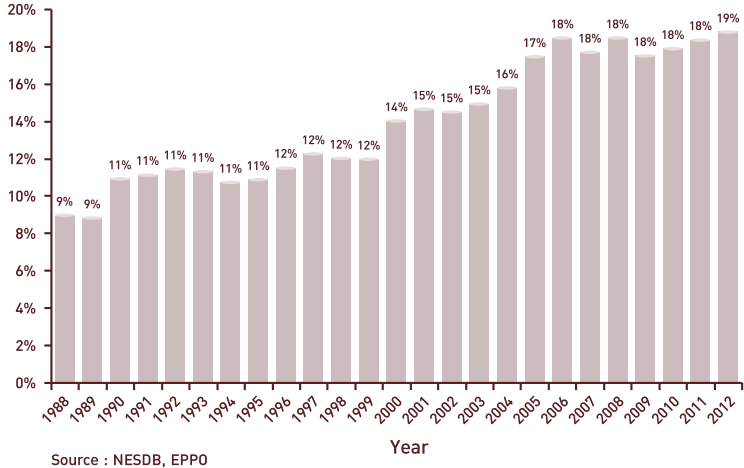
มูลค่าการนำเข้าพลังงานต่อ GDP ณ ราคาตลาด คือ การเปรียบเทียบสัดส่วนมูลค่าการนำเข้าพลังงานต่อรายได้ประชาชาติ โดยในช่วงปี 2530-2540 ซึ่งเป็นช่วงก่อนเกิดวิกฤตเศรษฐกิจ ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานเฉลี่ยอยู่ที่ร้อยละ 3.0 ของ GDP เนื่องจากราคาพลังงานอยู่ในระดับต่ำ แต่ในช่วงหลังเกิดวิกฤตเศรษฐกิจราคาน้ำมันดิบปรับตัวสูงขึ้นมาก จึงมีผลทำให้ประเทศไทยต้องสูญเสียเงินตราต่างประเทศเพิ่มขึ้น โดยในปี 2551 ราคาน้ำมันดิบอยู่ในระดับสูง ประเทศไทยจึงต้องใช้จ่ายเงินในการนำเข้าพลังงานสูงถึงร้อยละ 12.9 ของ GDP และปัจจุบันปี 2555 ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานอยู่ที่ร้อยละ 12.5 ของ GDP

Energy and Economics

In 2012, Thailand's economic growth, Gross Domestic Product (GDP), was around 6.5% year-on-year basis due to an economic rebound from a flood disaster in the year before. The main factors which made such a high growth were a high expansion in manufacturing production and in private consumption. Furthermore, government expenditure impacted the economic growth as well. However, Thailand's exports declined since economic crisis in Europe and the USA remained continue.

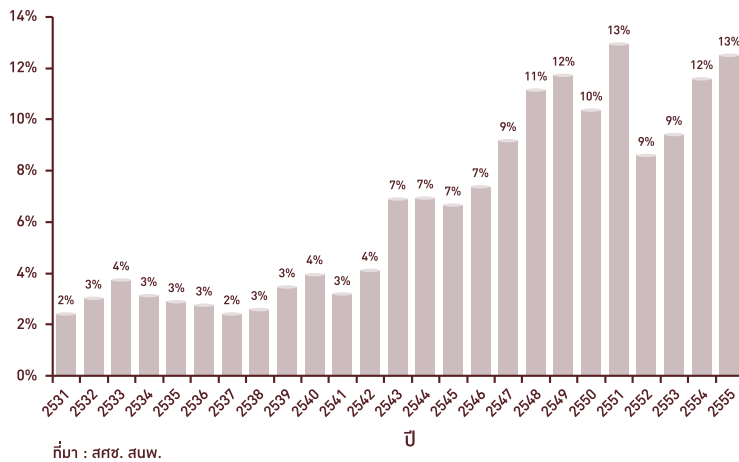
Final Energy Consumption Value and GDP current price - It is a ratio of energy consumption value over GDP in current price, in terms of Baht, as a percentage. In 2012, the ratio was 18.8% higher than the previous year. However compared to 1988, it was only 9.0%.

Final Energy Consumption Value and GDP (at Current Market Prices)



Energy Import Value and GDP current price - It is a percentage of a ratio of energy import value over GDP in current price and in terms of Baht. During 1988 till 1997, a period before the 1998 Thailand's economic crisis, energy import value accounted for a proportion of GDP only 3.0%. After that since oil price soared up high, Thailand had a high value of energy imports. In 2008, crude oil price was the highest in record, and it became a year that had the highest energy import value to GDP around 12.9%. In 2012, this ratio was 12.5%.

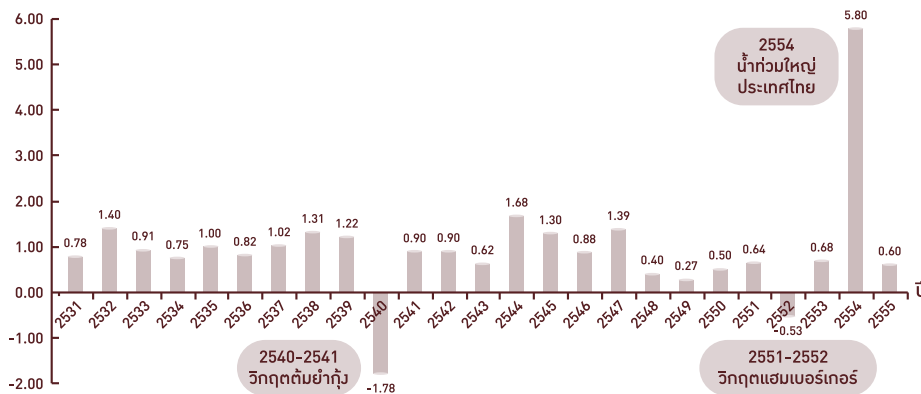
สัดส่วนมูลค่าการนำเข้าพลังงานต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)



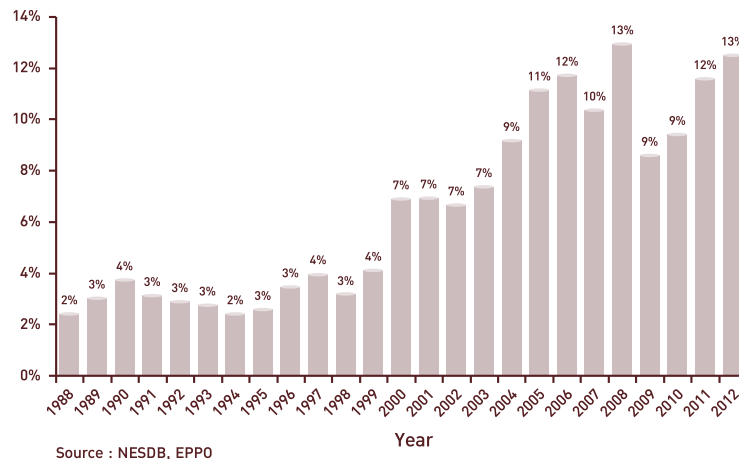
Energy Elasticity (EE) หรือความยืดหยุ่นการใช้พลังงาน คืออัตราการเปลี่ยนแปลงการใช้พลังงาน ต่ออัตราการเปลี่ยนแปลง GDP ซึ่งเป็นดัชนีชี้วัดประสิทธิภาพการใช้พลังงาน

ในช่วง 20 ปีที่ผ่านมา คือปี 2536-2555 ค่า EE ของประเทศไทยอยู่ที่ระดับ 0.97 หมายถึง GDP เปลี่ยนแปลงเพิ่มขึ้นร้อยละ 1.00 จะทำให้การใช้พลังงานของประเทศไทยเปลี่ยนแปลงเพิ่มขึ้นร้อยละ 0.97 โดยในช่วง 10 ปีแรก คือปี 2536-2545 การใช้พลังงานยังไม่มีประสิทธิภาพมากนัก ค่า EE อยู่ที่ระดับ 1.29 แต่ในช่วงหลังประเทศไทยมีการปรับปรุงประสิทธิภาพการใช้พลังงานมากขึ้น อาทิ ส่งเสริมการใช้เครื่องใช้ไฟฟ้าที่ติดฉลากประสิทธิภาพเบอร์ 5 ปรับปรุงเครื่องจักรในโรงงานอุตสาหกรรม และมาตรการประหยัดพลังงาน เป็นต้น ทำให้ในช่วง 10 ปีหลัง คือปี 2546-2555 ค่า EE อยู่ที่ระดับ 0.71

ความยืดหยุ่นการใช้พลังงาน (รายปี)

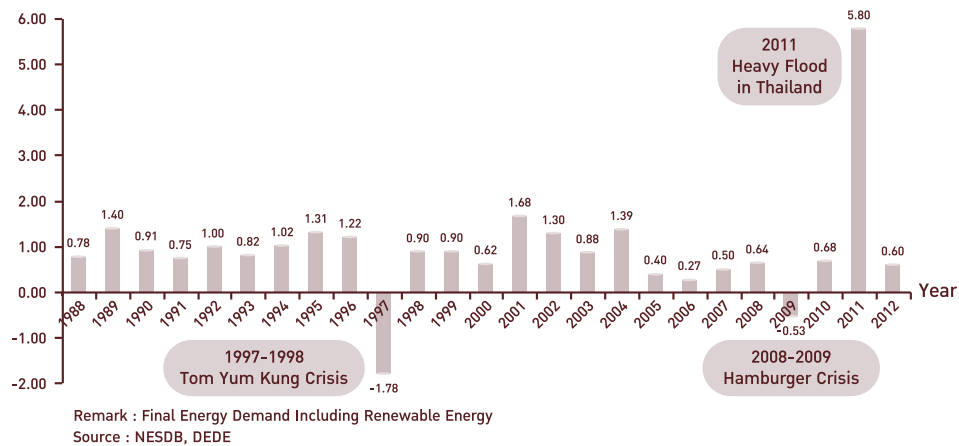


Energy Import Value and GDP (at Current Market Prices)

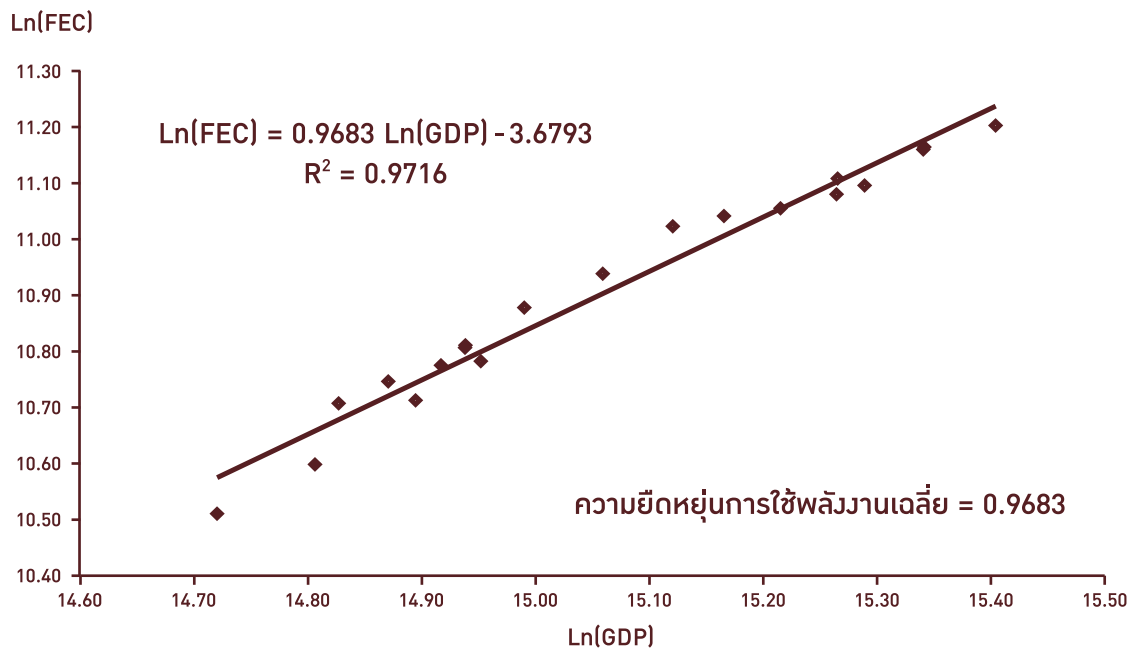


Energy Elasticity (EE) - Income elasticity for energy here was defined as a percent change in energy consumption (final energy consumption) to a percent change in real terms of GDP. In a last two decades, during 1993-2012, EE was around 0.97. It was inelasticity, less than 1.00. However the EE during 1993-2002 was greater than 1.00 to be at 1.29. In a contrast, EE in a period of 2003-2012 was much less than 1.00 to be around 0.71. It showed that Thailand had an energy efficiency improvement during a period of 20 years.

Energy Elasticity (Yearly)

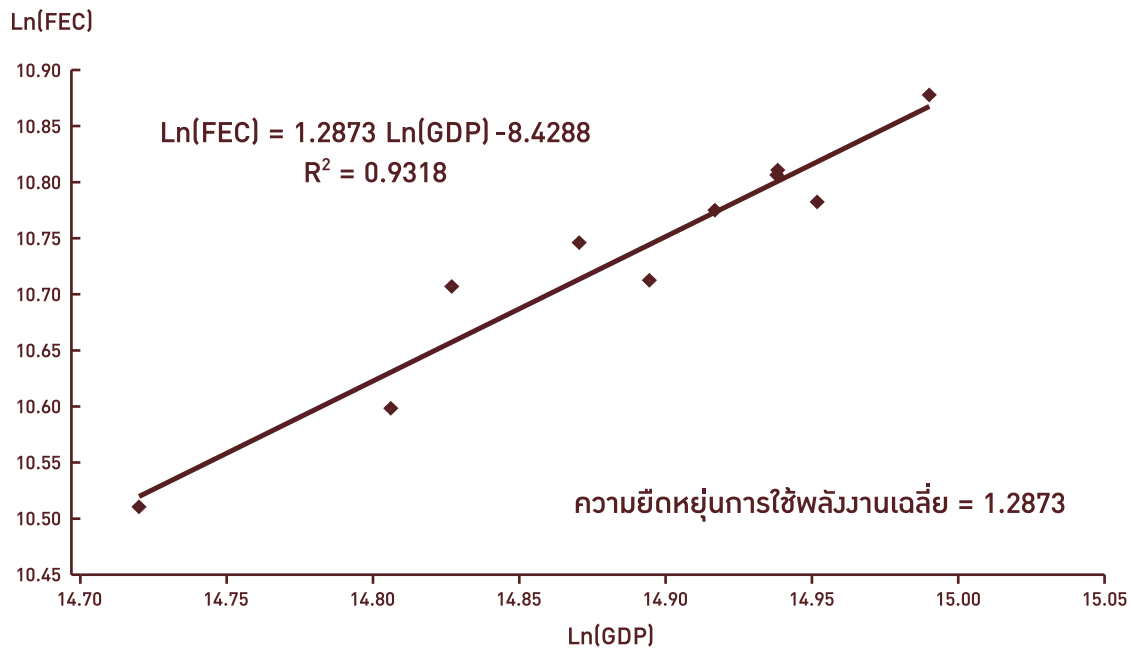


ความยืดหยุ่นการใช้พลังงาน (ปี 2536-2555)



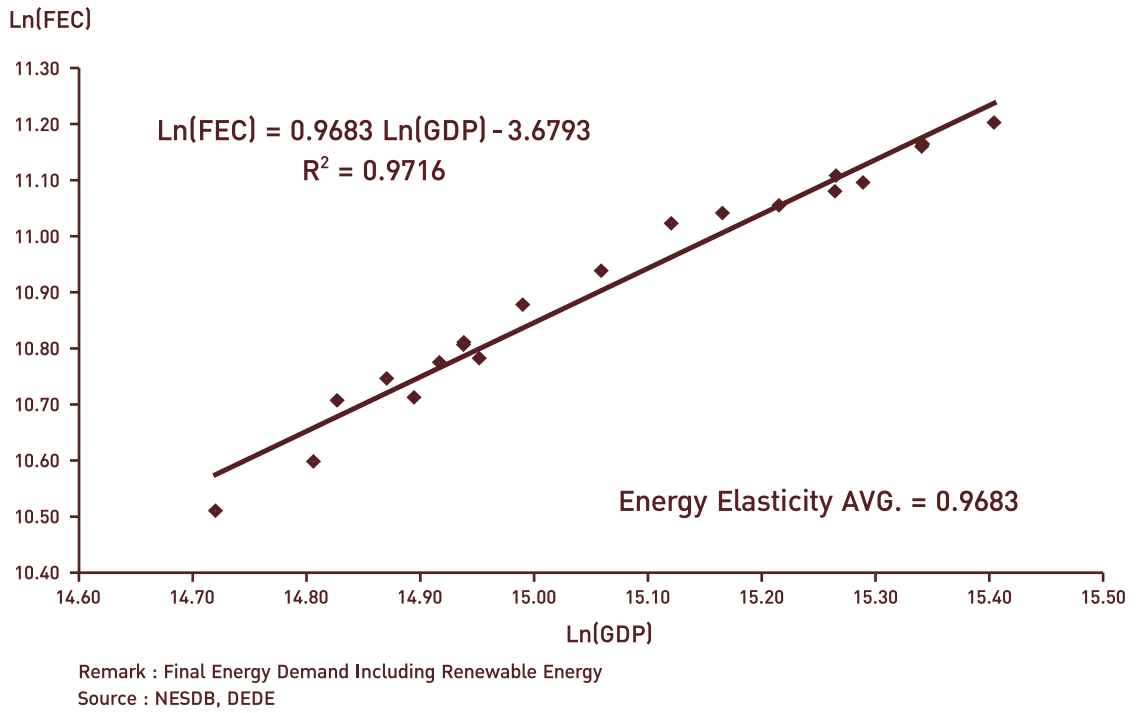
หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน
 ที่มา : สศช. พ.พ.

ความยืดหยุ่นการใช้พลังงาน (ปี 2536-2545)

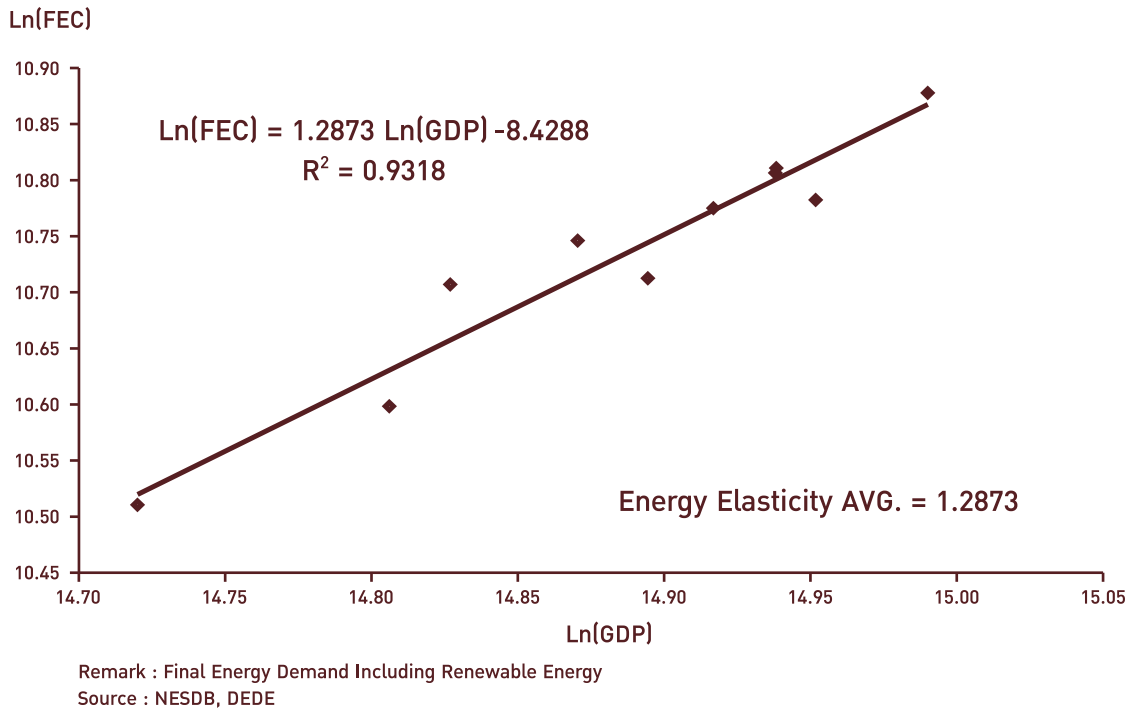


หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน
 ที่มา : สศช. พ.พ.

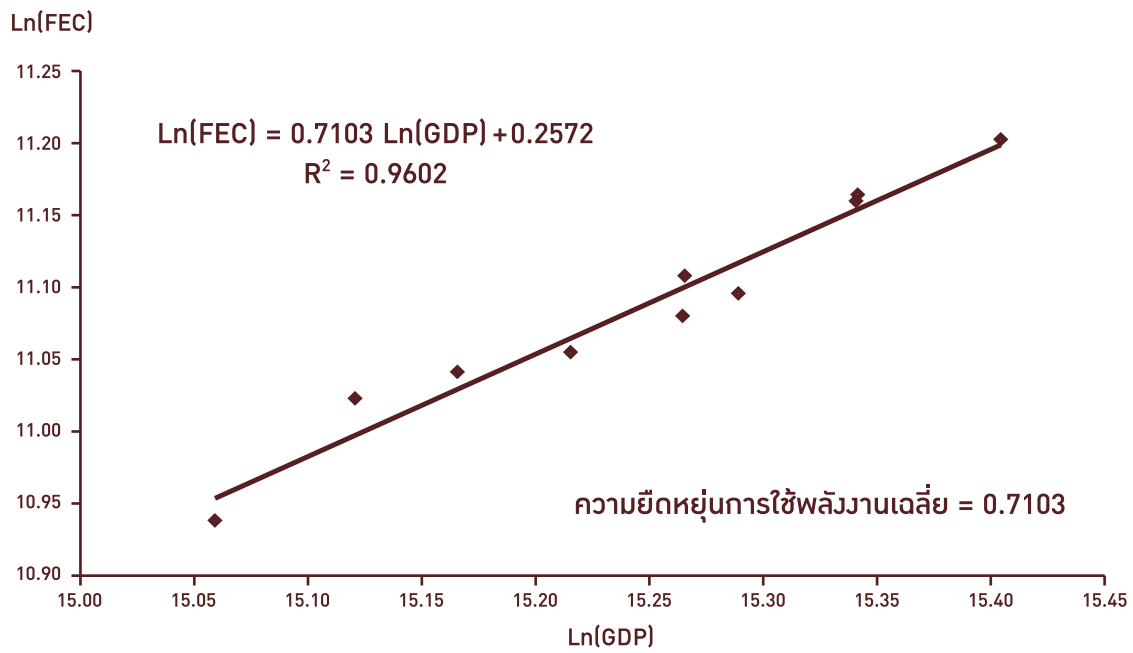
Energy Elasticity (1993-2012)



Energy Elasticity (1993-2002)

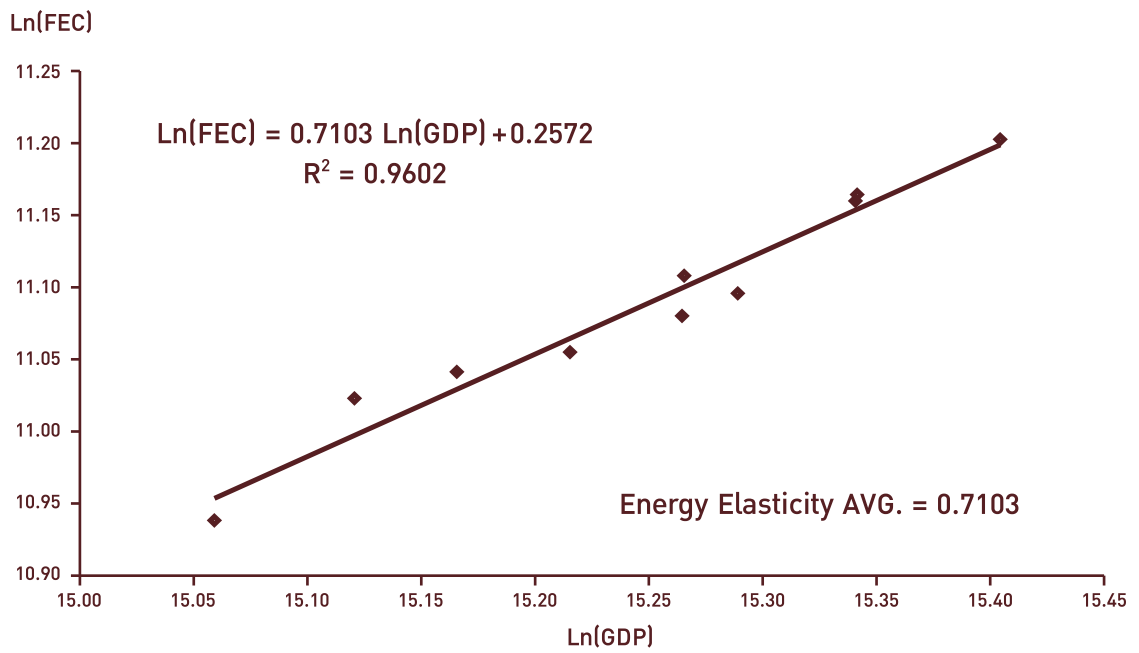


ความยืดหยุ่นการใช้พลังงาน (ปี 2546-2555)



หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน
ที่มา : สศช. พ.พ.

Energy Elasticity (2003-2012)



Remark : Final Energy Demand Including Renewable Energy
Source : NESDB, DEDE

Table 7.1-1
GDP at Constant 1988 Prices

Unit : Million Bahts

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Agriculture	252,346	276,569	263,607	282,740	296,277	255,106	265,893	276,590	288,840	286,833	282,606	289,178	309,948
Mining	26,599	28,227	31,053	36,085	37,959	40,770	43,841	44,748	52,892	59,973	56,244	60,865	64,235
Manufacturing	403,034	467,632	540,932	604,337	672,636	781,865	856,547	958,374	1,021,419	1,036,152	923,602	1,033,431	1,096,168
Construction	74,449	95,554	116,606	132,494	138,700	150,710	172,036	183,600	196,540	146,138	90,235	84,060	76,323
Electricity	35,298	42,259	46,841	51,750	57,115	62,413	69,335	79,054	81,962	86,705	86,117	88,823	97,570
Transportation	116,611	128,754	146,796	157,644	172,764	191,420	213,273	239,223	267,255	279,945	254,462	270,147	290,388
Res. and Com.	651,467	710,957	799,537	846,812	907,121	988,624	1,072,048	1,160,147	1,206,430	1,176,869	1,056,418	1,045,476	1,073,769
Total	1,559,804	1,749,952	1,945,372	2,111,862	2,282,572	2,470,908	2,692,973	2,941,736	3,115,338	3,072,615	2,749,684	2,871,980	3,008,401
Growth Rate (%)													
Agriculture	10.5	9.6	-4.7	7.3	4.8	-13.9	4.2	4.0	4.4	-0.7	-1.5	2.3	7.2
Mining	10.3	6.1	10.0	16.2	5.2	7.4	7.5	2.1	18.2	13.4	-6.2	8.2	5.5
Manufacturing	17.9	16.0	15.7	11.7	11.3	16.2	9.6	11.9	6.6	1.4	-10.9	11.9	6.1
Construction	12.7	28.3	22.0	13.6	4.7	8.7	14.2	6.7	7.0	-25.6	-38.3	-6.8	-9.2
Electricity	12.0	19.7	10.8	10.5	10.4	9.3	11.1	14.0	3.7	5.8	-0.7	3.1	9.8
Transportation	15.9	10.4	14.0	7.4	9.6	10.8	11.4	12.2	11.7	4.7	-9.1	6.2	7.5
Res. and Com.	11.5	9.1	12.5	5.9	7.1	9.0	8.4	8.2	4.0	-2.5	-10.2	-1.0	2.7
Total	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5	4.4	4.8

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-1 (Cont.)
GDP at Constant 1988 Prices

Unit : Million Bahts

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Agriculture	320,016	322,179	363,033	354,431	347,892	365,428	369,772	385,225	390,362	381,401	396,951	412,175
Mining	64,622	71,741	76,616	80,837	88,081	91,585	95,088	95,280	96,105	101,141	99,031	107,135
Manufacturing	1,111,457	1,190,807	1,318,279	1,426,338	1,499,882	1,588,105	1,686,372	1,751,411	1,645,015	1,873,170	1,793,358	1,917,142
Construction	76,471	80,615	82,837	88,790	93,809	98,086	100,511	95,190	95,551	102,090	96,875	104,469
Electricity	103,937	110,137	115,195	122,525	129,004	135,114	141,975	147,603	148,880	163,848	164,448	180,358
Transportation	310,058	331,168	340,644	366,290	383,925	407,682	432,037	429,933	413,666	430,338	441,898	477,587
Res. and Com.	1,087,040	1,130,395	1,171,562	1,248,978	1,315,426	1,368,504	1,433,271	1,460,191	1,473,560	1,544,124	1,607,094	1,699,323
Total	3,073,601	3,237,042	3,468,166	3,688,189	3,858,019	4,054,504	4,259,026	4,364,833	4,263,139	4,596,112	4,599,655	4,898,189
Growth Rate (%)												
Agriculture	3.2	0.7	12.7	-2.4	-1.8	5.0	1.2	4.2	1.3	-2.3	4.1	3.8
Mining	0.6	11.0	6.8	5.5	9.0	4.0	3.8	0.2	0.9	5.2	-2.1	8.2
Manufacturing	1.4	7.1	10.7	8.2	5.2	5.9	6.2	3.9	-6.1	13.9	-4.3	6.9
Construction	0.2	5.4	2.8	7.2	5.7	4.6	2.5	-5.3	0.4	6.8	-5.1	7.8
Electricity	6.5	6.0	4.6	6.4	5.3	4.7	5.1	4.0	0.9	10.1	0.4	9.7
Transportation	6.8	6.8	2.9	7.5	4.8	6.2	6.0	-0.5	-3.8	4.0	2.7	8.1
Res. and Com.	1.2	4.0	3.6	6.6	5.3	4.0	4.7	1.9	0.9	4.8	4.1	5.7
Total	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1	6.5

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-2
Population

Unit : Persons

Year	Population	Growth (%)
1988	54,326,000	1.7
1989	55,214,000	1.6
1990	55,839,000	1.1
1991	56,574,000	1.3
1992	57,294,000	1.3
1993	58,010,000	1.2
1994	58,713,000	1.2
1995	59,401,000	1.2
1996	60,003,000	1.0
1997	60,602,000	1.0
1998	61,201,000	1.0
1999	61,806,000	1.0
2000	62,236,000	0.7
2001	62,836,000	1.0
2002	63,419,000	0.9
2003	63,982,000	0.9
2004	64,531,000	0.9
2005	65,099,000	0.9
2006	65,574,000	0.7
2007	66,041,000	0.7
2008	66,482,000	0.7
2009	66,903,000	0.6
2010	67,313,000	0.6
2011	67,597,000	0.4
2012	67,912,000	0.5

Source : Office of The National Economic and Social Development Board (NESDB)

Table 7.1-3
Industrial Index

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Jan	96.6	101.9	103.8	125.0	138.8	150.7	157.6	167.3	188.4	140.5	182.3	194.6	172.1
Feb	95.6	99.7	102.7	119.4	139.2	142.0	161.3	163.3	186.1	139.2	185.9	187.7	188.1
Mar	104.8	111.0	116.2	135.9	145.9	166.8	178.7	180.8	200.5	155.2	214.8	208.6	210.3
Apr	87.5	90.3	105.0	119.1	128.2	141.0	148.3	151.2	169.6	140.1	179.9	163.4	177.3
May	98.5	104.8	117.0	125.7	141.2	155.7	170.6	172.8	189.8	156.1	190.3	177.1	211.2
Jun	101.1	105.0	114.7	127.6	143.5	161.7	165.8	172.4	189.2	166.2	199.4	206.8	205.3
Jul	97.0	102.3	116.4	129.3	141.1	156.1	163.0	173.2	191.4	165.7	193.9	196.8	204.5
Aug	100.2	104.1	121.0	124.8	138.3	160.7	171.3	180.4	183.9	169.4	187.8	205.7	201.1
Sep	104.0	103.5	120.1	134.8	145.2	164.2	172.2	184.4	186.7	185.3	201.5	215.6	203.0
Oct	103.9	108.4	124.7	137.7	152.7	162.5	170.4	186.6	184.0	183.1	196.2	128.9	208.0
Nov	107.0	105.6	124.4	132.0	153.1	162.6	167.6	186.9	168.4	180.9	195.3	103.0	218.8
Dec	104.0	101.8	116.3	141.9	155.2	158.8	164.9	185.0	147.0	192.2	192.5	148.1	198.4
Total	100.0	103.2	115.2	129.4	143.5	156.9	166.0	175.3	182.1	164.5	193.3	178.0	199.8

Source : The Office of Industrial Economics (OIE)

Table 7.1-4
Industrial Capacity Utilization Ratios

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Jan	56.4	57.8	56.6	64.0	65.6	67.6	66.8	65.6	68.5	52.4	60.8	63.4	59.1
Feb	55.8	55.9	56.0	60.3	65.5	63.6	66.5	63.4	66.5	50.5	60.8	60.4	62.8
Mar	61.2	62.3	62.9	68.0	67.7	70.8	72.9	69.1	68.6	55.5	68.7	67.2	68.2
Apr	52.3	51.8	58.1	60.8	61.2	63.1	63.5	61.0	61.4	51.6	59.7	55.8	59.6
May	59.1	59.8	64.5	64.1	66.6	68.2	70.9	67.8	66.4	55.7	64.7	60.1	69.3
Jun	59.4	59.6	62.3	65.1	67.2	68.8	68.6	67.0	64.7	56.3	65.8	65.1	66.8
Jul	57.9	58.3	63.7	64.4	66.7	68.1	66.9	66.7	65.7	57.5	65.2	64.2	67.4
Aug	59.3	59.5	65.7	62.7	65.3	68.7	69.0	67.0	62.4	57.5	64.3	66.4	66.3
Sep	60.7	59.4	64.4	66.4	67.2	68.5	68.4	67.6	61.5	60.6	65.1	65.7	65.0
Oct	60.9	62.0	66.1	68.1	70.1	68.5	68.4	68.0	61.3	61.7	64.7	47.0	68.6
Nov	62.3	60.0	66.4	64.5	69.6	68.0	66.9	68.0	56.2	60.8	64.2	42.2	68.9
Dec	60.2	58.0	62.1	68.5	69.1	66.3	64.6	66.3	53.7	61.5	63.5	54.0	63.5
Total	58.8	58.7	62.4	64.7	66.8	67.5	67.8	66.4	63.1	56.8	64.0	59.3	65.4

Source : The Office of Industrial Economics (OIE)

Table 7.1-5
Sale of Vehicles

Year	Sale of Vehicles (Unit)			Growth Rate (%)				
	Passenger	Commercial	Motorcycle	Total	Passenger	Commercial	Motorcycle	Total
1988	39,232	107,763	494,586	641,581	45.8	44.7	59.3	55.8
1989	47,705	160,436	588,278	796,419	21.6	48.9	18.9	24.1
1990	65,813	238,297	732,848	1,036,958	38.0	48.5	24.6	30.2
1991	66,778	202,052	649,727	918,557	1.5	-15.2	-11.3	-11.4
1992	121,453	241,583	868,157	1,231,193	81.9	19.6	33.6	34.0
1993	172,452	282,548	1,115,946	1,570,946	42.0	17.0	28.5	27.6
1994	154,500	331,345	1,333,041	1,818,886	-10.4	17.3	19.5	15.8
1995	158,701	409,915	1,503,872	2,072,488	2.7	23.7	12.8	13.9
1996	173,606	415,262	1,242,551	1,831,419	9.4	1.3	-17.4	-11.6
1997	132,070	231,198	927,365	1,290,633	-23.9	-44.3	-25.4	-29.5
1998	46,399	97,844	490,829	635,072	-64.9	-57.7	-47.1	-50.8
1999	66,851	151,508	593,676	812,035	44.1	54.9	21.0	27.9
2000	83,127	179,126	796,292	1,058,545	24.4	18.2	34.1	30.4
2001	104,559	192,577	926,460	1,223,596	25.8	7.5	16.4	15.6
2002	126,330	283,073	1,317,000	1,726,403	20.8	47.0	42.2	41.1
2003	179,418	354,037	1,687,000	2,220,455	42.0	25.1	28.1	28.6
2004	209,114	416,764	1,951,000	2,576,878	16.6	17.7	15.7	16.1
2005	185,761	517,677	2,053,000	2,756,438	-11.2	24.2	5.2	7.0
2006	191,405	490,603	1,921,000	2,603,008	3.0	-5.2	-6.4	-5.6
2007	169,559	461,692	1,558,000	2,189,251	-11.4	-5.9	-18.9	-15.9
2008	225,751	388,333	1,749,000	2,363,084	33.1	-15.9	12.3	7.9
2009	235,169	313,703	1,519,000	2,067,872	4.2	-19.2	-13.2	-12.5
2010	338,018	414,866	1,857,000	2,609,884	43.7	32.3	22.3	26.2
2011	298,709	359,973	1,820,000	2,478,682	-11.6	-13.2	-2.0	-5.0
2012	556,118	692,228	2,232,000	3,480,346	86.2	92.3	22.6	40.4

Source : Bank of Thailand (BOT) and The Office of Industrial Economics (OIE)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 7.1-6
GDP, Energy, Import and Export of Goods

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
GDP at Current Prices (Billion Bahts)	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,155.2	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4	4,637.1	4,922.7
GDP at 1988 Prices (Billion Bahts)	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7	2,872.0	3,008.4
Export (Billion Bahts)	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3	2,215.2	2,773.8
Import (Billion Bahts)	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.0	1,763.6	1,832.8	1,924.3	1,774.1	1,907.4	2,494.1
Goods and Services	475.5	606.9	762.8	880.3	951.6	1,079.3	1,281.9	1,655.2	1,673.6	1,737.3	1,625.4	1,717.5	2,153.9
Energy	37.6	55.8	81.7	78.6	81.7	87.3	87.2	108.4	159.2	187.0	148.7	189.9	340.2
Crude	21.4	32.6	42.8	39.9	48.6	51.0	55.4	72.1	121.9	166.5	137.1	169.6	285.9
Petroleum Products	15.6	22.3	38.2	38.0	32.4	35.2	30.1	34.1	33.3	15.9	7.0	12.8	36.8
Natural Gas													7.8
Coal	0.5	0.9	0.6	0.7	0.6	1.0	1.7	2.2	4.0	3.8	2.1	4.0	5.1
Electricity										0.7	2.5	3.4	4.7
Net Trade (Exports - Imports) (Billion Bahts)	-109.5	-146.4	-254.6	-233.2	-208.6	-230.7	-231.4	-357.3	-420.7	-117.6	474.3	307.8	279.7
Final Energy Consumption (Billion Bahts)	140.3	163.8	238.3	279.3	323.7	357.4	390.2	454.9	530.3	580.6	556.3	555.0	689.9
Petroleum	94.1	109.9	132.0	161.6	171.9	188.7	199.0	233.0	280.4	318.7	306.8	309.7	407.9
Electricity	45.5	52.7	62.5	73.2	87.4	98.2	111.5	136.2	153.4	162.1	175.4	167.9	199.1
Natural Gas	0.3	0.3	0.6	0.8	1.2	1.5	2.1	3.1	3.4	4.7	4.6	5.9	10.3
Coal/Lignite	0.4	0.9	2.1	2.5	2.8	3.6	4.8	5.8	7.5	7.8	5.9	6.2	5.7
Renewable Energy			41.2	41.1	60.5	65.3	72.7	76.8	85.5	87.3	63.6	65.2	67.0
Final Energy Consumption (KTOE)	23,746.0	27,872.0	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6	44,887.5	48,746.9	50,111.0	45,455.0	47,155.0	47,882.0
Petroleum	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0	26,134.0	28,381.0	28,983.0	26,215.0	26,845.0	26,716.0
Electricity	2,395.0	2,791.0	3,253.0	3,767.0	4,200.0	4,702.0	5,324.0	6,010.0	6,670.0	7,090.0	7,024.0	7,131.0	7,691.0
Natural Gas	43.0	109.0	259.0	338.0	446.0	507.0	599.0	803.0	853.0	1,047.0	978.0	1,282.0	1,818.0
Coal/Lignite	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0	3,814.0	4,633.0	4,492.0	3,353.0	3,575.0	3,058.0
Renewable Energy	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6	8,126.5	8,209.9	8,499.0	7,885.0	8,322.0	8,599.0

Analysis

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Growth Rate (%)													
GDP (Constant Prices)	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5	4.4	4.8
Final Energy Consumption (KTOE) : FEC	9.9	17.4	10.0	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3	3.7	1.5
FEC : GDP (TOE : M.Bahts)	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3	16.5	16.4	15.9
Ratios (%)													
FEC Value : GDP at current Market Prices	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0	12.0	14.0
Value of Imported Energy : GDP at current Market Prices	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0	3.2	4.1	6.9
Value of Imported Energy : Total Import	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7	8.4	10.0	13.6
Value of Imported Petroleum and Natural Gas : Total Import	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5	8.1	9.6	13.3

Source : NESDB, BOT, EPPD, DEDE

Table 7.1-6 (Cont.)
GDP, Energy, Import and Export of Goods

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
GDP at Current Prices (Billion Bahts)	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1	11,375.3
GDP at 1988 Prices (Billion Bahts)	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7	4,898.2
Export (Billion Bahts)	2,884.7	2,923.9	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,113.3	6,708.0	7,091.3
Import (Billion Bahts)	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7	7,738.5
Goods and Services	2,396.4	2,412.6	2,703.4	3,205.8	3,963.9	4,021.7	3,988.2	4,787.3	3,825.1	4,906.3	5,761.4	6,315.7
Energy	355.9	362.2	435.4	595.3	790.1	921.2	882.0	1,175.2	776.9	950.3	1,221.3	1,422.9
Crude	284.4	287.0	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0	751.5	977.4	1,119.3
Petroleum Products	28.8	27.9	33.2	44.7	59.8	62.4	50.3	41.1	29.1	66.8	94.3	124.3
Natural Gas	30.6	35.1	42.6	46.1	62.8	77.8	78.9	90.5	84.2	84.5	93.5	116.3
Coal	7.5	7.9	9.4	12.3	15.4	18.9	29.7	36.5	36.9	39.4	42.3	46.7
Electricity	4.7	4.5	4.2	5.7	7.1	8.3	7.4	4.5	3.6	8.2	13.9	16.2
Net Trade (Exports - Imports) (Billion Bahts)	132.4	149.1	186.9	72.6	-315.3	-5.6	431.9	-111.1	592.6	256.7	-274.7	-647.2
Final Energy Consumption (Billion Bahts)	752.4	791.2	884.4	1,024.2	1,240.7	1,447.5	1,509.7	1,676.6	1,584.4	1,809.2	1,940.7	2,139.0
Petroleum	430.5	451.6	515.3	605.4	774.4	916.3	966.7	1,092.1	960.1	1,106.7	1,220.6	1,311.0
Electricity	232.7	247.5	267.6	302.8	330.1	387.2	392.7	397.9	431.2	474.7	471.6	551.3
Natural Gas	11.4	13.4	16.4	16.4	22.3	28.9	35.1	53.9	49.3	68.7	97.7	122.5
Coal/Lignite	7.6	8.8	10.0	13.3	18.4	18.0	23.1	28.7	28.6	29.7	31.2	31.6
Renewable Energy	70.3	69.9	75.1	86.2	95.5	97.1	102.1	104.0	115.3	129.4	119.7	122.6
Final Energy Consumption (KTOE)	49,008.0	52,754.0	56,073.0	61,456.0	62,802.0	62,648.0	65,479.0	66,937.0	68,838.0	72,723.0	74,491.0	78,393.0
Petroleum	27,290.0	28,898.0	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0	33,326.0	35,174.0
Electricity	8,169.0	8,798.0	9,394.0	10,166.0	10,717.0	11,199.0	11,701.0	11,928.0	11,869.0	13,112.0	13,065.0	14,014.0
Natural Gas	1,690.0	1,872.0	2,033.0	2,427.0	2,451.0	2,649.0	3,320.0	3,993.0	4,853.0	5,764.0	7,252.0	8,444.0
Coal/Lignite	3,416.0	4,143.0	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,300.0	7,702.0	8,009.0	7,710.0	7,401.0
Renewable Energy	8,443.0	9,043.0	9,751.0	10,516.0	10,824.0	10,993.0	11,485.0	12,245.0	12,455.0	13,419.0	13,138.0	13,360.0

Analysis

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Growth Rate (%)												
GDP (Constant Prices)	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1	6.5
Final Energy Consumption (KTOE) : FEC	2.4	7.6	6.3	9.6	2.2	-0.2	4.5	2.2	2.8	5.6	2.4	5.2
FEC : GDP (TOE : M.Bahts)	15.9	16.3	16.2	16.7	16.3	15.5	15.4	15.3	16.1	15.8	16.2	16.0
Ratios (%)												
FEC Value : GDP at current Market Prices	14.7	14.5	14.9	15.8	17.5	18.5	17.7	18.5	17.5	17.9	18.4	18.8
Value of Imported Energy : GDP at current Market Prices	6.9	6.6	7.4	9.2	11.1	11.7	10.3	12.9	8.6	9.4	11.6	12.5
Value of Imported Energy : Total Import	12.9	13.1	13.9	15.7	16.6	18.6	18.1	19.7	16.9	16.2	17.5	18.4
Value of Imported Petroleum and Natural Gas : Total Import	12.5	12.6	13.4	15.2	16.1	18.1	17.3	19.0	16.0	15.4	16.7	17.6

Source : NESDB, BOT, EPP0, DEDE

Table 7.2.1
Final Energy Consumption per Capita

	1988	1989	1990	1991	1992	1993	1994	1995
GDP at Current Prices (Billion Bahts)	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2
GDP at 1988 Prices (Billion Bahts)	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7
Population (Million Persons)	54.3	55.2	55.8	56.6	57.3	58.0	58.7	59.4
Electricity Consumption (GWh)	28,110.4	32,749.1	38,174.0	44,203.7	49,289.8	55,183.6	62,496.3	70,793.5
Export (Billion Bahts)	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3
Import (Billion Bahts)	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.0	1,763.6
Goods and Services	475.5	606.9	762.8	880.3	951.6	1,079.3	1,281.9	1,655.2
Energy	37.6	55.8	81.7	78.6	81.7	87.3	87.2	108.4
Crude	21.4	32.6	42.8	39.9	48.6	51.0	55.4	72.1
Petroleum Products	15.6	22.3	38.2	38.0	32.4	35.2	30.1	34.1
Natural Gas								
Coal	0.5	0.9	0.6	0.7	0.6	1.0	1.7	2.2
Electricity								
Final Energy Consumption (Billion Bahts)	140.3	163.8	238.3	279.3	323.7	357.4	390.2	454.9
Petroleum	94.1	109.9	132.0	161.6	171.9	188.7	199.0	233.0
Electricity	45.5	52.7	62.5	73.2	87.4	98.2	111.5	136.2
Natural Gas	0.3	0.3	0.6	0.8	1.2	1.5	2.1	3.1
Coal/Lignite	0.4	0.9	2.1	2.5	2.8	3.6	4.8	5.8
Renewable Energy			41.2	41.1	60.5	65.3	72.7	76.8
Final Energy Consumption (KTOE)	23,746.0	27,872.0	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6	44,887.5
Petroleum	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0	26,134.0
Electricity	2,395.0	2,791.0	3,253.0	3,767.0	4,200.0	4,702.0	5,324.0	6,010.0
Natural Gas	43.0	109.0	259.0	338.0	446.0	507.0	599.0	803.0
Coal/Lignite	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0	3,814.0
Renewable Energy	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6	8,126.5

Analysis

	1988	1989	1990	1991	1992	1993	1994	1995
Growth Rate (%)								
GDP (Constant Prices)	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2
Final Energy Consumption (KTOE) : FEC	9.9	17.4	10.0	6.2	8.5	4.7	9.1	11.2
FEC : GDP (TOE : M.Bahts)	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3
Ratios (%)								
FEC per Capita (TOE/Person)	0.44	0.50	0.55	0.58	0.62	0.64	0.69	0.76
Electricity per Capita (kWh/Person)	517.4	593.1	683.6	781.3	860.3	951.3	1,064.4	1,191.8
FEC Value : GDP at current Market Prices	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9
Value of Imported Energy : GDP at current Market Prices	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6
Value of Imported Energy : Total Import	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1
Value of Imported Petroleum : Total Import	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0

Source : NESDB, BOT, EPPD, DEDE

Table 7.2.1 (Cont.)
Final Energy Consumption per Capita

	1996	1997	1998	1999	2000	2001	2002	2003
GDP at Current Prices (Billion Bahts)	4,611.0	4,732.6	4,626.4	4,637.1	4,922.7	5,133.5	5,450.6	5,917.4
GDP at 1988 Prices (Billion Bahts)	3,115.3	3,072.6	2,749.7	2,872.0	3,008.4	3,073.6	3,237.0	3,468.2
Population (Million Persons)	60.0	60.6	61.2	61.8	62.2	62.8	63.4	64.0
Electricity Consumption (GWh)	76,998.5	81,878.5	79,762.0	80,820.7	87,597.2	92,853.2	100,071.0	106,781.1
Export (Billion Bahts)	1,412.1	1,806.7	2,248.3	2,215.2	2,773.8	2,884.7	2,923.9	3,325.6
Import (Billion Bahts)	1,832.8	1,924.3	1,774.1	1,907.4	2,494.1	2,752.3	2,774.8	3,138.8
Goods and Services	1,673.6	1,737.3	1,625.4	1,717.5	2,153.9	2,396.4	2,412.6	2,703.4
Energy	159.2	187.0	148.7	189.9	340.2	355.9	362.2	435.4
Crude	121.9	166.5	137.1	169.6	285.9	284.4	287.0	346.1
Petroleum Products	33.3	15.9	7.0	12.8	36.8	28.8	27.9	33.2
Natural Gas					7.8	30.6	35.1	42.6
Coal	4.0	3.8	2.1	4.0	5.1	7.5	7.9	9.4
Electricity		0.7	2.5	3.4	4.7	4.7	4.5	4.2
Final Energy Consumption (Billion Bahts)	530.3	580.6	556.3	555.0	689.9	752.4	791.2	884.4
Petroleum	280.4	318.7	306.8	309.7	407.9	430.5	451.6	515.3
Electricity	153.4	162.1	175.4	167.9	199.1	232.7	247.5	267.6
Natural Gas	3.4	4.7	4.6	5.9	10.3	11.4	13.4	16.4
Coal/Lignite	7.5	7.8	5.9	6.2	5.7	7.6	8.8	10.0
Renewable Energy	85.5	87.3	63.6	65.2	67.0	70.3	69.9	75.1
Final Energy Consumption (KTOE)	48,746.9	50,111.0	45,455.0	47,155.0	47,882.0	49,008.0	52,754.0	56,073.0
Petroleum	28,381.0	28,983.0	26,215.0	26,845.0	26,716.0	27,290.0	28,898.0	30,533.0
Electricity	6,670.0	7,090.0	7,024.0	7,131.0	7,691.0	8,169.0	8,798.0	9,394.0
Natural Gas	853.0	1,047.0	978.0	1,282.0	1,818.0	1,690.0	1,872.0	2,033.0
Coal/Lignite	4,633.0	4,492.0	3,353.0	3,575.0	3,058.0	3,416.0	4,143.0	4,362.0
Renewable Energy	8,209.9	8,499.0	7,885.0	8,322.0	8,599.0	8,443.0	9,043.0	9,751.0

Analysis

	1996	1997	1998	1999	2000	2001	2002	2003
Growth Rate (%)								
GDP (Constant Prices)	5.9	-1.4	-10.5	4.4	4.8	2.2	5.3	7.1
Final Energy Consumption (KTOE) : FEC	8.6	2.8	-9.3	3.7	1.5	2.4	7.6	6.3
FEC : GDP (TOE : M.Bahts)	15.6	16.3	16.5	16.4	15.9	15.9	16.3	16.2
Ratios (%)								
FEC per Capita (TOE/Person)	0.81	0.83	0.74	0.76	0.77	0.78	0.83	0.88
Electricity per Capita (kWh/Person)	1,283.2	1,351.1	1,303.3	1,307.7	1,407.5	1,477.7	1,577.9	1,668.9
FEC Value : GDP at current Market Prices	11.5	12.3	12.0	12.0	14.0	14.7	14.5	14.9
Value of Imported Energy : GDP at current Market Prices	3.5	4.0	3.2	4.1	6.9	6.9	6.6	7.4
Value of Imported Energy : Total Import	8.7	9.7	8.4	10.0	13.6	12.9	13.1	13.9
Value of Imported Petroleum : Total Import	8.5	9.5	8.1	9.6	12.9	11.4	11.3	12.1

Source : NESDB, BOT, EPPD, DEDE

Table 7.2.1 (Cont.)
Final Energy Consumption per Capita

	2004	2005	2006	2007	2008	2009	2010	2011	2012
GDP at Current Prices (Billion Bahts)	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1	11,375.3
GDP at 1988 Prices (Billion Bahts)	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7	4,898.2
Population (Million Persons)	64.5	65.1	65.6	66.0	66.5	66.9	67.3	67.6	67.9
Electricity Consumption (GWh)	115,152.5	121,252.8	127,876.3	133,100.2	135,520.3	135,180.7	149,302.1	148,858.1	161,969.7
Export (Billion Bahts)	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,113.3	6,708.0	7,091.3
Import (Billion Bahts)	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7	7,738.5
Goods and Services	3,205.8	3,963.9	4,021.7	3,988.2	4,787.3	3,825.1	4,906.3	5,761.4	6,315.7
Energy	595.3	790.1	921.2	882.0	1,175.2	776.9	950.3	1,221.3	1,422.9
Crude	486.6	644.9	753.8	715.8	1,002.7	623.0	751.5	977.4	1,119.3
Petroleum Products	44.7	59.8	62.4	50.3	41.1	29.1	66.8	94.3	124.3
Natural Gas	46.1	62.8	77.8	78.9	90.5	84.2	84.5	93.5	116.3
Coal	12.3	15.4	18.9	29.7	36.5	36.9	39.4	42.3	46.7
Electricity	5.7	7.1	8.3	7.4	4.5	3.6	8.2	13.9	16.2
Final Energy Consumption (Billion Bahts)	1,024.2	1,240.7	1,447.5	1,509.7	1,676.6	1,584.4	1,809.2	1,940.7	2,139.0
Petroleum	605.4	774.4	916.3	956.7	1,092.1	960.1	1,106.7	1,220.6	1,311.0
Electricity	302.8	330.1	387.2	392.7	397.9	431.2	474.7	471.6	551.3
Natural Gas	16.4	22.3	28.9	35.1	53.9	49.3	68.7	97.7	122.5
Coal/Lignite	13.3	18.4	18.0	23.1	28.7	28.6	29.7	31.2	31.6
Renewable Energy	86.2	95.5	97.1	102.1	104.0	115.3	129.4	119.7	122.6
Final Energy Consumption (KTOE)	61,456.0	62,802.0	62,648.0	65,479.0	66,937.0	68,838.0	72,723.0	74,491.0	78,393.0
Petroleum	33,093.0	32,621.0	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0	33,326.0	35,174.0
Electricity	10,166.0	10,717.0	11,199.0	11,701.0	11,928.0	11,869.0	13,112.0	13,065.0	14,014.0
Natural Gas	2,427.0	2,451.0	2,649.0	3,320.0	3,993.0	4,853.0	5,764.0	7,252.0	8,444.0
Coal/Lignite	5,254.0	6,189.0	5,984.0	6,439.0	7,300.0	7,702.0	8,009.0	7,710.0	7,401.0
Renewable Energy	10,516.0	10,824.0	10,993.0	11,485.0	12,245.0	12,455.0	13,419.0	13,138.0	13,360.0

Analysis

	2004	2005	2006	2007	2008	2009	2010	2011	2012
Growth Rate (%)									
GDP (Constant Prices)	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1	6.5
Final Energy Consumption (KTOE) : FEC	9.6	2.2	-0.2	4.5	2.2	2.8	5.6	2.4	5.2
FEC : GDP (TOE : M.Bahts)	16.7	16.3	15.5	15.4	15.3	16.1	15.8	16.2	16.0
Ratios (%)									
FEC per Capita (TOE/Person)	0.95	0.96	0.96	0.99	1.0	1.0	1.1	1.1	1.2
Electricity per Capita (kWh/Person)	1,784.5	1,862.6	1,950.1	2,015.4	2,038.5	2,020.5	2,218.0	2,202.1	2,385.0
FEC Value : GDP at current Market Prices	15.8	17.5	18.5	17.7	18.5	17.5	17.9	18.4	18.8
Value of Imported Energy : GDP at current Market Prices	9.2	11.1	11.7	10.3	12.9	8.6	9.4	11.6	12.5
Value of Imported Energy : Total Import	15.7	16.6	18.6	18.1	19.7	16.9	16.2	17.5	18.4
Value of Imported Petroleum : Total Import	14.0	14.8	16.5	15.7	17.5	14.2	14.0	15.3	16.1

Source : NESDB, BOT, EPPD, DEDE

Table 7.2.2
Electricity Consumption per Capita

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
GDP at Current Prices (Billion Bahts)	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4	4,637.1	4,922.7
GDP at 1988 Prices (Billion Bahts)	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7	2,872.0	3,008.4
Population (Million Persons)	54.3	55.2	55.8	56.6	57.3	58.0	58.7	59.4	60.0	60.6	61.2	61.8	62.2
Electricity Consumption (GWh)	28,110.4	32,749.1	38,174.0	44,203.7	49,289.8	55,183.6	62,496.3	70,793.5	76,998.5	81,878.5	79,762.0	80,820.7	87,597.2
Export (Billion Bahts)	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3	2,215.2	2,773.8
Import (Billion Bahts)	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.0	1,763.6	1,832.8	1,924.3	1,774.1	1,907.4	2,494.1
Import of Energy (Billion Bahts)	37.6	55.8	81.7	78.6	81.7	87.3	87.2	108.4	159.2	187.0	148.7	189.9	340.2
Final Energy Consumption (Billion Bahts)	140.3	163.8	238.3	279.3	323.7	357.4	390.2	454.9	530.3	580.6	556.3	555.0	689.9
Final Energy Consumption (KTOE)	23,746.0	27,872.0	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6	44,887.5	48,746.9	50,111.0	45,455.0	47,155.0	47,882.0
Analysis													
Growth Rate (%)													
GDP (Constant Prices)	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5	4.4	4.8
Final Energy Consumption (KTOE) : FEC	9.9	17.4	10.0	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3	3.7	1.5
FEC : GDP (TOE : M.Bahts)	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3	16.5	16.4	15.9
Ratios (%)													
FEC per Capita (TOE/Person)	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.8	0.8
Electricity per Capita (kWh/Person)	517.4	593.1	683.6	781.3	860.3	951.3	1,064.4	1,191.8	1,283.2	1,351	1,303	1,308	1,407
FEC Value : GDP at current Market Prices	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0	12.0	14.0
Value of Imported Energy : GDP at current Market Prices	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0	3.2	4.1	6.9
Value of Imported Energy : Total Import	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7	8.4	10.0	13.6
Value of Imported Petroleum : Total Import	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5	8.1	9.6	12.9

Source : NESDB, BOT, EPPD, DEDE

Table 7.2.2 (Cont.)
Electricity Consumption per Capita

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
GDP at Current Prices (Billion Bahts)	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1	11,375.3
GDP at 1988 Prices (Billion Bahts)	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7	4,898.2
Population (Million Persons)	62.8	63.4	64.0	64.5	65.1	65.6	66.0	66.5	66.9	67.3	67.6	67.9
Electricity Consumption (GWh)	92,853.2	100,071.0	106,781.1	115,152.5	121,252.8	127,876.3	133,100.2	135,520.3	135,180.7	149,302.1	148,858.1	161,969.7
Export (Billion Bahts)	2,884.7	2,923.9	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,113.3	6,708.0	7,091.3
Import (Billion Bahts)	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7	7,738.5
Import of Energy (Billion Bahts)	355.9	362.2	435.4	595.3	790.1	921.2	882.0	1,175.2	776.9	950.3	1,221.3	1,422.9
Final Energy Consumption (Billion Bahts)	752.4	791.2	884.4	1,024.2	1,240.7	1,447.5	1,509.7	1,676.6	1,584.4	1,809.2	1,940.7	2,139.0
Final Energy Consumption (KTOE)	49,008.0	52,754.0	56,073.0	61,456.0	62,802.0	62,648.0	65,479.0	66,937.0	68,838.0	72,723.0	74,491.0	78,393.0

Analysis

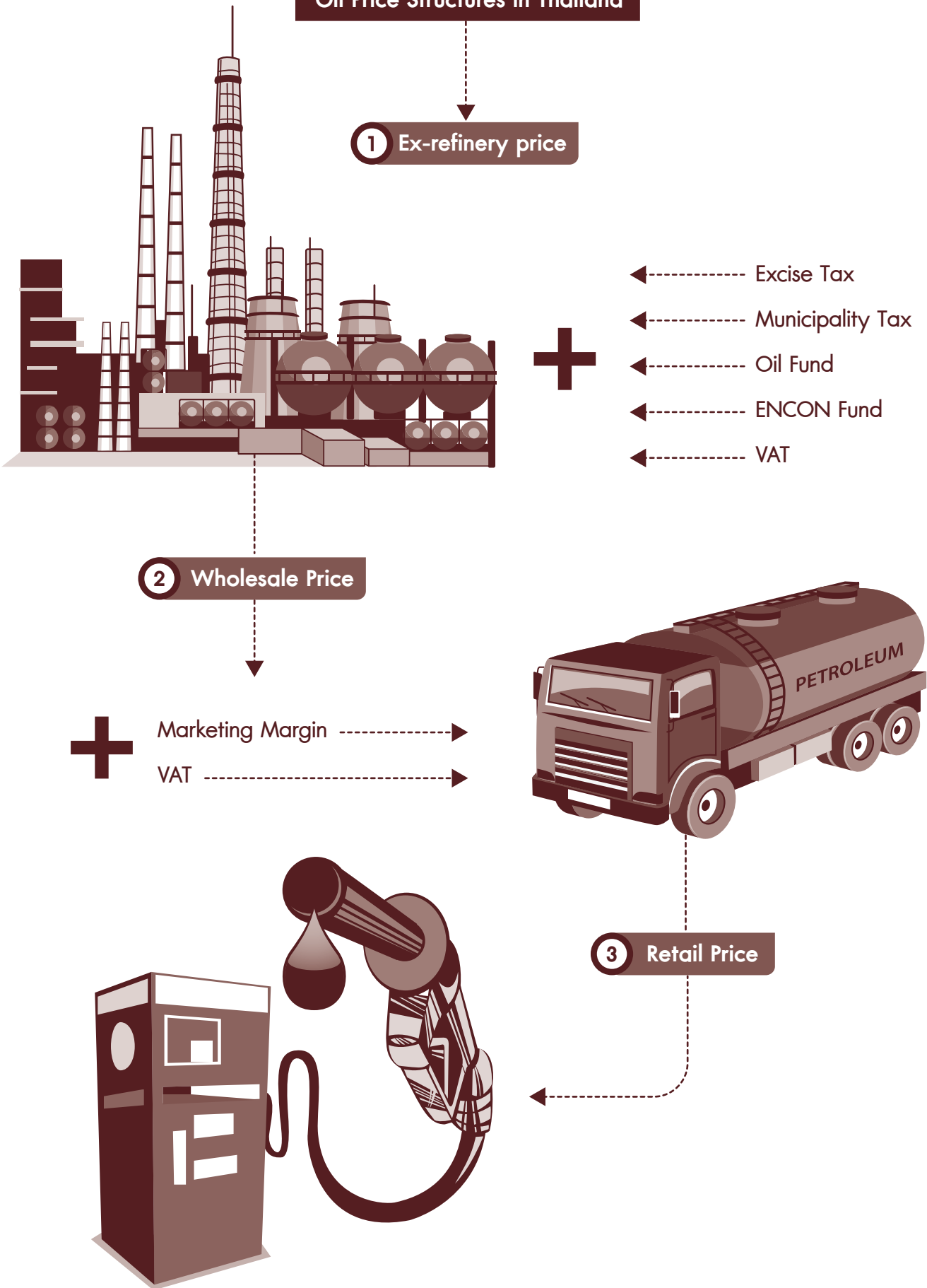
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Growth Rate (%)												
GDP (Constant Prices)	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1	6.5
Final Energy Consumption (KTOE) : FEC	2.4	7.6	6.3	9.6	2.2	-0.2	4.5	2.2	2.8	5.6	2.4	5.2
FEC : GDP (TOE : M.Bahts)	15.9	16.3	16.2	16.7	16.3	15.5	15.4	15.3	16.1	15.8	16.2	16.0
Ratios (%)												
FEC per Capita (TOE/Person)	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2
Electricity per Capita (kWh/Person)	1,478	1,578	1,669	1,784	1,863	1,950	2,015	2,038	2,021	2,218	2,202	2,385
FEC Value : GDP at current Market Prices	14.7	14.5	14.9	15.8	17.5	18.5	17.7	18.5	17.5	17.9	18.4	18.8
Value of Imported Energy : GDP at current Market Prices	6.9	6.6	7.4	9.2	11.1	11.7	10.3	12.9	8.6	9.4	11.6	12.5
Value of Imported Energy : Total Import	12.9	13.1	13.9	15.7	16.6	18.6	18.1	19.7	16.9	16.2	17.5	18.4
Value of Imported Petroleum : Total Import	11.4	11.3	12.1	14.0	14.8	16.5	15.7	17.5	14.2	14.0	15.3	16.1

Source : NESDB, BOT, EPPO, DEDE



Petroleum Prices

Oil Price Structures in Thailand





CHAPTER
บทที่

8

Petroleum Prices
ราคาน้ำมันปิโตรเลียม

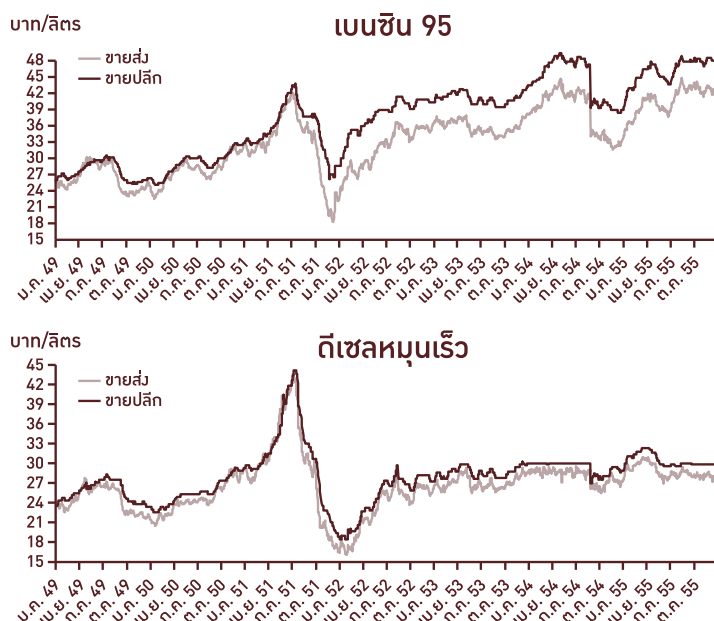
ราคาน้ำมันปิโตรเลียม

โครงสร้างราคาน้ำมันของไทย ราคาน้ำมันของไทยประกอบด้วย ราคาหน้าโรงกลั่น ราคาขายส่ง และราคาขายปลีก ในส่วนของราคาขายส่งประกอบด้วย ราคาหน้าโรงกลั่น รวมภาษีสรรพสามิต ภาษีเทศบาล เงินนำส่งเข้ากองทุนน้ำมันเชื้อเพลิง เงินนำส่งเข้ากองทุนเพื่อส่งเสริมการอนุรักษ์พลังงาน และภาษีมูลค่าเพิ่ม ส่วนราคาขายปลีกประกอบด้วย ราคาขายส่ง รวมค่าการตลาด และภาษีมูลค่าเพิ่ม

การกำหนดราคาน้ำมันสำเร็จรูปของโรงกลั่นไทย การกำหนดราคาขายส่งน้ำมันสำเร็จรูป (Wholesale) ใช้หลักการเสมอภาคกับการนำเข้า (Import Parity Basis) และใช้ตลาดสิงคโปร์เป็นตลาดอ้างอิง การกำหนดราคาน้ำมันสำเร็จรูป เนื่องจากตลาดสิงคโปร์เป็นตลาดส่งออกที่ใหญ่ที่สุดในภูมิภาคเอเชียซึ่งอยู่ใกล้ไทยมากที่สุด จึงทำให้ต้นทุนการนำเข้าของไทยอยู่ในระดับต่ำสุด และมีปริมาณการซื้อขายในระดับสูงทำให้ยากต่อการปั่นราคา ส่งผลให้ราคามีความผันผวนน้อยกว่าตลาดอื่น ตลอดจนมีการเปลี่ยนแปลงราคาที่สอดคล้องกับตลาดอื่นทั่วโลก

ในการกำหนดราคา หากโรงกลั่นกำหนดราคาสูงกว่าราคานำเข้าจากสิงคโปร์ ผู้ค้าจะนำเข้าน้ำมันแทนการซื้อจากโรงกลั่นในประเทศ แต่หากกำหนดราคาต่ำกว่าราคานำเข้าจะทำให้โรงกลั่นได้รับผลตอบแทนต่ำกว่าที่ควร และจะไม่เกิดแรงจูงใจในการลงทุนธุรกิจการกลั่นในประเทศ นอกจากนี้จะทำให้โรงกลั่นมีความต้องการส่งออกมากกว่าขายในประเทศ

ราคาขายปลีกและขายส่งน้ำมันสำเร็จรูปในกรุงเทพมหานคร



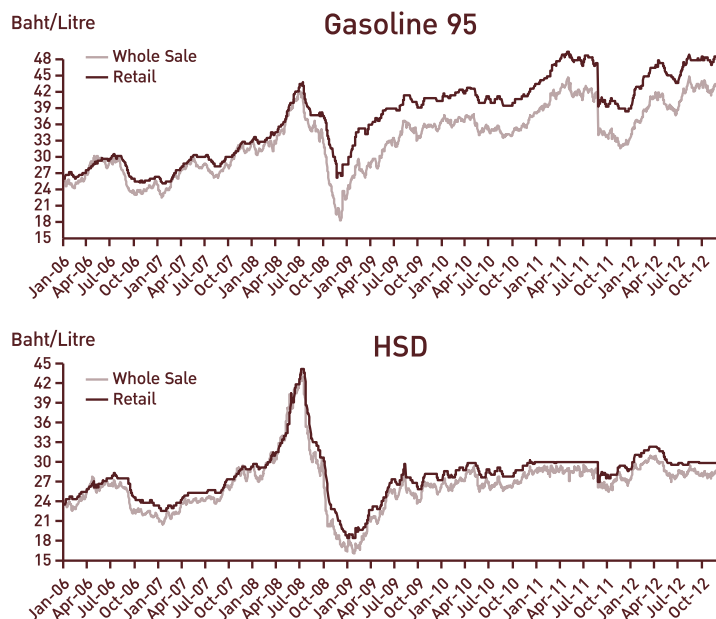
Petroleum Prices

Oil Price Structures in Thailand. Oil prices in Thailand can be mainly divided into ex-refinery price, wholesale price and retail price. The wholesale price comprises the ex-refinery price plus the excise tax, municipality tax, contribution to the Oil Fund, contribution to the Energy Conservation Promotion Fund (ENCON Fund), and value added tax (VAT). The retail price comprises the wholesale price plus the marketing margin and VAT.

Determination of Petroleum Product Prices by Thai Refineries. The import parity basis is applied to the determination of wholesale prices of petroleum products. Singapore market is used as the reference market in determining prices of petroleum products because it is the largest export market in the Asian region which is nearest to Thailand and hence the lowest cost of imported oil for Thailand; moreover, the trading volume in the market is enormous, making it difficult to speculate in oil prices, and thus price volatility is less than other markets. Besides, the change in prices in Singapore market is in line with other markets worldwide.

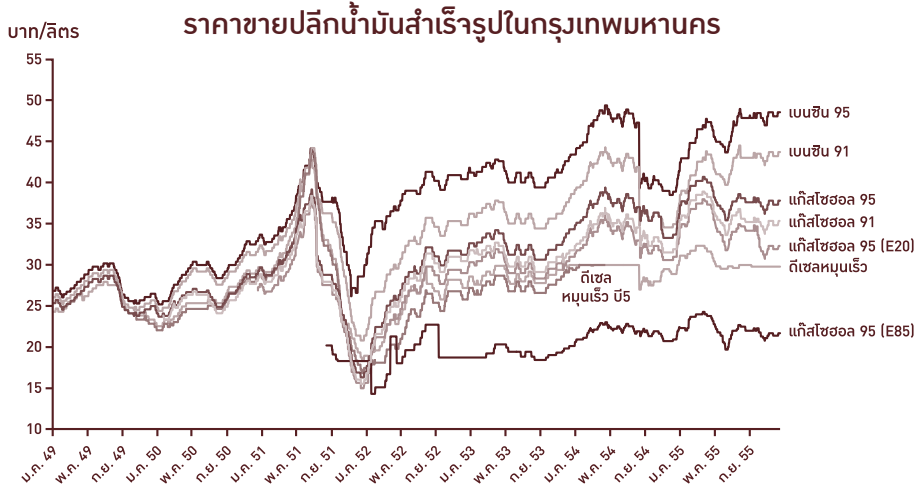
In setting the prices, if the prices set by refineries are higher than import prices from Singapore, oil traders would import oil instead of buying it from domestic refineries. On the contrary, if the prices were lower than import prices, the rate of return for domestic refineries will be lower than what it should be, making investment in oil refining business in Thailand unattractive. Besides, the refineries would then wish to export their products rather than selling them within the country.

Retail and Wholesale Prices of Petroleum Products in Bangkok



การเปลี่ยนแปลงราคาน้ำมันขายปลีกของไทย ขึ้น-ลงตามการประกาศราคาหน้าโรงกลั่น โดย การกำหนดราคาน้ำมันของโรงกลั่นขึ้นอยู่กับเปลี่ยนแปลงของราคาน้ำมันสำเร็จรูปในตลาดสิงคโปร์และ อัตราแลกเปลี่ยน (หรือค่าเงินบาท) ซึ่งเป็นต้นทุนในการนำเข้าน้ำมันเชื้อเพลิง

ในช่วงก่อนยกเลิกการควบคุมราคาขายปลีก รัฐบาลได้ใช้ระบบกองทุนน้ำมันเชื้อเพลิงในการรักษา ระดับราคาขายส่งที่ออกจากโรงกลั่นและราคานำเข้าให้อยู่ในระดับคงที่ ส่งผลให้ราคาขายปลีกไม่เปลี่ยนแปลง หลังจากมีการยกเลิกการควบคุมราคา ราคาขายส่งได้มีการเปลี่ยนแปลงตามราคาหน้าโรงกลั่น โดยโรงกลั่นเป็นผู้กำหนดราคาซึ่งส่งผลให้ราคาขายปลีกมีการเปลี่ยนแปลงตามในที่สุด



น้ำมันสำเร็จรูปที่ขายปลีกอยู่ในสถานีบริการของประเทศไทยมีอยู่ 2 ชนิดหลัก ๆ ได้แก่ เบนซินและดีเซล รัฐบาลไทยได้สนับสนุนให้มีการใช้พลังงานทดแทน โดยลดการจัดเก็บเงินเข้ากองทุนน้ำมันเชื้อเพลิง ในกลุ่มน้ำมัน แก๊สโซฮอล์และไบโอดีเซล เพื่อเป็นการจูงใจให้ประชาชนหันมาใช้พลังงานทดแทนมากขึ้น มีผลให้เกิดส่วนต่าง ราคาขายปลีกเบนซินและแก๊สโซฮอล์แต่ละประเภท รวมถึงดีเซลหมุนเร็วและไบโอดีเซล

ในปี 2555 ราคาขายปลีกเฉลี่ยของน้ำมันชนิดต่าง ๆ เป็นดังนี้

หน่วย : บาท/ลิตร

ชนิด	เบนซิน	แก๊สโซฮอล์ E10	แก๊สโซฮอล์ E20	แก๊สโซฮอล์ E85
ออกเทน 95	46.42	37.96	34.35	22.23
ออกเทน 91	41.96	35.94	-	-

ราคาขายปลีกเฉลี่ยของน้ำมันดีเซลหมุนเร็ว อยู่ที่ระดับ 30.42 บาทต่อลิตร

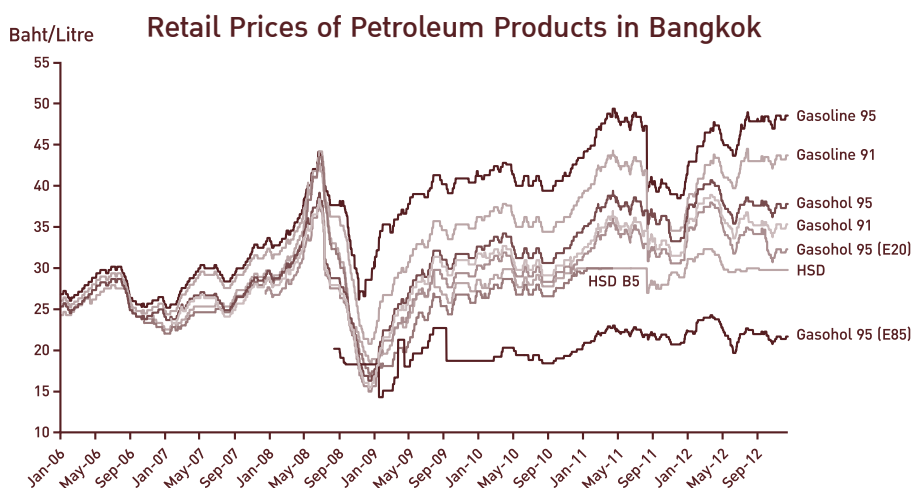
ในปี 2555 รัฐบาลได้ประกาศปรับราคาก๊าซ LPG ในภาคครัวเรือน ภาคอุตสาหกรรม และภาคขนส่ง เพื่อให้สะท้อนต้นทุนที่แท้จริง ดังนี้

- ภาคครัวเรือน** ขยายระยะเวลาการตรึงราคาขายปลีกก๊าซ LPG ที่ระดับ 18.13 บาทต่อกิโลกรัม จนถึงสิ้นปี 2555
- ภาคอุตสาหกรรม** ในวันที่ 14 พฤษภาคม 2555 คณะกรรมการบริหารนโยบายพลังงาน (กบง.) มีมติเห็นชอบกำหนดราคาขายปลีกของก๊าซ LPG ภาคอุตสาหกรรมให้เป็นไปตามต้นทุนโรงกลั่นน้ำมัน แต่ไม่เกิน 30.13 บาทต่อกิโลกรัม ส่งผลให้ราคาขายปลีกของ LPG ภาคอุตสาหกรรมมีการปรับเปลี่ยนทุกเดือน
- ภาคขนส่ง** เริ่มมีการประกาศปรับราคาขายปลีกตั้งแต่วันที่ 16 มกราคม 2555 จาก 18.13 บาทต่อกิโลกรัม เป็น 18.88 บาทต่อกิโลกรัม ต่อมาได้มีการปรับราคาเพิ่มขึ้น 0.75 บาทต่อกิโลกรัม ของวันที่ 16 ของเดือน กุมภาพันธ์-เมษายน 2555 และวันที่ 16 สิงหาคม 2555 ได้มีการปรับเพิ่มราคาอีก 0.25 บาทต่อกิโลกรัม ส่งผลให้ราคาขายปลีกอยู่ที่ 21.38 บาทต่อกิโลกรัม จนถึงสิ้นปี 2555

Adjustment of Retail Oil Prices in Thailand.

Retail oil prices will increase or decrease in line with the ex-refinery price announcement. The determination of ex-refinery prices will, in turn, depend on the change in petroleum product prices in Singapore market and the rate of exchange (or the value of Thai Baht), which constitute the cost of petroleum product import.

Prior to the deregulation of retail oil prices, the government used the Oil Fund mechanism to stabilize the levels of wholesale prices (ex-refinery) and imported oil prices, and thus the retail prices remain unchanged. After the oil price deregulation, the wholesale prices will change in line with the ex-refinery prices set by the refineries, resulting in fluctuations in retail oil prices accordingly.



Two main petroleum products being retailed at service stations in Thailand are gasoline and diesel. As the Thai government has encouraged the use of alternative energy by reducing the rates of contribution to the Oil Fund imposed on gasohol and biodiesel to induce greater use of alternative energy by the general public, there is significant difference between the retail price of each type of gasoline (with Octane 95/91) and that of its alternate gasohol, and so is the retail price difference between high speed diesel and biodiesel.

In 2011, the average retail price of each oil product was as follows:

Unit : Baht/litre

Product Type	Gasoline	Gasohol (E10)	Gasohol (E20)	Gasohol (E85)
Octane 95	46.42	37.96	34.35	22.23
Octane 91	41.96	35.94	-	-

An average retail price of high speed diesel was 30.42 Baht/litre,

In 2555, Thai government has been deregulated the retail price of LPG in household, industry and transportation sectors to reflect the actual cost, price adjustment as follows :

1. **Household sector** : To maintain the retail price for the household sector at 18.13 baht per kilogram until the end of 2012.

2. **Industrial sector** : The Committee on Energy Policy Administration (CEPA) on 14 May 2012 approved the retail price of Industries sector to reflect actual refinery cost. As result, the retail price was adjusted every month. However, finally, LPG retail price for industry was moved within 30.13 baht per kilogram which were determined to be the highest boundary.

3. **Transportation sector** : on January 16th 2012, LPG retail prices for transportation sector was raised from 18.13 to 18.88 baht per kilogram. After that, it was added up 0.75 baht per kilogram a month until, August 16th 2012, in a final month, it was topped up only 0.25 baht per kilogram. The finally it was maintained at 21.38 baht per kilogram throughout the year.

Table 8.1-1
Rates of Exchange in Bangkok

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2008	61.15	62.05	33.14	33.49	23.32	23.79	0.32	0.45	48.56	49.30
Jan	64.78	65.70	32.98	33.31	22.92	23.39	0.30	0.31	48.38	49.11
Feb	63.54	64.45	32.40	32.74	22.84	23.31	0.30	1.84	47.65	48.37
Mar	62.40	63.31	31.24	31.58	22.43	22.90	0.31	0.31	48.35	49.08
Apr	62.04	62.94	31.37	31.71	22.89	23.36	0.30	0.31	49.35	50.08
May	62.54	63.44	31.89	32.23	23.23	23.70	0.30	0.31	49.53	50.27
Jun	64.69	65.62	32.98	33.32	23.99	24.48	0.31	0.31	51.20	51.95
Jul	66.04	66.98	33.28	33.62	24.36	24.86	0.31	0.32	52.36	53.12
Aug	63.49	64.39	33.63	33.97	23.87	24.34	0.31	0.31	50.32	51.04
Sep	61.19	62.08	34.07	34.41	23.74	24.20	0.32	0.32	48.91	49.63
Oct	57.93	58.84	34.20	34.55	23.08	23.54	0.34	0.35	45.53	46.26
Nov	53.32	54.14	34.86	35.22	23.02	23.48	0.36	0.37	44.21	44.94
Dec	51.87	52.75	34.80	35.16	23.46	23.93	0.38	0.39	46.97	47.75
2009	53.12	54.00	34.10	34.47	23.33	23.82	0.36	0.54	47.32	48.10
Jan	49.83	50.69	34.68	35.05	23.14	23.61	0.38	0.39	45.80	46.57
Feb	50.31	51.17	35.09	35.46	22.99	23.45	0.38	0.39	44.73	45.47
Mar	50.32	51.17	35.55	35.92	23.12	23.58	0.36	0.37	46.25	47.00
Apr	51.47	52.33	35.22	35.59	23.29	23.76	0.36	0.36	46.23	46.98
May	52.95	53.83	34.35	34.72	23.40	23.89	0.36	2.33	46.84	47.60
Jun	55.31	56.23	33.90	34.28	23.23	23.72	0.35	0.36	47.42	48.20
Jul	55.20	56.10	33.81	34.19	23.21	23.70	0.36	0.36	47.52	48.29
Aug	55.76	56.67	33.78	34.16	23.31	23.81	0.35	0.36	48.08	48.87
Sep	54.68	55.58	33.59	33.97	23.47	23.97	0.37	0.37	48.77	49.56
Oct	53.46	54.36	33.17	33.55	23.60	24.11	0.37	0.37	49.01	49.81
Nov	54.74	55.64	33.04	33.42	23.67	24.18	0.37	0.38	49.18	49.99
Dec	53.39	54.28	32.99	33.37	23.50	24.01	0.37	0.37	48.04	48.83
2010	48.52	49.38	31.49	31.87	22.97	23.48	0.36	0.37	41.68	42.43
Jan	52.90	53.79	32.80	33.16	23.37	23.87	0.36	0.37	47.07	47.86
Feb	51.36	52.24	32.91	33.29	23.18	23.68	0.36	0.37	44.93	45.70
Mar	48.42	49.28	32.27	32.65	22.93	23.44	0.35	0.36	43.69	44.45
Apr	48.95	49.81	32.05	32.42	23.07	23.58	0.34	0.35	42.83	43.58
May	46.95	47.82	32.15	32.54	22.95	23.46	0.35	0.36	40.20	40.94
Jun	47.38	48.23	32.23	32.61	22.93	23.41	0.35	0.36	39.25	39.97
Jul	48.88	49.73	32.09	32.47	23.17	23.68	0.36	0.37	40.88	41.62
Aug	49.24	50.10	31.51	31.89	23.13	23.65	0.37	0.38	40.58	41.31
Sep	47.48	48.34	30.60	30.98	22.78	23.31	0.36	0.37	39.81	40.55
Oct	46.99	47.86	29.73	30.11	22.67	23.20	0.36	0.37	41.16	41.91
Nov	47.23	48.09	29.65	30.02	22.73	23.26	0.36	0.37	40.46	41.20
Dec	46.45	47.30	29.88	30.26	22.72	23.26	0.36	0.36	39.32	40.05

**Table 8.1-1 (Cont.)
Rates of Exchange in Bangkok**

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2011	48.37	49.24	30.25	30.63	23.94	24.50	0.38	0.39	41.97	42.73
Jan	47.72	48.58	30.34	30.72	23.44	23.98	0.37	0.37	40.41	41.13
Feb	49.02	49.89	30.48	30.86	23.75	24.29	0.37	0.38	41.53	42.28
Mar	48.57	49.45	30.13	30.51	23.63	24.18	0.37	0.38	42.06	42.82
Apr	48.67	49.55	29.81	30.20	23.80	24.37	0.36	0.37	42.98	43.75
May	48.89	49.77	30.01	30.38	24.13	24.69	0.37	0.38	42.85	43.62
Jun	49.00	49.87	30.27	30.65	24.39	24.96	0.37	0.38	43.45	44.22
Jul	48.02	48.89	29.84	30.22	24.40	24.97	0.37	0.38	42.53	43.30
Aug	48.39	49.27	29.64	30.02	24.39	24.97	0.38	0.39	42.41	43.17
Sep	47.53	48.38	30.18	30.56	24.03	24.59	0.39	0.40	41.47	42.20
Oct	48.07	48.94	30.65	31.03	23.86	24.40	0.40	0.41	41.84	42.58
Nov	48.42	49.29	30.72	31.09	23.71	24.25	0.39	0.40	41.56	42.29
Dec	48.15	49.01	30.97	31.35	23.78	24.32	0.40	0.40	40.60	41.34
2012	48.76	49.62	30.84	31.22	24.56	25.12	0.38	0.39	39.59	40.31
Jan	48.46	49.31	31.34	31.71	24.38	24.93	0.41	0.41	40.29	41.02
Feb	48.04	48.90	30.49	30.87	24.20	24.75	0.39	0.40	40.20	40.89
Mar	48.08	48.94	30.45	30.83	24.08	24.63	0.37	0.38	40.14	40.87
Apr	49.02	49.90	30.65	31.03	24.38	24.94	0.37	0.38	40.87	41.61
May	49.35	50.22	31.10	31.48	24.50	25.05	0.39	0.40	39.65	40.37
Jun	48.73	49.60	31.42	31.79	24.46	25.01	0.39	0.40	39.30	40.02
Jul	48.85	49.71	31.41	31.79	24.77	25.33	0.40	0.40	38.53	39.24
Aug	48.89	49.75	31.19	31.57	24.85	25.42	0.39	0.40	38.58	39.28
Sep	49.41	50.27	30.76	31.14	24.84	25.41	0.39	0.40	39.44	40.15
Oct	48.85	49.69	30.46	30.84	24.75	25.31	0.38	0.39	39.36	40.08
Nov	48.53	49.38	30.47	30.85	24.78	25.34	0.37	0.38	38.99	39.70
Dec	48.93	49.79	30.40	30.78	24.76	25.34	0.36	0.37	39.78	40.49

Table 8.1-2Y
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Year	Ex-Refinery Prices										
	ULG95	UGR91	Gasohol 95 (E10) (E20) (E85)		Gasohol 91 Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	Cooking	LPG (B/kg) Industry Automobile
1996	4.33	3.79			4.79	4.70		4.32	2.83	5.95	5.95
1997	5.40	4.99			5.27	5.29		4.58	3.36	7.36	7.36
1998	5.12	4.48			4.60	4.53		4.12	3.14	6.15	6.15
1999	5.44	4.87			5.35	4.97		4.53	3.87	7.83	7.83
2000	8.64	8.07			8.91	8.63		8.20	6.39	11.96	11.96
2001	8.12	7.50			8.05	8.15		7.65	5.96	11.29	11.29
2002	7.98	7.44			7.68	7.84		7.41	6.35	9.90	9.90
2003	9.44	8.90			8.67	8.90		8.73	7.05	11.36	11.36
2004	12.35	11.81			12.06	12.16		11.82	7.62	12.32	12.32
2005	16.26	15.75			17.31	16.95		16.56	10.06	12.73	12.73
2006	17.84	17.39	18.68		19.51	18.92	17.32	18.45	12.67	11.96	11.96
2007	18.36	17.94	18.53		18.57	19.06	20.27	18.63	13.17	11.19	11.19
2008	21.73	21.31	21.62	21.42	21.43	25.68	25.86	25.00	16.91	10.99	10.99
2009	15.66	15.03	16.29	16.82	15.92	15.40	15.98	15.02	12.85	11.08	11.08
2010	18.11	17.64	18.82	19.44	18.57	18.33	18.69	17.98	14.94	10.69	10.69
2011	23.34	22.92	23.61	23.80	23.40	24.47	24.82	23.95	19.50	10.16	9.25
2012	25.03	24.57	24.79	24.46	24.56	25.27	26.01	24.84	20.66	10.44	10.44

Table 8.1-3Y
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

Year	Ex-Refinery Prices													
	ULG95	UGR91	Gasohol 95		Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B/kg)		
			(E10)	(E20)	(E85)							Cooking	Industry	Automobile
1996	0.11	0.11				0.03	0.16			0.12	0.03			-0.64
1997	0.08	0.08				0.06	0.07			0.04	0.03			-1.89
1998	0.16	0.16				0.10	0.15			0.13	0.06			0.40
1999	0.09	0.09				0.10	0.10			0.08	0.06			-2.94
2000	0.34	0.22				0.10	0.11			0.11	0.06			-7.31
2001	0.50	0.30				0.10	0.50			0.50	0.06			-5.55
2002	0.50	0.30	0.27	0.27		0.10	0.50	0.27	0.10	0.50	0.06			-2.45
2003	0.49	0.30	0.27	0.27		0.10	0.44	0.27	0.10	0.50	0.06			-3.05
2004	-0.34	-0.59	0.24	0.24		0.10		0.27	0.10	-2.24	0.06			-2.55
2005	1.28	1.03	0.13	0.13		0.10		0.16	0.10	-0.92	0.06			-2.54
2006	2.70	2.50	0.84	0.84		0.10		0.84	0.10	1.47	0.06			-1.93
2007	3.67	3.37	0.85	0.85		0.10		0.62	0.10	1.39	0.06			-1.02
2008	3.78	3.31	0.77	-0.21		0.10		0.28	0.10	-0.68	0.06			0.30
2009	6.94	5.31	1.78	-0.80	-7.88	0.10		1.17	0.10	-0.95	0.06			0.22
2010	7.50	6.65	2.74	-0.41	-10.93	0.10		1.43	0.10	-0.65	0.06			0.61
2011	4.90	4.38	1.87	-1.80	-13.50	0.10		-0.40	0.10	-3.01	0.06			1.14
2012	5.23	4.73	2.03	-1.30	-12.40	0.10		0.16	0.10	1.20	0.06			10.55
														3.34

Table 8.1-4
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)	
	ULG95	UGR91	Gasohol 95			HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500		
			(E10)	(E20)										91
2008														
Jan														
WT.AVG	31.61	30.54	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.07	17.46	17.48	13.59
Trader Cost	31.62	30.55	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.01	17.46	17.48	13.59
Feb														
WT.AVG	32.07	31.16	27.37	26.35	26.70	27.70	28.09	27.76	27.61	18.67	17.57	16.97	16.96	13.77
Trader Cost	32.06	31.15	27.37	26.35	26.70	27.70	28.10	27.76	27.61	18.67	17.49	16.97	16.96	13.77
Mar														
WT.AVG	32.42	31.58	27.67	26.64	27.11	30.20	28.14	29.51	30.03	19.34	18.06	16.98	17.30	13.69
Trader Cost	32.42	31.58	27.67	26.64	27.11	30.20	28.15	29.51	30.03	19.34	17.98	16.98	17.30	13.69
Apr														
WT.AVG	34.30	33.40	29.39	28.19	28.72	33.18	32.66	30.25	32.85	21.07	19.73	18.80	18.61	13.69
Trader Cost	34.29	33.38	29.39	28.19	28.72	33.18	32.64	30.25	32.85	21.07	19.62	18.80	18.61	13.69
May														
WT.AVG	37.30	36.36	32.10	30.57	31.46	37.87	37.11	32.62	37.36	23.86	22.20	21.28	20.98	13.69
Trader Cost	37.28	36.34	32.10	30.57	31.46	37.87	37.09	32.62	37.36	23.86	22.08	21.28	20.98	13.69
Jun														
WT.AVG	40.51	39.51	34.99	33.13	34.34	40.48	40.28	37.55	40.42	26.23	24.43	23.28	23.20	13.69
Trader Cost	40.49	39.50	34.99	33.13	34.34	40.48	40.27	37.55	40.42	26.23	24.30	23.28	23.20	13.69
Jul														
WT.AVG	39.72	38.83	33.46	31.78	32.76	41.53	40.09	40.33	41.07	29.13	27.65	26.73	26.53	13.69
Trader Cost	39.74	38.85	33.46	31.78	32.76	41.53	40.10	40.33	41.07	29.13	27.52	26.73	26.53	13.69
Aug														
WT.AVG	35.73	34.85	26.87	25.60	26.17	35.39	31.37	35.50	34.10	26.89	25.88	25.29	25.17	13.69
Trader Cost	35.74	34.85	26.87	25.60	26.17	35.39	31.38	35.50	34.10	26.89	25.76	25.29	25.17	13.69
Sep														
WT.AVG	34.52	33.80	26.02	24.78	25.31	31.94	29.17	29.12	31.17	23.94	23.00	22.52	22.40	13.69
Trader Cost	34.53	33.81	26.02	24.78	25.31	31.94	29.18	29.12	31.17	23.94	22.92	22.52	22.40	13.69
Oct														
WT.AVG	28.46	28.21	21.68	20.87	20.90	25.06	22.10	20.76	23.64	17.16	16.43	16.27	16.10	13.69
Trader Cost	28.50	28.25	21.68	20.87	20.90	25.06	22.13	20.76	23.64	17.16	16.48	16.27	16.10	13.69
Nov														
WT.AVG	21.50	21.19	16.24	15.17	15.35	21.39	19.19	17.29	19.97	11.55	10.58	10.02	10.09	13.69
Trader Cost	21.52	21.22	16.24	15.17	15.35	21.39	19.20	17.29	19.97	11.55	10.55	10.02	10.09	13.69
Dec														
WT.AVG	21.23	19.21	14.51	13.35	13.69	17.81	16.89	14.66	17.48	10.34	9.55	8.96	9.10	13.69
Trader Cost	21.21	19.21	14.51	13.35	13.69	17.81	16.90	14.66	17.48	10.34	9.52	8.96	9.10	13.69
2008 AVG														
WT.AVG	32.45	31.55	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.43	18.71	18.66	13.68
Trader Cost	32.45	31.56	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.35	18.71	18.66	13.68

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg (exclude vat)
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2009														
Jan														
WT.AVG	25.31	21.68	16.26	14.05	15.46	17.83	16.81	14.62	17.21	10.96	10.30	9.68	9.82	13.69
Trader Cost	25.29	21.66	16.26	14.05	15.46	17.83	16.82	14.62	17.21	10.96	10.25	9.68	9.82	13.69
Feb														
WT.AVG	28.33	24.53	19.82	17.39	19.09	16.49	16.66	13.50	15.37	10.94	10.49	10.13	10.23	13.69
Trader Cost	28.33	24.53	19.82	17.39	19.09	16.49	16.67	13.50	15.37	10.94	10.47	10.13	10.23	13.69
Mar														
WT.AVG	27.70	25.40	21.83	19.23	21.01	16.70	19.51	16.17	16.12	10.75	10.21	9.79	9.91	13.69
Trader Cost	27.70	25.38	21.83	19.23	21.01	16.70	19.50	16.17	16.12	10.75	10.17	9.79	9.91	13.69
Apr														
WT.AVG	29.08	27.37	23.53	20.54	22.72	18.01	20.93	17.48	17.57	12.20	11.71	11.27	11.35	13.69
Trader Cost	29.08	27.35	23.53	20.54	22.72	18.01	20.94	17.48	17.57	12.20	11.66	11.27	11.35	13.69
May														
WT.AVG	30.61	28.81	24.93	21.77	24.16	18.70	22.09	19.16	18.40	13.82	13.41	12.97	13.05	13.69
Trader Cost	30.60	28.79	24.93	21.77	24.16	18.70	22.08	19.16	18.40	13.82	13.35	12.97	13.05	13.69
Jun														
WT.AVG	32.88	31.14	27.25	24.23	26.45	21.20	25.04	20.64	21.15	15.80	15.32	15.00	14.95	13.69
Trader Cost	32.87	31.13	27.25	24.23	26.45	21.20	25.03	20.64	21.15	15.80	15.26	15.00	14.95	13.69
Jul														
WT.AVG	33.37	31.38	27.37	24.23	26.43	20.41	24.79	20.06	20.53	15.86	15.44	15.08	15.16	13.69
Trader Cost	33.37	31.38	27.37	24.23	26.43	20.41	24.80	20.06	20.53	15.86	15.39	15.08	15.16	13.69
Aug														
WT.AVG	36.00	33.95	30.05	26.47	28.96	21.81	26.27	23.07	22.83	17.13	16.64	16.28	16.34	13.69
Trader Cost	35.99	33.95	30.05	26.47	28.96	21.81	26.27	23.07	22.83	17.13	16.58	16.28	16.34	13.69
Sep														
WT.AVG	34.50	32.53	30.04	25.31	27.59	20.90	24.55	22.97	21.94	16.67	16.23	15.99	16.01	13.69
Trader Cost	34.51	32.54	30.04	25.31	27.59	20.90	24.55	22.97	21.94	16.67	16.18	15.99	16.01	13.69
Oct														
WT.AVG	34.68	32.62	28.85	25.41	27.76	21.74	25.30	24.22	22.55	17.04	16.60	16.19	16.26	13.69
Trader Cost	34.67	32.60	28.85	25.41	27.76	21.74	25.29	24.22	22.55	17.04	16.53	16.19	16.26	13.69
Nov														
WT.AVG	35.57	33.55	29.66	26.13	28.56	22.84	26.26	25.08	23.64	17.96	17.50	17.20	16.22	13.69
Trader Cost	35.58	33.55	29.66	26.13	28.56	22.84	26.26	25.08	23.64	17.96	17.44	17.20	16.22	13.69
Dec														
WT.AVG	35.53	33.50	29.62	26.09	28.53	22.41	25.68	24.60	22.95	17.83	17.43	17.11	17.12	13.69
Trader Cost	35.53	33.49	29.62	26.09	28.53	22.41	25.68	24.60	22.95	17.83	17.36	17.11	17.12	13.69
2009 AVG														
WT.AVG	31.96	29.70	25.77	22.57	24.73	19.92	22.82	20.13	20.02	14.75	14.27	13.89	13.87	13.69
Trader Cost	31.96	29.70	25.77	22.57	24.73	19.92	22.82	20.13	20.02	14.75	14.22	13.89	13.87	13.69

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)	
	ULG95	UGR91	Gasohol 95			HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500		
			(E10)	(E20)										91
2010														
Jan														
WT.AVG	36.72	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.99	17.68	17.68	13.69
Trader Cost	36.73	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.92	17.68	17.68	13.69
Feb														
WT.AVG	36.48	34.84	30.88	26.91	29.18	22.14	26.20	24.88	23.05	17.74	17.30	16.86	16.93	13.69
Trader Cost	36.48	34.83	30.88	26.91	29.18	22.14	26.19	24.88	23.05	17.74	17.23	16.86	16.93	13.69
Mar														
WT.AVG	37.10	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.22	16.87	16.80	13.69
Trader Cost	37.11	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.15	16.87	16.80	13.69
Apr														
WT.AVG	37.61	36.01	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.81	17.33	17.35	13.69
Trader Cost	37.61	36.00	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.74	17.33	17.35	13.69
May														
WT.AVG	35.76	34.35	30.39	26.36	28.43	23.09	26.99	25.62	24.06	17.43	16.82	16.54	16.51	13.69
Trader Cost	35.78	34.36	30.39	26.36	28.43	23.09	27.00	25.62	24.06	17.43	16.78	16.54	16.51	13.69
Jun														
WT.AVG	35.44	33.98	30.10	26.09	28.15	22.78	26.30	25.35	23.52	16.86	16.25	15.83	15.89	13.69
Trader Cost	35.44	33.97	30.10	26.09	28.15	22.78	26.29	25.35	23.52	16.86	16.18	15.83	15.89	13.69
Jul														
WT.AVG	35.15	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.26	15.86	15.85	13.69
Trader Cost	35.16	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.20	15.86	15.85	13.69
Aug														
WT.AVG	34.92	33.44	29.64	25.68	27.62	22.51	26.26	25.38	23.52	16.92	16.32	15.98	15.93	13.69
Trader Cost	34.93	33.44	29.64	25.68	27.62	22.51	26.27	25.38	23.52	16.92	16.26	15.98	15.93	13.69
Sep														
WT.AVG	34.39	32.90	29.16	25.23	27.15	22.04	25.84	24.82	22.81	16.19	15.62	15.23	15.25	13.69
Trader Cost	34.39	32.90	29.16	25.23	27.15	22.04	25.83	24.82	22.81	16.19	15.56	15.23	15.25	13.69
Oct														
WT.AVG	35.27	33.81	29.94	25.87	27.98	22.82	26.50	25.48	23.50	16.63	16.04	15.67	15.65	13.69
Trader Cost	35.27	33.80	29.94	25.87	27.98	22.82	26.49	25.48	23.50	16.63	15.97	15.67	15.65	13.69
Nov														
WT.AVG	35.98	34.33	30.58	26.50	28.59	23.48	27.32	26.38	24.15	17.28	16.66	16.29	16.23	13.69
Trader Cost	35.98	34.32	30.58	26.50	28.59	23.48	27.31	26.38	24.15	17.28	16.59	16.29	16.23	13.69
Dec														
WT.AVG	37.92	35.92	31.92	27.14	29.03	24.78	28.14	27.93	25.50	18.04	17.34	16.94	16.88	13.69
Trader Cost	37.91	35.92	31.92	27.14	29.03	24.78	28.12	27.93	25.50	18.04	17.27	16.94	16.88	13.69
2010 AVG														
WT.AVG	36.06	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.80	16.42	16.41	13.69
Trader Cost	36.07	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.74	16.42	16.41	13.69

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg (exclude vat)
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2011														
Jan														
WT.AVG	39.09	37.59	32.95	28.00	30.01	26.28	28.27	28.79	26.85	19.15	18.38	17.84	17.88	13.69
Trader Cost	39.05	37.55	32.95	28.00	30.01	26.28	28.23	28.79	26.85	19.15	18.24	17.84	17.88	13.69
Feb														
WT.AVG	40.33	38.86	34.07	29.00	31.12	28.57	28.30	29.58	28.92	21.55	20.79	20.31	20.25	13.69
Trader Cost	40.32	38.84	34.07	29.00	31.12	28.57	28.29	29.58	28.92	21.55	20.69	20.31	20.25	13.69
Mar														
WT.AVG	41.97	40.47	35.54	30.30	32.60	30.74	28.56	30.31	31.33	22.98	21.95	21.47	21.35	13.69
Trader Cost	41.97	40.47	35.54	30.30	32.60	30.74	28.55	30.31	31.33	22.98	21.86	21.47	21.35	13.69
Apr														
WT.AVG	43.50	41.98	36.92	31.51	33.99	31.80	28.61	29.47	32.56	23.92	22.98	22.48	22.38	13.69
Trader Cost	43.49	41.97	36.92	31.51	33.99	31.80	28.61	29.47	32.56	23.92	22.88	22.48	22.38	13.69
May														
WT.AVG	42.69	41.34	36.19	30.95	33.20	30.03	28.34		30.88	22.94	22.07	21.80	21.62	13.69
Trader Cost	42.70	41.34	36.19	30.95	33.20	30.03	28.34		30.88	22.94	21.98	21.80	21.62	13.69
Jun														
WT.AVG	41.93	40.47	35.51	30.29	32.56	29.88	28.42		30.64	23.31	22.49	22.07	21.98	13.69
Trader Cost	41.93	40.47	35.51	30.29	32.56	29.88	28.42		30.64	23.31	22.40	22.07	21.98	13.69
Jul														
WT.AVG	42.77	41.27	36.26	30.93	33.33	29.97	28.68		30.72	23.57	22.70	22.16	22.17	13.69
Trader Cost	42.77	41.26	36.26	30.93	33.33	29.97	28.68		30.72	23.57	22.60	22.16	22.17	13.69
Aug														
WT.AVG	40.56	39.20	35.40	30.16	32.44	28.87	27.89		29.46	22.78	21.96	21.48	21.47	13.69
Trader Cost	40.57	39.19	35.40	30.16	32.44	28.87	27.89		29.46	22.78	21.87	21.48	21.47	13.69
Sep														
WT.AVG	34.66	33.85	35.12	29.29	31.63	29.11	26.12		29.89	23.24	22.41	21.93	21.90	13.69
Trader Cost	34.67	33.85	35.12	29.29	31.63	29.11	26.12		29.89	23.24	22.32	21.93	21.90	13.69
Oct														
WT.AVG	34.49	33.88	34.97	29.15	31.48	29.41	26.77		29.94	23.49	22.78	22.33	22.26	13.69
Trader Cost	34.50	33.88	34.97	29.15	31.48	29.41	26.75		29.94	23.49	22.68	22.33	22.26	13.69
Nov														
WT.AVG	32.76	31.98	32.26	27.78	30.03	30.44	27.44		31.32	24.59	23.86	23.39	23.24	13.69
Trader Cost	32.77	31.98	32.26	27.78	30.03	30.44	27.44		31.32	24.59	23.76	23.39	23.24	13.69
Dec														
WT.AVG	33.12	32.24	32.46	27.81	30.26	29.59	26.71		30.67	24.07	23.38	23.00	22.81	13.69
Trader Cost	33.12	32.23	32.46	27.81	30.26	29.59	26.71		30.67	24.07	23.28	23.00	22.81	13.69
2011 AVG														
WT.AVG	38.99	37.76	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.15	21.69	21.61	13.69
Trader Cost	38.99	37.75	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.05	21.69	21.61	13.69

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)	
	ULG95	UGR91	Gasohol 95			HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500		
			(E10)	(E20)										91
2012														
Jan														
WT.AVG	36.40	35.46	35.46	30.74	33.35	30.64	28.74		31.90	25.85	25.08	24.86	22.81	13.69
Trader Cost	36.39	35.45	35.46	30.74	33.35	30.64	28.73		31.90	25.85	24.97	24.86	22.81	13.69
Feb														
WT.AVG	38.25	37.24	37.22	32.36	35.06	31.13	29.32		32.16	25.78	24.91	24.70	24.55	13.69
Trader Cost	38.23	37.24	37.22	32.36	35.06	31.13	29.32		32.16	25.78	24.81	24.70	24.55	13.69
Mar														
WT.AVG	40.51	39.55	38.82	33.84	36.65	31.89	30.04		32.77	26.20	25.36	25.11	24.94	13.69
Trader Cost	40.50	39.55	38.82	33.84	36.65	31.89	30.03		32.77	26.20	25.26	25.11	24.94	13.69
Apr														
WT.AVG	41.45	40.53	38.71	33.76	36.54	31.54	29.67		32.40	25.89	24.98	24.82	24.70	13.69
Trader Cost	41.45	40.54	38.71	33.76	36.54	31.54	29.67		32.40	25.89	24.88	24.82	24.70	13.69
May														
WT.AVG	39.74	38.88	36.61	31.91	34.42	29.92	28.02		30.76	24.39	23.70	23.40	23.26	13.69
Trader Cost	39.75	38.90	36.61	31.91	34.42	29.92	28.02		30.76	24.39	23.63	23.40	23.26	13.69
Jun														
WT.AVG	38.64	37.83	34.35	29.67	32.16	27.41	27.13		28.26	22.05	21.48	21.07	20.93	13.69
Trader Cost	38.66	37.85	34.35	29.67	32.16	27.41	27.13		28.26	22.05	21.40	21.07	20.93	13.69
Jul														
WT.AVG	41.32	40.32	36.41	31.48	34.28	28.76	27.97		29.53	22.72	22.01	21.51	21.45	13.69
Trader Cost	41.30	40.31	36.41	31.48	34.28	28.76	27.95		29.53	22.72	21.90	21.51	21.45	13.69
Aug														
WT.AVG	43.58	41.92	36.96	32.45	34.36	31.11	28.49		31.95	24.36	23.56	23.08	22.97	13.69
Trader Cost	43.57	41.92	36.96	32.45	34.36	31.11	28.48		31.95	24.36	23.46	23.08	22.97	13.69
Sep														
WT.AVG	43.36	41.03	36.10	31.78	33.17	31.43	27.96		31.96	24.48	23.70	23.27	23.12	13.69
Trader Cost	43.35	41.04	36.10	31.78	33.17	31.43	27.96		31.96	24.48	23.61	23.27	23.12	13.69
Oct														
WT.AVG	43.14	40.97	35.87	30.48	32.93	30.66	27.59		31.08	23.28	22.43	22.02	21.90	13.69
Trader Cost	43.14	40.98	35.87	30.48	32.93	30.66	27.60		31.08	23.28	22.34	22.02	21.90	13.69
Nov														
WT.AVG	42.87	40.68	35.68	29.30	32.75	29.67	27.77		30.31	22.19	21.40	20.82	20.74	13.69
Trader Cost	42.86	40.68	35.68	29.30	32.75	29.67	27.77		30.31	22.19	21.31	20.82	20.74	13.69
Dec														
WT.AVG	43.08	40.91	35.95	29.62	33.02	29.54	27.67		30.22	21.99	21.10	20.62	20.57	13.69
Trader Cost	43.08	40.92	35.95	29.62	33.02	29.54	27.68		30.22	21.99	21.02	20.62	20.57	13.69
2012 AVG														
WT.AVG	41.03	39.61	36.51	31.45	34.06	30.31	28.36		31.11	24.10	23.31	22.94	22.66	13.69
Trader Cost	41.02	39.61	36.51	31.45	34.06	30.31	28.36		31.11	24.10	23.22	22.94	22.66	13.69

After Jan'1992 Wholesale Prices Including VAT.

**Table 8.1-5Y
Retail Prices of Petroleum Products in Bangkok**

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG			
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)									(E85)	(Baht/kg)
1997 (Min)	10.43	10.04			10.90	9.43		9.21	5.67	5.43	11.36		10.46	5.65
(WT.AVG)	10.48	10.09			11.17	9.49		9.48	5.85	5.45	11.36		10.53	5.68
(Max)	10.50	10.12			11.40	9.51		10.00	6.06	5.97	11.36		10.58	5.71
1998 (Min)	11.84	11.18			11.16	9.18		8.80	6.59	6.21	12.70		11.94	6.45
(WT.AVG)	11.86	11.20			11.70	9.19		9.54	6.79	6.42	12.70		11.94	6.45
(Max)	11.87	11.20			12.10	9.19		10.93	7.01	6.45	12.70		11.94	6.45
1999 (Min)	11.96	11.14			11.25	8.95		8.58	6.41	6.09	11.03		10.75	5.81
(WT.AVG)	11.98	11.16			11.63	8.96		8.95	6.87	6.29	11.03		10.75	5.81
(Max)	11.98	11.17			11.93	8.97		9.51	7.86	7.69	11.03		10.75	5.81
2000 (Min)	15.62	14.66			14.83	12.92		12.58	9.30	8.94	10.70		10.57	5.71
(WT.AVG)	15.63	14.68			15.10	12.95		12.77	9.68	9.22	10.70		10.57	5.71
(Max)	15.64	14.68			15.43	12.97		12.94	10.47	10.25	10.70		10.57	5.71
2001 (Min)	15.50	14.50			15.33	13.42		13.05	9.39	8.90	11.90		12.00	6.48
(WT.AVG)	15.51	14.51			15.97	13.43		13.18	9.76	9.25	11.90		12.00	6.48
(Max)	15.51	14.51			16.53	13.43		13.30	10.41	9.98	11.90		12.00	6.48
2002 (Min)	15.29	14.29			14.54	13.12		12.72	9.31	8.96	13.77		13.98	7.55
(WT.AVG)	15.29	14.29			15.56	13.12		12.83	9.91	9.24	13.77		13.98	7.55
(Max)	15.29	14.29			16.12	13.12		12.98	10.65	10.19	13.77		13.98	7.55
2003 (Min)	16.60	15.65			15.60	14.03		13.58	10.02	10.02	14.87		14.88	8.05
(WT.AVG)	16.60	15.65			16.71	14.03		13.73	11.00	10.36	14.87		14.88	8.05
(Max)	16.60	15.65			17.41	14.03		13.85	12.40	11.80	14.87		14.88	8.05
2004 (Min)	19.05	18.26			17.73	14.59		14.28	10.66	10.25	16.46		16.46	8.90
(WT.AVG)	19.05	18.26			19.50	14.59		14.37	11.75	10.98	16.46		16.46	8.90
(Max)	19.05	18.26			20.22	14.59		14.45	13.02	12.53	16.46		16.46	8.90
2005 (Min)	23.89	23.09			22.06	20.01		17.14	13.10	13.10	16.81		16.81	9.09
(WT.AVG)	23.90	23.10			24.51	20.03		18.18	15.83	15.09	16.81		16.81	9.09
(Max)	23.91	23.11			25.71	20.05		19.91	17.30	16.86	16.81		16.81	9.09
2006 (Min)	27.54	26.75			26.87	25.56		25.37	17.22	16.35	16.81		16.81	9.09
(WT.AVG)	27.58	26.79			28.42	25.59		25.37	18.11	17.29	16.81		16.81	9.09
(Max)	27.66	26.86			29.25	25.61		25.37	19.27	18.79	16.81		16.81	9.09
2007 (Min)	29.18	28.32	26.17		26.01	25.66	25.06	25.45	18.48	17.66	16.91		16.91	9.14
(WT.AVG)	29.18	28.32	26.17		26.76	25.66	25.09	25.45	19.35	18.45	16.91		16.91	9.14
(Max)	29.23	28.35	26.25	25.76	30.50	25.67	24.95	25.45	20.67	20.19	16.91		16.91	9.14
2008 (Min)	34.86	33.40	28.95	27.36	34.99	31.15	30.34	33.20	22.53	21.06	18.13		18.13	9.79
(WT.AVG)	35.33	33.43	28.97	27.37	38.34	31.26	30.39	33.20	22.90	21.33	18.13		18.13	9.79
(Max)	35.89	33.45	29.02	27.37	40.88	31.34	30.50	33.20	27.12	26.11	18.13		18.13	9.79
2009 (Min)	37.23	31.32	27.49	18.77	26.20	24.75	22.71	27.04	18.10	16.39	18.13		18.13	9.79
(WT.AVG)	37.47	31.34	27.50	18.87	26.69	24.77	22.71	27.04	21.18	19.83	18.13		18.13	9.79
(Max)	38.29	31.36	27.53	18.96	27.64	24.79	22.73	27.04	21.28	20.90	18.13		18.13	9.79
2010 (Min)	41.12	36.10	32.30	19.21	28.68	28.64	27.50	27.04	21.06	19.35	18.13		18.13	9.79
(WT.AVG)	41.26	36.10	32.35	19.21	30.85	28.69	27.55	27.04	23.59	22.04	18.13		18.13	9.79
(Max)	41.90	36.13	32.40	19.21	30.90	28.72	27.58	27.04	27.28	22.90	18.13		18.13	9.79
2011 (Min)	44.51	39.68	36.48	21.75	32.11	27.04	26.69	27.04	26.69	25.19	18.13		18.13	9.79
(WT.AVG)	44.64	39.72	36.52	21.75	33.94	29.45	29.45	27.04	28.58	26.68	18.13		18.13	9.79
(Max)	45.31	39.80	36.65	21.75	34.12	29.54	30.17	27.04	30.98	29.76	18.13		18.13	9.79
2012 (Min)	46.27	41.94	37.94	22.22	36.15	30.41	28.12	27.04	29.72	28.12	18.13		18.13	11.21
(WT.AVG)	46.42	41.96	37.96	22.23	35.88	30.42	28.71	27.04	31.33	29.41	18.13		18.13	11.21
(Max)	47.19	42.01	38.01	22.23	36.00	30.51	28.71	27.04	33.33	32.10	18.13		18.13	11.26

Table 8.1-6
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2008		11,069	54,083
Jan	2,560	2,560	7,009
Feb	3,659	1,099	5,933
Mar	3,780	121	6,843
Apr	3,305	-475	7,139
May	3,839	534	6,404
Jun	3,672	-167	6,152
Jul	134	-3,538	5,472
Aug	197	63	1,955
Sep	1,562	1,365	1,928
Oct	4,496	2,934	1,851
Nov	7,563	3,067	1,628
Dec	11,069	3,506	1,769
2009		10,225	123,445
Jan	14,960	3,891	1,483
Feb	16,618	1,658	7,169
Mar	19,567	2,949	9,325
Apr	15,694	-3,873	8,645
May	17,566	1,872	10,037
Jun	15,173	-2,393	13,331
Jul	16,593	1,420	12,557
Aug	19,054	2,461	12,225
Sep	19,683	629	11,039
Oct	20,561	878	12,351
Nov	20,758	197	12,279
Dec	21,294	536	13,004
2010		6,147	153,561
Jan	20,794	-500	12,514
Feb	20,705	-89	12,443
Mar	21,764	1,059	14,603
Apr	22,705	941	13,852
May	22,670	-35	11,939
Jun	23,820	1,150	12,564
Jul	25,441	1,621	12,605
Aug	26,901	1,460	12,664
Sep	27,525	624	12,007
Oct	28,171	646	12,023
Nov	28,768	597	12,431
Dec	27,441	-1,327	13,916

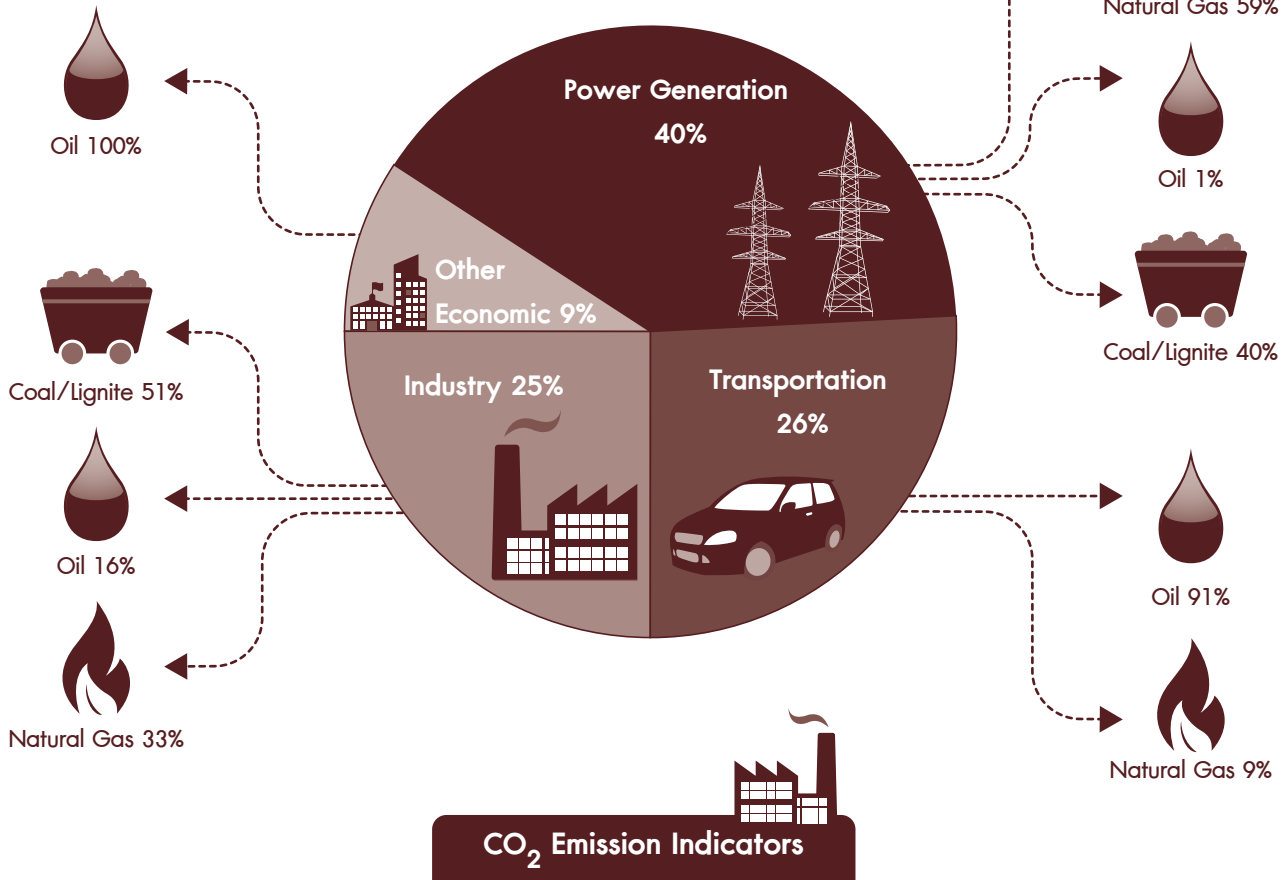
Table 8.1-6 (Cont.)
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2011		-41,441	92,766
Jan	25,183	-2,258	12,514
Feb	21,684	-3,499	14,068
Mar	14,258	-7,426	13,536
Apr	1,003	-13,255	13,246
May	550	-453	4,915
Jun	-1,253	-1,803	5,122
Jul	-524	729	4,861
Aug	1,317	1,841	5,322
Sep	-317	-1,634	4,751
Oct	-3,296	-2,979	4,804
Nov	-11,380	-8,084	4,701
Dec	-14,000	-2,620	4,926
2012		-4,079	56,699
Jan	-15,774	-1,774	5,514
Feb	-18,699	-2,925	5,245
Mar	-21,304	-2,605	5,151
Apr	-22,820	-1,516	4,897
May	-21,864	956	5,128
Jun	-18,623	3,241	4,997
Jul	-14,213	4,410	5,327
Aug	-15,325	-1,112	5,338
Sep	-18,423	-3,098	5,036
Oct	-19,500	-1,077	4,945
Nov	-18,079	1,421	5,121
Dec	-16,800	1,279	5,485

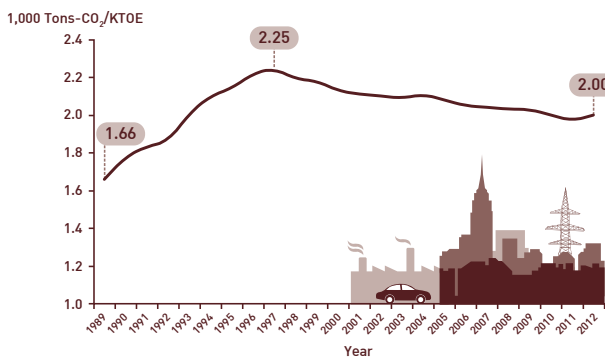
Air Pollution Emission in The Energy Sector

CO₂ Emission by Sector

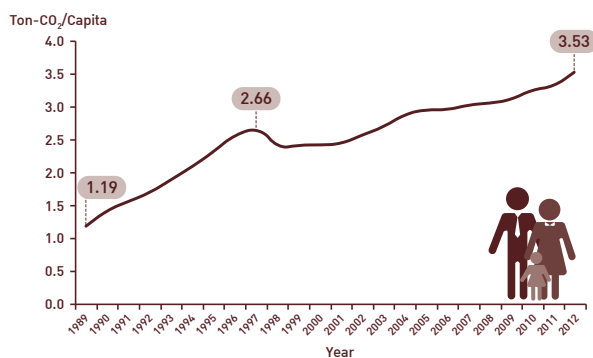


CO₂ Emission Indicators

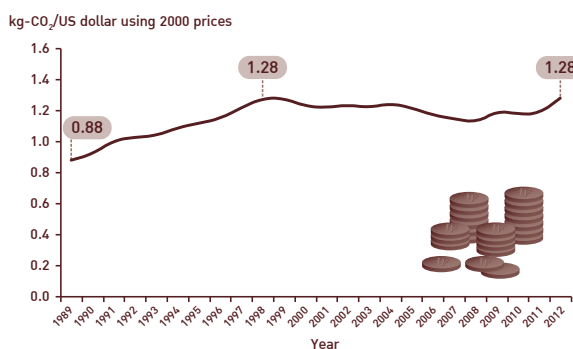
CO₂ Emission per Primary Energy Consumption



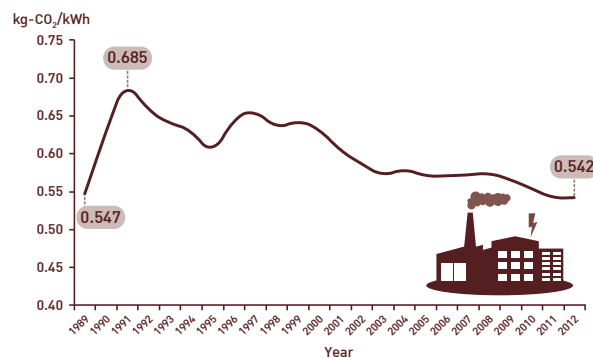
CO₂ Emission per Capita



CO₂ Emission per GDP



CO₂ Emission per kWh





CHAPTER
บทที่

9

Air Pollution Emission
in The Energy Sector

การปล่อยมลพิษทางอากาศในภาคพลังงาน

การปล่อยมลพิษทางอากาศในภาคพลังงาน

วิธีการคำนวณ การคำนวณปริมาณการปลดปล่อยมลพิษทางอากาศ เป็นการประมาณปริมาณก๊าซคาร์บอนไดออกไซด์ (CO₂) ที่เกิดจากการใช้พลังงานของประเทศ ซึ่งคำนวณจากปริมาณการใช้พลังงาน (Energy Consumption) และค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ (Emission Factor) ตามชนิดเชื้อเพลิง โดยอ้างอิงระเบียบวิธีประมาณการและค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ ตามหลักเกณฑ์ของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006 โดยมีสูตรคำนวณดังนี้

$$CO_2 \text{ Emission} = \sum (EF_{\text{Fuel}} \times FC_{\text{Fuel}})$$

CO ₂ Emission	หมายถึง ปริมาณการปล่อยก๊าซ CO ₂ จากการใช้พลังงาน
EF _{Fuel} (Emission Factor) ¹	หมายถึง ค่าสัมประสิทธิ์การปล่อยก๊าซ CO ₂ ตามชนิดเชื้อเพลิง
FC _{Fuel} (Fuel Consumption) ²	หมายถึง ปริมาณการใช้เชื้อเพลิงแต่ละชนิด

ขอบเขตการคำนวณปริมาณก๊าซ CO₂ ข้างต้น คำนวณจากการใช้พลังงานของ 4 ภาคเศรษฐกิจ ได้แก่ ภาคการผลิตไฟฟ้า (Power Generation) ภาคการขนส่ง (Transportation) ภาคอุตสาหกรรม (Industry) และภาคเศรษฐกิจอื่น ๆ (Other Sectors) ซึ่งหมายถึงภาคครัวเรือน เกษตรกรรม และพาณิชย์กรรม ด้านชนิดเชื้อเพลิงได้แบ่งเชื้อเพลิงในการคำนวณออกเป็น 3 ชนิด ได้แก่ น้ำมันสำเร็จรูป (คำนวณจากการใช้น้ำมันเบนซิน ดีเซล น้ำมันเตา ก๊าซปิโตรเลียมเหลว (LPG) น้ำมันเครื่องบิน และน้ำมันก๊าด) ก๊าซธรรมชาติ และถ่านหินลิกไนต์ โดยในการคำนวณจะไม่รวมเชื้อเพลิงบางชนิด ได้แก่ น้ำมันเตาสำหรับเรือเดินสมุทรระหว่างประเทศ (Bunker Oil) น้ำมันเครื่องบินสำหรับเที่ยวบินระหว่างประเทศ และเชื้อเพลิงหมุนเวียน เช่น ชีวมวล ก๊าซชีวภาพ เอทานอล ไบโอดีเซล พลังน้ำ ฯลฯ เพื่อให้สอดคล้องกับข้อยกเว้นในการคำนวณและป้องกันการนับซ้ำของ IPCC

การปล่อยก๊าซ CO₂ รายภาคเศรษฐกิจ

- **ภาคการผลิตไฟฟ้า** ในปี 2555 มีการปล่อยก๊าซ CO₂ รวมทั้งสิ้น 95.7 ล้านตัน โดยกว่า 25 ปีที่ผ่านมา มีการปล่อยก๊าซ CO₂ จากการใช้ น้ำมันสำเร็จรูป (น้ำมันดีเซลและน้ำมันเตา) ลดลงจาก 2.5 ล้านตันในปี 2531 เหลือ 1.4 ล้านตันในปี 2555 ในขณะที่การใช้ถ่านหินลิกไนต์และก๊าซธรรมชาติยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ สูงขึ้นตามปริมาณการใช้พลังงานที่เพิ่มขึ้น โดยถ่านหินลิกไนต์ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 6.2 ล้านตันในปี 2531 เป็น 37.4 ล้านตันในปี 2555 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 9.6 ล้านตันในปี 2531 เป็น 56.9 ล้านตันในปี 2555 โดยก๊าซธรรมชาตินับเป็นเชื้อเพลิงที่มีการปล่อยก๊าซ CO₂ ในภาคการผลิตไฟฟ้ามากที่สุด

¹ อ้างอิงจากคู่มือการคำนวณการปล่อยมลพิษทางอากาศของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006

² อ้างอิงจากรายงานข้อมูลสถิติพลังงานของสำนักงานนโยบายและแผนพลังงาน

Air Pollution Emission in The Energy Sector

Calculation Methods. The calculation of the amount of air pollution emissions herein is the estimation of CO₂ emission stemming from energy use in Thailand, calculated from the amount of energy consumption and the CO₂ emission factor by fuel type, with reference to the estimation methodologies and CO₂ emission factors prescribed in the 2006 Guidelines of the Intergovernmental Panel on Climate Change (IPCC), using the following calculation formula:

$$\text{CO}_2 \text{ Emission} = \sum (\text{EF}_{\text{Fuel}} \times \text{FC}_{\text{Fuel}})$$

Where:

- CO₂ Emission means the amount of CO₂ emission from energy consumption
- EF_{Fuel} (Emission Factor)¹ means the CO₂ emission coefficient of each fuel type
- FC_{Fuel} (Fuel Consumption)² means the amount of utilization of each fuel type

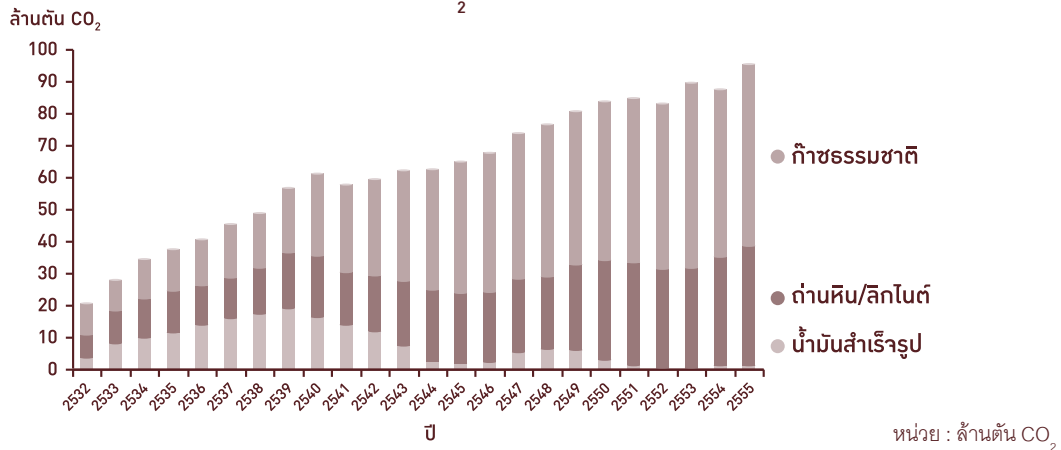
The scope of the above-mentioned CO₂ emission calculation covers energy consumption in four major economic sectors, namely: power generation, transportation, industry and other economic sectors (covering the residential, agricultural and commercial sectors). As for the fuel types used in the calculation, they are divided into three types, namely: petroleum products (calculated from consumption of gasoline, diesel, fuel oil, LPG, jet petroleum and kerosene), natural gas and coal/lignite. Certain types of fuel are not included in the calculation, i.e. bunker oil for international ocean liners, jet petroleum for international flights, and renewable fuels, such as biomass, biogas, ethanol, biodiesel and hydropower, to be in line with the exceptions to the calculation and to avoid the possibilities of double counting prescribed by the IPCC.

CO₂ Emission by Economic Sector

- **Power Generation Sector.** In 2012, CO₂ emissions in this sector totaled 95.7 million tons. Over the past 25 years, CO₂ emissions from the use of petroleum products (diesel and fuel oil) had decreased since 1988 from 2.5 million tons to 1.4 million tons in 2012. However, CO₂ emissions from burning of coal/lignite and natural gas had been rising in accordance with increased volume of energy use. CO₂ emission from coal/lignite consumption increased from 6.2 million tons in 1988 to 37.4 million tons in 2012. Similarly, CO₂ emission from natural gas consumption increased from 9.6 million tons in 1988 to 56.9 million tons in 2012, accounted for the largest CO₂ emission source in the power generation sector.

¹ Based on the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories
² Based on the energy statistics database of the Energy Policy and Planning Office

การปล่อยก๊าซ CO₂ ภาคการผลิตไฟฟ้า

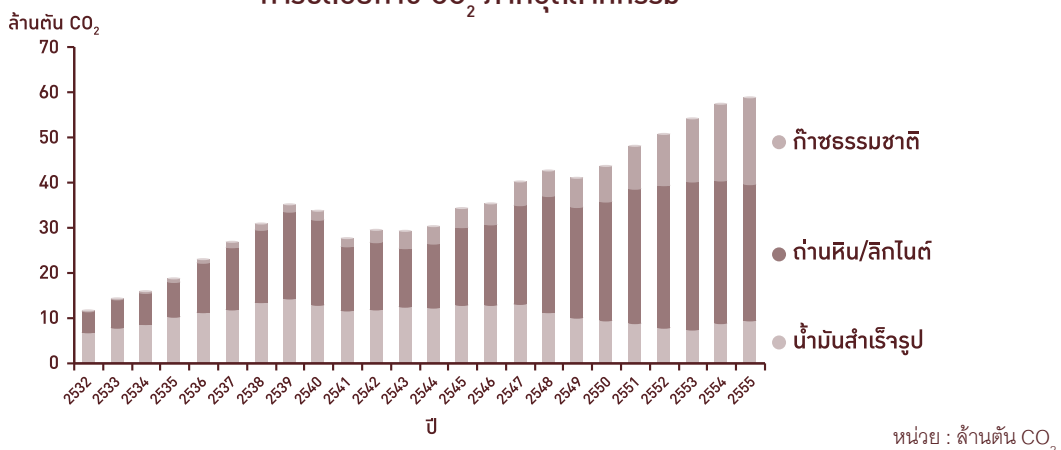


ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
น้ำมันสำเร็จรูป	3.78	8.10	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.00	12.02	7.56
ถ่านหิน/ลิกไนต์	7.15	10.44	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53	17.40	20.32
ก๊าซธรรมชาติ	9.84	9.62	12.32	13.04	14.73	16.65	17.03	20.20	25.54	27.45	30.24	34.53

ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
น้ำมันสำเร็จรูป	2.37	2.14	2.30	5.58	6.48	6.33	2.95	1.21	0.54	0.83	1.45	1.40
ถ่านหิน/ลิกไนต์	22.57	21.98	21.92	23.04	22.77	26.72	31.28	32.31	30.93	31.14	33.75	37.42
ก๊าซธรรมชาติ	37.80	41.15	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99	52.62	56.91

• **ภาคอุตสาหกรรม** มีการปล่อยก๊าซ CO₂ จากการใช้ถ่านหิน/ลิกไนต์และก๊าซธรรมชาติเพิ่มขึ้น ในขณะที่มีแนวโน้มการปล่อยก๊าซ CO₂ จากน้ำมันสำเร็จรูป (น้ำมันดีเซล น้ำมันเตา น้ำมันก๊าด และ LPG) ลดลงเช่นเดียวกับภาคการผลิตไฟฟ้า ในปี 2555 ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงที่มีสัดส่วนการปล่อยก๊าซ CO₂ มากที่สุดในภาคอุตสาหกรรม โดยเพิ่มขึ้นจาก 3.6 ล้านตันในปี 2531 เป็น 30.2 ล้านตันในปี 2555 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ ในช่วงดังกล่าวเพิ่มขึ้น ในขณะที่น้ำมันสำเร็จรูปมีแนวโน้มการปล่อยก๊าซ CO₂ ลดลงเหลือเพียง 9.5 ล้านตันในปี 2555

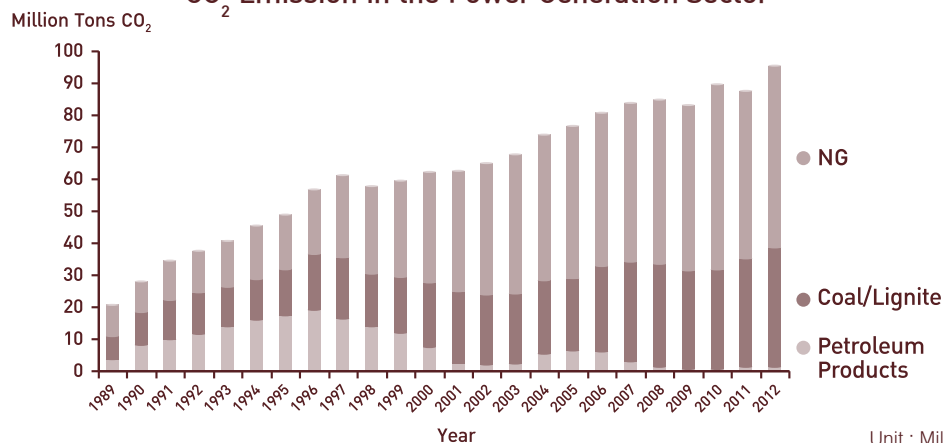
การปล่อยก๊าซ CO₂ ภาคอุตสาหกรรม



ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
น้ำมันสำเร็จรูป	6.78	7.93	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.69	11.87	12.63
ถ่านหิน/ลิกไนต์	4.82	6.16	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11	14.97	12.78
ก๊าซธรรมชาติ	0.20	0.37	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95	2.61	3.86

ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
น้ำมันสำเร็จรูป	12.34	12.86	12.87	13.24	11.41	10.06	9.54	8.88	7.96	7.46	8.89	9.46
ถ่านหิน/ลิกไนต์	14.24	17.27	17.98	21.73	25.57	24.59	26.35	29.84	31.47	32.71	31.58	30.20
ก๊าซธรรมชาติ	3.76	4.22	4.62	5.35	5.62	6.41	7.88	9.34	11.26	14.00	17.00	19.30

CO₂ Emission in the Power Generation Sector

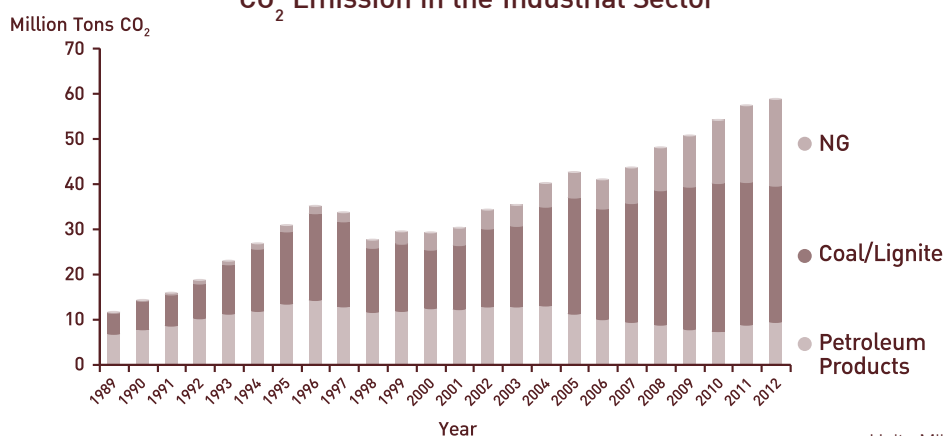


Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Petroleum Products	3.78	8.10	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.00	12.02	7.56
Coal/Lignite	7.15	10.44	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53	17.40	20.32
NG	9.84	9.62	12.32	13.04	14.73	16.65	17.03	20.20	25.54	27.45	30.24	34.53

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Petroleum Products	2.37	2.14	2.30	5.58	6.48	6.33	2.95	1.21	0.54	0.83	1.45	1.40
Coal/Lignite	22.57	21.98	21.92	23.04	22.77	26.72	31.28	32.31	30.93	31.14	33.75	37.42
NG	37.80	41.15	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99	52.62	56.91

• **Industrial Sector.** Similar to the power generation sector, CO₂ emissions from coal/lignite and natural gas consumption in this sector increased while a decrease in emissions had been observed in the use of petroleum products (diesel, fuel oil, kerosene and LPG). In 2012, coal/lignite accounted for the largest CO₂ emission source in the industrial sector, with the emission increasing from 3.6 million tons in 1988 to 30.20 million tons in 2012. CO₂ emission from natural gas consumption also increased over the same period, whereas the CO₂ emission from petroleum product consumption decreased to only 9.5 million tons in 2012.

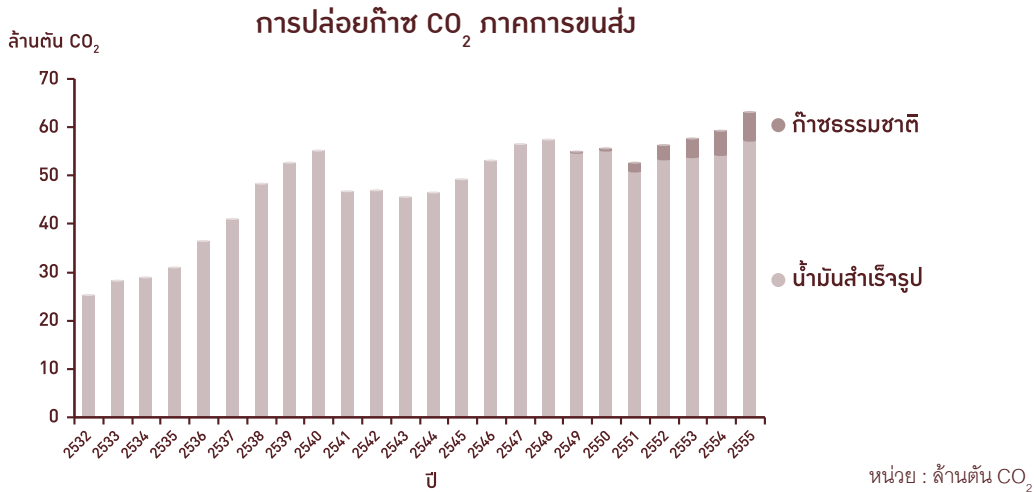
CO₂ Emission in the Industrial Sector



Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Petroleum Products	6.78	7.93	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.69	11.87	12.63
Coal/Lignite	4.82	6.16	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11	14.97	12.78
NG	0.20	0.37	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95	2.61	3.86

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Petroleum Products	12.34	12.86	12.87	13.24	11.41	10.06	9.54	8.88	7.96	7.46	8.89	9.46
Coal/Lignite	14.24	17.27	17.98	21.73	25.57	24.59	26.35	29.84	31.47	32.71	31.58	30.20
NG	3.76	4.22	4.62	5.35	5.62	6.41	7.88	9.34	11.26	14.00	17.00	19.30

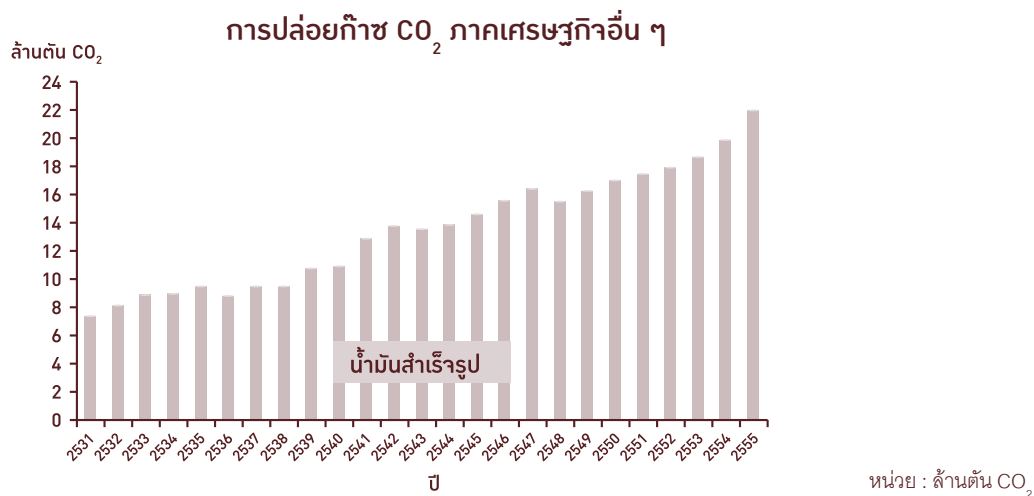
• **ภาคการขนส่ง** เชื้อเพลิงสำคัญที่ก่อให้เกิดการปล่อยก๊าซ CO₂ ในภาคเศรษฐกิจนี้ คือ น้ำมันสำเร็จรูป (น้ำมันเบนซิน ดีเซล น้ำมันเตา น้ำมันเครื่องบิน และ LPG) โดยมีการปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 21.1 ล้านตัน ในปี 2531 เป็น 55.2 ล้านตันในปี 2540 ก่อนจะลดลงในปี 2541 ซึ่งเป็นช่วงที่ประเทศเกิดภาวะวิกฤตเศรษฐกิจ อันส่งผลให้มีการใช้พลังงานลดลง จากนั้นการปล่อยก๊าซ CO₂ เริ่มมีแนวโน้มเพิ่มขึ้น ก่อนจะลดลงอีกครั้งในปี 2551 จากภาวะวิกฤตเศรษฐกิจของประเทศสหรัฐอเมริกาซึ่งส่งผลกระทบต่อประเทศไทย อย่างไรก็ตาม ปัจจุบัน การปล่อยก๊าซ CO₂ เริ่มกลับมามีแนวโน้มเพิ่มขึ้น โดยในปี 2555 มีการปล่อยที่ระดับ 57.2 ล้านตัน ในส่วนของ ก๊าซธรรมชาติเริ่มมีการใช้เป็นเชื้อเพลิงภาคขนส่งในปี 2544 โดยมีแนวโน้มการปล่อยก๊าซ CO₂ เพิ่มขึ้นอย่างต่อเนื่อง จาก 0.01 ล้านตันในปี 2544 เป็น 5.9 ล้านตันในปี 2555



ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
น้ำมันสำเร็จรูป	25.20	28.35	28.98	30.91	36.53	40.94	48.21	52.71	55.24	46.74	46.89	45.56
ก๊าซธรรมชาติ	-	-	-	-	-	-	-	-	-	-	-	-

ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
น้ำมันสำเร็จรูป	46.53	49.24	53.00	56.48	57.38	54.60	55.07	50.89	53.35	53.74	54.31	57.23
ก๊าซธรรมชาติ	0.01	0.01	0.01	0.06	0.14	0.23	0.50	1.65	3.03	3.85	4.90	5.92

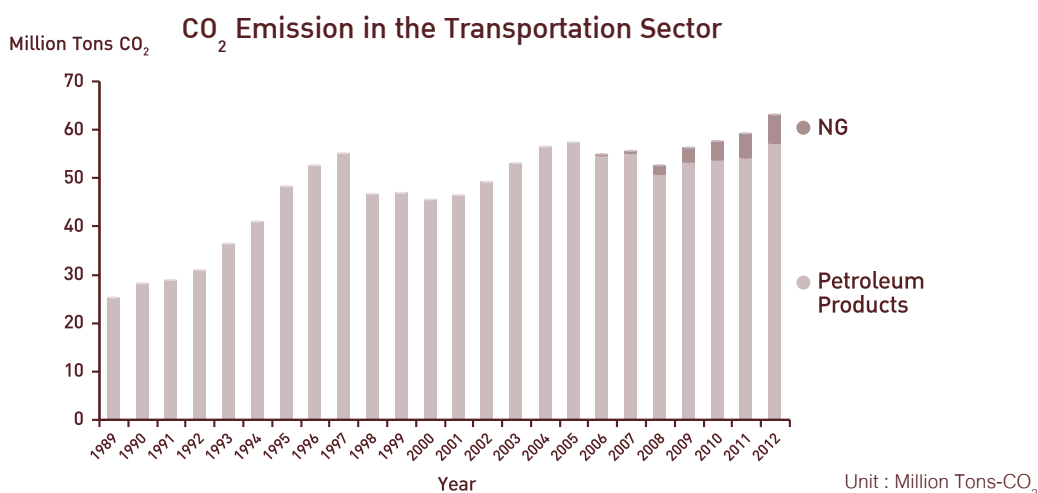
• **ภาคเศรษฐกิจอื่น ๆ** ยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ จากการใช้ น้ำมันสำเร็จรูปเพิ่มสูงขึ้น จาก 7.4 ล้านตันในปี 2531 เป็น 21.9 ล้านตันในปี 2555



ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
น้ำมันสำเร็จรูป	8.14	8.84	8.97	9.48	8.79	9.45	9.44	10.74	10.86	12.88	13.77	13.49
ก๊าซธรรมชาติ	-	-	-	-	-	-	-	-	-	-	-	-

ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
น้ำมันสำเร็จรูป	13.84	14.61	15.59	16.37	15.47	16.22	17.02	17.44	17.91	18.66	19.87	21.93
ก๊าซธรรมชาติ	-	-	-	-	-	-	-	-	-	-	-	-

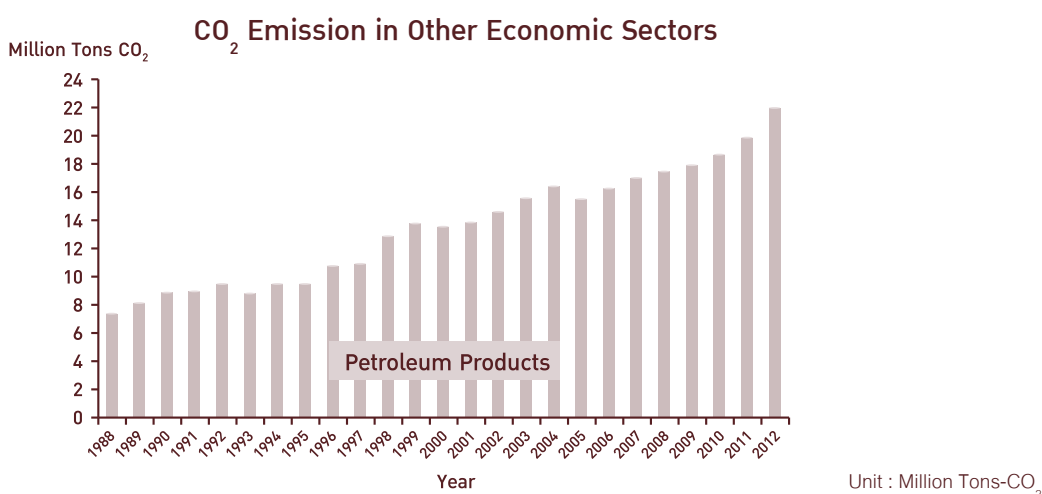
• **Transportation Sector.** The major fuel that constituted the largest CO₂ emission source in this economic sector was petroleum products (gasoline, diesel, fuel oil, jet petroleum and LPG). CO₂ emission increased from 21.1 million tons in 1988 to 55.2 million tons in 1997 before declining in 1998 when the economic crisis hit the country. After that the trend of CO₂ emission was continuously on the rise again. In 2008, CO₂ emission dropped at a coincident time of the US economic crisis. In 2012, CO₂ emission was at 57.2 million tons. For CO₂ emission from natural gas in transport, natural gas was used as a fuel in transport for the first time in 2001 in case of Thailand. Since then, CO₂ from natural gas in transport had a rising trend the same as CO₂ trend of oil in transport. In 2012 CO₂ emission was 5.9 million tons, compared to only 0.01 million ton in 2001.



Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Petroleum Products	25.20	28.35	28.98	30.91	36.53	40.94	48.21	52.71	55.24	46.74	46.89	45.56
NG	-	-	-	-	-	-	-	-	-	-	-	-

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Petroleum Products	46.53	49.24	53.00	56.48	57.38	54.60	55.07	50.89	53.35	53.74	54.31	57.23
NG	0.01	0.01	0.01	0.06	0.14	0.23	0.50	1.65	3.03	3.85	4.90	5.92

• **Other Economic Sectors.** The trend still showed increasing CO₂ emissions stemming from petroleum product consumption, rising from 7.4 million tons in 1988 to 21.9 million tons in 2012.

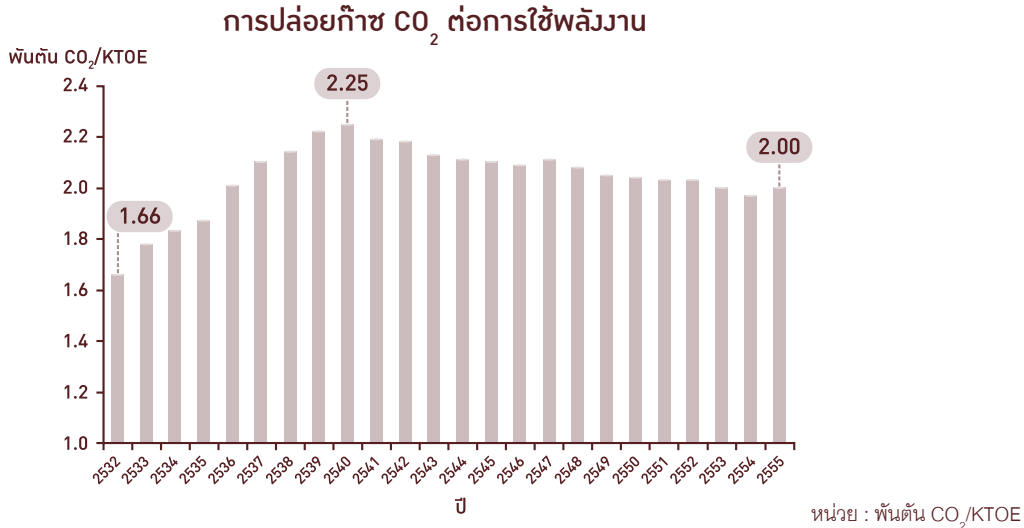


Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Petroleum Products	8.14	8.84	8.97	9.48	8.79	9.45	9.44	10.74	10.86	12.88	13.77	13.49

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Petroleum Products	13.84	14.61	15.59	16.37	15.47	16.22	17.02	17.44	17.91	18.66	19.87	21.93

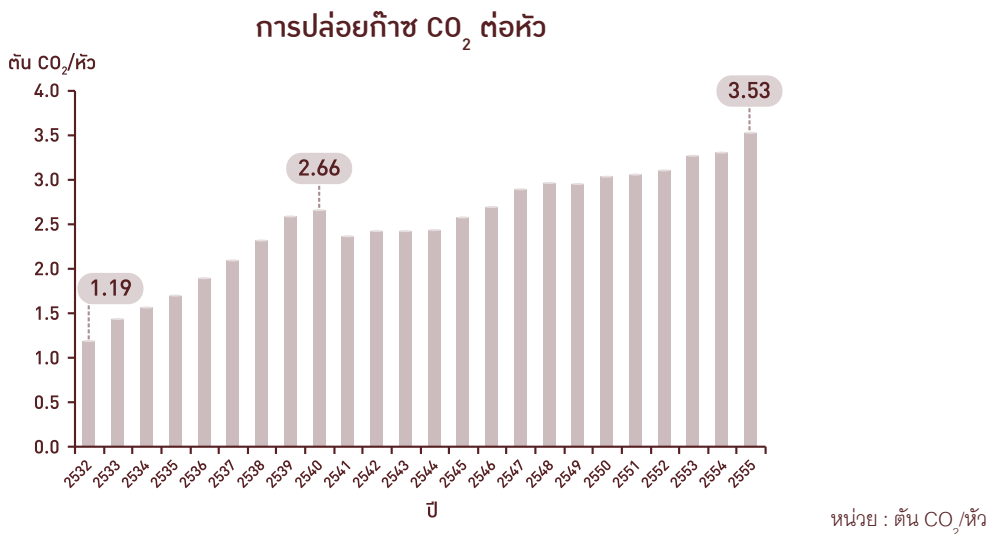
ดัชนีชี้วัดการปล่อยก๊าซ CO₂

• การปล่อยก๊าซ CO₂ ต่อการใช้พลังงานขั้นต้น แนวโน้มเพิ่มสูงขึ้นในช่วงปี 2532-2540 จาก 1.66 พันตัน เป็น 2.25 พันตัน ต่อการใช้พลังงานขั้นต้น 1 KTOE หรือเพิ่มขึ้นเฉลี่ยร้อยละ 3.9 ต่อปี จากนั้นจึงลดลงอย่างชัดเจนตั้งแตปี 2541 ต่อเนื่องจนถึงปี 2555 ซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 2.00 พันตันต่อการใช้พลังงานขั้นต้น 1 KTOE เฉลี่ยลดลงร้อยละ 0.6 ต่อปี



ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
CO ₂	1.66	1.78	1.83	1.87	2.01	2.10	2.14	2.22	2.25	2.19	2.18	2.13
ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
CO ₂	2.11	2.10	2.09	2.11	2.08	2.05	2.04	2.03	2.03	2.00	1.97	2.00

• การปล่อยก๊าซ CO₂ ต่อหัว (CO₂ Emission per Capita) มีอัตราการเติบโตค่อนข้างสูงในช่วงปี 2532-2540 โดยเฉลี่ยเพิ่มขึ้นร้อยละ 10.6 ต่อปี ก่อนจะลดต่ำลงเล็กน้อยในปี 2541 ตามการใช้พลังงานที่ลดลงจากภาวะเศรษฐกิจ และมีแนวโน้มเพิ่มขึ้นในปีต่อมาต่อเนื่องจนถึงปี 2555 ซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 3.53 ตันต่อหัว เฉลี่ยเพิ่มขึ้นร้อยละ 2.9 ต่อปี

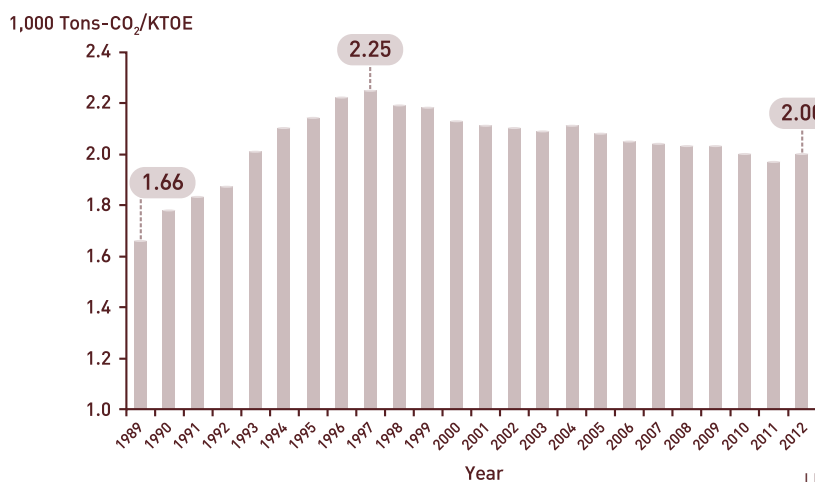


ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
CO ₂	1.19	1.43	1.57	1.69	1.89	2.09	2.32	2.59	2.66	2.37	2.42	2.42
ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
CO ₂	2.44	2.58	2.69	2.90	2.96	2.95	3.04	3.06	3.11	3.27	3.31	3.53

CO₂ Emission Indicators

- **CO₂ Emission per Primary Energy Consumption.** This indicator reflects an increasing trend of emission during the period 1989-1997, i.e. from 1.66 thousand tons to 2.25 thousand tons per 1 KTOE of primary energy consumption, or at an average annual growth rate of 3.9%. Since 1998, the emission had continuously and distinctly declined. In 2012 the level of CO₂ emission was at 2.00 thousand tons per 1 KTOE of primary energy consumption, or a decrease at an average annual rate of 0.6%.

CO₂ Emission per Primary Energy Consumption



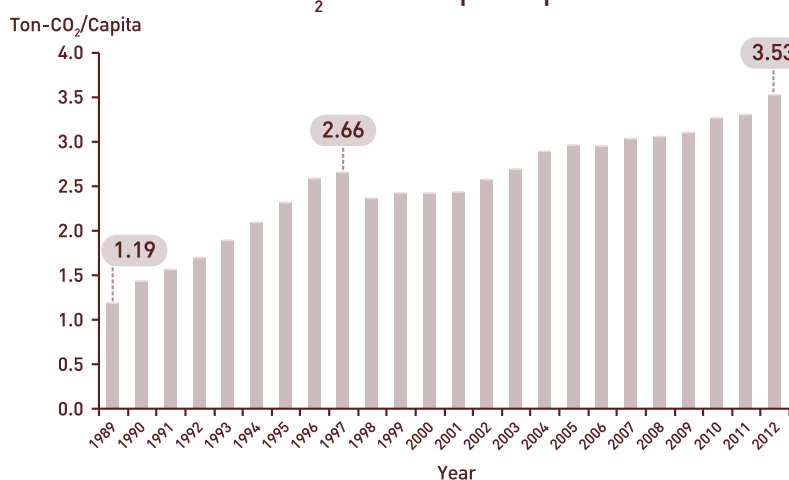
Unit : 1,000 Tons-CO₂/KTOE

Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
CO ₂	1.66	1.78	1.83	1.87	2.01	2.10	2.14	2.22	2.25	2.19	2.18	2.13

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
CO ₂	2.11	2.10	2.09	2.11	2.08	2.05	2.04	2.03	2.03	2.00	1.97	2.00

- **CO₂ Emission per Capita.** This indicator illustrates a rather high growth rate during 1989-1997, with an average annual growth rate of 10.6%, before decreasing slightly in 1998 due to the shrinkage in energy consumption caused by the economic crisis. In 1999, the rising trend resumed and continued in following years. In 2012, the CO₂ emission per capita stood at 3.53 tons, accounting for an average annual growth rate of 2.9%.

CO₂ Emission per Capita



Unit : Ton-CO₂/Capita

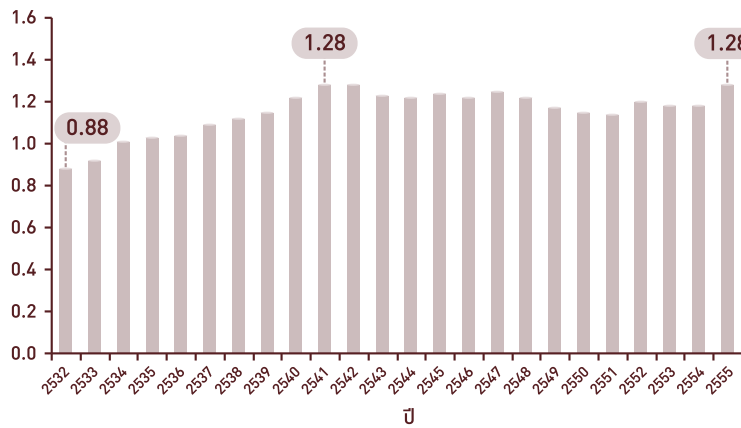
Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
CO ₂	1.19	1.43	1.57	1.69	1.89	2.09	2.32	2.59	2.66	2.37	2.42	2.42

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
CO ₂	2.44	2.58	2.69	2.90	2.96	2.95	3.04	3.06	3.11	3.27	3.31	3.53

• การปล่อยก๊าซ CO₂ ต่อ GDP มีแนวโน้มเพิ่มขึ้นจาก 0.88 กิโลกรัม ต่อ GDP 1 ดอลลาร์สหรัฐ ในปี 2532 มาอยู่ที่ 1.22 กิโลกรัม ต่อ 1 ดอลลาร์สหรัฐ ในปี 2540 เฉลี่ยเพิ่มขึ้นร้อยละ 4.2 ต่อปี โดยในปี 2541 มีการปล่อยก๊าซ CO₂ เพิ่มขึ้นเป็น 1.28 กิโลกรัม ต่อ 1 ดอลลาร์สหรัฐ ซึ่งเป็นอัตราสูงสุดของประเทศในรอบกว่า 25 ปีที่ผ่านมา จากนั้นจึงมีแนวโน้มลดลงจนถึงปี 2554 มีการปล่อยก๊าซ CO₂ ที่ระดับ 1.18 กิโลกรัม ต่อ 1 ดอลลาร์สหรัฐ เฉลี่ยลดลงร้อยละ 0.6 ต่อปี ก่อนที่ปี 2555 จะมีอัตราการปล่อยก๊าซ CO₂ เพิ่มขึ้นมาอยู่ที่ระดับ 1.28 กิโลกรัม ต่อ 1 ดอลลาร์สหรัฐ ซึ่งเป็นระดับสูงสุดของประเทศเช่นเดียวกับในปี 2541

การปล่อยก๊าซ CO₂ ต่อ GDP

กิโลกรัม CO₂/ดอลลาร์สหรัฐ ณ ปีฐาน 2000



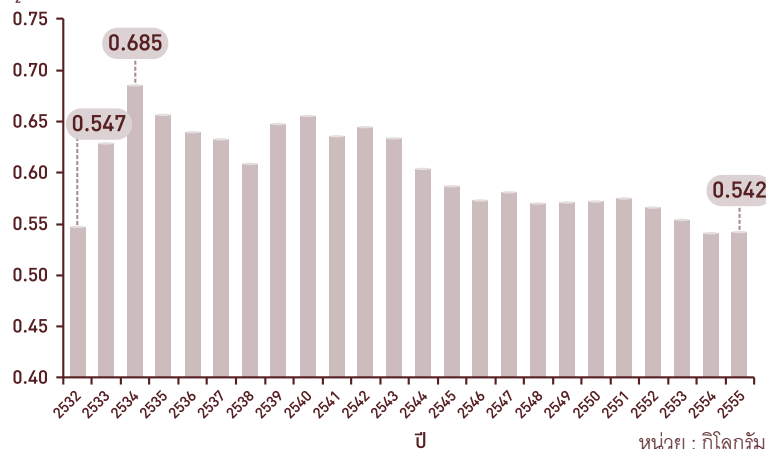
หน่วย : ตัน CO₂/ล้านบาท

ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
CO ₂	0.88	0.92	1.01	1.03	1.04	1.09	1.12	1.15	1.22	1.28	1.28	1.23
ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
CO ₂	1.22	1.24	1.22	1.25	1.22	1.17	1.15	1.14	1.20	1.18	1.18	1.28

• การปล่อยก๊าซ CO₂ ต่อหน่วยการผลิตไฟฟ้า (kWh) มีการเปลี่ยนแปลงเป็นช่วงตามสัดส่วนเชื้อเพลิงที่ใช้ในการผลิตไฟฟ้า จาก 0.547 กิโลกรัม ต่อ 1 kWh ในปี 2532 เพิ่มขึ้นเป็น 0.685 กิโลกรัม ต่อ 1 kWh ในปี 2534 จากนั้นจึงเริ่มมีแนวโน้มลดลงตามสัดส่วนของก๊าซธรรมชาติที่นำมาใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าที่เพิ่มขึ้น โดยปี 2555 มีการปล่อยก๊าซ CO₂ ที่ระดับ 0.542 กิโลกรัม ต่อ 1 kWh

การปล่อยก๊าซ CO₂ ต่อหน่วยการผลิตไฟฟ้า (kWh)

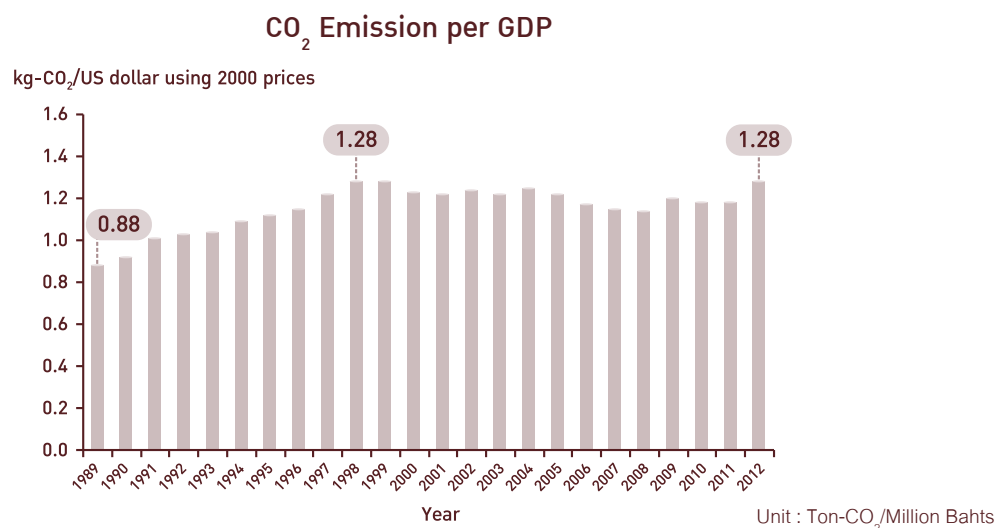
กิโลกรัม CO₂/กิโลวัตต์-ชั่วโมง



หน่วย : กิโลกรัม CO₂/กิโลวัตต์-ชั่วโมง

ปี	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543
CO ₂	0.547	0.629	0.685	0.657	0.640	0.633	0.609	0.648	0.656	0.636	0.645	0.634
ปี	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555
CO ₂	0.604	0.587	0.573	0.581	0.57	0.571	0.572	0.575	0.566	0.554	0.541	0.542

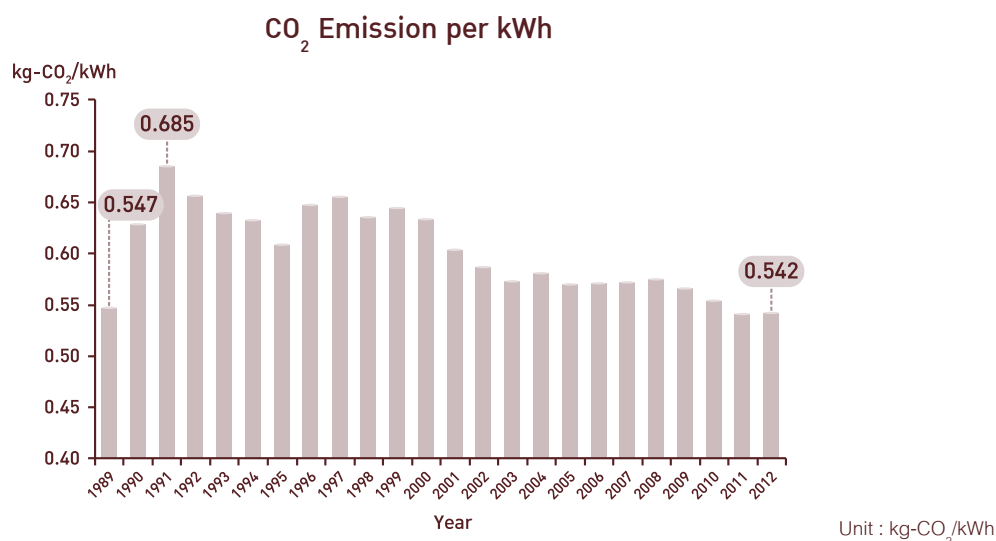
• **CO₂ Emission per GDP.** Between 1989 and 1999, CO₂ emission per GDP used to have a rising trend, from 0.88 kilogram to 1.22 kilograms per a US Dollar with an average growth rate of 4.2% per annum. In 1998, it reached the highest rate ever in the past 25 years at 1.28 kilograms per a US Dollar. After then, the rate slightly declined around 0.6% per annum until 2011. However, in 2012, it hit back the highest rate once again for second time at 1.28 per kilograms per a US Dollar.



Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
CO ₂	0.88	0.92	1.01	1.03	1.04	1.09	1.12	1.15	1.22	1.28	1.28	1.23

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
CO ₂	1.22	1.24	1.22	1.25	1.22	1.17	1.15	1.14	1.20	1.18	1.18	1.28

• **CO₂ Emission per Unit of Power Generation (kWh).** The emission varied periodically in accordance with the shares of fuel used in power generation, i.e. the emission increased from 0.547 kg/kWh in 1989 to 0.685 kg/kWh in 1991. After that the emission decreased due to greater use of natural gas as fuel in power generation. In 2012, CO₂ emission stood at 0.542 kg/kWh.



Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
CO ₂	0.547	0.629	0.685	0.657	0.640	0.633	0.609	0.648	0.656	0.636	0.645	0.634

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
CO ₂	0.604	0.587	0.573	0.581	0.57	0.571	0.572	0.575	0.566	0.554	0.541	0.542

Table 9.1-1Y
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1988	36,609	9,824	9,777	56,210
1989	43,910	11,964	10,047	65,921
1990	53,221	16,594	9,987	79,802
1991	56,495	19,425	12,835	88,756
1992	62,417	20,790	13,754	96,962
1993	70,672	23,109	15,601	109,382
1994	78,419	26,664	17,793	122,876
1995	88,777	30,339	18,576	137,692
1996	96,916	36,777	21,860	155,553
1997	95,440	38,024	27,593	161,058
1998	85,309	30,637	29,400	145,345
1999	84,552	32,373	32,855	149,780
2000	79,242	33,100	38,385	150,727
2001	75,082	36,810	41,570	153,462
2002	78,851	39,244	45,377	163,472
2003	83,762	39,903	48,291	171,956
2004	91,671	44,763	50,902	187,336
2005	90,750	48,333	53,404	192,486
2006	87,210	51,313	54,613	193,136
2007	84,577	57,629	58,232	200,439
2008	78,416	62,154	62,624	203,195
2009	79,756	62,401	66,045	208,202
2010	80,694	63,856	75,833	220,383
2011	84,528	65,334	74,520	224,382
2012	90,013	67,623	82,132	239,769
Growth Rate (%)				
1988	13.9	3.0	20.0	12.8
1989	19.9	21.8	2.8	17.3
1990	21.2	38.7	-0.6	21.1
1991	6.2	17.1	28.5	11.2
1992	10.5	7.0	7.2	9.3
1993	13.2	11.2	13.4	12.8
1994	11.0	15.4	14.1	12.3
1995	13.2	13.8	4.4	12.1
1996	9.2	21.2	17.7	13.0
1997	-1.5	3.4	26.2	3.5
1998	-10.6	-19.4	6.6	-9.8
1999	-0.9	5.7	11.8	3.1
2000	-6.3	2.2	16.8	0.6
2001	-5.3	11.2	8.3	1.8
2002	5.0	6.6	9.2	6.5
2003	6.2	1.7	6.4	5.2
2004	9.4	12.2	5.4	8.9
2005	-1.0	8.0	4.9	2.8
2006	-3.9	6.2	2.3	0.3
2007	-3.0	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	1.7	0.4	5.5	2.5
2010	1.2	2.3	14.8	5.9
2011	4.8	2.3	-1.7	1.8
2012	6.5	3.5	10.2	6.9

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-2Y
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
1988	18,380	21,047	9,419	7,364	56,210
1989	20,771	25,202	11,803	8,145	65,921
1990	28,149	28,354	14,460	8,838	79,802
1991	34,750	28,978	16,062	8,966	88,756
1992	37,799	30,912	18,775	9,476	96,962
1993	40,967	36,534	23,092	8,789	109,382
1994	45,559	40,939	26,929	9,450	122,876
1995	49,014	48,211	31,031	9,436	137,692
1996	56,887	52,711	35,211	10,744	155,553
1997	61,242	55,235	33,718	10,863	161,058
1998	57,974	46,741	27,746	12,884	145,345
1999	59,659	46,893	29,455	13,774	149,780
2000	62,405	45,560	29,267	13,495	150,727
2001	62,749	46,537	30,338	13,839	153,462
2002	65,265	49,245	34,352	14,609	163,472
2003	67,884	53,003	35,478	15,591	171,956
2004	74,099	56,546	40,321	16,371	187,336
2005	76,893	57,520	42,599	15,474	192,486
2006	81,028	54,831	41,057	16,220	193,136
2007	84,080	55,571	43,770	17,017	200,439
2008	85,160	52,538	48,060	17,438	203,195
2009	83,231	56,380	50,685	17,906	208,202
2010	89,965	57,587	54,173	18,658	220,383
2011	87,816	59,215	57,477	19,873	224,382
2012	95,734	63,145	58,963	21,927	239,769
Growth Rate (%)					
1988	11.5	16.3	10.9	8.8	12.8
1989	13.0	19.7	25.3	10.6	17.3
1990	35.5	12.5	22.5	8.5	21.1
1991	23.5	2.2	11.1	1.4	11.2
1992	8.8	6.7	16.9	5.7	9.3
1993	8.4	18.2	23.0	-7.2	12.8
1994	11.2	12.1	16.6	7.5	12.3
1995	7.6	17.8	15.2	-0.1	12.1
1996	16.1	9.3	13.5	13.9	13.0
1997	7.7	4.8	-4.2	1.1	3.5
1998	-5.3	-15.4	-17.7	18.6	-9.8
1999	2.9	0.3	6.2	6.9	3.1
2000	4.6	-2.8	-0.6	-2.0	0.6
2001	0.6	2.1	3.7	2.6	1.8
2002	4.0	5.8	13.2	5.6	6.5
2003	4.0	7.6	3.3	6.7	5.2
2004	9.2	6.7	13.7	5.0	8.9
2005	3.8	1.7	5.7	-5.5	2.8
2006	5.4	-4.7	-3.6	4.8	0.3
2007	3.8	1.4	6.6	4.9	3.8
2008	1.3	-5.5	9.8	2.5	1.4
2009	-2.3	7.3	5.5	2.7	2.5
2010	8.1	2.1	6.9	4.2	5.9
2011	-2.4	2.8	6.1	6.5	1.8
2012	9.0	6.6	2.6	10.3	6.9

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-3Y
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1988	2,520	6,231	9,629	18,380
1989	3,779	7,149	9,843	20,771
1990	8,097	10,437	9,615	28,149
1991	9,901	12,529	12,320	34,750
1992	11,630	13,129	13,039	37,799
1993	14,092	12,143	14,731	40,967
1994	16,061	12,847	16,651	45,559
1995	17,619	14,368	17,027	49,014
1996	19,185	17,506	20,196	56,887
1997	16,429	19,268	25,544	61,242
1998	13,997	16,529	27,448	57,974
1999	12,016	17,402	30,240	59,659
2000	7,559	20,321	34,526	62,405
2001	2,373	22,574	37,801	62,749
2002	2,141	21,977	41,147	65,265
2003	2,302	21,921	43,661	67,884
2004	5,576	23,037	45,486	74,099
2005	6,485	22,766	47,642	76,893
2006	6,331	26,723	47,975	81,028
2007	2,952	31,276	49,852	84,080
2008	1,211	32,310	51,639	85,160
2009	543	30,932	51,757	83,231
2010	833	31,143	57,989	89,965
2011	1,447	33,753	52,616	87,816
2012	1,402	37,419	56,912	95,734
Growth Rate (%)				
1988	37.2	-5.6	19.6	11.5
1989	50.0	14.7	2.2	13.0
1990	114.3	46.0	-2.3	35.5
1991	22.3	20.1	28.1	23.5
1992	17.5	4.8	5.8	8.8
1993	21.2	-7.5	13.0	8.4
1994	14.0	5.8	13.0	11.2
1995	9.7	11.8	2.3	7.6
1996	8.9	21.8	18.6	16.1
1997	-14.4	10.1	26.5	7.7
1998	-14.8	-14.2	7.5	-5.3
1999	-14.2	5.3	10.2	2.9
2000	-37.1	16.8	14.2	4.6
2001	-68.6	11.1	9.5	0.6
2002	-9.8	-2.6	8.9	4.0
2003	7.5	-0.3	6.1	4.0
2004	142.3	5.1	4.2	9.2
2005	16.3	-1.2	4.7	3.8
2006	-2.4	17.4	0.7	5.4
2007	-53.4	17.0	3.9	3.8
2008	-59.0	3.3	3.6	1.3
2009	-55.1	-4.3	0.2	-2.3
2010	53.3	0.7	12.0	8.1
2011	73.8	8.4	-9.3	-2.4
2012	-3.1	10.9	8.2	9.0

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-4Y
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1988	21,047			21,047
1989	25,202			25,202
1990	28,354			28,354
1991	28,978			28,978
1992	30,912			30,912
1993	36,534			36,534
1994	40,939			40,939
1995	48,211			48,211
1996	52,711			52,711
1997	55,235			55,235
1998	46,741			46,741
1999	46,893			46,893
2000	45,560			45,560
2001	46,531		6	46,537
2002	49,240		6	49,245
2003	52,996		7	53,003
2004	56,483		63	56,546
2005	57,383		137	57,520
2006	54,601		230	54,831
2007	55,071		500	55,571
2008	50,891		1,647	52,538
2009	53,347		3,033	56,380
2010	53,742		3,845	57,587
2011	54,314		4,901	59,215
2012	57,226		5,919	63,145
Growth Rate (%)				
1988	16.3			16.3
1989	19.7			19.7
1990	12.5			12.5
1991	2.2			2.2
1992	6.7			6.7
1993	18.2			18.2
1994	12.1			12.1
1995	17.8			17.8
1996	9.3			9.3
1997	4.8			4.8
1998	-15.4			-15.4
1999	0.3			0.3
2000	-2.8			-2.8
2001	2.1			2.1
2002	5.8		-0.6	5.8
2003	7.6		19.6	7.6
2004	6.6		849.3	6.7
2005	1.6		118.1	1.7
2006	-4.9		67.8	-4.7
2007	0.9		117.6	1.4
2008	-7.6		229.4	-5.5
2009	4.8		84.2	7.3
2010	0.7		26.8	2.1
2011	1.1		27.5	2.8
2012	5.4		20.8	6.6

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-5Y
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1988	5,679	3,593	147	9,419
1989	6,783	4,815	204	11,803
1990	7,932	6,157	371	14,460
1991	8,651	6,896	516	16,062
1992	10,399	7,661	715	18,775
1993	11,256	10,966	870	23,092
1994	11,970	13,817	1,142	26,929
1995	13,512	15,970	1,549	31,031
1996	14,276	19,271	1,664	35,211
1997	12,913	18,756	2,049	33,718
1998	11,686	14,108	1,951	27,746
1999	11,870	14,971	2,614	29,455
2000	12,629	12,779	3,859	29,267
2001	12,339	14,236	3,763	30,338
2002	12,862	17,266	4,224	34,352
2003	12,873	17,982	4,623	35,478
2004	13,240	21,726	5,354	40,321
2005	11,408	25,567	5,624	42,599
2006	10,058	24,590	6,408	41,057
2007	9,536	26,353	7,881	43,770
2008	8,877	29,844	9,338	48,060
2009	7,960	31,469	11,256	50,685
2010	7,462	32,713	13,998	54,173
2011	8,893	31,582	17,003	57,477
2012	9,458	30,204	19,301	58,963
Growth Rate (%)				
1988	4.1	22.2	54.8	10.9
1989	19.5	34.0	38.8	25.3
1990	16.9	27.9	81.6	22.5
1991	9.1	12.0	38.9	11.1
1992	20.2	11.1	38.7	16.9
1993	8.2	43.1	21.7	23.0
1994	6.3	26.0	31.3	16.6
1995	12.9	15.6	35.6	15.2
1996	5.7	20.7	7.5	13.5
1997	-9.6	-2.7	23.1	-4.2
1998	-9.5	-24.8	-4.8	-17.7
1999	1.6	6.1	34.0	6.2
2000	6.4	-14.6	47.6	-0.6
2001	-2.3	11.4	-2.5	3.7
2002	4.2	21.3	12.2	13.2
2003	0.1	4.1	9.5	3.3
2004	2.9	20.8	15.8	13.7
2005	-13.8	17.7	5.1	5.7
2006	-11.8	-3.8	13.9	-3.6
2007	-5.2	7.2	23.0	6.6
2008	-6.9	13.3	18.5	9.8
2009	-10.3	5.4	20.5	5.5
2010	-6.3	4.0	24.4	6.9
2011	19.2	-3.5	21.5	6.1
2012	6.4	-4.4	13.5	2.6

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-6Y
CO₂ Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1988	7,364			7,364
1989	8,145			8,145
1990	8,838			8,838
1991	8,966			8,966
1992	9,476			9,476
1993	8,789			8,789
1994	9,450			9,450
1995	9,436			9,436
1996	10,744			10,744
1997	10,863			10,863
1998	12,884			12,884
1999	13,774			13,774
2000	13,495			13,495
2001	13,839			13,839
2002	14,609			14,609
2003	15,591			15,591
2004	16,371			16,371
2005	15,474			15,474
2006	16,220			16,220
2007	17,017			17,017
2008	17,438			17,438
2009	17,906			17,906
2010	18,658			18,658
2011	19,873			19,873
2012	21,927			21,927
Growth Rate (%)				
1988	8.8			8.8
1989	10.6			10.6
1990	8.5			8.5
1991	1.4			1.4
1992	5.7			5.7
1993	-7.2			-7.2
1994	7.5			7.5
1995	-0.1			-0.1
1996	13.9			13.9
1997	1.1			1.1
1998	18.6			18.6
1999	6.9			6.9
2000	-2.0			-2.0
2001	2.6			2.6
2002	5.6			5.6
2003	6.7			6.7
2004	5.0			5.0
2005	-5.5			-5.5
2006	4.8			4.8
2007	4.9			4.9
2008	2.5			2.5
2009	2.7			2.7
2010	4.2			4.2
2011	6.5			6.5
2012	10.3			10.3

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-7Y
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

	1988			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,520	6,231	9,629	18,380
Transport	21,047		1,647	21,047
Industry	5,679	3,593	147	9,419
Other	7,364			7,364
Total	36,609	9,824	9,777	56,210

	1989			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	3,779	7,149	9,843	20,771
Transport	25,202		3,033	25,202
Industry	6,783	4,815	204	11,803
Other	8,145			8,145
Total	43,910	11,964	10,047	65,921

	1990			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	8,097	10,437	9,615	28,149
Transport	28,354		3,845	28,354
Industry	7,932	6,157	371	14,460
Other	8,838			8,838
Total	53,221	16,594	9,987	79,802

	1991			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	9,901	12,529	12,320	34,750
Transport	28,978		3,284	28,978
Industry	8,651	6,896	516	16,062
Other	8,966			8,966
Total	56,495	19,425	12,835	88,756

	1992			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	11,630	13,129	13,039	37,799
Transport	30,912			30,912
Industry	10,399	7,661	715	18,775
Other	9,476			9,476
Total	62,417	20,790	13,754	96,962

	1993			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	14,092	12,143	14,731	40,967
Transport	36,534			36,534
Industry	11,256	10,966	870	23,092
Other	8,789			8,789
Total	70,672	23,109	15,601	109,382

	1994			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,061	12,847	16,651	45,559
Transport	40,939			40,939
Industry	11,970	13,817	1,142	26,929
Other	9,450			9,450
Total	78,419	26,664	17,793	122,876

	1995			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	17,619	14,368	17,027	49,014
Transport	48,211			48,211
Industry	13,512	15,970	1,549	31,031
Other	9,436			9,436
Total	88,777	30,339	18,576	137,692

Table 9.1-7Y (Cont.)
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

	1996			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	19,185	17,506	20,196	56,887
Transport	52,711			52,711
Industry	14,276	19,271	1,664	35,211
Other	10,744			10,744
Total	96,916	36,777	21,860	155,553

	1997			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,429	19,268	25,544	61,242
Transport	55,235			55,235
Industry	12,913	18,756	2,049	33,718
Other	10,863			10,863
Total	95,440	38,024	27,593	161,058

	1998			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	13,997	16,529	27,448	57,974
Transport	46,741			46,741
Industry	11,686	14,108	1,951	27,746
Other	12,884			12,884
Total	85,309	30,637	29,400	145,345

	1999			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	12,016	17,402	30,240	59,659
Transport	46,893			46,893
Industry	11,870	14,971	2,614	29,455
Other	13,774			13,774
Total	84,552	32,373	32,855	149,780

	2000			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	7,559	20,321	34,526	62,405
Transport	45,560			45,560
Industry	12,629	12,779	3,859	29,267
Other	13,495			13,495
Total	79,242	33,100	38,385	150,727

	2001			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,373	22,574	37,801	62,749
Transport	46,531		6	46,537
Industry	12,339	14,236	3,763	30,338
Other	13,839			13,839
Total	75,082	36,810	41,570	153,462

	2002			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,141	21,977	41,147	65,265
Transport	49,240		6	49,245
Industry	12,862	17,266	4,224	34,352
Other	14,609			14,609
Total	78,851	39,244	45,377	163,472

	2003			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,302	21,921	43,661	67,884
Transport	52,996		7	53,003
Industry	12,873	17,982	4,623	35,478
Other	15,591			15,591
Total	83,762	39,903	48,291	171,956

Table 9.1-7Y (Cont.)
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

	2004			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	5,576	23,037	45,486	74,099
Transport	56,483		63	56,546
Industry	13,240	21,726	5,354	40,321
Other	16,371			16,371
Total	91,671	44,763	50,902	187,336
	2005			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,485	22,766	47,642	76,893
Transport	57,383		137	57,520
Industry	11,408	25,567	5,624	42,599
Other	15,474			15,474
Total	90,750	48,333	53,404	192,486
	2006			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,331	26,723	47,975	81,028
Transport	54,601		230	54,831
Industry	10,058	24,590	6,408	41,057
Other	16,220			16,220
Total	87,210	51,313	54,613	193,136
	2007			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,952	31,276	49,852	84,080
Transport	55,071		500	55,571
Industry	9,536	26,353	7,881	43,770
Other	17,017			17,017
Total	84,577	57,629	58,232	200,439
	2008			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,211	32,310	51,639	85,160
Transport	50,891		1,647	52,538
Industry	8,877	29,844	9,338	48,060
Other	17,438			17,438
Total	78,416	62,154	62,624	203,195
	2009			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	543	30,932	51,757	83,231
Transport	53,347		3,033	56,380
Industry	7,960	31,469	11,256	50,685
Other	17,906			17,906
Total	79,756	62,401	66,045	208,202
	2010			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	833	31,143	57,989	89,965
Transport	53,742		3,845	57,587
Industry	7,462	32,713	13,998	54,173
Other	18,658			18,658
Total	80,694	63,856	75,833	220,383
	2011			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,447	33,753	52,616	87,816
Transport	54,314		4,901	59,215
Industry	8,893	31,582	17,003	57,477
Other	19,873			19,873
Total	84,528	65,334	74,520	224,382
	2012			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,402	37,419	56,912	95,734
Transport	57,226		5,919	63,145
Industry	9,458	30,204	19,301	58,963
Other	21,927			21,927
Total	90,013	67,623	82,132	239,769

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy



APPENDIX I



APPENDIX I

1

CHAPTER
บทที่

Energy Situation in 2012
สถานการณ์พลังงานปี 2555

Table 1.1-1M
Primary Commercial Energy Production (Physical Unit)

2008													
Month	Hydro (GWh)	Lignite (Tons)				Total	NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)				
		EGAT		Others	Benjamas				Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi										
Jan	739	1,261,965	1,261,965	154,955	1,416,920	78,937	2,444	1,311	575	203	34	2,158	4,280
Feb	714	1,322,581	1,322,581	89,760	1,412,341	73,779	2,297	1,229	557	186	32	1,900	3,903
Mar	824	1,301,825	1,306,825	145,186	1,452,011	80,927	2,437	1,307	695	211	34	1,963	4,210
Apr	824	1,454,233	1,454,233	188,095	1,642,328	84,676	2,627	1,413	639	185	32	1,901	4,169
May	542	1,489,003	1,494,003	163,792	1,657,795	93,032	2,913	1,367	656	179	34	2,075	4,310
Jun	530	1,453,387	1,461,387	251,406	1,712,793	89,748	2,835	1,413	673	175	33	2,023	4,317
Jul	521	1,227,168	1,229,168	116,533	1,345,701	91,252	2,586	1,409	685	188	37	1,964	4,282
Aug	437	1,325,345	1,328,593	183,916	1,512,510	92,033	2,945	1,456	675	194	38	2,144	4,506
Sep	388	1,382,595	1,382,595	127,742	1,510,337	85,680	2,727	1,413	547	101	37	2,453	4,552
Oct	376	1,328,904	1,328,904	106,675	1,435,579	87,900	2,906	1,452	660	259	38	2,255	4,664
Nov	428	1,344,442	1,344,442	83,357	1,427,799	76,497	2,072	1,413	644	250	41	2,406	4,753
Dec	626	1,529,399	1,529,399	39,872	1,569,271	82,395	2,281	1,273	660	251	43	2,505	4,732
YTD	6,951	16,420,847	23,248	16,444,095	18,095,385	1,016,856	31,071	16,455	7,665	2,381	431	25,748	52,680

2009													
Month	Hydro (GWh)	Lignite (Tons)				Total	NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)				
		EGAT		Others	Benjamas				Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi										
Jan	743	1,468,620	1,468,620	93,065	1,561,685	89,297	2,513	1,331	667	280	39	2,443	4,762
Feb	715	1,174,194	1,174,194	138,458	1,312,652	77,109	2,328	1,119	601	248	35	2,181	4,183
Mar	810	1,254,630	1,254,630	211,163	1,465,793	94,185	2,793	1,450	646	268	35	2,666	5,065
Apr	719	1,227,083	1,227,083	217,794	1,444,877	84,015	2,351	815	668	99	38	3,160	4,780
May	540	1,413,339	1,413,339	154,931	1,568,270	97,526	2,612	222	687	116	38	3,713	4,777
Jun	368	1,435,227	1,435,227	177,569	1,612,796	90,670	2,624	802	615	167	39	3,004	4,626
Jul	369	1,469,759	1,469,759	178,411	1,648,170	89,842	2,626	812	664	194	37	2,995	4,701
Aug	584	1,279,005	1,279,005	217,282	1,496,287	90,983	2,686	896	648	193	41	2,931	4,709
Sep	392	1,254,357	1,254,357	125,811	1,380,168	91,238	2,484	792	639	183	38	2,479	4,132
Oct	476	1,143,009	1,143,009	109,720	1,252,729	93,542	2,607	645	642	207	40	2,699	4,234
Nov	517	1,237,910	1,237,910	115,830	1,353,740	92,919	2,379	822	630	174	37	3,160	4,823
Dec	733	1,274,633	1,274,633	194,300	1,468,933	100,188	2,620	902	677	132	37	3,686	5,434
YTD	6,966	15,631,766	15,631,766	1,934,334	17,566,100	1,091,516	30,623	10,609	7,783	2,262	454	35,116	56,225

Table 1.1-1M (Cont.)
Primary Commercial Energy Production (Physical Unit)

Month	Hydro (GWh)	Lignite (Tons)				Total	NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)					
		EGAT		Others	Total				Sirikit	Benjamas	Tantawan	Fang	Others	
		Mae-Moh	Krabi											Total
Jan	619	1,358,183	177,050	1,535,233	99,097	2,568	841	733	128	36	2,910	4,648		
Feb	639	1,209,511	252,862	1,462,373	91,510	2,302	748	631	161	34	2,727	4,300		
Mar	769	1,343,448	222,982	1,566,430	112,982	2,903	913	683	169	39	3,056	4,860		
Apr	513	1,412,283	206,286	1,618,569	101,499	2,550	869	677	106	37	2,849	4,539		
May	521	1,537,747	183,169	1,720,916	107,313	2,727	873	677	121	39	3,193	4,903		
Jun	416	1,242,187	218,660	1,460,847	110,437	2,734	876	683	113	37	3,264	4,971		
Jul	335	1,276,520	153,860	1,430,380	106,670	2,846	891	712	88	36	3,329	5,057		
Aug	341	1,291,936	132,330	1,424,266	110,458	2,751	818	696	93	35	3,377	5,019		
Sep	245	1,303,351	123,300	1,426,651	108,301	2,662	746	624	113	32	3,266	4,781		
Oct	171	1,301,037	165,200	1,466,237	114,006	2,852	733	575	98	33	3,009	4,449		
Nov	329	1,370,110	173,200	1,543,310	108,213	2,687	714	648	102	30	2,786	4,281		
Dec	450	1,340,950	261,900	1,602,850	110,923	2,767	709	621	117	33	2,619	4,099		
YTD	5,347	15,987,263	2,270,799	18,258,062	1,281,410	32,349	9,733	7,960	1,409	421	36,386	55,909		

Month	Hydro (GWh)	Lignite (Tons)				Total	NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)					
		EGAT		Others	Total				Sirikit	Benjamas	Tantawan	Fang	Others	
		Mae-Moh	Krabi											Total
Jan	577	1,645,139	191,874	1,837,013	114,514	2,815	890	633	141	33	2,555	4,252		
Feb	652	1,394,702	176,770	1,571,472	106,540	2,656	703	526	144	31	2,357	3,761		
Mar	584	1,529,052	200,700	1,729,752	120,666	3,033	860	702	155	34	2,515	4,266		
Apr	470	1,455,516	172,400	1,627,916	110,347	2,721	898	727	138	30	2,277	4,069		
May	374	1,340,459	171,000	1,511,459	117,604	2,650	878	762	206	31	2,702	4,579		
Jun	394	1,618,168	182,905	1,801,073	106,908	2,372	771	762	188	31	2,633	4,385		
Jul	392	1,456,668	861,525	2,318,193	100,192	2,347	845	755	190	31	2,448	4,270		
Aug	902	1,664,345	310,755	1,975,100	105,572	2,486	814	784	177	33	2,604	4,412		
Sep	999	1,377,383	1,080,640	2,458,023	105,368	2,355	798	724	125	32	2,615	4,293		
Oct	1,137	1,352,220	136,026	1,488,246	101,950	2,416	806	468	151	32	2,623	4,080		
Nov	632	1,141,767	155,800	1,297,567	103,541	2,334	808	765	189	31	2,602	4,395		
Dec	822	1,582,917	128,375	1,711,292	113,914	2,525	810	778	179	31	2,535	4,334		
YTD	7,935	17,558,336	3,768,770	21,327,106	1,307,117	30,710	9,883	8,386	1,981	381	30,466	51,097		

Table 1.1-1M (Cont.)
Primary Commercial Energy Production (Physical Unit)

Month	Hydro (GWh)	Lignite (Tons)				Total	NG (MMSCF)	Crude Oil (1,000 Barrels)					Total
		EGAT		Total	Condensate (1,000 Barrels)			Benjamas	Sirikit	Tantawan	Fang	Others	
		Mae-Moh	Krabi										
Jan	1,138	1,292,151		1,292,151	1,454,030	119,710	2,501	708	777	119	32	2,753	4,390
Feb	1,252	1,480,657		1,480,657	1,603,991	104,420	2,285	827	776	113	29	2,844	4,589
Mar	1,073	1,313,185		1,313,185	1,439,135	119,514	2,634	991	844	113	31	3,112	5,091
Apr	849	1,372,951		1,372,951	1,738,271	115,947	2,617	895	833	106	28	2,789	4,651
May	746	1,529,188		1,529,188	284,522	122,502	2,665	898	876	97	29	2,357	4,257
Jun	481	1,249,878		1,249,878	32,848	117,094	2,603	908	829	107	27	2,517	4,389
Jul	440	1,632,368		1,632,368	45,420	130,941	3,004	711	886	103	30	2,772	4,503
Aug	449	1,247,007		1,247,007	31,740	125,136	2,889	724	888	105	30	2,777	4,524
Sep	401	1,536,691		1,536,691	31,650	122,614	2,836	724	863	119	28	2,660	4,393
Oct	411	1,343,814		1,343,814	112,720	127,860	2,976	548	895	129	28	2,792	4,393
Nov	597	1,271,893		1,271,893	117,135	129,537	2,940	725	898	113	27	2,817	4,579
Dec	593	1,320,678		1,320,678	43,450	126,491	2,856	651	1,038	147	27	2,904	4,767
YTD	8,431	16,590,461		16,590,461	1,475,968	1,461,767	32,808	9,311	10,403	1,372	346	33,094	54,526

Table 1.1-2M
Primary Commercial Energy Production

Unit : KTOE

2008															
Month	Hydro	Lignite			NG	Condensate	Crude Oil					Grand Total			
		Mae-Moh	EGAT				Non EGAT	Total	Benjamas	Sirikit	Tantawan		Fang	Others	Total
			Krabi	Total											
Jan	164	313	313	68	381	1,939	304	179	79	28	5	295	586	3,374	
Feb	158	328	328	39	367	1,813	286	168	76	25	4	260	534	3,158	
Mar	183	322	323	63	386	1,988	303	179	95	29	5	269	576	3,436	
Apr	183	360	360	82	442	2,080	327	193	87	25	4	260	571	3,603	
May	120	369	370	71	441	2,286	363	187	90	24	5	284	590	3,800	
Jun	117	360	362	110	472	2,205	353	193	92	24	5	277	591	3,738	
Jul	115	304	305	51	356	2,242	322	193	94	26	5	269	586	3,621	
Aug	97	328	329	80	409	2,261	367	199	92	27	5	293	617	3,751	
Sep	86	342	342	56	398	2,105	339	193	75	14	5	336	623	3,551	
Oct	83	329	329	47	376	2,160	362	199	90	35	5	309	638	3,619	
Nov	95	333	333	36	369	1,880	258	193	88	34	6	329	650	3,252	
Dec	139	379	379	17	396	2,024	284	174	90	34	6	343	648	3,491	
YTD	1,540	4,067	4,073	720	4,793	24,984	3,867	2,250	1,048	326	59	3,521	7,203	42,387	

2009															
Month	Hydro	Lignite			NG	Condensate	Crude Oil					Grand Total			
		Mae-Moh	EGAT				Non EGAT	Total	Benjamas	Sirikit	Tantawan		Fang	Others	Total
			Krabi	Total											
Jan	165	364	364	41	405	2,194	313	182	91	38	5	334	652	3,729	
Feb	158	291	291	60	351	1,895	290	153	82	34	5	298	572	3,266	
Mar	180	311	311	92	403	2,314	348	198	88	37	5	365	693	3,938	
Apr	159	304	304	95	399	2,064	293	112	91	14	5	432	654	3,569	
May	120	350	350	68	418	2,396	325	30	94	16	5	508	654	3,913	
Jun	82	356	356	77	433	2,228	327	110	84	23	5	411	633	3,703	
Jul	82	364	364	78	442	2,207	327	111	91	26	5	410	643	3,701	
Aug	129	317	317	95	412	2,235	334	123	89	26	6	401	644	3,754	
Sep	87	311	311	55	366	2,242	309	108	87	25	5	339	565	3,569	
Oct	105	283	283	48	331	2,298	324	88	88	28	6	369	579	3,637	
Nov	115	307	307	50	357	2,283	296	113	86	24	5	432	660	3,711	
Dec	162	316	316	85	401	2,462	326	123	93	18	5	504	744	4,095	
YTD	1,543	3,872	3,872	843	4,715	26,819	3,811	1,451	1,064	309	62	4,802	7,688	44,576	

**Table 1.1-2M (Cont.)
Primary Commercial Energy Production**

Unit : KTOE

Month	Hydro	2010										Grand Total		
		Lignite			NG	Condensate	Crude Oil				Total			
		Mae-Moh	EGAT				Non EGAT	Benjamas	Sirkit	Tantawan			Fang	Others
			Krabi	Total										
Jan	137	336	336	77	413	2,435	320	115	100	18	5	398	636	3,941
Feb	141	300	300	110	410	2,248	287	102	86	22	5	373	588	3,674
Mar	170	333	333	97	430	2,776	361	125	93	23	5	418	665	4,402
Apr	114	350	350	90	440	2,494	317	119	93	15	5	390	621	3,986
May	115	381	381	80	461	2,637	339	119	93	17	5	437	671	4,223
Jun	92	308	308	95	403	2,713	340	120	93	15	5	447	680	4,228
Jul	74	316	316	67	383	2,621	354	122	97	12	5	456	692	4,124
Aug	75	320	320	58	378	2,714	342	112	95	13	5	462	687	4,196
Sep	54	323	323	54	377	2,661	331	102	85	15	4	447	654	4,077
Oct	38	322	322	72	394	2,801	355	100	79	13	5	412	609	4,197
Nov	73	339	339	76	415	2,659	334	98	89	14	4	381	586	4,067
Dec	100	332	332	114	446	2,725	344	97	85	16	5	358	561	4,176
YTD	1,185	3,960	3,960	990	4,950	31,484	4,026	1,331	1,088	193	58	4,975	7,644	49,289

Month	Hydro	2011										Grand Total		
		Lignite			NG	Condensate	Crude Oil				Total			
		Mae-Moh	EGAT				Non EGAT	Benjamas	Sirkit	Tantawan			Fang	Others
			Krabi	Total										
Jan	128	408	408	84	492	2,814	350	122	87	19	5	350	582	4,366
Feb	144	345	345	77	422	2,618	331	96	72	20	4	323	515	4,030
Mar	129	379	379	87	466	2,965	377	118	96	21	5	344	584	4,521
Apr	104	361	361	75	436	2,711	339	123	99	19	4	312	557	4,147
May	83	332	332	75	407	2,890	330	120	104	28	4	370	627	4,337
Jun	87	401	401	80	481	2,627	295	106	104	26	4	360	600	4,090
Jul	87	361	361	376	737	2,462	292	116	103	26	4	335	584	4,162
Aug	200	412	412	135	547	2,594	309	111	107	24	5	356	604	4,254
Sep	221	341	341	471	812	2,589	293	109	99	17	4	358	588	4,503
Oct	252	335	335	59	394	2,505	301	110	64	21	4	359	558	4,010
Nov	140	283	283	68	351	2,544	291	111	105	26	4	356	601	3,927
Dec	182	392	392	56	448	2,799	314	111	106	25	4	347	593	4,336
YTD	1,758	4,349	4,349	1,643	5,992	32,116	3,822	1,351	1,147	271	52	4,166	6,987	50,675

Table 1.1 -2M (Cont.)
Primary Commercial Energy Production

Unit : KTOE

Month	Hydro	Lignite			NG	Condensate	Crude Oil					Grand Total			
		Mae-Moh	EGAT				Non EGAT	Total	Benjamas	Sirikit	Tantawan		Fang	Others	Total
			Krabi	Total											
Jan	252	320			391	71	2,941	311	97	106	16	4	377	601	4,496
Feb	277	367			421	54	2,566	284	113	106	15	4	389	628	4,176
Mar	238	325			380	55	2,936	328	136	116	15	4	426	697	4,579
Apr	188	340			499	159	2,849	326	123	114	15	4	382	637	4,499
May	165	379			503	124	3,010	332	123	120	13	4	323	583	4,593
Jun	107	310			324	14	2,877	324	124	113	15	4	344	601	4,233
Jul	98	404			424	20	3,217	374	97	121	14	4	379	616	4,729
Aug	99	309			323	14	3,075	360	99	121	14	4	380	619	4,476
Sep	89	381			395	14	3,013	353	99	118	16	4	364	601	4,451
Oct	91	333			382	49	3,142	370	75	122	18	4	382	601	4,586
Nov	132	315			366	51	3,183	366	99	123	15	4	386	627	4,674
Dec	131	327			346	19	3,108	355	89	142	20	4	397	652	4,592
YTD	1,868	4,109			4,752	643	35,916	4,083	1,273	1,422	188	47	4,525	7,455	54,074

Table 1.1-3M
Primary Commercial Energy Import (Net) (Physical Unit)

2008													
Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)						Electricity (GWh)		NG & LNG (MMSCF)	
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total	NG	LNG	Total
Jan	1,309,804	4,052		-191	-259	-91	-285	-16	137	-706	344	24,255	24,255
Feb	1,483,336	4,065		-138	-147	-99	-285	-12	-41	-721	172	26,922	26,922
Mar	1,322,245	4,462		-147	-297	-109	-262		136	-679	156	30,159	30,159
Apr	1,536,052	3,706		-205	-176	-115	-61	40	-2	-519	264	20,743	20,743
May	1,510,234	4,126		-83	-374	-117	-321	-3	-34	-933	168	25,698	25,698
Jun	1,245,740	3,456		-188	-315	-56	-240	-0	71	-728	228	24,875	24,875
Jul	1,363,819	3,481		-177	-429	-115	-206	204	-8	-732	279	26,916	26,916
Aug	1,252,980	3,979		-129	-405	-162	-387	126	-114	-1,070	275	27,491	27,491
Sep	1,310,956	3,070		-63	-278	-61	-275	128	-6	-555	331	27,422	27,422
Oct	1,383,522	3,886		-33	-336	-134	-419	165	-150	-907	271	26,526	26,526
Nov	1,008,607	2,485		-34	-328	-111	-206	168	-240	-750	184	22,168	22,168
Dec	1,251,705	3,789		-91	-372	-239	-424	-2	-67	-1,195	139	20,072	20,072
YTD	15,979,001	44,556		-1,478	-3,717	-1,407	-3,370	798	-320	-9,495	2,812	303,246	303,246

2009													
Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)						Electricity (GWh)		NG & LNG (MMSCF)	
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total	NG	LNG	Total
Jan	893,980	3,420		-134	-259	-101	-400	35	-48	-907	171	10,029	10,029
Feb	1,136,571	2,701		-46	-25	-105	-324	-2	-55	-556	108	21,086	21,086
Mar	1,320,589	4,642		-65	-43	-54	-327	41	27	-421	134	20,698	20,698
Apr	1,590,725	3,755		-125	-350	-78	-328	24	-96	-952	112	23,966	23,966
May	1,465,033	3,707		-120	-596	-197	-278	121	-49	-1,120	150	28,009	28,009
Jun	1,234,669	4,117		-158	-270	-100	-500	79	-110	-1,060	184	27,876	27,876
Jul	1,554,504	3,377		-144	-329	-205	-329	124	-138	-1,022	248	26,711	26,711
Aug	1,448,911	3,538		-153	-564	-152	-294	166	-75	-1,072	277	29,306	29,306
Sep	1,678,140	4,146		-109	-466	-160	-328	164	-87	-986	207	28,028	28,028
Oct	2,043,748	3,747		-115	-635	-172	-193	204	-181	-1,091	275	30,219	30,219
Nov	847,676	3,859		-87	-364	-120	-224	204	-167	-758	337	28,312	28,312
Dec	1,174,294	3,227		-81	-510	-174	-269	207	-142	-969	279	19,307	19,307
YTD	16,388,840	44,237		-1,337	-4,411	-1,618	-3,795	1,367	-1,121	-10,915	2,483	293,548	293,548

Table 1.1-3M (Cont.)
Primary Commercial Energy Import (Net) (Physical Unit)

Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)		NG & LNG (MMSCF)				
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total	NG	LNG	Total		
Jan	1,260,121	3,635		-86	-198	-98	-230	200		-8	-420	166	23,739		23,739
Feb	1,339,828	3,706		-79	-261	-59	-273	202		-66	-536	145	27,418		27,418
Mar	1,267,862	3,448		-71	-301	-103	-278	229		113	-410	572	20,953		20,953
Apr	1,925,201	4,400		-134	-360	-152	-292	228		11	-698	745	27,119		27,119
May	1,419,128	3,488		-158	-413	-69	-273	324		51	-537	794	28,961		28,961
Jun	1,361,404	4,046		-152	-487	-213	-268	237		76	-806	791	26,110		26,110
Jul	1,133,692	3,627		-149	-544	-133	-246	165		-20	-928	803	27,982		27,982
Aug	1,040,141	3,903		-109	-618	-312	-171	247		36	-927	772	26,361		26,361
Sep	1,612,568	3,570		-135	-731	-154	-282	247		52	-1,003	782	27,674		27,674
Oct	1,600,902	3,583		-70	-581	-286	-246	270		159	-753	797	26,285		26,285
Nov	1,327,558	3,926		-73	-474	-145	-315	263		-184	-928	487	23,715		23,715
Dec	1,615,799	4,293		-125	-477	-105	-260	288		11	-667	424	25,515		25,515
YTD	16,904,205	45,627		-1,342	-5,444	-1,827	-3,133	2,901		232	-8,613	7,277	311,830		311,830

Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)		NG & LNG (MMSCF)				
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total	NG	LNG	Total		
Jan	1,535,900	3,649		-57	-306	-87	-341	210		66	-515	414	19,290		19,290
Feb	1,628,442	3,057		-42	-166	4	-176	209		277	106	640	22,174		22,174
Mar	1,414,313	3,701		-60	-260	-23	-242	165		134	-285	793	25,993		25,993
Apr	1,500,031	3,899		-55	-350	-127	-314	135		49	-662	1,022	26,041		26,041
May	1,473,014	4,289		-146	-408	-105	-341	212		134	-654	1,077	29,530	2,905	32,434
Jun	1,477,621	3,461		-103	-282	-114	-256	315		-40	-480	1,073	28,604	7,263	35,867
Jul	1,197,479	4,007		-84	-640	-126	-198	269		-19	-797	1,316	29,943	6,594	36,536
Aug	988,884	4,287		-167	-722	-169	-251	292		-60	-1,078	796	28,925	9,220	38,145
Sep	1,828,474	3,479		-67	-615	-146	-306	199		13	-921	1,129	28,933	3,584	32,518
Oct	1,025,569	3,339		-44	-321	-18	-169	257		-60	-356	1,173	22,756	3,018	25,775
Nov	1,242,255	3,499		-27	-240	-127	-236	162		106	-362	910	21,966	3,134	25,100
Dec	1,019,123	3,488		-82	-340	-260	-320	207		-109	-904	466	19,247		19,247
YTD	16,331,105	44,156		-935	-4,649	-1,297	-3,151	2,631		491	-6,910	10,810	303,402	35,719	339,121

Table 1.1-3M (Cont.)
Primary Commercial Energy Import (Net) (Physical Unit)

Month	2012													
	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)						Electricity (GWh)	NG & LNG (MMSCF)			
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others		Total	NG	LNG	Total
Jan	1,098,521	4,135		-69	-417	-72	-355	207	-38	-744	486	18,382	3,566	21,948
Feb	1,586,875	4,192		-97	-466	-70	-291	294	81	-550	801	23,249	3,367	26,616
Mar	1,476,171	4,606		-139	-378	-25	-412	308	-7	-654	1,167	28,527	6,166	34,693
Apr	1,884,858	4,056		-180	-459	-23	-236	340	38	-519	1,139	17,137		17,137
May	1,502,830	3,908		-152	-405	-77	-214	213	-92	-729	1,078	25,767	3,554	29,320
Jun	1,160,143	3,971		-143	-536	-98	-267	244	-258	-1,059	939	28,202	6,674	34,876
Jul	1,466,067	3,722		-50	-400	-132	-159	196	-52	-596	949	26,421	5,856	32,277
Aug	1,956,484	3,763		-54	-361	-52	-309	332	138	-305	1,116	27,044	3,093	30,138
Sep	1,635,712	3,500		-94	-489	-63	-312	333	-199	-825	1,146	23,322	4,435	27,758
Oct	2,315,324	4,212		-149	-531	-57	-169	256	-95	-745	800	28,907	3,336	32,244
Nov	1,330,740	3,494		-93	-527	-40	-410	253	-32	-850	520	27,660	2,951	30,611
Dec	990,645	4,108		-44	-386	-72	-357	212	-80	-727	414	26,003	4,454	30,458
YTD	18,404,370	47,668		-1,265	-5,356	-781	-3,492	3,186	-595	-8,303	10,555	300,622	47,452	348,075

Remarks : LPG includes Propane and Butane

Table 1.1-4M
Primary Commercial Energy Import (Net)

Unit : KTOE

Month	Coal	Crude Oil	Condensate	Petroleum Products							Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG	
Jan	818	3,484		-143	-223	-75	-268	-10	97	-622	29	596	596	4,305
Feb	926	3,496		-103	-127	-81	-268	-7	-35	-621	15	661	661	4,477
Mar	825	3,838		-109	-256	-89	-247		98	-603	13	741	741	4,814
Apr	959	3,188		-153	-152	-94	-57	25	-2	-433	22	510	510	4,246
May	943	3,548		-62	-323	-95	-303	-2	-26	-811	14	631	631	4,325
Jun	778	2,972		-140	-272	-46	-226		53	-631	19	611	611	3,749
Jul	851	2,994		-132	-370	-94	-193	128	-6	-667	24	661	661	3,863
Aug	782	3,422		-96	-349	-132	-364	79	-67	-929	23	675	675	3,973
Sep	818	2,640		-47	-239	-50	-259	81	-5	-519	28	674	674	3,641
Oct	864	3,342		-25	-290	-109	-394	104	-112	-826	23	652	652	4,055
Nov	630	2,137		-25	-283	-91	-193	106	-162	-648	16	545	545	2,680
Dec	781	3,259		-68	-321	-195	-399	-1	-50	-1,034	12	493	493	3,511
YTD	9,974	38,318		-1,101	-3,204	-1,150	-3,172	503	-217	-8,341	240	7,451	7,451	47,642

Month	Coal	Crude Oil	Condensate	Petroleum Products							Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG	
Jan	558	2,942		-99	-224	-83	-376	22	-36	-796	15	246	246	2,965
Feb	709	2,323		-34	-21	-86	-305	-1	-41	-488	9	518	518	3,071
Mar	824	3,992		-48	-37	-44	-308	26	20	-391	11	509	509	4,945
Apr	993	3,229		-93	-302	-63	-309	15	-71	-823	10	589	589	3,998
May	914	3,188		-90	-514	-161	-262	76	-52	-1,003	13	688	688	3,800
Jun	771	3,541		-118	-233	-82	-471	49	-82	-937	16	685	685	4,076
Jul	970	2,904		-107	-284	-168	-310	78	-103	-894	21	656	656	3,657
Aug	904	3,043		-114	-486	-124	-277	105	-56	-952	24	720	720	3,739
Sep	1,047	3,566		-82	-402	-130	-309	103	-65	-885	18	689	689	4,435
Oct	1,276	3,223		-85	-548	-141	-182	129	-135	-962	23	742	742	4,302
Nov	529	3,318		-65	-314	-98	-211	129	-124	-683	29	696	696	3,889
Dec	733	2,775		-61	-439	-142	-253	130	-106	-871	24	474	474	3,135
YTD	10,230	38,044		-996	-3,802	-1,322	-3,572	861	-850	-9,681	212	7,212	7,212	46,017

**Table 1.1-4M (Cont.)
Primary Commercial Energy Import (Net)**

Unit : KTOE

Month	Coal	Crude Oil	Condensate	Petroleum Products							Electricity	NG & LNG		Grand Total	
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG		
															Total
Jan	787	3,126		-64	-170	-80	-217	126		-6	-411	14	583	583	4,099
Feb	836	3,187		-59	-225	-48	-257	128		-49	-510	12	674	674	4,199
Mar	791	2,965		-53	-259	-84	-262	144		84	-430	49	515	515	3,890
Apr	1,202	3,784		-100	-310	-124	-275	144		8	-657	63	666	666	5,058
May	886	3,000		-118	-356	-56	-257	204		38	-545	68	712	712	4,121
Jun	850	3,480		-113	-420	-174	-252	149		57	-753	67	642	642	4,286
Jul	708	3,119		-111	-469	-109	-232	104		-15	-832	68	688	688	3,751
Aug	649	3,357		-81	-533	-255	-161	156		27	-847	66	648	648	3,873
Sep	1,007	3,070		-101	-630	-126	-265	155		39	-928	67	680	680	3,896
Oct	999	3,082		-52	-501	-234	-231	170		118	-730	68	646	646	4,065
Nov	829	3,376		-54	-409	-118	-297	166		-137	-849	42	583	583	3,981
Dec	1,009	3,692		-93	-411	-86	-244	182		8	-644	36	627	627	4,720
YTD	10,551	39,239		-1,000	-4,693	-1,494	-2,949	1,828		173	-8,135	620	7,662	7,662	49,937

Month	Coal	Crude Oil	Condensate	Petroleum Products							Electricity	NG & LNG		Grand Total	
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG		
															Total
Jan	959	3,138		-42	-264	-71	-321	132		52	-514	35	474	474	4,092
Feb	1,016	2,629		-31	-143	4	-166	132		209	5	55	545	545	4,250
Mar	883	3,224		-45	-224	-18	-228	104		100	-311	68	639	639	4,503
Apr	936	3,353		-41	-302	-104	-296	85		39	-619	87	640	640	4,397
May	919	3,689		-109	-352	-86	-321	133		102	-633	92	726	726	4,864
Jun	922	2,976		-77	-243	-93	-241	198		-30	-486	91	703	703	4,384
Jul	747	3,446		-62	-552	-103	-186	170		-11	-744	112	736	736	4,459
Aug	617	3,687		-125	-622	-138	-237	184		-45	-983	68	711	711	4,327
Sep	1,141	2,992		-50	-530	-119	-288	126		13	-848	96	711	711	4,180
Oct	640	2,871		-33	-277	-15	-160	162		-32	-355	100	559	559	3,889
Nov	775	3,010		-20	-207	-104	-222	102		84	-367	78	540	540	4,113
Dec	636	3,000		-61	-293	-212	-301	130		-61	-798	40	473	473	3,351
YTD	10,194	38,015		-696	-4,008	-1,060	-2,966	1,658		421	-6,651	921	7,455	878	50,812

Table 1.1-4M (Cont.)
Primary Commercial Energy Import (Net)

Unit : KTOE

Month	2012										Grand Total		
	Coal	Crude Oil	Condensate	Petroleum Products						Electricity		NG	LNG
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total	NG	LNG	Total
Jan	686	3,556		-51	-360	-59	-334	130	-28	-702	452	88	540
Feb	991	3,605		-72	-402	-57	-274	185	78	-542	571	83	654
Mar	921	3,962		-104	-326	-21	-388	194	-1	-646	701	152	853
Apr	1,177	3,488		-134	-395	-18	-222	214	41	-514	421		421
May	938	3,361		-113	-349	-63	-202	134	-63	-656	633	87	720
Jun	724	3,415		-107	-462	-80	-251	154	-172	-918	693	164	857
Jul	915	3,201		-37	-345	-108	-149	123	-39	-555	649	144	793
Aug	1,221	3,236		-40	-311	-43	-291	209	128	-348	664	76	740
Sep	1,021	3,010		-70	-422	-52	-294	210	-124	-752	573	109	682
Oct	1,445	3,622		-111	-458	-47	-159	161	-45	-659	710	82	792
Nov	831	3,005		-69	-454	-33	-386	159	-4	-787	680	73	753
Dec	618	3,533		-33	-333	-59	-336	133	-59	-687	639	109	748
YTD	11,488	40,995		-942	-4,617	-639	-3,287	2,007	-288	-7,766	7,386	1,166	8,552

Remarks : LPG includes Propane and Butane

Table 1.1-5M
Primary Commercial Energy Consumption (Physical Unit)

2008							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	1,083	1,317,911	155,859	1,473,770	103,163	3,540	1,480,758
Feb	886	1,291,476	200,731	1,492,207	100,668	3,332	1,343,930
Mar	980	1,354,518	238,846	1,593,364	111,051	3,641	1,380,277
Apr	1,088	1,414,483	183,093	1,597,576	105,393	3,593	1,438,085
May	711	1,491,436	188,339	1,679,775	118,699	3,387	1,387,797
Jun	759	1,372,230	230,523	1,602,753	114,593	3,088	1,338,584
Jul	799	1,262,475	191,082	1,453,557	118,136	3,044	1,349,000
Aug	711	1,334,370	185,890	1,520,260	119,490	3,150	1,306,324
Sep	719	1,386,029	200,477	1,586,506	113,069	3,012	1,333,755
Oct	648	1,337,526	180,396	1,517,922	114,394	3,229	1,402,158
Nov	613	1,366,674	113,379	1,480,053	98,638	3,107	1,186,122
Dec	765	1,478,337	55,472	1,533,809	102,443	3,408	1,032,211
YTD	9,763	16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,979,000

2009							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	914	1,461,488	111,470	1,572,958	99,315	3,565	1,263,101
Feb	824	1,144,939	157,131	1,302,070	98,170	3,095	1,173,015
Mar	945	1,255,136	247,544	1,502,680	114,859	3,469	1,230,511
Apr	831	1,313,460	234,662	1,548,122	107,953	3,294	1,475,963
May	689	1,370,259	183,435	1,553,694	125,502	3,435	1,432,156
Jun	552	1,463,154	194,639	1,657,793	118,513	3,170	1,523,827
Jul	616	1,451,536	165,359	1,616,895	116,521	3,277	1,486,020
Aug	861	1,304,125	179,357	1,483,482	120,255	3,262	1,390,062
Sep	599	1,243,891	134,061	1,377,952	119,232	3,161	1,467,969
Oct	752	1,287,741	41,449	1,329,190	123,725	3,382	1,297,112
Nov	854	1,227,355	193,949	1,421,304	121,197	3,276	1,277,320
Dec	1,012	1,295,181	199,472	1,494,653	119,472	3,680	1,370,606
YTD	9,448	15,818,265	2,042,529	17,860,794	1,384,714	40,065	16,387,662

2010							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	784	1,363,194	171,521	1,534,715	122,784	3,442	1,315,121
Feb	783	1,161,660	144,184	1,305,844	118,896	3,346	1,235,730
Mar	1,341	1,370,186	189,422	1,559,608	133,909	3,677	1,555,802
Apr	1,258	1,427,231	161,905	1,589,136	128,586	3,358	1,516,103
May	1,314	1,482,298	165,206	1,647,504	136,239	3,368	1,509,430
Jun	1,206	1,257,482	188,479	1,445,961	136,516	3,295	1,492,723
Jul	1,138	1,278,053	155,133	1,433,186	134,618	3,415	1,451,511
Aug	1,112	1,370,701	134,749	1,505,450	136,787	3,314	1,450,044
Sep	1,028	1,219,748	132,236	1,351,984	135,942	3,215	1,454,902
Oct	967	1,340,644	61,942	1,402,586	140,259	3,292	1,463,079
Nov	816	1,357,249	290,589	1,647,838	131,900	3,470	1,322,788
Dec	875	1,375,750	222,319	1,598,069	136,408	3,635	1,136,970
YTD	12,624	16,004,196	2,017,685	18,021,881	1,592,846	40,827	16,904,203

Table 1.1-5M (Cont.)
Primary Commercial Energy Consumption (Physical Unit)

2011							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	991	1,491,892	277,871	1,769,763	133,781	3,592	1,385,272
Feb	1,291	1,350,179	307,575	1,657,754	128,688	3,348	1,260,210
Mar	1,377	1,524,371	289,908	1,814,279	146,628	3,702	1,454,517
Apr	1,493	1,453,644	278,587	1,732,231	136,356	3,552	1,385,742
May	1,451	1,552,462	253,227	1,805,689	150,000	3,560	1,422,583
Jun	1,467	1,490,675	260,229	1,750,904	142,734	3,528	1,360,044
Jul	1,709	1,537,595	120,233	1,657,828	136,686	3,542	1,497,297
Aug	1,698	1,393,272	308,030	1,701,302	143,673	3,537	1,422,174
Sep	2,128	1,344,072	283,836	1,627,908	137,848	3,429	1,391,979
Oct	2,311	1,391,102	287,435	1,678,537	127,695	3,361	1,347,782
Nov	1,542	1,277,770	66,034	1,343,804	128,612	3,298	1,263,207
Dec	1,288	1,354,134	124,024	1,478,158	133,138	3,801	1,140,297
YTD	18,745	17,161,168	2,856,989	20,018,157	1,645,841	42,248	16,331,105

2012							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	1,624	1,422,026	86,026	1,508,052	141,633	3,736	1,377,152
Feb	2,053	1,305,278	54,232	1,359,510	131,005	3,627	1,300,236
Mar	2,241	1,396,404	86,462	1,482,866	154,167	3,867	1,488,056
Apr	1,988	1,423,127	74,782	1,497,909	133,064	3,694	1,659,593
May	1,824	1,487,165	65,895	1,553,060	151,788	3,904	1,632,311
Jun	1,420	1,464,663	60,762	1,525,425	151,930	3,659	1,456,871
Jul	1,389	1,329,878	249,397	1,579,275	163,181	3,642	1,459,848
Aug	1,565	1,518,295	212,345	1,730,640	155,238	3,660	1,540,894
Sep	1,547	1,325,208	172,756	1,497,964	150,340	3,446	1,622,458
Oct	1,211	1,305,321	189,694	1,495,015	160,066	3,692	1,736,470
Nov	1,118	1,440,217	174,743	1,614,960	160,112	3,779	1,550,234
Dec	1,007	1,336,699	184,502	1,521,201	156,913	3,963	1,580,254
YTD	18,986	16,754,281	1,611,596	18,365,877	1,809,436	44,669	18,404,375

Table 1.1-6M
Primary Commercial Energy Consumption

Unit : KTOE

2008								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	193	326	74	400	2,535	2,858	924	6,910
Feb	173	320	96	416	2,473	2,687	839	6,588
Mar	196	336	114	450	2,729	2,950	862	7,187
Apr	205	350	87	437	2,590	2,921	898	7,051
May	134	369	90	459	2,916	2,725	866	7,100
Jun	136	340	110	450	2,816	2,469	836	6,707
Jul	139	313	91	404	2,903	2,418	842	6,706
Aug	120	331	89	420	2,936	2,509	815	6,800
Sep	114	343	96	439	2,778	2,395	833	6,559
Oct	106	331	86	417	2,811	2,570	875	6,779
Nov	111	339	54	393	2,424	2,478	740	6,146
Dec	151	366	26	392	2,517	2,733	644	6,437
YTD	1,780	4,064	1,013	5,077	32,426	31,714	9,974	80,971

2009								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	180	362	53	415	2,440	2,866	788	6,689
Feb	167	284	75	359	2,412	2,486	732	6,156
Mar	191	311	118	429	2,822	2,782	768	6,992
Apr	169	325	112	437	2,652	2,642	921	6,821
May	133	339	87	426	3,084	2,757	894	7,294
Jun	98	362	93	455	2,912	2,534	951	6,950
Jul	103	360	79	439	2,863	2,614	928	6,947
Aug	153	323	86	409	2,955	2,600	868	6,985
Sep	105	308	64	372	2,930	2,521	916	6,844
Oct	128	319	20	339	3,040	2,707	810	7,024
Nov	144	304	93	397	2,978	2,616	797	6,932
Dec	186	321	95	416	2,935	2,951	856	7,344
YTD	1,755	3,918	974	4,892	34,022	32,075	10,229	82,973

2010								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	151	338	82	420	3,017	2,749	821	7,158
Feb	153	288	69	357	2,921	2,678	771	6,880
Mar	219	339	90	429	3,290	2,953	971	7,862
Apr	177	354	77	431	3,159	2,685	946	7,398
May	183	367	79	446	3,347	2,693	942	7,611
Jun	159	311	90	401	3,354	2,625	932	7,471
Jul	142	317	74	391	3,308	2,724	906	7,471
Aug	141	340	64	404	3,361	2,633	905	7,444
Sep	121	302	63	365	3,340	2,552	908	7,286
Oct	106	332	30	362	3,446	2,613	913	7,440
Nov	115	336	139	475	3,241	2,765	826	7,422
Dec	136	341	106	447	3,352	2,894	710	7,539
YTD	1,805	3,964	962	4,926	39,136	32,563	10,551	88,981

Table 1.1-6M (Cont.)
Primary Commercial Energy Consumption

Unit : KTOE

2011								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	163	370	133	503	3,287	2,860	865	7,678
Feb	199	334	147	481	3,162	2,671	787	7,300
Mar	197	378	138	516	3,603	2,952	908	8,176
Apr	191	360	133	493	3,350	2,833	865	7,732
May	175	385	121	506	3,686	2,832	888	8,087
Jun	178	369	124	493	3,507	2,809	849	7,836
Jul	199	381	57	438	3,358	2,820	935	7,750
Aug	268	345	147	492	3,530	2,802	888	7,980
Sep	317	333	135	468	3,387	2,722	869	7,763
Oct	352	345	137	482	3,137	2,675	841	7,487
Nov	218	317	31	348	3,160	2,630	788	7,144
Dec	222	335	59	394	3,271	3,025	712	7,624
YTD	2,679	4,251	1,363	5,614	40,438	33,631	10,194	92,556

2012								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	293	352	41	393	3,480	2,970	860	7,996
Feb	345	323	26	349	3,219	2,887	812	7,612
Mar	337	346	41	387	3,788	3,076	929	8,517
Apr	285	353	36	389	3,269	2,948	1,036	7,927
May	257	368	31	399	3,729	3,126	1,019	8,530
Jun	187	363	29	392	3,733	2,910	909	8,131
Jul	179	329	119	448	4,009	2,889	911	8,436
Aug	194	376	101	477	3,814	2,898	962	8,345
Sep	187	328	82	410	3,694	2,724	1,013	8,028
Oct	159	323	90	413	3,933	2,924	1,084	8,513
Nov	176	357	83	440	3,934	3,000	968	8,518
Dec	166	331	88	419	3,855	3,143	986	8,569
YTD	2,767	4,150	769	4,919	44,458	35,492	11,488	99,124

Table 1.2-1M
Final Modern Energy Consumption (Physical Unit)

2008													
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)						Electricity* (GWh)		NG in Industry (MMSCF)	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Electricity*	NG in Industry
Jan	890	156	1,046	545	232	370	457	2	1,628	303	3,538	11,098	12,840
Feb	823	201	1,024	516	225	354	441	1	1,521	250	3,308	11,033	12,544
Mar	808	239	1,047	548	230	374	433	1	1,695	251	3,533	12,234	13,581
Apr	859	183	1,042	525	229	374	410	1	1,612	357	3,509	11,804	13,373
May	869	188	1,057	571	216	362	397	2	1,548	267	3,364	12,344	13,401
Jun	881	231	1,112	557	204	354	377	1	1,361	230	3,086	12,173	12,757
Jul	890	191	1,081	620	208	351	371	1	1,246	246	3,043	12,400	14,779
Aug	832	186	1,018	609	233	355	369	1	1,325	253	3,145	12,408	14,256
Sep	820	200	1,020	596	234	334	336	1	1,276	227	3,005	11,816	14,337
Oct	839	180	1,020	619	249	351	387	1	1,394	227	3,228	12,006	15,221
Nov	787	113	901	566	254	344	336	1	1,402	203	3,107	10,824	12,555
Dec	772	55	827	554	294	388	322	1	1,627	222	3,408	9,839	12,891
YTD	10,072	2,124	12,196	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	139,978	162,535

2009													
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)						Electricity* (GWh)		NG in Industry (MMSCF)	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Electricity*	NG in Industry
Jan	777	111	888	558	287	378	396	1	1,718	218	3,556	9,681	14,278
Feb	745	157	902	489	255	334	365	1	1,439	212	3,095	10,274	14,056
Mar	709	248	956	559	289	373	405	2	1,624	214	3,465	11,923	15,986
Apr	943	235	1,177	531	277	357	344	1	1,586	195	3,292	11,267	15,255
May	931	183	1,115	557	284	368	349	1	1,658	215	3,433	12,148	16,044
Jun	1,018	195	1,212	563	262	345	322	1	1,459	215	3,168	11,900	16,715
Jul	967	165	1,132	598	269	362	356	1	1,471	218	3,276	12,067	16,360
Aug	916	179	1,096	611	263	353	363	1	1,446	188	3,225	12,486	16,543
Sep	977	134	1,111	588	254	346	347	2	1,394	229	3,159	12,124	17,501
Oct	889	41	931	612	265	358	378	2	1,472	251	3,337	12,348	18,368
Nov	902	194	1,096	600	248	339	390	2	1,473	215	3,267	11,706	18,356
Dec	1,005	199	1,204	630	278	378	416	2	1,714	250	3,668	11,368	18,072
YTD	10,778	2,043	12,821	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	139,292	197,533

Table 1.2-1M (Cont.)
Final Modern Energy Consumption (Physical Unit)

Month	Solid Fossil Fuel (Thousand Tons)		Petroleum Products (Million Litres)						Electricity* (GWh)	NG in Industry (MMSCF)			
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		
Jan	780	172	952	625	256	350	434	2	1,565	206	3,437	11,719	18,389
Feb	770	144	914	589	240	352	398	1	1,545	219	3,344	11,737	18,598
Mar	1,000	189	1,189	639	244	376	436	1	1,686	253	3,636	13,257	19,329
Apr	1,010	162	1,171	598	240	367	383	1	1,547	214	3,351	12,909	18,583
May	1,007	165	1,172	613	233	366	342	2	1,588	211	3,355	13,911	18,965
Jun	1,020	188	1,208	621	240	377	341	1	1,508	200	3,288	13,377	19,757
Jul	1,019	155	1,174	645	248	388	365	1	1,514	210	3,372	13,497	19,690
Aug	959	135	1,094	650	242	377	397	1	1,431	202	3,299	13,036	19,488
Sep	1,017	132	1,150	635	234	374	369	1	1,403	189	3,205	12,967	19,878
Oct	987	62	1,049	647	237	379	399	1	1,434	192	3,289	13,099	19,946
Nov	908	291	1,198	648	241	391	406	1	1,582	200	3,469	12,192	20,317
Dec	813	222	1,035	676	252	413	441	1	1,665	180	3,628	12,186	21,638
YTD	11,289	2,018	13,307	7,587	2,908	4,509	4,712	15	18,468	2,475	40,674	153,884	234,578

Month	Solid Fossil Fuel (Thousand Tons)		Petroleum Products (Million Litres)						Electricity* (GWh)	NG in Industry (MMSCF)			
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		
Jan	837	278	1,115	670	236	395	481	1	1,623	177	3,584	11,893	21,135
Feb	816	308	1,124	613	221	375	435	1	1,492	203	3,340	11,863	20,343
Mar	916	290	1,206	697	227	389	477	1	1,704	207	3,701	13,221	24,821
Apr	856	279	1,134	660	228	390	426	1	1,658	164	3,526	12,335	23,152
May	868	253	1,121	696	223	388	388	1	1,686	153	3,535	13,665	25,347
Jun	874	260	1,134	689	223	399	383	1	1,604	172	3,471	13,589	25,617
Jul	921	120	1,041	714	223	390	410	1	1,519	215	3,471	13,628	25,946
Aug	893	308	1,201	737	213	420	417	1	1,535	181	3,504	13,646	26,498
Sep	857	284	1,140	704	154	448	397	1	1,500	161	3,363	13,568	26,722
Oct	778	287	1,065	663	135	441	409	1	1,499	197	3,344	12,624	25,282
Nov	794	66	860	607	130	425	411	1	1,573	140	3,287	11,667	23,608
Dec	786	124	910	728	181	477	445	1	1,789	172	3,794	11,631	26,690
YTD	10,196	2,857	13,053	8,178	2,394	4,937	5,077	13	19,181	2,142	41,921	153,332	295,160

**Table 1.2-1M (Cont.)
Final Modern Energy Consumption (Physical Unit)**

Month	2012											Electricity* (GWh)	NG in Industry (MMSCF)
	Solid Fossil Fuel (Thousand Tons)		Petroleum Products (Million Litres)							Fuel Oil	Total		
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel				
Jan	766	86	852	730	180	454	489	1,694	184	3,732	12,265	27,164	
Feb	810	54	864	699	174	432	458	1,695	151	3,610	12,924	26,686	
Mar	839	86	926	754	183	457	472	1,827	166	3,861	14,332	28,312	
Apr	881	75	956	713	182	433	405	1,722	143	3,599	13,482	29,700	
May	945	66	1,011	753	186	446	382	1,805	235	3,808	14,702	29,154	
Jun	887	61	948	731	189	446	377	1,700	186	3,630	13,916	28,204	
Jul	917	249	1,167	755	195	440	396	1,647	191	3,624	14,132	29,041	
Aug	909	212	1,121	769	206	440	407	1,655	155	3,631	13,794	29,403	
Sep	889	173	1,062	738	197	412	385	1,549	151	3,432	13,537	29,012	
Oct	951	190	1,141	769	211	444	413	1,665	168	3,670	13,875	29,598	
Nov	932	175	1,107	747	221	449	437	1,752	162	3,770	13,967	29,144	
Dec	899	185	1,084	772	253	478	471	1,835	152	3,962	13,351	28,250	
YTD	10,625	1,612	12,237	8,930	2,376	5,329	5,091	20,546	2,044	44,329	164,276	343,669	

* Including Power Generation from SPP

** Preliminary data

*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 1.2-2M
Final Modern Energy Consumption

Unit : KTOE

Month	Solid Fossil Fuel		Petroleum Products							Electricity*		Total	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		Natural Gas
Jan	555	74	629	344	173	276	373	1	1,404	286	2,857	315	4,747
Feb	514	96	610	325	167	264	360	1	1,311	235	2,663	308	4,521
Mar	504	114	618	345	171	279	354	1	1,461	237	2,848	334	4,842
Apr	536	87	623	331	171	279	335	1	1,389	336	2,842	329	4,800
May	542	90	632	360	161	270	325	1	1,335	252	2,704	329	4,717
Jun	550	110	660	351	152	264	309	1	1,173	217	2,467	1,037	4,477
Jul	556	91	647	391	155	261	304	1	1,074	232	2,418	1,057	4,485
Aug	520	89	609	384	174	264	302	1	1,142	238	2,505	1,057	4,521
Sep	512	96	608	376	174	249	275	1	1,100	214	2,389	1,007	4,356
Oct	524	86	610	390	186	261	316	1	1,202	213	2,569	1,023	4,576
Nov	491	54	545	357	189	256	274	1	1,209	191	2,477	922	4,252
Dec	482	26	508	349	219	289	263	1	1,402	209	2,732	838	4,395
YTD	6,287	1,013	7,300	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,928	54,692

Month	Solid Fossil Fuel		Petroleum Products							Electricity*		Total	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		Natural Gas
Jan	485	53	538	351	214	282	324	1	1,480	205	2,857	825	4,571
Feb	465	75	540	308	190	248	298	1	1,240	200	2,485	875	4,245
Mar	442	118	560	352	215	278	331	1	1,400	202	2,779	1,016	4,748
Apr	588	112	700	335	206	266	282	1	1,367	184	2,641	960	4,676
May	581	87	668	351	212	274	285	1	1,429	202	2,754	1,035	4,851
Jun	635	93	728	355	196	257	263	1	1,257	202	2,531	1,014	4,684
Jul	604	79	683	377	201	269	291	1	1,268	205	2,612	1,028	4,725
Aug	572	86	658	385	196	263	297	1	1,247	177	2,566	1,064	4,694
Sep	610	64	674	370	189	258	283	1	1,201	216	2,518	1,033	4,655
Oct	555	20	575	385	198	267	309	1	1,269	236	2,665	1,052	4,743
Nov	563	93	656	378	185	253	319	1	1,270	202	2,608	997	4,712
Dec	627	95	722	397	207	282	340	2	1,477	235	2,940	969	5,075
YTD	6,728	974	7,702	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,869	56,383

**Table 1.2-2M (Cont.)
Final Modern Energy Consumption**

Unit : KTOE

Month	2010													Total
	Solid Fossil Fuel			Petroleum Products						Electricity*				
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Electricity*	Natural Gas	
Jan	487	82	569	394	191	260	354	1	1,349	194	2,743	999	452	4,763
Feb	481	69	550	371	179	262	325	1	1,332	206	2,676	1,000	457	4,683
Mar	624	90	714	403	182	280	356	1	1,453	238	2,913	1,130	475	5,232
Apr	630	77	707	377	179	274	313	1	1,334	201	2,679	1,100	457	4,943
May	628	79	707	386	174	272	280	2	1,368	199	2,681	1,185	466	5,039
Jun	637	90	727	392	179	281	278	1	1,300	188	2,619	1,140	485	4,971
Jul	636	74	710	407	185	289	298	1	1,305	198	2,683	1,150	484	5,027
Aug	599	64	663	410	180	281	324	1	1,233	190	2,619	1,111	479	4,872
Sep	635	63	698	400	174	278	302	1	1,210	178	2,543	1,105	488	4,834
Oct	616	30	646	408	177	282	326	1	1,236	180	2,610	1,116	490	4,862
Nov	567	139	706	408	179	291	332	1	1,363	188	2,762	1,039	499	5,006
Dec	507	106	613	426	188	307	361	1	1,435	169	2,887	1,038	532	5,070
YTD	7,047	962	8,009	4,781	2,166	3,360	3,851	12	15,919	2,330	32,419	13,112	5,764	59,304

Month	2011													Total
	Solid Fossil Fuel			Petroleum Products						Electricity*				
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Electricity*	Natural Gas	
Jan	522	133	655	422	176	295	393	1	1,399	166	2,852	1,013	519	5,039
Feb	510	147	657	386	164	280	356	1	1,286	191	2,664	1,011	500	4,832
Mar	572	138	710	439	169	289	390	1	1,469	195	2,952	1,127	610	5,399
Apr	534	133	667	416	170	291	348	1	1,429	154	2,809	1,051	569	5,096
May	542	121	663	438	166	289	317	1	1,453	144	2,808	1,164	623	5,258
Jun	546	124	670	434	167	298	313	1	1,383	162	2,758	1,158	629	5,215
Jul	575	57	632	450	166	291	335	1	1,309	202	2,754	1,161	637	5,184
Aug	558	147	705	464	159	313	340	1	1,323	170	2,770	1,163	651	5,289
Sep	535	135	670	443	114	334	324	1	1,293	151	2,660	1,156	657	5,143
Oct	485	137	622	418	100	328	334	1	1,292	186	2,659	1,076	621	4,978
Nov	496	31	527	383	97	317	336	1	1,356	132	2,622	994	580	4,723
Dec	491	59	550	459	135	355	364	1	1,542	162	3,018	991	656	5,215
YTD	6,364	1,363	7,727	5,153	1,784	3,678	4,150	11	16,534	2,016	33,326	13,065	7,252	61,370

Table 1.2-2M (Cont.)
Final Modern Energy Consumption

Unit : KTOE

Month	Solid Fossil Fuel				Petroleum Products							Electricity*		Total
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Natural Gas		
Jan	478	41	519	460	134	338	400	1	1,460	173	2,966	1,045	667	5,197
Feb	506	26	532	440	130	322	374	1	1,461	142	2,870	1,101	656	5,159
Mar	524	41	565	475	136	340	386	1	1,575	156	3,069	1,221	696	5,551
Apr	550	36	586	450	136	322	331	1	1,485	135	2,860	1,149	730	5,325
May	590	31	621	474	139	333	312	1	1,556	221	3,036	1,253	716	5,626
Jun	554	29	583	461	141	332	308	1	1,465	175	2,883	1,186	693	5,345
Jul	573	119	692	475	145	328	323	1	1,420	180	2,872	1,204	714	5,482
Aug	567	101	668	484	153	328	332	1	1,426	146	2,870	1,175	722	5,435
Sep	555	82	637	465	147	307	315	1	1,335	142	2,712	1,154	713	5,216
Oct	594	90	684	485	157	330	337	1	1,435	158	2,903	1,182	727	5,496
Nov	582	83	665	471	165	334	357	1	1,510	153	2,991	1,190	716	5,562
Dec	561	88	649	487	188	356	385	1	1,582	143	3,142	1,138	694	5,623
YTD	6,632	769	7,401	5,627	1,770	3,970	4,162	11	17,710	1,924	35,174	13,998	8,444	65,017

* Including Power Generation from SPP

** Preliminary data

*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries



APPENDIX I

CHAPTER
บทที่

2

Oil
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Table 2.1.1-1M
Production of Crude Oil

Unit : Barrels/Day

2008												
Month	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				40,914	18,536	6,528	6,539	18,950		42,301	4,310	138,078
Feb				35,635	19,205	8,732	6,399	17,990		42,366	4,275	134,602
Mar				34,340	22,421	8,170	6,810	17,427		42,161	4,481	135,810
Apr				36,365	21,298	6,088	6,150	17,443		47,088	4,533	138,965
May				40,395	21,151	6,642	5,760	16,460		44,101	4,529	139,038
Jun				40,980	22,427	6,461	5,844	16,482		47,094	4,627	143,915
Jul				37,545	22,085	6,605	6,055	15,938		45,453	4,455	138,135
Aug	391			37,052	21,766	6,950	6,257	21,562		46,974	4,411	145,363
Sep	12,060			35,815	18,246	7,503	3,381	23,183		47,088	4,457	151,733
Oct	11,671			23,953	21,293	10,868	8,351	23,033		46,844	4,435	150,448
Nov	5,691	3,502		31,408	21,466	12,304	8,336	15,559	8,339	47,088	4,751	158,444
Dec	10,000			32,387	21,293	11,831	8,096	15,447	8,985	41,071	3,537	152,647
YTD	3,324	287		35,559	20,942	8,222	6,505	18,292	1,445	44,960	4,399	143,935
2009												
Month	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan		7,725		33,137	21,529	12,745	9,047	14,463	8,422	42,941	3,590	153,599
Feb		6,955	1,019	34,796	21,464	10,032	8,843	14,741	8,151	39,948	3,430	149,379
Mar	3,078	6,144	8,367	36,086	20,838	8,431	8,653	12,925	8,083	46,786	4,010	163,401
Apr	7,725	6,146	8,646	34,854	22,268	8,351	3,292	12,911	8,107	27,166	19,852	159,318
May		13,213	6,584	33,549	22,147	16,130	3,746	13,213	7,615	7,172	30,725	154,094
Jun	9,323	11,907	5,156	33,721	20,500	8,111	5,553	9,046	4,300	26,741	19,856	154,214
Jul	7,093	10,768	4,524	30,464	21,411	7,103	6,246	12,630	6,097	26,199	19,120	151,655
Aug	6,625	10,768	7,545	27,957	20,905	5,771	6,236	12,630	6,097	28,916	18,464	151,914
Sep	875	11,127	2,187	31,773	21,285	5,389	6,113	13,051	6,300	26,405	13,213	137,718
Oct	5,698	8,205	4,755	29,428	20,720	5,250	6,679	15,134	4,941	20,805	14,951	136,566
Nov	5,815	7,123	6,764	39,509	20,995	5,906	5,809	16,646	7,123	27,405	17,666	160,761
Dec	6,739	4,900	4,900	40,169	21,837	6,913	4,266	16,262	4,047	29,094	41,061	175,288
YTD	3,862	8,916	5,063	33,766	21,324	8,346	6,196	13,637	6,596	29,067	17,269	154,041

**Table 2.1.1-1M (Cont.)
Production of Crude Oil**

Unit : Barrels/Day

2010												
Month	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan	5,234	6,846	6,361	34,065	23,634	7,265	4,136	15,015	4,056	27,144	16,191	149,947
Feb	5,129	6,221	6,726	38,536	22,534	5,927	5,741	15,011	4,030	26,722	17,003	153,580
Mar	6,744	6,171	8,375	38,141	22,022	6,758	5,447	14,489	3,885	29,463	15,284	156,779
Apr	5,185	4,930	9,757	41,735	22,580	5,937	3,542	14,349	3,701	28,977	10,599	151,292
May	3,235	10,210	7,793	42,447	21,846	6,036	3,890	14,839	3,252	28,164	16,445	158,157
Jun	3,409	10,814	7,305	44,373	22,751	6,240	3,764	15,464	3,290	29,187	19,115	165,712
Jul	2,599	10,465	9,133	42,743	22,978	5,399	2,847	14,099	3,368	28,746	20,768	163,145
Aug	2,323	10,818	11,772	38,771	22,464	6,513	3,003	13,384	4,104	26,392	22,366	161,910
Sep	2,966	9,310	10,473	33,902	20,786	9,731	3,768	13,314	4,446	24,883	25,803	159,382
Oct	2,569	9,248	7,849	28,711	18,534	8,825	3,166	12,221	4,622	23,650	24,105	143,500
Nov	3,225	7,333	4,461	34,903	21,609	5,648	3,409	11,164	4,336	23,804	22,812	142,704
Dec	2,380	7,322	4,997	26,018	20,039	5,946	3,762	13,142	3,622	22,857	22,140	132,225
YTD	3,739	8,327	7,926	36,998	21,808	6,689	3,860	13,868	3,891	26,665	19,403	153,174
2011												
Month	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan	2,934	6,847	7,593	28,536	20,427	3,103	4,546	12,387	5,139	28,710	16,947	137,169
Feb	2,562	6,177	8,499	29,204	18,794	2,562	5,127	13,381	4,830	25,103	18,100	134,339
Mar	3,147	6,274	8,852	27,046	22,652	3,267	4,992	13,732	3,730	27,755	16,177	137,624
Apr	2,316	5,390	7,732	27,465	24,224	2,267	4,587	13,408	4,396	29,947	13,908	135,640
May	2,318	5,220	6,660	37,797	24,566	2,403	6,643	12,840	5,869	28,337	15,043	147,696
Jun	2,506	7,695	7,233	37,000	25,386	2,187	6,252	12,423	5,286	25,714	14,476	146,158
Jul	1,991	8,260	5,800	31,291	24,366	2,465	6,136	12,715	5,048	27,248	12,410	137,730
Aug	990	10,027	10,903	31,846	25,286	2,589	5,695	12,732	4,582	26,266	11,397	142,313
Sep	1,996	10,508	13,993	26,868	24,117	2,361	4,167	12,665	4,138	26,603	15,692	143,108
Oct	1,461	9,128	14,775	28,924	15,094	1,996	4,864	12,350	4,010	26,005	13,007	131,614
Nov	1,906	8,115	13,788	30,582	25,515	2,025	6,296	12,781	5,251	26,935	13,314	146,508
Dec	1,913	7,943	11,607	31,000	25,096	2,438	5,787	11,792	3,203	26,133	12,909	139,821
YTD	2,167	7,641	9,787	30,643	22,974	2,474	5,428	12,762	4,620	27,077	14,419	139,991

**Table 2.1.1 - 1M (Cont.)
Production of Crude Oil**

Unit : Barrels/Day

Month	2012										Total	
	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas		Others
Jan	2,493	7,484	18,439	27,218	25,080	2,124	3,828	11,274	3,629	22,851	17,180	141,600
Feb	2,215	7,413	22,121	29,107	26,766	1,798	3,905	11,112	5,055	28,518	20,247	158,257
Mar	1,978	6,819	22,601	33,048	27,235	1,552	3,632	9,805	4,982	31,970	20,588	164,210
Apr	1,691	5,557	21,705	30,576	27,757	1,506	3,534	9,735	4,720	29,840	18,426	155,047
May	1,080	6,729	18,854	19,968	28,274	1,354	3,129	8,934	4,441	28,966	15,591	137,320
Jun	1,898	7,355	17,511	25,333	27,638	1,253	3,573	8,655	3,513	30,281	19,293	146,303
Jul	1,708	7,169	20,152	27,966	28,584	1,137	3,325	8,391	2,952	22,935	20,923	145,242
Aug	1,225	7,298	18,905	29,066	28,630	1,180	3,403	9,915	3,388	23,342	19,579	145,931
Sep	1,695	6,912	19,828	26,609	28,752	1,180	3,978	11,789	2,991	24,129	18,571	146,434
Oct	1,691	7,598	18,321	29,628	28,873	1,178	4,177	12,576	2,647	17,684	17,325	141,698
Nov	1,153	7,946	20,484	29,302	29,918	1,014	3,750	11,541	3,010	24,182	20,349	152,649
Dec	1,587	8,105	19,823	31,559	33,479	1,236	4,748	11,221	2,959	20,989	18,070	153,776
YTD	1,699	7,200	19,883	28,281	28,423	1,375	3,748	10,408	3,685	25,439	18,834	148,977

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2M
Production of Condensate

Unit : Barrels/Day

Month	2008										Total	
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat		Others
Jan	24,412	11,419	3,963	4,003	70	374	13,353	19,301		1,745	193	78,833
Feb	22,971	11,842	3,759	4,400	51	363	13,915	19,850		1,827	244	79,222
Mar	22,023	11,042	3,497	4,353	281	529	13,573	20,735	685	1,552	355	78,625
Apr	25,311	10,147	3,147	4,320	777	552	12,058	20,981	8,967	852	464	87,576
May	24,343	9,752	2,902	4,100	740	476	10,027	20,561	18,697	1,858	517	93,973
Jun	24,503	10,069	3,095	4,324	641	401	9,686	21,037	19,265	834	640	94,495
Jul	23,634	9,906	2,725	4,365	845	434	10,123	12,438	17,896	558	497	83,422
Aug	24,827	11,690	2,702	4,369	702	556	10,064	20,313	18,871	528	386	95,008
Sep	23,672	11,997	2,363	4,542	1,071	558	9,252	17,225	19,141	592	493	90,906
Oct	24,971	11,510	1,962	4,492	682	443	8,722	20,618	18,995	803	529	93,727
Nov	20,519	8,888	1,142	3,063	552	445	6,717	15,841	11,234	497	155	69,053
Dec	18,041	8,903	530	3,304	3,137	358	5,517	13,278	17,024		3,499	73,591
YTD	23,268	10,594	2,645	4,136	800	458	10,240	18,505	12,610	969	669	84,893

Month	2009										Total	
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat		Others
Jan	22,334	12,524	1,123	3,774	535	196	5,628	16,645	17,743	398	162	81,062
Feb	23,247	14,456	1,650	3,542	420	194	6,467	14,543	17,939	490	207	83,155
Mar	21,949	14,337	2,771	4,138	310	196	9,041	18,452	17,846	755	289	90,084
Apr	22,135	11,294	626	2,789	267	497	5,464	17,263	17,081	837	97	78,350
May	24,023	12,825	414	2,205	273	507	7,113	17,259	18,551	742	361	84,273
Jun	23,181	11,991	2,156	2,423	500	509	7,546	19,200	18,742	554	679	87,481
Jul	21,856	11,396	1,460	2,169	204	474	6,026	22,423	17,955	274	479	84,716
Aug	23,487	12,889	1,576	3,097	346	474	8,045	19,023	16,849	299	563	86,648
Sep	23,406	11,654	2,434	3,072	181	519	5,874	20,806	13,373	979	490	82,788
Oct	22,315	12,878	2,786	3,194	441	520	8,573	14,147	17,551	1,074	609	84,088
Nov	18,766	11,396	1,748	2,203	1,637	376	5,453	19,437	17,402	683	205	79,306
Dec	18,654	12,386	2,355	2,655	3,878	439	3,789	20,153	19,135	680	405	84,529
YTD	22,106	12,496	1,759	2,937	753	409	6,591	18,300	17,520	647	380	83,900

**Table 2.1.1-2M (Cont.)
Production of Condensate**

Unit : Barrels/Day

Month	2010											
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	20,493	11,964	1,418	2,719	5,169	424	3,176	19,886	16,604	424	554	82,831
Feb	22,722	10,912	1,046	2,595	3,864	384	3,051	17,283	19,533	532	307	82,229
Mar	25,100	12,312	1,980	3,601	3,769	520	4,693	20,384	20,422	359	502	93,642
Apr	21,198	12,889	2,835	1,958	3,045	429	5,966	19,509	16,829	162	182	85,002
May	21,225	10,794	5,024	3,510	1,998	486	6,050	20,097	17,464	881	429	87,958
Jun	21,034	10,887	4,617	1,529	2,472	385	7,729	20,682	17,598	4,125	66	91,124
Jul	22,135	11,643	4,811	2,375	2,227	415	8,044	19,744	17,682	2,734		91,810
Aug	23,374	11,146	4,301	2,871	1,424	422	9,175	20,014	13,392	2,621		88,740
Sep	23,291	11,000	5,457	2,750	1,863	342	8,830	16,858	16,088	2,267		88,746
Oct	23,953	9,908	5,290	2,969	1,639	421	8,832	20,124	17,439	1,435		92,010
Nov	21,848	9,876	4,562	3,233	1,350	448	7,947	19,437	19,160	1,698		89,559
Dec	22,798	10,801	3,942	2,588	1,491	451	7,065	20,525	18,065	1,529		89,255
YTD	22,435	11,180	3,789	2,730	2,519	428	6,733	19,568	17,508	1,567	170	88,627

Month	2011											
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	26,038	10,861	3,344	2,224	2,426	413	6,559	19,737	17,450	1,755		90,807
Feb	26,198	11,842	2,263	1,956	4,945	426	5,726	21,179	19,058	1,224	44	94,861
Mar	24,486	11,787	3,743	2,958	6,479	368	5,679	21,513	19,419	1,391	2	97,825
Apr	23,369	11,064	3,006	2,903	6,086	514	5,417	21,372	15,383	1,572	22	90,708
May	14,144	11,748	3,299	3,104	5,993	485	5,075	21,315	17,404	1,320	1,594	85,481
Jun	13,033	10,418	2,092	1,893	5,830	486	4,398	20,769	18,170	720	1,261	79,070
Jul	16,677	7,025	1,797	2,311	4,483	428	3,691	21,140	16,315	856	988	75,711
Aug	16,914	11,136	2,873	2,818	3,370	466	6,735	19,404	14,972	740	752	80,180
Sep	14,234	10,581	3,493	2,590	2,889	232	6,818	20,573	14,822	1,323	949	78,504
Oct	15,343	10,688	3,127	2,662	3,082	278	6,667	20,270	13,967	1,010	835	77,929
Nov	13,033	9,673	2,701	2,905	2,571	213	5,016	18,858	12,873	1,584	8,388	77,815
Dec	13,619	9,668	2,822	3,103	4,361	249	4,320	20,582	10,146	1,010	11,567	81,447
YTD	18,048	10,531	2,886	2,625	4,372	380	5,508	20,556	15,811	1,208	2,213	84,136

**Table 2.1.1-2M (Cont.)
Production of Condensate**

Unit : Barrels/Day

Month	2012											Total
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhoorn	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	
Jan	12,262	9,463	2,587	3,316	3,438	445	4,952	20,422	9,344	1,485	12,973	80,687
Feb	11,746	9,861	2,708	3,320	2,527	262	7,410	19,558	10,238	1,144	10,025	78,799
Mar	12,285	10,192	2,639	4,081	2,180	382	7,652	23,010	9,703	1,322	11,537	84,983
Apr	11,743	10,286	2,855	4,145	2,571	370	6,646	23,985	12,460	1,154	11,019	87,234
May	12,184	10,059	2,217	3,003	4,635	541	5,713	22,903	9,002	938	14,773	85,968
Jun	10,744	10,286	1,831	3,137	5,065	502	5,861	20,936	11,503	2,404	14,494	86,763
Jul	11,242	10,520	1,523	5,175	3,163	547	8,146	33,893	11,431	1,414	9,850	96,904
Aug	13,760	6,100	1,532	3,542	1,957	400	9,774	33,421	12,705	698	9,319	93,208
Sep	12,158	7,630	1,873	5,110	3,685	300	9,410	32,859	10,238	1,211	10,059	94,533
Oct	11,123	7,982	3,124	4,939	4,489	323	7,250	32,846	9,951	1,518	12,468	96,013
Nov	11,681	8,550	2,482	3,867	4,085	591	12,017	30,875	10,001	2,234	11,620	98,003
Dec	11,357	7,450	2,769	3,162	3,630	541	9,323	33,076	10,047	1,567	9,211	92,133
YTD	11,861	9,025	2,344	3,901	3,453	435	7,842	27,359	10,548	1,422	11,450	89,639

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning office (EPPO)

Table 2.1.2-1M
Import of Crude Oil Classified by Sources

Unit : Million Litres

2008													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	3,633	3,183	3,913	2,957	3,684	3,010	2,982	3,637	2,730	3,745	2,298	3,373	39,145
Far East	326	352	324	579	485	239	162	178	100	84	132	383	3,344
Others	304	710	416	424	162	441	595	362	481	317	252	273	4,736
Total	4,263	4,245	4,653	3,960	4,330	3,690	3,739	4,176	3,311	4,146	2,682	4,030	47,225
2009													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,946	2,157	3,892	3,139	2,961	3,514	2,772	3,256	3,440	2,690	3,064	2,770	36,601
Far East	541	496	638	716	709	366	461	390	368	575	461	302	6,025
Others	239	228	274	145	300	343	453	88	452	621	513	337	3,995
Total	3,726	2,882	4,804	4,000	3,970	4,224	3,686	3,734	4,261	3,887	4,037	3,409	46,620
2010													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,809	2,990	2,768	3,025	2,637	2,960	2,788	2,906	2,740	2,703	3,047	3,023	34,397
Far East	426	686	326	469	316	314	471	418	221	48	121	433	4,250
Others	581	67	532	1,034	694	892	594	735	823	909	898	958	8,718
Total	3,816	3,744	3,627	4,528	3,647	4,166	3,853	4,059	3,785	3,661	4,065	4,414	47,365
2011													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,277	2,098	3,071	2,962	3,546	2,658	3,111	3,741	2,976	3,213	2,981	3,092	35,725
Far East	475	101	94	515	245	252	287	436	272	261	495	283	3,716
Others	1,045	1,009	712	671	631	718	655	328	380	67	185	250	6,648
Total	3,797	3,207	3,877	4,148	4,422	3,627	4,053	4,505	3,628	3,541	3,661	3,625	46,090
2012													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	3,537	3,166	3,484	3,165	2,773	3,362	2,748	3,127	2,628	3,344	2,892	3,234	37,460
Far East	257	440	509	320	385	38	206	252	315	450	342	508	4,022
Others	672	883	725	804	1,029	737	1,046	548	676	534	434	489	8,575
Total	4,466	4,488	4,718	4,289	4,187	4,137	4,000	3,926	3,618	4,327	3,668	4,231	50,056

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1M
Material Intake by Refinery

Unit : Barrels/Day

2008									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC	Total	
Jan	260,756	71,522	137,983	185,440	156,402	156,402	11,552	980,057	
Feb	268,849	18,605	149,647	182,049	157,646	157,646	14,116	948,561	
Mar	281,982	89,858	141,679	176,493	145,208	145,208	13,578	994,005	
Apr	280,288	87,298	156,031	181,478	156,300	156,300	11,453	1,029,148	
May	283,271	79,318	150,738	178,172	153,212	153,212	11,521	1,009,444	
Jun	284,910	83,067	155,529	187,990	74,616	74,616	12,846	873,575	
Jul	281,622	77,985	123,405	176,086	143,180	143,180	12,787	958,245	
Aug	255,302	71,354	136,150	144,900	123,112	123,112	5,318	859,247	
Sep	221,823	72,068	133,765	163,538	100,524	100,524	12,344	804,585	
Oct	291,546	70,313	128,801	167,601	136,823	136,823	13,417	945,324	
Nov	288,065	80,986	141,485	159,038	62,392	62,392	11,182	805,539	
Dec	272,620	77,511	138,624	159,495	118,256	118,256	8,092	892,855	
YTD	272,648	73,540	141,046	171,788	127,455	127,455	11,498	925,432	
2009									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC	Total	
Jan	275,497	79,034	140,722	102,001	135,780	153,916	8,742	895,692	
Feb	281,149	96,003	141,430	60,011	144,470	148,293	9,964	881,320	
Mar	280,573	89,528	152,348	158,352	150,411	153,092	14,176	998,481	
Apr	271,846	95,418	141,552	149,691	140,085	156,241	10,023	964,856	
May	250,887	97,194	143,181	148,486	134,662	156,996	9,819	941,225	
Jun	275,051	81,742	145,380	152,604	134,312	154,045	7,233	950,366	
Jul	277,059	90,021	140,477	145,168	122,464	166,812	11,376	953,378	
Aug	270,623	89,092	104,860	145,481	149,849	140,002	10,136	910,044	
Sep	267,370	86,134	135,964	168,653	146,271	158,899	10,957	974,247	
Oct	268,514	75,325	130,423	144,235	151,103	150,531	11,606	931,737	
Nov	243,282	86,156	133,719	161,464	151,249	133,496	8,700	918,066	
Dec	257,041	56,881	140,605	143,971	151,178	157,199	9,925	916,800	
YTD	268,177	85,098	137,506	140,469	142,634	152,514	10,234	936,633	

Table 2.2-1M (Cont.)
Material Intake by Refinery

Unit : Barrels/Day

2010									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC	Total	
Jan	230,660	78,691	130,239	168,489	141,955	181,355	8,518	939,908	
Feb	260,212	88,099	99,378	153,928	125,426	148,357	11,079	886,480	
Mar	264,759	98,340	121,060	182,762	149,534	170,033	12,164	998,652	
Apr	250,187	74,041	122,232	172,553	152,223	164,437	13,297	948,970	
May	249,128	88,107	132,047	173,021	152,507	158,966	11,948	965,724	
Jun	256,714	87,841	129,206	170,686	150,123	162,414	1,237	958,221	
Jul	256,916	88,802	117,338	177,610	151,848	177,453	11,864	981,833	
Aug	268,415	90,074	127,237	161,807	153,217	159,737	12,159	972,644	
Sep	254,286	91,928	121,071	174,892	138,450	160,876	11,870	953,374	
Oct	268,634	95,061	131,349	174,863	151,560	133,143	11,352	965,963	
Nov	251,130	88,715	125,550	179,407	146,732	170,822	10,967	973,323	
Dec	245,801	89,930	136,755	180,486	136,176	159,333	11,286	959,769	
YTD	255,423	88,575	124,933	173,097	146,312	162,738	10,686	961,764	

2011									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC	Total	
Jan	287,972	95,283	135,083	162,917	152,795	167,755	12,283	1,014,087	
Feb	276,968	7,102	134,289	166,230	17,670	142,640	11,971	756,870	
Mar	282,488	109,430	131,887	170,985	87,831	147,809	12,434	942,865	
Apr	258,684	106,372	133,866	165,957	140,242	156,500	12,372	973,992	
May	257,711	90,380	134,102	187,303	148,524	149,717	12,160	979,896	
Jun	276,239	101,468	134,094	152,103	151,224	148,682	8,874	972,684	
Jul	263,467	98,523	133,659	163,923	148,185	176,087	11,090	994,933	
Aug	280,281	86,636	119,329	176,501	147,789	158,617	12,583	981,738	
Sep	283,963	86,772	74,754	181,110	146,074	127,700	11,438	911,812	
Oct	268,567	93,869	1,962	189,344	161,459	133,152	10,137	858,489	
Nov	284,531	92,101	57,928	9,717	147,959	193,095	9,510	794,841	
Dec	276,364	103,713	128,223	159,765	151,162	171,954	12,864	1,004,045	
YTD	275,498	89,918	110,206	157,863	134,267	156,640	11,515	935,909	

**Table 2.2-1M (Cont.)
Material Intake by Refinery**

Unit : Barrels/Day

Month	2012										Total
	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC				
Jan	281,034	96,464	134,888	177,499	150,995	163,265	11,585			1,015,732	
Feb	278,190	104,934	134,087	186,972	143,693	163,668	2,038			1,013,582	
Mar	273,448	106,317	144,230	192,910	164,312	148,283				1,029,500	
Apr	273,955	99,994	143,059	179,732	147,002	162,474				1,006,216	
May	264,117	88,622	146,779	169,177	145,602	165,569				979,866	
Jun	281,448	33,656	145,717	162,874	133,207	163,765				920,667	
Jul	269,626	34,734	137,592	168,987	144,046	166,913	142			922,041	
Aug	256,216	50,302	147,079	185,162	148,598	162,433				949,790	
Sep	256,892	48,831	138,131	182,360	149,008	166,320				941,542	
Oct	275,457	49,057	139,692	148,453	150,099	161,561				924,319	
Nov	273,226	97,471	143,743	178,786	143,042	165,509				1,001,777	
Dec	271,680	111,338	151,579	167,032	148,857	166,615				1,017,101	
YTD	271,235	76,731	142,254	174,920	147,439	163,012	1,155			976,745	

Remark : Since mid of December 2007 RRC merged with ATC to form PTTAR.

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

**Table 2.3.1-1M (Cont.)
Production of Petroleum Products**

Unit : Million Litres

Month	Gasoline			Total	Kerosene	Diesel		LSD	J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium			Total	HSD					
Jan	725.9	542.0	183.9	2,073.3	0.9	2,073.3	2,073.3	494.3	516.8	934.5	4,745.5	
Feb	707.7	525.5	182.2	2,101.7	9.2	2,101.7	2,101.7	564.2	536.5	713.5	4,632.7	
Mar	837.6	641.8	195.8	2,085.0	15.2	2,085.0	2,085.0	500.9	560.8	891.8	4,891.3	
Apr	756.1	570.4	185.7	2,193.9	1.2	2,193.9	2,193.9	498.1	515.6	934.5	4,899.3	
May	776.7	592.9	183.8	2,152.9	23.3	2,152.9	2,152.9	475.2	528.2	973.7	4,930.0	
Jun	773.8	582.6	191.1	2,014.5	11.3	2,014.5	2,014.5	413.2	491.3	925.6	4,629.6	
Jul	742.5	527.3	215.3	1,915.3	0.3	1,915.3	1,915.3	478.3	497.4	967.9	4,601.7	
Aug	733.5	523.9	209.6	2,042.6	8.2	2,042.6	2,042.6	455.2	507.1	968.4	4,714.9	
Sep	741.2	516.8	224.4	2,125.0	3.5	2,125.0	2,125.0	448.0	471.6	919.1	4,708.4	
Oct	754.8	526.5	228.2	1,913.7	0.3	1,913.7	1,913.7	467.4	495.5	981.8	4,613.4	
Nov	788.8	565.6	223.2	2,200.8	2.2	2,200.8	2,200.8	508.7	496.7	970.1	4,967.2	
Dec	811.5	531.4	280.1	2,305.9	0.4	2,305.9	2,305.9	554.3	520.6	1,020.9	5,213.5	
YTD	9,150.1	6,646.8	2,503.3	25,124.6	75.9	25,124.6	25,124.6	5,857.8	6,138.1	11,201.7	57,548.1	

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1 -2M (Cont.)
Production of Petroleum Products

Unit : Barrels/Day

Month	2012												Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total			
	Total	Regular	Premium	Total	HSD	LSD							
Jan	147,280.5	109,968.3	37,312.1	182.6	420,659.4	420,659.4	100,290.3	104,855.4	189,604.1	962,847.9			
Feb	158,972.2	118,044.2	40,928.0	2,066.6	472,109.6	472,109.6	126,737.5	120,515.2	160,275.1	1,040,667.3			
Mar	169,943.7	130,217.1	39,726.5	3,083.9	423,033.3	423,033.3	101,629.4	113,782.7	180,940.5	992,415.1			
Apr	158,521.5	119,588.2	38,933.2	251.5	459,966.0	459,966.0	104,430.0	108,099.0	195,924.2	1,027,182.4			
May	157,587.5	120,295.6	37,291.8	4,727.4	436,809.7	436,809.7	96,415.0	107,168.4	197,557.5	1,000,281.1			
Jun	162,232.4	122,146.0	40,085.4	2,369.1	422,353.6	422,353.6	86,630.1	103,004.3	194,058.3	970,640.8			
Jul	150,648.5	106,985.8	43,663.0	60.8	388,602.2	388,602.2	97,044.0	100,919.3	196,380.7	933,659.7			
Aug	148,822.5	106,295.9	42,526.5	1,663.7	414,430.6	414,430.6	92,357.1	102,887.3	196,482.2	956,632.2			
Sep	155,397.6	108,350.6	47,046.9	733.7	445,520.6	445,520.6	93,926.2	98,874.1	192,695.5	987,149.5			
Oct	153,144.1	106,823.5	46,300.3	60.8	388,277.6	388,277.6	94,832.5	100,533.8	199,201.0	936,047.0			
Nov	165,377.2	118,581.8	46,795.3	461.2	461,412.6	461,412.6	106,652.4	104,136.5	203,388.0	1,041,417.4			
Dec	164,648.2	107,817.6	56,830.5	81.1	467,852.5	467,852.5	112,463.9	105,626.4	207,134.1	1,057,805.8			
YTD	157,244.3	114,225.1	43,019.1	1,304.3	431,765.8	431,765.8	100,666.1	105,483.1	192,501.0	988,963.8			

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1M (Cont.)
Sale of Petroleum Products

Unit : Million Litres

Month	Gasoline			Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium		Total	HSD				
Jan	605.8	349.6	256.2	1.8	1,565.5	1,565.5	433.6	210.2	625.0	3,441.9
Feb	591.6	351.7	240.0	1.4	1,546.2	1,546.2	398.1	296.0	589.0	3,422.2
Mar	620.3	376.2	244.1	1.5	1,688.0	1,688.0	436.0	292.4	638.8	3,677.0
Apr	607.4	367.3	240.1	1.1	1,548.3	1,548.3	383.4	218.9	598.5	3,357.5
May	599.1	365.7	233.5	1.9	1,588.3	1,588.3	342.0	223.7	613.2	3,368.1
Jun	617.0	377.0	240.0	1.1	1,508.8	1,508.8	340.6	206.2	621.5	3,295.2
Jul	636.6	388.3	248.4	1.0	1,516.6	1,516.6	365.2	250.8	645.2	3,415.4
Aug	619.0	377.3	241.8	0.9	1,431.3	1,431.3	396.9	215.6	649.9	3,313.6
Sep	607.4	373.5	233.9	1.1	1,404.0	1,404.0	369.4	198.5	634.8	3,215.0
Oct	615.7	378.7	237.1	1.2	1,435.1	1,435.1	398.7	193.7	647.0	3,291.3
Nov	632.0	391.2	240.8	1.1	1,582.6	1,582.6	406.4	200.0	648.0	3,470.1
Dec	664.6	412.7	251.9	1.1	1,665.5	1,665.5	441.5	109.3	676.5	3,558.4
Total	7,416.8	4,509.2	2,907.6	15.3	18,480.1	18,480.1	4,711.7	2,615.2	7,587.3	40,826.2

Month	Gasoline			Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium		Total	HSD				
Jan	631.7	395.4	236.2	1.0	1,623.5	1,623.5	481.0	184.1	670.1	3,591.5
Feb	596.1	375.4	220.7	1.0	1,492.2	1,492.2	435.1	210.4	613.1	3,347.9
Mar	615.3	388.5	226.8	1.1	1,704.6	1,704.6	476.6	207.1	696.9	3,701.5
Apr	617.8	389.9	227.9	1.0	1,658.1	1,658.1	425.7	189.6	660.1	3,552.3
May	611.3	387.9	223.4	0.9	1,686.4	1,686.4	387.6	177.5	695.8	3,559.4
Jun	622.8	399.3	223.5	1.0	1,606.5	1,606.5	382.6	226.3	688.7	3,527.9
Jul	612.7	390.0	222.7	1.2	1,520.6	1,520.6	409.8	283.2	714.2	3,541.6
Aug	633.4	419.9	213.5	1.2	1,536.3	1,536.3	416.6	212.0	737.0	3,536.4
Sep	601.5	447.8	153.6	1.2	1,500.3	1,500.3	396.7	225.2	703.6	3,428.4
Oct	575.2	440.6	134.6	1.1	1,499.8	1,499.8	408.8	213.2	662.7	3,360.9
Nov	555.4	425.1	130.3	1.1	1,573.1	1,573.1	410.6	150.1	607.4	3,297.6
Dec	657.9	476.9	181.0	1.1	1,790.9	1,790.9	445.4	177.3	728.3	3,800.7
Total	7,331.1	4,936.8	2,394.3	13.0	19,192.1	19,192.1	5,076.5	2,455.9	8,178.0	42,246.7

Oil

Table 2.3.2-1M (Cont.)
Sale of Petroleum Products

Unit : Million Litres

Month	Gasoline		Kerosene	Total	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular			Premium	HSD				
Jan	633.6	453.5	180.1	1,694.6	1,694.6		488.8	187.6	729.7	3,735.5
Feb	605.8	431.7	174.0	1,695.9	1,695.9		458.0	167.3	698.6	3,627.0
Mar	639.9	457.0	182.9	1,829.6	1,829.6		472.4	169.0	754.4	3,866.6
Apr	614.7	432.5	182.2	1,723.0	1,723.0		404.7	237.0	713.4	3,694.0
May	632.2	446.3	185.9	1,806.4	1,806.4		381.9	329.4	752.5	3,903.6
Jun	634.6	445.8	188.8	1,700.2	1,700.2		377.0	214.6	731.3	3,658.7
Jul	635.2	440.1	195.1	1,649.6	1,649.6		395.6	205.8	754.6	3,641.7
Aug	645.7	439.9	205.8	1,656.0	1,656.0		406.6	182.4	768.6	3,660.1
Sep	608.8	412.0	196.8	1,553.5	1,553.5		385.0	160.5	737.7	3,446.3
Oct	654.2	443.5	210.7	1,666.0	1,666.0		412.7	188.6	769.4	3,691.9
Nov	670.1	448.8	221.2	1,753.8	1,753.8		437.2	169.1	747.5	3,778.9
Dec	730.3	477.7	252.5	1,836.1	1,836.1		471.4	152.0	772.1	3,962.9
Total	7,705.0	5,328.9	2,376.0	20,564.6	20,564.6		5,091.4	2,363.3	8,929.8	44,667.5

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG and Propane used as Feedstock in Petrochemical Industries

**Table 2.3.2-2M
Sale of Petroleum Products**

Unit : Barrels/Day

2008											
Month	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD				
Jan	122,223.1	75,131.5	47,091.6	324.6	330,534.0	330,250.0	284.0	92,681.8	61,781.1	110,617.6	718,177.5
Feb	129,994.6	79,497.3	50,474.8	314.4	341,800.4	341,306.2	494.1	99,040.3	61,347.0	116,022.5	748,499.3
Mar	122,486.9	75,841.6	46,645.2	284.0	344,148.2	343,742.4	385.4	87,852.9	72,798.2	111,104.5	738,685.4
Apr	126,464.9	78,474.5	47,990.4	314.4	338,197.3	337,924.8	272.5	85,980.2	92,186.0	110,090.7	753,265.9
May	117,434.8	73,548.9	43,885.9	304.3	314,241.7	313,856.2	385.4	80,569.0	58,737.7	115,913.1	687,207.0
Jun	117,135.2	74,281.4	42,874.8	293.5	285,489.6	285,363.8	125.7	79,145.4	48,535.5	116,841.7	647,465.9
Jul	113,316.1	71,114.2	42,201.8	243.4	252,825.8	252,825.8	20.2	75,374.9	50,033.5	125,834.6	617,641.6
Aug	119,362.3	72,027.2	47,335.0	243.4	268,894.9	268,894.9	74,888.0	74,888.0	52,245.1	123,562.2	639,176.1
Sep	119,106.0	70,046.3	49,059.6	251.5	267,563.9	267,563.9	70,486.6	70,486.6	49,143.5	124,997.3	631,553.5
Oct	121,715.9	71,154.8	50,561.1	223.1	282,996.0	282,996.0	78,519.8	78,519.8	45,995.9	125,611.4	655,068.5
Nov	125,374.7	72,059.0	53,315.7	209.6	294,127.5	294,127.5	118,770.5	70,360.8	42,623.2	118,770.5	651,465.8
Dec	138,434.3	78,803.9	59,630.4	223.1	330,128.2	330,128.2	65,250.6	65,250.6	44,981.5	112,463.9	691,475.7
YTD	122,367.3	74,091.3	48,276.0	269.8	303,194.6	303,033.1	161.5	79,678.1	56,492.1	117,345.9	679,346.7

2009											
Month	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD				
Jan	134,964.8	76,754.6	58,210.1	202.8	348,591.6	348,591.6	80,386.4	80,386.4	45,935.1	113,133.5	723,233.6
Feb	132,196.0	74,914.8	57,281.2	314.4	323,313.2	323,313.2	81,923.3	81,923.3	47,666.9	109,800.2	695,210.0
Mar	134,315.6	75,679.3	58,636.2	344.9	330,128.2	330,128.2	82,111.0	82,111.0	43,480.1	113,397.2	703,759.1
Apr	133,027.2	74,910.3	58,095.8	251.5	332,788.2	332,788.2	72,226.7	72,226.7	40,883.0	111,369.6	690,547.2
May	132,286.6	74,644.5	57,642.0	263.7	336,864.3	336,864.3	70,850.4	70,850.4	43,622.1	113,052.3	696,959.5
Jun	127,450.3	72,415.4	55,034.9	293.5	305,931.1	305,931.1	67,509.4	67,509.4	45,432.6	117,994.8	664,627.9
Jul	128,005.6	73,366.3	54,639.2	263.7	298,659.4	298,659.4	72,291.0	72,291.0	44,393.1	121,269.5	664,889.2
Aug	125,063.6	71,601.1	53,462.4	284.0	293,445.1	293,445.1	73,630.1	73,630.1	45,529.3	123,886.8	661,856.6
Sep	125,815.0	72,604.1	53,210.8	356.4	292,345.4	292,345.4	72,646.0	72,646.0	48,325.8	123,194.3	662,682.9
Oct	126,463.6	72,656.2	53,807.4	344.9	298,720.3	298,720.3	76,632.9	76,632.9	59,894.2	124,089.7	686,163.6
Nov	123,089.5	71,115.5	51,994.8	335.4	309,013.1	309,013.1	81,850.0	81,850.0	46,690.5	125,815.0	686,804.5
Dec	133,179.4	76,693.8	56,485.5	385.4	347,962.6	347,962.6	84,464.6	84,464.6	52,691.4	127,843.3	746,522.6
YTD	129,660.9	73,953.1	55,707.8	303.2	318,195.2	318,195.2	76,363.8	76,363.8	47,059.0	118,803.0	690,385.4

Table 2.3.2-2M (Cont.)
Sale of Petroleum Products

Unit : Barrels/Day

Month	2010											
	Gasoline			Kerosene			Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD					
Jan	122,912.9	70,931.6	51,981.3	365.2	317,630.0	317,630.0	87,974.6	42,648.2	126,808.5	698,356.4		
Feb	132,892.4	79,003.1	53,911.7	314.4	347,326.4	347,326.4	89,426.1	66,491.1	132,308.4	768,756.6		
Mar	125,854.9	76,328.5	49,526.3	304.3	342,484.5	342,484.5	88,461.6	59,326.1	129,608.4	746,041.0		
Apr	127,345.5	77,006.9	50,338.5	230.6	324,611.6	324,611.6	80,382.4	45,893.8	125,479.5	703,931.2		
May	121,553.5	74,198.2	47,375.6	385.4	322,256.0	322,256.0	69,389.6	45,387.3	124,414.3	683,378.7		
Jun	129,358.2	79,040.6	50,317.6	230.6	316,330.1	316,330.1	71,409.1	43,231.2	130,301.6	690,864.6		
Jul	129,162.1	78,783.6	50,398.7	202.8	307,708.5	307,708.5	74,096.7	50,885.7	130,906.9	692,969.7		
Aug	125,591.1	76,551.7	49,059.6	182.6	290,401.7	290,401.7	80,528.4	43,743.8	131,860.5	672,311.8		
Sep	127,345.5	78,306.8	49,038.7	230.6	294,358.1	294,358.1	77,447.2	41,616.8	133,090.1	674,058.5		
Oct	124,921.6	76,835.8	48,106.0	243.4	291,172.7	291,172.7	80,893.7	39,300.5	131,272.2	667,793.5		
Nov	132,503.0	82,017.7	50,485.3	230.6	331,802.8	331,802.8	85,204.5	41,931.3	135,857.6	727,531.2		
Dec	134,843.1	83,734.2	51,108.9	223.1	337,919.4	337,919.4	89,577.5	22,176.2	137,257.5	721,996.1		
YTD	127,806.7	77,702.8	50,103.9	263.6	318,450.2	318,450.2	81,192.3	45,065.2	130,744.8	703,520.6		

Month	2011											
	Gasoline			Kerosene			Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD					
Jan	128,167.9	80,224.1	47,923.4	202.8	329,397.8	329,397.8	97,591.8	37,352.7	135,959.0	728,708.8		
Feb	133,903.3	84,326.9	49,576.3	224.6	335,196.2	335,196.2	97,737.5	47,262.6	137,722.0	752,048.8		
Mar	124,840.4	78,824.1	46,016.2	223.1	345,852.5	345,852.5	96,699.1	42,019.2	141,396.5	751,028.2		
Apr	129,525.9	81,745.1	47,780.7	209.6	347,631.9	347,631.9	89,250.8	39,750.9	138,394.4	744,780.9		
May	124,028.9	78,702.4	45,326.4	182.6	342,159.8	342,159.8	78,641.5	36,013.6	141,173.4	722,198.4		
Jun	130,574.2	83,715.9	46,858.2	209.6	336,813.6	336,813.6	80,214.6	47,445.3	144,390.6	739,657.8		
Jul	124,312.9	79,128.5	45,184.4	243.4	308,520.1	308,520.1	83,145.8	57,459.4	144,906.6	718,579.8		
Aug	128,512.8	85,195.0	43,317.7	243.4	311,705.5	311,705.5	84,525.5	43,013.4	149,532.6	717,521.9		
Sep	126,108.5	93,884.3	32,203.2	251.5	314,548.0	314,548.0	83,170.8	47,214.7	147,514.5	718,791.0		
Oct	116,704.4	89,394.9	27,309.4	223.1	304,299.9	304,299.9	82,942.9	43,256.9	134,457.6	681,911.0		
Nov	116,443.3	89,125.1	27,318.2	230.6	329,811.0	329,811.0	86,085.0	31,469.4	127,345.5	691,369.9		
Dec	133,483.7	96,759.9	36,723.7	223.1	363,362.2	363,362.2	90,368.8	35,973.0	147,767.4	771,147.6		
YTD	126,329.9	85,071.2	41,258.7	224.0	330,719.5	330,719.5	87,478.5	42,320.2	140,923.8	727,998.1		

**Table 2.3.2-2M (Cont.)
Sale of Petroleum Products**

Unit : Barrels/Day

Month	2012										Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	128,269.3	90,551.4	37,717.9	263.7	366,507.1	366,507.1	77,485.0	66,833.1	152,677.4	792,024.8	
Feb	133,048.2	93,464.9	39,583.2	209.6	356,458.4	356,458.4	79,040.6	44,992.3	153,322.0	767,072.8	
Mar	128,878.0	89,293.5	39,584.5	202.8	334,693.3	334,693.3	80,264.7	41,755.5	153,103.5	738,880.8	
Apr	131,008.4	89,252.9	41,755.5	182.6	335,991.9	335,991.9	82,496.5	37,007.8	155,944.0	742,616.4	
May	127,639.0	86,378.5	41,260.4	188.6	325,701.8	325,701.8	80,717.8	33,649.9	154,663.8	722,549.7	
Jun	132,733.0	89,983.3	42,749.6	202.8	338,020.8	338,020.8	83,734.2	38,265.7	156,106.3	749,069.1	
Jul	140,491.0	94,093.9	46,376.0	251.5	367,696.0	367,696.0	91,661.9	35,452.9	156,718.4	792,275.4	
Aug	148,173.2	96,922.3	51,230.6	202.8	372,533.0	372,533.0	96,644.0	30,839.8	156,654.2	804,054.5	
Sep	139,124.1	69,389.6	69,754.8	223.1	374,338.8	374,338.8	100,209.1	35,344.0	154,178.8	803,399.7	
Oct	139,631.4	57,730.4	81,923.3	202.1	378,819.8	378,819.8	104,656.1	41,332.3	158,635.3	823,283.8	
Nov	142,654.5	58,514.5	84,119.7	202.8	386,715.3	386,715.3	100,939.6	39,726.5	154,990.4	825,211.0	
Dec	145,040.5	59,269.9	85,749.6	167.7	373,440.6	373,440.6	93,318.2	50,967.5	151,623.7	814,565.5	
YTD	132,410.2	91,577.0	40,831.5	230.2	353,402.3	353,402.3	87,495.6	40,613.2	153,458.4	767,611.9	

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 2.3.3-1M
Import of Petroleum Products

Unit : Million Litres

Month	2008										
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG	Total	HSD	LSD				
Jan							8.1				8.0
Feb					2.4	2.4	0.2				2.6
Mar					6.1	6.1	0.2	58.1			64.4
Apr					58.5	58.5	0.3	190.4	39.8		289.0
May					3.0	3.0	0.2	5.7			8.9
Jun							0.3				0.2
Jul							0.1		203.6		203.7
Aug					8.3	8.3	0.3		126.3		126.5
Sep					2.2	2.2	36.8		128.5		173.6
Oct					3.0	3.0	0.4		165.9		168.4
Nov					6.0	6.0	0.2		173.1		176.4
Dec					89.6	89.6	0.6				6.6
Total					89.6	89.6	47.9	254.3	837.2		1,229.0

Month	2009										
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG	Total	HSD	LSD				
Jan							0.2			37.0	59.8
Feb	6.6	6.6			120.6	120.6					127.2
Mar	7.5	7.5			201.2	201.2	0.3		42.5		251.4
Apr					3.0	3.0	0.3		26.5		29.7
May					4.3	4.3	0.3		123.8		128.3
Jun					5.9	5.9	8.3		81.3		95.5
Jul					3.0	3.0	0.2		125.3		128.5
Aug					6.1	6.1	0.3	6.6	168.0		180.9
Sep					3.0	3.0	0.2	15.4	166.2		184.7
Oct					3.1	3.1	0.2	18.0	207.0		228.2
Nov					6.2	6.2	0.2	43.2	206.9		256.5
Dec					6.1	6.1	0.1		210.2		216.4
Total	14.1	14.1			385.3	385.3	10.5	83.2	1,394.7		1,887.7

**Table 2.3.3-1M (Cont.)
Import of Petroleum Products**

Unit : Million Litres

Month	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG	Total	HSD	HSD	LSD				
Jan	3.0				3.0	3.0			0.3		203.6	206.9
Feb	6.0				6.0	6.0			0.2	1.5	206.8	214.5
Mar	3.1				3.1	3.1			0.3	47.6	233.3	284.2
Apr	6.0				6.0	6.0			0.4	1.5	232.3	240.1
May	6.0				6.0	6.0			0.5		327.7	334.1
Jun	6.0				6.0	6.0			0.1	3.2	240.7	249.9
Jul	3.1				3.1	3.1			0.4	20.2	168.2	191.9
Aug	3.1				3.1	3.1			0.2	20.2	252.4	275.6
Sep	6.4				6.4	6.4			0.2	6.9	251.2	264.6
Oct	6.3				6.3	6.3			0.3		275.7	282.3
Nov	6.3				6.3	6.3			0.2		264.9	271.3
Dec	6.2				6.2	6.2			0.2		290.3	296.8
Total	61.2				61.2	61.2			3.3	101.2	2,947.1	3,112.8
2011												
Month	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG	Total	HSD	HSD	LSD				
Jan									0.3	12.9	211.3	224.4
Feb	17.3				17.3	17.3			8.2	6.3	210.7	242.4
Mar	8.2				8.2	8.2				14.7	167.3	190.2
Apr	9.5			9.5	3.9	3.9			0.5	61.8	137.4	213.0
May									0.2	5.1	213.7	218.9
Jun	3.0				3.8	3.8			0.3		317.2	321.3
Jul				3.0	13.0	13.0			0.2	53.6	272.0	341.8
Aug									0.2	56.0	294.3	350.4
Sep									0.3	51.0	202.1	253.3
Oct	3.1			3.1					0.2	54.1	260.1	317.5
Nov	18.5	18.5			9.7	9.7			0.2	8.9	165.1	202.4
Dec									0.3	7.3	210.0	217.5
Total	34.1	18.5		15.6	56.0	56.0			10.8	331.7	2,661.2	3,093.7

Table 2.3.3-1M (Cont.)
Import of Petroleum Products

Unit : Million Litres

Month	2012										Total	
	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil		LPG*
	Total	Regular	Premium	Base ULG	Total	HSD	LSD					
Jan	7.5			7.5					0.2	6.1	209.7	223.5
Feb	38.7	7.7		31.0	5.1	5.1			0.2	5.5	295.9	345.3
Mar	42.3			42.3					0.3	12.6	308.6	363.7
Apr	14.4			14.4					0.3	65.9	341.7	422.2
May									0.2	59.2	213.4	272.7
Jun	8.1			8.1					0.3	49.0	244.7	302.0
Jul	32.8	12.5		20.3	10.2	10.2			0.3	55.1	197.2	295.5
Aug	46.1	8.6		37.5					0.3	27.1	334.0	407.3
Sep	31.5			31.5					0.3	29.0	334.5	395.2
Oct									0.2	37.0	257.0	294.2
Nov	26.5	13.7		12.8					0.2	16.0	254.4	297.1
Dec	64.8	27.7		37.1					0.3		213.3	278.3
Total	312.7	70.2		242.5	15.3	15.3			2.8	362.5	3,204.3	3,897.5

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.3-2M
Import of Petroleum Products

Unit : Barrels/Day

Month	Gasoline						Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total		Regular	Premium	Base ULG	Total		HSD	LSD					
	Regular	Premium	Base ULG	Total	HSD	LSD								
Jan										1,643.4			1,642.6	
Feb						539.1		539.1		44.9			605.1	
Mar						1,237.6		1,237.6		40.5	11,788.1		13,067.1	
Apr						12,264.9		12,264.9		62.8	39,918.6	8,344.3	60,607.8	
May						608.6		608.6		40.5	1,156.4		1,818.5	
Jun										62.8			56.1	
Jul										20.2		41,309.1	41,336.3	
Aug										60.8		25,625.4	25,679.4	
Sep						1,740.1		1,740.1		7,715.3		26,940.8	36,405.6	
Oct						446.3		446.3		81.1		33,660.0	34,183.9	
Nov						628.9		628.9		41.9		36,291.5	36,989.9	
Dec						1,217.3		1,217.3		121.7			1,347.0	
YTD						1,539.7		1,539.7		823.1	4,370.1	14,387.2	21,120.3	
2009														
Month	Gasoline						Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total		Regular	Premium	Base ULG	Total		HSD	LSD					
	Regular	Premium	Base ULG	Total	HSD	LSD								
Jan						4,585.3		4,585.3		40.5		7,507.0	12,145.9	
Feb	1,482.5		1,482.5			27,090.6		27,090.6					28,585.8	
Mar	1,521.7		1,521.7			40,822.2		40,822.2		60.8		8,622.9	51,012.5	
Apr						628.9		628.9		62.8		5,555.9	6,246.5	
May						872.4		872.4		60.8		25,118.2	26,049.6	
Jun						1,236.9		1,236.9		1,740.1		17,045.0	20,023.1	
Jul						608.6		608.6		40.5		25,422.5	26,078.1	
Aug						1,237.6		1,237.6		60.8	1,339.0	34,086.1	36,721.5	
Sep						628.9		628.9		41.9	3,228.7	34,844.9	38,743.5	
Oct						628.9		628.9		40.5	3,652.0	41,998.9	46,312.2	
Nov						1,299.8		1,299.8		41.9	9,057.1	43,377.9	53,783.2	
Dec						1,237.6		1,237.6		20.2		42,648.2	43,907.6	
YTD	242.9		242.9			6,639.5		6,639.5		180.9	1,433.7	24,033.5	32,529.7	

**Table 2.3.3-2M (Cont.)
Import of Petroleum Products**

Unit : Barrels/Day

Month	2010						J.P.	LPG*	Fuel Oil	Total	
	Gasoline			Kerosene		Diesel					
	Total	Regular	Premium	Base ULG	Total	HSD					LSD
Jan					608.6	608.6	60.8		41,309.1	41,995.1	
Feb					1,347.7	1,347.7	44.9	336.9	46,453.9	48,185.7	
Mar					628.9	628.9	60.8	9,657.7	47,335.0	57,680.9	
Apr					1,257.9	1,257.9	83.8	314.4	48,703.2	50,348.8	
May					1,217.3	1,217.3	101.4		66,488.2	67,800.0	
Jun					1,257.9	1,257.9	20.9	670.9	50,464.3	52,406.7	
Jul					628.9	628.9	81.1	4,098.4	34,126.7	38,936.7	
Aug					628.9	628.9		4,098.4	51,210.3	55,933.8	
Sep					1,341.8	1,341.8	41.9	1,446.6	52,665.7	55,494.1	
Oct					1,278.2	1,278.2	60.8		55,937.7	57,278.0	
Nov					1,320.8	1,320.8	41.9		55,538.0	56,891.1	
Dec					1,257.9	1,257.9	40.5		58,900.0	60,223.5	
YTD					1,054.6	1,054.6	56.8	1,743.8	50,784.6	53,640.3	

Month	2011						J.P.	LPG*	Fuel Oil	Total	
	Gasoline			Kerosene		Diesel					
	Total	Regular	Premium	Base ULG	Total	HSD					LSD
Jan							60.8	2,617.3	42,871.4	45,546.9	
Feb					3,886.1	3,886.1	1,841.9	1,415.1	47,330.0	54,471.2	
Mar					1,663.7	1,663.7		2,982.5	33,944.1	38,608.1	
Apr	1,991.7			1,991.7	817.6	817.6	104.8	12,956.7	28,806.8	44,669.8	
May							40.5	1,034.7	43,358.3	44,429.1	
Jun					796.6	796.6	62.8		66,503.1	67,362.9	
Jul	608.6			608.6	2,637.6	2,637.6	40.5	10,875.1	55,187.0	69,362.3	
Aug							40.5	11,362.0	59,711.6	71,098.7	
Sep							62.8	10,692.4	42,371.6	53,118.8	
Oct	628.9			628.9			40.5	10,976.5	52,772.6	64,419.3	
Nov	3,878.6	3,878.6			2,033.6	2,033.6	41.9	1,865.9	34,614.3	42,437.9	
Dec							60.8	1,481.1	42,607.6	44,138.2	
YTD	587.6	318.7		268.8	964.9	964.9	186.1	5,715.8	45,857.9	53,311.1	

**Table 2.3.3-2M (Cont.)
Import of Petroleum Products**

Unit : Barrels/Day

Month	2012											Total
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular	Premium	Base ULG	Total	HSD	LSD					
Jan	1,521.7			1,521.7				40.5	1,237.6	42,546.8	45,350.0	
Feb	8,693.2	1,729.6		6,963.6	1,145.6	1,145.6		44.9	1,235.4	66,468.6	77,565.8	
Mar	8,582.4			8,582.4				60.8	2,556.4	62,612.9	73,797.5	
Apr	3,019.0			3,019.0				62.8	13,816.3	71,639.7	88,532.7	
May								40.5	12,011.3	43,297.5	55,349.2	
Jun	1,698.2			1,698.2				62.8	10,273.1	51,303.0	63,317.3	
Jul	6,654.9	2,536.1		4,118.7	2,069.5	2,069.5		60.8	11,179.4	40,010.6	59,963.1	
Aug	9,353.3	1,744.8		7,608.5				60.8	5,498.4	67,766.4	82,657.1	
Sep	6,604.1			6,604.1				62.8	6,080.0	70,130.1	82,875.8	
Oct								40.5	7,507.0	52,143.6	59,693.6	
Nov	5,555.9	2,872.2		2,683.6				41.9	3,354.5	53,336.6	62,291.0	
Dec	13,147.5	5,620.1		7,527.3				60.8		43,277.2	56,476.3	
YTD	5,388.4	1,209.6		4,178.7	263.6	263.6		48.2	6,246.6	55,216.7	67,162.3	

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.4-1M
Export of Petroleum Products

Unit : Million Litres

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular		Premium	Total				
Jan	191.4	51.4	140.1	258.8	258.8	99.2	284.8	16.4	850.7
Feb	137.8	37.4	100.4	149.5	149.5	98.8	284.8	11.6	682.4
Mar	146.6	48.3	98.3	302.9	302.9	99.8	320.1		878.9
Apr	205.0	71.9	133.1	234.4	234.4	114.9	251.4	0.1	805.7
May	83.1	30.7	52.3	377.5	377.5	66.5	327.1	2.8	907.4
Jun	187.6	61.6	125.9	315.1	315.1	55.9	240.1	0.1	798.8
Jul	176.7	86.6	90.1	429.4	429.4	115.4	205.6	0.1	927.1
Aug	128.7	105.3	23.4	405.0	405.0	113.6	387.2	0.1	1,082.9
Sep	63.4	36.3	27.0	285.9	285.9	98.0	275.1	0.2	722.6
Oct	33.4	20.7	12.7	338.5	338.5	134.2	418.6	0.7	925.4
Nov	34.0	21.9	12.1	331.5	331.5	111.1	205.5	5.0	687.0
Dec	90.8	75.8	14.9	378.0	378.0	239.3	424.0	2.1	1,134.1
Total	1,478.4	648.0	830.4	3,806.3	3,806.3	1,346.8	3,624.3	39.3	10,403.6

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular		Premium	Total				
Jan	133.5	29.8	103.7	282.0	282.0	101.4	399.8	2.0	918.7
Feb	52.6	41.8	10.8	145.5	145.5	104.8	323.8	1.6	628.2
Mar	72.3	59.0	13.3	244.0	244.0	54.2	327.3	1.8	699.6
Apr	124.9	111.9	12.9	352.9	352.9	77.9	328.0	2.1	885.7
May	120.4	107.4	13.0	600.5	600.5	197.6	278.4	2.8	1,199.7
Jun	158.1	146.6	11.5	275.9	275.9	102.0	500.2	2.8	1,045.4
Jul	143.8	85.4	58.4	332.2	332.2	205.5	329.0	1.7	1,012.1
Aug	153.3	97.8	55.5	569.8	569.8	152.1	300.9	1.7	1,177.8
Sep	109.4	58.8	50.6	469.0	469.0	159.7	343.4	2.3	1,083.8
Oct	114.7	62.9	51.8	638.4	638.4	172.2	210.8	3.0	1,139.1
Nov	87.0	36.1	50.9	370.4	370.4	114.1	267.3	2.7	847.9
Dec	81.2	66.5	14.8	515.9	515.9	167.5	269.0	3.2	1,043.1
Total	1,351.1	903.9	447.2	4,796.5	4,796.5	1,609.3	3,878.0	27.8	11,681.6

Table 2.3.4-1M (Cont.)
Export of Petroleum Products

Unit : Million Litres

Month	2010										
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD				
Jan	86.1	36.1	49.9			200.7	200.7	98.0	230.4	3.8	619.0
Feb	79.3	32.2	47.1			266.7	266.7	59.3	274.4	4.4	684.0
Mar	70.6	67.8	2.8			304.0	304.0	102.8	325.6	4.1	807.1
Apr	134.2	90.9	43.4			365.6	365.6	152.1	293.3	4.0	949.2
May	158.3	91.0	67.3	5.4		418.6	418.6	63.7	272.6	3.9	922.5
Jun	152.1	88.7	63.4	23.3		493.1	493.1	189.7	270.9	3.5	1,132.5
Jul	149.4	65.6	83.8	23.3		546.9	546.9	110.6	266.2	3.4	1,099.7
Aug	109.3	62.1	47.2	24.7		621.4	621.4	286.8	191.3	5.3	1,238.7
Sep	135.0	70.1	64.9	111.4		737.5	737.5	43.0	288.9	4.4	1,320.2
Oct	69.9	57.9	12.0	161.6		587.2	587.2	124.9	245.5	5.3	1,194.3
Nov	72.9	56.2	16.7	63.0		480.3	480.3	81.8	315.4	1.8	1,015.2
Dec	124.7	83.2	41.5	13.4		483.1	483.1	91.7	259.6	1.9	974.4
Total	1,341.8	801.8	539.9	426.1		5,505.3	5,505.3	1,404.5	3,234.0	45.7	11,957.3

Month	2011										
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD				
Jan	56.6	38.4	18.2			306.0	306.0	87.3	354.2	1.7	805.7
Feb	42.1	39.7	2.4			183.0	183.0	3.9	182.8	1.6	413.3
Mar	60.0	49.5	10.5			268.5	268.5	22.5	256.6	2.0	609.7
Apr	64.7	55.6	9.1			354.0	354.0	127.9	376.0	2.2	924.8
May	146.2	77.8	68.3			407.9	407.9	105.5	345.6	2.0	1,007.1
Jun	102.7	84.4	18.3	49.4		286.0	286.0	65.3	256.2	2.5	762.0
Jul	86.7	84.0	2.7	57.4		652.9	652.9	68.8	251.6	2.5	1,119.8
Aug	167.4	73.2	94.3			721.7	721.7	169.3	307.3	2.7	1,368.4
Sep	67.3	58.3	9.0			614.9	614.9	145.8	357.3	2.8	1,188.0
Oct	47.1	45.0	2.2			320.8	320.8	18.2	223.6	3.2	613.0
Nov	45.6	43.7	1.9			250.1	250.1	127.2	244.4	3.1	670.5
Dec	82.1	80.8	1.4			339.6	339.6	259.9	327.4	3.3	1,012.2
Total	968.7	730.3	238.4	106.8		4,705.5	4,705.5	1,201.5	3,482.9	29.9	10,495.1

Table 2.3.4-1M (Cont.)
Export of Petroleum Products

Unit : Million Litres

Month	2012									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	76.2	74.0	2.3	417.5	417.5	72.0	361.4	2.8	929.8	
Feb	127.9	118.7	9.2	471.4	471.4	70.0	296.5	1.9	967.8	
Mar	181.3	178.8	2.5	378.4	378.4	25.5	424.9	1.0	1,011.1	
Apr	194.5	183.0	11.4	458.7	458.7	22.9	301.9	1.4	979.3	
May	152.2	150.6	1.6	405.2	405.2	62.8	273.6	0.8	909.2	
Jun	151.5	148.8	2.7	536.1	536.1	89.4	315.6	0.9	1,102.7	
Jul	82.7	79.8	2.9	410.1	410.1	131.8	213.6	1.5	839.7	
Aug	100.1	88.3	11.9	360.6	360.6	45.9	335.9	1.7	850.5	
Sep	125.4	95.2	30.3	489.4	489.4	62.3	340.9	1.9	1,021.1	
Oct	148.7	131.3	17.4	530.9	530.9	57.1	206.5	1.4	944.5	
Nov	119.7	112.4	7.3	527.2	527.2	40.5	426.3	1.6	1,115.3	
Dec	109.3	107.5	1.8	385.9	385.9	72.3	357.0	1.5	926.0	
Total	1,569.6	1,468.2	101.4	5,371.3	5,371.3	752.5	3,854.2	18.4	11,597.5	

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2M
Export of Petroleum Products

Unit : Barrels/Day

Month	2008						2009					
	Gasoline		Kerosene		Diesel		Gasoline		Kerosene		Diesel	
	Total	Regular	Premium	Total	HSD	LSD	Total	Regular	Premium	Total	HSD	LSD
Jan	38,833.8	10,428.7	28,425.4	52,508.8	52,508.8	20,127.0	57,784.1	3,327.4	172,608.9			
Feb	30,954.3	8,401.2	22,553.0	33,582.5	33,582.5	22,193.6	63,975.2	2,605.7	153,296.3			
Mar	29,744.2	9,799.7	19,944.4	1,968.0	61,456.4	20,248.7	64,946.2		178,340.4			
Apr	42,979.6	15,074.3	27,905.3	49,143.5	49,143.5	24,089.5	52,707.7	20.9	168,939.7			
May	16,860.4	6,228.8	10,611.3	10,246.1	76,592.3	13,492.4	66,366.5	568.1	184,117.5			
Jun	39,331.6	12,914.8	26,395.7	66,062.8	66,062.8	11,719.8	50,338.5	20.9	167,479.7			
Jul	35,851.3	17,570.5	18,280.7	87,122.5	87,122.5	23,413.9	41,714.9	20.2	188,106.6			
Aug	26,112.4	21,364.7	4,747.7	9,820.0	82,171.9	23,048.7	78,560.4	20.2	219,721.9			
Sep	13,292.2	7,610.5	5,660.7	59,940.8	59,940.8	20,546.3	57,676.5	41.9	151,507.8			
Oct	6,776.6	4,199.8	2,576.7	68,679.5	68,679.5	27,228.3	84,931.2	142.0	187,773.6			
Nov	7,128.3	4,591.4	2,536.8	69,501.2	69,501.2	23,292.8	43,084.4	1,048.2	144,052.3			
Dec	18,422.7	15,379.3	3,023.1	76,693.8	76,693.8	48,552.4	86,026.9	426.0	230,108.3			
YTD	25,406.2	11,135.8	14,270.4	1,866.2	65,411.2	23,144.7	62,283.5	675.3	178,786.3			
Jan	27,086.3	6,046.2	21,040.0	57,216.0	57,216.0	20,573.4	81,116.8	405.7	186,401.6			
Feb	11,815.6	9,389.6	2,426.0	32,683.9	32,683.9	23,541.4	72,735.9	359.4	141,119.8			
Mar	14,669.2	11,970.7	2,698.4	49,506.0	49,506.0	10,996.8	66,407.0	365.2	141,954.3			
Apr	26,186.1	23,460.5	2,704.5	73,987.8	73,987.8	16,332.2	68,767.4	440.2	185,702.3			
May	24,428.3	21,790.7	2,637.6	121,837.6	121,837.6	40,091.7	56,485.5	568.1	243,428.0			
Jun	33,146.7	30,735.6	2,411.0	57,844.3	57,844.3	21,384.9	104,870.3	587.0	219,178.7			
Jul	29,176.1	17,327.1	11,848.9	67,401.2	67,401.2	41,694.6	66,752.0	344.9	205,361.1			
Aug	31,103.5	19,843.0	11,260.5	115,608.8	115,608.8	30,860.1	61,050.7	344.9	238,978.6			
Sep	22,936.4	12,327.8	10,608.6	98,329.0	98,329.0	33,482.1	71,996.1	482.2	227,235.7			
Oct	23,271.9	12,762.0	10,509.8	129,527.3	129,527.3	34,938.2	42,769.9	608.6	231,121.5			
Nov	18,240.1	7,568.6	10,671.5	1,362.7	77,656.8	23,921.8	56,041.2	566.0	177,777.9			
Dec	16,474.9	13,492.4	3,002.8	1,257.9	104,672.8	33,984.6	54,578.3	649.2	211,645.6			
YTD	23,282.2	15,576.0	7,706.1	327.4	82,653.6	27,731.5	66,825.9	479.0	201,298.1			

Table 2.3.4-2M (Cont.)
Export of Petroleum Products

Unit : Barrels/Day

Month	Gasoline		Kerosene		Diesel		J.P.	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD				
Jan	17,469.1	7,324.4	10,124.3	40,720.7	40,720.7		19,883.5	46,746.7	770.9	125,598.6
Feb	17,813.3	7,233.1	10,580.1	59,909.4	59,909.4		13,320.6	61,639.0	988.3	153,660.4
Mar	14,324.2	13,756.1	568.1	61,679.6	61,679.6		20,857.4	66,062.1	831.8	163,762.8
Apr	28,135.9	19,057.8	9,099.1	76,650.5	76,650.5		31,888.7	61,492.3	888.6	199,017.9
May	32,118.0	18,463.3	13,654.7	84,931.2	84,931.2		12,924.3	55,308.8	791.2	187,182.1
Jun	31,888.7	18,596.5	13,292.2	103,381.7	103,381.7		39,771.8	56,796.0	733.7	237,440.2
Jul	30,312.3	13,309.8	17,002.4	4,727.4	110,962.5		22,440.0	54,010.2	689.8	223,126.2
Aug	22,176.2	12,599.6	9,576.5	5,011.4	126,078.1		58,189.9	38,813.5	1,075.3	251,342.2
Sep	28,303.6	14,696.9	13,606.7	23,355.7	154,621.8		9,015.2	60,569.8	922.4	276,800.3
Oct	14,182.2	11,747.5	2,434.7	32,787.6	119,139.1		25,341.4	49,810.3	1,075.3	242,317.2
Nov	15,283.9	11,782.7	3,501.2	13,208.3	100,698.1		17,149.9	66,125.7	377.3	212,861.0
Dec	25,300.8	16,880.7	8,420.0	2,718.7	98,017.9		18,605.3	52,671.1	385.4	197,705.8
YTD	23,121.9	13,816.6	9,303.5	7,342.5	94,867.6		24,202.4	55,728.4	787.5	206,049.7

Month	Gasoline		Kerosene		Diesel		J.P.	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD				
Jan	11,483.7	7,791.1	3,692.6	62,085.4	62,085.4		17,712.6	71,864.9	344.9	163,487.5
Feb	9,457.0	8,917.9	539.1	41,107.7	41,107.7		876.0	41,062.7	359.4	92,859.1
Mar	12,173.6	10,043.2	2,130.3	54,476.9	54,476.9		4,565.1	52,062.5	405.7	123,706.2
Apr	13,564.7	11,656.9	1,907.8	74,218.5	74,218.5		26,815.1	78,830.9	461.2	193,902.2
May	29,663.0	15,785.1	13,857.6	82,760.3	82,760.3		21,405.2	70,120.0	405.7	204,347.1
Jun	21,531.7	17,695.0	3,836.7	10,357.0	59,961.8		13,690.5	53,714.0	524.1	159,762.9
Jul	17,590.8	17,043.0	547.8	11,646.0	132,469.2		13,959.0	51,048.0	507.2	227,216.8
Aug	33,964.4	14,851.8	19,132.8	146,428.3	146,428.3		34,349.8	62,349.2	547.8	277,651.8
Sep	14,109.9	12,222.9	1,886.9	128,917.9	128,917.9		30,567.9	74,910.3	587.0	249,088.5
Oct	9,556.2	9,130.2	446.3	65,088.2	65,088.2		3,692.6	45,367.0	649.2	124,375.8
Nov	9,560.3	9,162.0	398.3	52,435.1	52,435.1		26,668.3	51,240.1	649.9	140,576.6
Dec	16,657.5	16,393.8	284.0	68,902.6	68,902.6		52,732.0	66,427.3	669.5	205,381.8
YTD	16,692.7	12,584.5	4,108.1	1,840.3	81,085.4		20,704.3	60,017.5	515.2	180,852.4

Table 2.3.4-2M (Cont.)
Export of Petroleum Products

Unit : Barrels/Day

Month	2012											Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular	Premium	Total	HSD	LSD						
Jan	15,460.4	15,014.1	466.6	84,708.1	84,708.1	14,608.3	73,325.7	568.1	188,668.4			
Feb	28,730.4	26,663.8	2,066.6	105,891.6	105,891.6	15,724.2	66,603.4	426.8	217,399.9			
Mar	36,784.6	36,277.3	507.2	76,774.9	76,774.9	5,173.7	86,209.5	202.8	205,148.1			
Apr	40,778.2	38,367.1	2,390.0	96,169.5	96,169.5	4,801.1	63,295.3	293.5	205,322.4			
May	30,880.4	30,555.7	324.6	82,212.5	82,212.5	12,741.7	55,511.7	162.3	184,490.7			
Jun	31,763.0	31,196.9	566.0	112,397.0	112,397.0	18,743.3	66,167.6	188.6	231,199.5			
Jul	16,779.3	16,190.9	588.3	83,206.6	83,206.6	26,741.3	43,338.0	304.3	170,372.3			
Aug	20,309.6	17,915.5	2,414.4	73,163.4	73,163.4	9,312.8	68,151.9	344.9	172,580.0			
Sep	26,290.9	19,959.3	6,352.6	102,606.0	102,606.0	13,061.6	71,472.0	398.3	214,089.3			
Oct	30,170.2	26,639.9	3,530.3	107,716.2	107,716.2	11,585.2	41,897.5	284.0	191,642.3			
Nov	25,095.9	23,565.4	1,530.4	110,531.0	110,531.0	8,491.1	89,376.6	335.4	233,836.6			
Dec	22,176.2	21,811.0	365.2	78,296.6	78,296.6	14,669.2	72,433.0	304.3	187,896.2			
YTD	27,047.4	25,300.1	1,747.3	92,558.5	92,558.5	12,967.1	66,415.8	317.0	199,850.3			

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-1M
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance				Oil Products							Demand	
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Oil Products			
										Diesel Oil	Others		Export
Jan	210,132	837,832	41,458	949,430	970,542	40,663	1,011,205	836,422	118,406	320,204	397,810	190,866	1,027,288
Feb	213,824	920,720	39,144	948,560	972,317	14,682	987,000	886,887	125,509	330,021	431,356	173,627	1,060,514
Mar	207,733	914,524	37,421	962,942	992,978	49,579	1,042,557	861,683	118,666	333,384	409,632	191,360	1,053,044
Apr	219,233	803,545	51,537	995,949	1,035,394	79,105	1,114,499	857,325	122,395	327,288	407,641	195,838	1,053,164
May	225,729	851,111	40,204	977,898	1,004,722	10,748	1,015,470	805,606	113,757	304,423	387,425	200,152	1,005,758
Jun	230,719	748,599	47,492	845,395	898,524	26,282	924,806	762,339	113,362	276,287	372,689	179,657	941,997
Jul	214,633	734,870	50,651	928,300	953,484	58,331	1,011,816	726,287	109,783	244,930	371,573	213,918	940,205
Aug	232,859	820,895	38,817	832,395	920,346	33,249	953,595	725,095	115,624	260,495	348,975	251,426	976,521
Sep	234,811	671,695	48,864	778,630	851,942	51,949	903,891	736,397	115,268	258,935	362,193	173,425	909,822
Oct	236,544	814,902	51,009	915,782	953,853	35,411	989,264	737,154	117,904	274,153	345,097	219,188	956,343
Nov	220,158	544,231	40,136	779,553	841,134	40,512	881,647	697,189	121,330	284,632	291,226	200,435	897,624
Dec	226,238	817,666	48,894	892,854	941,768	13,303	955,072	796,965	138,430	330,128	328,406	268,189	1,065,155
YTD	228,828	811,560	45,863	925,432	970,761	38,980	1,009,742	806,635	122,368	303,194	381,073	210,711	1,017,346

Month	Crude Oil Balance				Oil Products							Demand	
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Oil Products			
										Diesel Oil	Others		Export
Jan	234,661	756,027	62,037	895,691	998,922	39,563	1,038,486	857,762	134,965	348,592	374,204	236,233	1,093,995
Feb	232,534	647,308	40,616	881,320	935,658	43,543	979,201	833,015	132,206	323,309	377,499	167,132	1,000,147
Mar	253,484	974,758	32,854	998,480	1,071,633	70,949	1,142,582	851,973	134,312	330,120	387,540	166,714	1,018,688
Apr	237,667	838,598	51,339	964,855	1,014,911	18,768	1,033,679	834,626	133,021	332,793	368,810	226,754	1,061,380
May	238,367	805,458	53,355	941,225	1,068,236	52,038	1,120,275	831,212	132,287	336,867	362,058	268,890	1,100,102
Jun	241,694	885,576	22,364	950,366	1,053,990	22,264	1,076,255	804,212	127,447	305,938	370,826	254,104	1,058,316
Jul	236,371	747,927	62,698	953,377	1,062,751	36,883	1,099,634	813,417	127,997	298,668	386,751	255,691	1,069,108
Aug	238,561	757,617	39,767	910,044	1,024,159	38,769	1,062,928	806,319	125,064	293,453	387,801	268,355	1,074,674
Sep	220,506	893,332	24,027	974,246	1,047,762	50,595	1,098,358	807,772	125,824	292,346	389,601	268,412	1,076,184
Oct	220,654	788,596	28,316	931,736	1,027,452	49,096	1,076,548	821,351	126,466	298,720	396,163	279,854	1,101,205
Nov	240,066	846,463	37,463	918,065	1,021,483	56,927	1,078,410	798,058	123,096	309,021	365,941	223,144	1,021,202
Dec	259,817	691,657	36,976	916,799	1,034,079	54,586	1,088,666	890,783	133,183	347,953	409,645	262,832	1,153,616
YTD	237,941	803,361	41,066	936,633	1,030,814	44,587	1,075,401	829,375	129,660	318,195	381,519	240,405	1,069,780

Table 2.4-1M (Cont.)
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance				Oil Products				Oil Products				Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
	232,778	774,312	36,759	939,907	1,021,732	55,665	1,077,398	861,076	122,913	317,638	420,524	150,589	1,011,666
Jan	235,809	841,022	8,460	918,140	1,047,109	52,453	1,099,562	887,827	132,896	347,322	407,608	179,128	1,066,955
Feb	250,421	735,828	36,224	998,652	1,078,110	99,685	1,177,795	906,456	125,855	342,480	438,121	190,532	1,096,988
Mar	236,293	949,279	26,706	948,970	1,036,158	83,516	1,119,675	899,252	127,354	324,615	447,282	235,332	1,134,584
Apr	246,115	739,887	32,170	965,724	1,077,155	105,280	1,182,435	880,760	121,562	322,255	436,942	221,220	1,101,980
May	256,836	873,449	25,147	958,221	1,082,323	105,349	1,187,672	886,792	129,366	316,320	441,104	283,610	1,170,402
Jun	254,954	781,768	45,881	981,832	1,057,095	73,531	1,130,627	861,413	129,168	307,706	424,538	272,335	1,133,748
Jul	250,650	823,637	31,657	972,644	1,080,719	89,296	1,170,016	862,063	125,598	290,396	446,067	287,990	1,150,053
Aug	248,127	793,463	44,994	953,373	1,103,481	93,904	1,197,385	872,368	127,350	294,350	450,668	316,458	1,188,827
Sep	235,510	742,814	15,785	965,962	1,067,484	104,440	1,171,925	861,541	124,929	291,167	445,445	268,732	1,130,274
Oct	232,263	852,270	29,143	973,322	1,035,155	62,331	1,097,487	905,333	132,505	331,795	441,032	266,461	1,171,794
Nov	221,479	895,650	24,671	959,768	1,127,929	81,232	1,209,162	912,189	134,836	337,924	439,428	221,857	1,134,046
Dec	241,801	816,201	29,956	961,763	1,068,081	84,122	1,152,204	882,964	127,806	318,449	436,709	241,321	1,124,286
YTD													

Month	Crude Oil Balance				Oil Products				Oil Products				Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
	227,976	770,288	29,956	1,014,086	1,144,915	81,188	1,226,104	935,318	128,166	329,406	477,745	196,495	1,131,813
Jan	229,200	720,501	33,692	783,901	926,337	122,772	1,049,110	963,690	133,913	335,193	494,582	113,350	1,077,040
Feb	235,448	786,565	26,015	942,864	1,060,965	90,241	1,151,206	965,682	124,831	345,848	495,002	159,234	1,124,916
Mar	226,348	869,566	52,102	973,991	1,114,335	72,054	1,186,390	965,571	129,526	347,633	488,411	219,419	1,184,990
Apr	233,177	897,280	27,069	979,896	1,153,333	103,324	1,256,657	934,227	124,036	342,154	468,036	246,110	1,180,337
May	225,227	760,513	34,934	972,684	1,164,680	87,742	1,252,422	945,258	130,579	336,813	477,866	195,130	1,140,388
Jun	213,441	822,328	9,284	994,932	1,160,950	98,441	1,259,392	915,443	124,309	308,512	482,622	266,831	1,182,275
Jul	222,493	913,966	44,155	981,737	1,163,938	96,739	1,260,678	921,820	128,510	311,698	481,611	324,332	1,246,152
Aug	221,612	760,657	31,172	911,811	1,104,842	103,946	1,208,789	917,797	126,104	314,544	477,148	297,605	1,215,403
Sep	209,542	718,407	40,981	858,489	1,004,237	102,042	1,106,280	871,949	116,708	304,306	450,934	186,003	1,057,953
Oct	224,322	767,471	33,792	794,840	1,065,273	105,597	1,170,871	868,388	116,443	329,800	422,144	186,552	1,054,941
Nov	221,267	735,433	27,696	1,004,045	1,185,984	80,294	1,266,278	961,530	133,486	363,355	464,689	265,173	1,226,704
Dec	224,127	794,226	32,502	935,908	1,105,521	95,173	1,200,695	930,353	126,330	330,720	473,302	222,204	1,152,557
YTD													

**Table 2.4-1M (Cont.)
Demand and Supply of Crude Oil and Oil Products**

Unit : Barrels/Day

Month	Crude Oil Balance						Oil Products						Demand
	Production			Throughput			Oil Products			Oil Products			
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
Jan	215,340	877,776	65,017	983,990	1,115,372	79,694	1,195,067	935,720	124,542	333,073	478,104	228,584	1,164,304
Feb	237,055	973,478	64,266	1,013,582	1,221,854	140,052	1,361,906	1,003,334	131,385	367,822	504,127	263,711	1,267,045
Mar	241,406	927,365	21,946	997,328	1,146,711	114,240	1,260,951	980,270	125,767	359,614	494,888	251,441	1,231,711
Apr	234,465	870,254	47,321	973,757	1,188,749	153,352	1,342,102	957,509	124,718	349,580	483,209	259,214	1,216,723
May	216,309	823,038	54,925	949,245	1,149,102	108,138	1,257,240	981,535	124,261	355,046	502,227	249,170	1,230,705
Jun	225,547	839,425	33,723	890,968	1,109,534	81,910	1,191,444	940,732	128,748	344,965	467,018	296,868	1,237,600
Jul	234,579	786,132	54,488	893,227	1,067,046	104,288	1,171,335	936,533	124,845	324,227	487,460	223,818	1,160,351
Aug	231,665	771,760	32,072	920,108	1,104,029	148,108	1,252,138	952,020	126,909	325,496	499,614	211,508	1,163,528
Sep	233,194	734,128	23,994	911,169	1,141,407	106,714	1,248,121	933,128	123,514	315,197	494,416	273,972	1,207,101
Oct	230,282	850,422	22,608	895,433	1,067,110	98,412	1,165,523	937,086	128,591	327,449	481,045	247,901	1,184,987
Nov	242,566	744,223	35,233	969,461	1,184,175	109,883	1,294,058	971,144	135,957	355,834	479,352	282,526	1,253,671
Dec	245,908	858,377	24,949	1,017,100	1,240,300	84,714	1,325,014	1,016,343	148,169	372,536	495,637	241,720	1,258,063
YTD	238,616	860,211	41,036	976,745	1,174,871	113,627	1,288,498	988,039	132,409	353,402	502,227	259,094	1,247,134

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2M
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	376	372	389	390	409	378	493	448	426	469	350	307	4,807
- Production	376	372	389	368	409	378	383	380	357	379	257	307	4,355
GSP	216	219	224	217	246	243	233	241	230	238	155	203	2,664
Refinery	160	153	165	151	163	135	150	139	127	141	101	103	1,688
Others								1		1	0	1	3
- Import			21				110	68	69	90	93		452
Total Demand	393	367	382	373	422	404	441	462	443	450	334	339	4,810
- Consumption	384	361	382	373	420	404	441	462	443	450	331	338	4,788
Cooking	171	161	170	166	178	173	188	186	182	187	178	184	2,124
Industry	59	58	60	52	58	55	58	57	58	58	51	41	665
Automobile	52	50	57	55	60	66	81	79	73	75	67	60	776
Feedstock*	66	59	61	68	82	70	68	91	80	73	9	32	759
Own Use	36	32	34	32	40	40	46	43	49	57	26	22	466
- Feedstock	23	22	25	21	30	33	38	41	40	42	15	6	335
- Energy	13	10	9	11	13	7	8	8	9	15	11	15	130
- Export	9	6	0	0	1	0	0	0	0	0	3	1	21
Balance (Supply-Demand)	-17	5	7	17	-13	-26	52	-14	-17	19	16	-32	-2

Description	2009												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	394	342	416	386	455	422	466	468	454	473	468	476	5,221
- Production	374	342	393	371	388	379	399	377	364	361	356	363	4,467
GSP	224	217	230	220	238	233	235	224	218	217	219	221	2,695
Refinery	148	125	163	152	150	146	163	153	147	144	138	141	1,770
Others	2											1	2
- Import	20		23	14	67	44	68	91	90	112	112	114	753
Total Demand	383	341	426	409	431	432	471	467	453	467	455	486	5,223
- Consumption	382	340	425	408	429	430	472	466	452	466	454	485	5,208
Cooking	185	164	180	172	179	181	192	193	191	198	191	205	2,231
Industry	40	38	43	38	45	51	53	54	55	58	59	59	593
Automobile	56	54	58	55	56	55	55	56	54	56	55	58	666
Feedstock*	68	60	83	80	91	86	105	92	92	92	95	110	1,056
Own Use	32	24	62	63	58	57	67	70	60	62	54	53	662
- Feedstock	12	15	40	41	37	39	43	43	42	43	34	33	422
- Energy	20	9	22	23	21	18	24	27	18	19	20	19	240
- Export	1	1	1	1	2	2	1	1	1	2	1	2	15
Balance (Supply-Demand)	11	1	-10	-24	24	-9	-6	1	1	6	13	-10	-2

Table 2.4-2M (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	2010												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	481	427	499	477	506	455	480	519	511	540	520	592	6,008
- Production	371	315	373	352	329	325	389	382	376	391	377	435	4,416
GSP	222	176	214	199	183	195	236	239	233	250	234	295	2,676
Refinery	147	138	156	151	144	130	153	143	143	141	143	140	1,730
Others	2	2	2	2	2	1						0	10
- Import	110	112	126	125	177	130	91	136	136	149	143	157	1,591
Total Demand	523	438	484	477	482	490	479	525	514	530	514	557	6,012
- Consumption	520	436	482	475	480	488	477	522	512	527	513	556	5,987
Cooking	199	187	204	192	195	199	210	209	203	208	209	219	2,435
Industry	62	59	67	58	66	64	66	69	68	68	68	65	778
Automobile	55	52	55	54	54	54	58	58	55	58	61	67	680
Feedstock*	134	72	88	107	132	132	104	150	148	154	139	166	1,527
Own Use	70	65	68	63	33	39	39	37	36	39	37	40	567
- Feedstock	48	45	48	44	16	20	24	20	20	22	24	24	354
- Energy	22	21	20	19	17	19	16	17	16	16	13	16	213
- Export	2	2	2	2	2	2	2	3	2	3	1	1	25
Balance (Supply-Demand)	-41	-11	15	0	25	-35	2	-6	-3	10	6	35	-4

Description	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	564	508	562	550	604	588	594	615	575	582	521	596	6,859
- Production	450	395	471	476	489	417	447	456	466	441	432	483	5,422
GSP	287	252	300	298	308	250	262	279	312	287	288	305	3,428
Refinery	163	143	171	178	181	167	185	177	154	154	143	177	1,994
Others													
- Import	114	114	90	74	115	171	147	159	109	140	89	113	1,437
Total Demand	578	506	596	571	586	577	597	619	584	572	538	584	6,906
- Consumption	577	505	594	570	585	576	596	617	583	570	536	582	6,890
Cooking	219	199	221	214	217	217	226	238	228	224	210	245	2,656
Industry	65	62	72	60	68	67	61	58	57	51	46	51	718
Automobile	67	62	69	70	77	78	88	91	86	76	68	88	920
Feedstock*	188	159	194	195	192	184	189	197	176	159	142	137	2,113
Own Use	38	22	39	31	31	30	33	33	35	60	70	61	483
- Feedstock	26	14	24	17	16	19	21	21	26	53	65	51	353
- Energy	13	8	15	13	14	11	12	12	9	8	5	10	131
- Export	1	1	1	1	1	1	1	1	2	2	2	2	16
Balance (Supply-Demand)	-13	3	-34	-21	19	11	-3	-4	-9	10	-17	13	-47

**Table 2.4-2M (Cont.)
Demand and Supply of LPG, Propane and Butane**

Unit : Thousand Tons

Description	2012												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	618	545	648	689	641	632	629	703	677	669	661	666	7,779
- Production	505	385	482	505	526	500	523	523	496	530	524	551	6,049
GSP	341	224	334	326	341	335	363	366	342	371	362	372	4,078
Refinery	163	161	148	179	185	164	159	157	154	160	162	179	1,971
Others													
- Import	113	160	167	185	115	132	106	180	181	139	137	115	1,730
Total Demand	598	549	623	607	624	601	632	657	632	628	609	636	7,396
- Consumption	597	548	622	607	624	600	632	656	631	627	608	635	7,386
Cooking	240	228	253	245	257	250	257	267	254	267	258	271	3,047
Industry	50	52	55	45	53	51	54	51	51	52	52	47	614
Automobile	94	88	89	85	88	86	89	90	85	88	88	91	1,061
Feedstock*	100	90	122	135	138	131	141	153	150	140	144	169	1,613
Own Use	113	90	102	96	89	82	91	96	90	79	67	56	1,051
- Feedstock	102	80	92	86	79	73	83	87	82	70	60	48	942
- Energy	11	11	10	10	10	9	8	9	9	8	7	8	110
- Export	2	1	1	1	0	1	1	1	1	1	1	1	10
Balance (Supply-Demand)	19	-3	25	82	17	31	-3	46	45	41	52	30	383

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Including own used as Feedstock of IRPC and PTTGC



APPENDIX I

3

CHAPTER
บทที่

Natural Gas
ก๊าซธรรมชาติ

Table 3.1-1M
Production and Import of Natural Gas

Unit : MMSCFD

Month	2008														Grand Total				
	Domestic Production							Import											
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhoim	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.		Total	Yadana	Yetakun	LNG
Jan	44	175	23	277	441	125	1	72	317	626	107	24	313	2,546	403	378		781	3,328
Feb	40	171	23	284	439	111		70	332	641	95	13	325	2,544	485	442		927	3,471
Mar	43	148	26	287	425	109	7	95	338	662	83	52	321	2,611	511	461		972	3,582
Apr	43	145	25	277	482	97	16	103	311	662	211	49	325	2,823	427	263		691	3,513
May	42	153	24	275	440	100	23	94	287	648	83	94	313	3,001	428	400		828	3,829
Jun	42	150	24	257	465	101	11	78	295	659	97	110	280	2,992	423	405		828	3,820
Jul	42	140	23	357	446	94	10	83	290	630	377	82	233	2,944	446	422		867	3,811
Aug	42	145	23	278	457	89	10	98	297	650	409	100	240	2,969	459	427		886	3,855
Sep	38	115	23	258	450	82	15	98	286	538	463	102	252	2,856	474	439		913	3,769
Oct	39	145	23	256	444	97	13	85	268	653	447	100	267	2,835	442	413		855	3,690
Nov	38	145	22	246	371	58	15	79	202	469	217	121	230	2,550	379	359		738	3,288
Dec	37	133	21	243	319	152	43	66	209	404	343	128	443	2,658	330	316		647	3,305
YTD	41	147	23	275	431	101	14	85	286	604	278	126	268	2,778	434	394		828	3,606

Month	2009														Grand Total				
	Domestic Production							Import											
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhoim	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.		Total	Yadana	Yetakun	LNG
Jan	37	148	16	243	371	152	43	44	209	505	373	126	422	2,881	166	157		323	3,204
Feb	37	140	16	253	409	66	10	43	183	417	374	143	417	2,754	375	377		752	3,506
Mar	28	145	16	278	418	75	12	44	237	526	415	138	443	3,038	331	336		667	3,705
Apr	27	67	24	221	419	61	7	94	136	532	353	127	412	2,801	398	400		798	3,598
May	64	65	23	235	449	53	6	97	156	648	408	127	455	3,146	462	440		902	4,048
Jun	65	68	23	229	458	44	6	96	175	493	431	106	451	3,022	477	451		928	3,950
Jul	64	60	23	227	425	44	3	92	144	590	390	92	426	2,898	445	416		861	3,759
Aug	63	69	23	247	451	55	7	92	207	570	416	80	313	2,935	484	460		944	3,879
Sep	65	72	19	249	436	61	6	100	141	637	340	77	495	3,041	471	462		933	3,974
Oct	63	51	18	260	423	57	15	102	244	435	475	71	466	3,017	505	469		974	3,991
Nov	64	68	17	244	372	47	50	78	162	552	507	120	482	3,097	479	464		943	4,040
Dec	65	83	20	249	376	57	120	84	124	569	524	117	510	3,232	317	305		622	3,854
YTD	54	86	20	244	417	64	24	81	177	540	418	110	441	2,990	409	394		803	3,794

Natural Gas

Table 3.1-1M (Cont.)
Production and Import of Natural Gas

Unit : MMSCFD

Month	2010														Grand Total					
	Domestic Production							Import												
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.		Total	Yadana	Yetakun	LNG	Total Import
Jan	64	85	13	248	438	52	151	81	146	604	458	103	449	301	3,197	390	374		764	3,961
Feb	63	87	17	240	464	58	102	72	133	528	545	119	538	303	3,268	512	466		978	4,246
Mar	63	89	20	248	467	80	129	104	166	629	579	120	630	322	3,645	353	322		675	4,320
Apr	65	88	19	244	399	56	97	87	173	573	448	120	704	309	3,383	467	436		903	4,286
May	62	81	20	253	399	87	72	100	181	540	501	110	691	364	3,462	476	457		933	4,395
Jun	64	94	17	261	394	89	89	79	224	621	522	107	711	407	3,681	429	440		869	4,551
Jul	63	83	17	251	433	90	81	82	223	623	450	94	551	398	3,441	459	443		902	4,343
Aug	62	70	20	275	448	76	75	79	247	639	419	89	668	398	3,563	429	420		849	4,412
Sep	62	65	20	275	454	84	61	77	247	539	516	86	719	405	3,610	474	447		921	4,531
Oct	57	61	18	259	449	67	58	83	242	623	524	67	757	412	3,678	424	423		847	4,524
Nov	65	54	18	256	399	126	52	99	208	600	531	70	675	453	3,607	395	394		790	4,397
Dec	65	58	17	259	414	111	58	97	195	627	523	53	687	414	3,578	411	411		822	4,400
YTD	63	76	18	256	430	82	85	87	199	596	501	95	649	374	3,511	434	419		853	4,364

Month	2011														Grand Total					
	Domestic Production							Import												
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.		Total	Yadana	Yetakun	LNG	Total Import
Jan	71	88	18	240	463	109	67	87	194	585	525	60	722	464	3,694	312	309		622	4,316
Feb	56	75	17	242	483	91	88	89	198	634	523	62	749	498	3,805	394	397		791	4,596
Mar	63	87	18	242	460	136	104	92	182	646	523	59	807	474	3,892	426	411		838	4,730
Apr	33	97	14	248	477	130	105	101	172	637	417	73	752	423	3,678	448	419		867	4,545
May	39	48	19	251	421	124	106	108	169	650	480	88	818	472	3,794	499	452	94	1,045	4,839
Jun	40	90	18	234	359	74	93	110	158	635	461	65	786	440	3,564	507	445	242	1,194	4,758
Jul	38	101	18	147	380	85	89	97	102	617	379	34	788	357	3,232	506	459	212	1,177	4,409
Aug	37	84	16	261	398	113	94	100	208	544	339	36	781	394	3,406	486	445	297	1,229	4,635
Sep	35	88	13	253	383	111	103	61	212	651	344	41	807	409	3,512	505	458	119	1,083	4,595
Oct	34	85	13	253	384	110	97	53	207	598	337	38	685	395	3,289	372	362	97	830	4,119
Nov	38	97	12	245	344	128	93	51	171	490	302	56	712	712	3,451	358	374	104	836	4,287
Dec	38	89	12	251	379	121	102	54	175	584	259	62	747	802	3,675	304	316		620	4,295
YTD	43	86	16	239	411	111	95	84	179	606	407	56	763	487	3,581	426	404	98	928	4,509

**Table 3.1-1M (Cont.)
Production and Import of Natural Gas**

Unit : MMSCFD

Month	2012														Import			Grand Total		
	Domestic Production														Import					
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhoim	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total	Yadana	Yetakun		LNG	Total Import
Jan	38	42	13	270	355	142	61	86	177	845	272	59	747	756	3,862	297	296	115	707	4,569
Feb	41	75	12	275	333	134	64	71	198	556	264	77	776	724	3,601	405	396	116	917	4,517
Mar	42	38	13	264	367	159	66	68	216	690	263	81	794	794	3,855	475	444	199	1,118	4,973
Apr	43	37	12	265	365	162	67	79	193	719	287	79	762	797	3,865	294	276		571	4,435
May	44	35	16	275	377	189	96	118	170	664	278	43	801	845	3,952	432	398	115	945	4,896
Jun	43	46	15	271	368	196	99	109	156	632	281	43	716	927	3,903	492	447	222	1,161	5,064
Jul	49	46	16	269	339	192	89	115	167	1,087	260	54	693	847	4,224	430	421	189	1,040	5,264
Aug	46	54	15	181	397	117	61	90	205	1,123	271	52	654	771	4,037	450	421	100	971	5,008
Sep	49	51	16	224	329	188	74	74	190	1,073	257	37	757	767	4,087	399	378	148	924	5,011
Oct	48	40	14	259	343	180	101	66	153	999	270	46	773	833	4,125	484	447	108	1,039	5,163
Nov	46	52	14	254	376	180	131	126	248	1,003	265	42	773	807	4,318	483	438	98	1,019	5,337
Dec	47	45	15	256	382	120	113	120	210	1,012	250	47	706	755	4,080	435	402	144	981	5,062
YTD	45	46	14	255	361	163	85	94	190	869	268	55	746	802	3,994	423	397	130	950	4,944

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF) and PTT

Compiled by : Energy Policy and Planning office (EPPO)

**Table 3.2-1M (Cont.)
Distribution of NGL**

Month	2010 (Million Litres)				2010 (Barrel)				2010 (Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	10		62	72	63,211		388,408	451,619	2,039		12,529	14,568
Feb	10		41	51	59,808		258,489	318,298	2,136		9,231	11,367
Mar	15		53	68	94,470		334,877	429,348	3,047		10,802	13,849
Apr	7		54	62	45,427		341,766	387,193	1,514		11,392	12,906
May	7		52	59	43,469		328,821	372,291	1,402		10,607	12,009
Jun	12		43	55	75,715		272,854	348,569	2,523		9,095	11,618
Jul	14		62	77	90,857		391,250	482,108	2,930		12,620	15,551
Aug	5		66	71	30,223		416,119	446,343	974		13,423	14,398
Sep	7		60	67	45,340		374,937	420,278	1,511		12,497	14,009
Oct	7		69	75	41,600		432,521	474,122	1,341		13,952	15,294
Nov	22		51	72	136,843		319,031	455,875	4,561		10,634	15,195
Dec	19		62	81	120,904		389,278	510,183	3,900		12,557	16,457
YTD	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962

Month	2011 (Million Litres)				2011 (Barrel)				2011 (Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	14		71	85	90,801		445,082	535,884	2,929		14,357	17,286
Feb	7		62	69	45,055		389,470	434,526	1,609		13,909	15,518
Mar	10		74	83	61,904		463,242	525,146	1,996		14,943	16,940
Apr	7		77	83	42,476		482,451	524,928	1,415		16,081	17,497
May	7		78	85	43,885		490,275	534,161	1,415		15,815	17,231
Jun	17		58	75	106,660		362,491	469,151	3,555		12,083	15,638
Jul	20		53	73	126,183		336,060	462,243	4,070		10,840	14,911
Aug	28		62	89	173,596		387,039	560,635	5,599		12,485	18,085
Sep	18		64	82	110,211		404,429	514,640	3,673		13,480	17,154
Oct	28		61	89	175,663		384,932	560,595	5,666		12,417	18,083
Nov	19		53	72	122,214		331,588	453,802	4,073		11,052	15,126
Dec	28		65	93	177,229		407,598	584,827	5,717		13,148	18,865
YTD	203		777	979	1,275,883		4,884,661	6,160,545	3,495		13,382	16,878

Table 3.2-1M (Cont.)
Distribution of NGL

Month	2012				(Barrel)				(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	22		65	88	141,426		410,196	551,623	4,562		13,232	17,794
Feb	18		61	78	110,945		382,554	493,499	3,962		13,662	17,625
Mar	15		73	87	93,082		457,094	550,176	3,002		14,744	17,747
Apr	22		66	88	138,804		412,543	551,348	4,626		13,751	18,378
May	22		65	87	139,949		406,245	546,194	4,514		13,104	17,619
Jun	29		68	97	182,886		424,788	607,674	6,096		14,159	20,255
Jul	34		69	103	216,918		433,652	650,570	6,997		13,988	20,986
Aug	27		67	94	170,923		418,903	589,826	5,513		13,513	19,026
Sep	29		65	94	184,920		407,535	592,455	6,164		13,584	19,748
Oct	20		67	87	128,437		418,439	546,877	4,143		13,498	17,641
Nov	33		68	101	205,611		427,080	632,692	6,853		14,236	21,089
Dec	27		70	98	170,782		442,451	613,234	5,509		14,272	19,781
YTD	300		802	1,101	1,884,687		5,041,486	6,926,173	5,163		13,812	18,975

Source : PTT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2M
Consumption of Natural Gas by Sector

Unit : MMSCFD

Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
2008							
Jan	905	878	446	365	585	41	3,220
Feb	917	967	452	377	619	47	3,378
Mar	914	1,068	453	370	594	52	3,450
Apr	1,044	839	432	376	587	57	3,336
May	1,069	1,079	444	374	630	63	3,659
Jun	1,068	1,085	437	357	647	72	3,667
Jul	1,088	1,084	452	392	593	83	3,693
Aug	1,118	1,052	450	366	602	91	3,680
Sep	1,019	1,035	456	383	611	98	3,602
Oct	1,055	1,013	449	340	593	107	3,556
Nov	995	874	421	317	400	108	3,115
Dec	978	638	398	315	531	108	2,968
YTD	1,014	968	441	361	583	77	3,444
2009							
Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	913	529	412	341	568	117	2,881
Feb	1,050	856	419	357	599	133	3,413
Mar	1,197	850	426	374	593	138	3,578
Apr	1,149	810	404	363	597	126	3,451
May	1,193	883	435	373	618	133	3,635
Jun	1,092	1,027	447	403	625	142	3,735
Jul	1,054	992	415	372	622	143	3,597
Aug	1,056	1,036	438	376	587	150	3,643
Sep	1,100	1,073	444	420	605	151	3,793
Oct	1,109	1,053	438	434	574	154	3,761
Nov	1,163	949	442	432	607	159	3,752
Dec	1,137	804	428	397	592	167	3,526
YTD	1,101	905	429	387	599	143	3,564

Table 3.2-2M (Cont.)
Consumption of Natural Gas by Sector

Unit : MMSCFD

Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
	2010						
Jan	1,043	919	434	428	597	154	3,576
Feb	1,196	1,087	435	473	520	171	3,884
Mar	1,491	761	434	499	573	176	3,933
Apr	1,264	1,027	444	450	563	165	3,913
May	1,377	1,070	445	464	552	167	4,074
Jun	1,459	1,053	434	488	552	181	4,166
Jul	1,356	996	416	472	673	179	4,091
Aug	1,374	902	437	492	745	181	4,131
Sep	1,403	955	454	506	749	190	4,256
Oct	1,419	893	464	472	837	193	4,278
Nov	1,427	826	445	491	682	204	4,075
Dec	1,331	847	434	498	767	210	4,086
YTD	1,346	943	440	478	652	181	4,039
	2011						
Jan	1,176	697	466	485	859	207	3,890
Feb	1,341	752	471	501	840	230	4,135
Mar	1,202	893	486	576	972	231	4,360
Apr	1,089	911	468	562	932	215	4,178
May	1,239	980	478	570	897	238	4,401
Jun	1,171	1,013	496	605	812	246	4,342
Jul	1,087	955	472	591	756	242	4,103
Aug	1,154	1,004	475	601	784	248	4,265
Sep	1,113	888	477	627	975	248	4,327
Oct	1,013	782	437	581	803	222	3,838
Nov	1,100	793	421	563	871	197	3,945
Dec	1,099	715	402	568	907	243	3,934
YTD	1,148	866	462	569	867	231	4,143

**Table 3.2-2M (Cont.)
Consumption of Natural Gas by Sector**

Unit : MMSCFD

Month	2012						Grand Total
	EGAT	Electricity		Industry	GSP	NGV	
		IPP	SPP	Total			
Jan	1,177	714	406	2,297	584	267	4,072
Feb	1,263	873	424	2,559	626	276	4,192
Mar	1,386	915	412	2,713	601	279	4,552
Apr	1,299	729	405	2,433	631	260	4,257
May	1,342	944	406	2,691	635	278	4,553
Jun	1,386	1,026	404	2,816	631	280	4,706
Jul	1,466	958	398	2,822	639	271	4,723
Aug	1,214	1,009	410	2,632	642	283	4,550
Sep	1,349	894	424	2,666	655	284	4,547
Oct	1,314	1,045	424	2,783	646	285	4,730
Nov	1,420	1,042	458	2,919	647	292	4,892
Dec	1,339	915	456	2,710	600	278	4,624
YTD	1,330	922	419	2,670	628	278	4,534

Remark : Heat value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-3M
Consumption Share of Natural Gas by Sector

Month	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
Jan	2,229	365	585	41	3,220	69.2	11.3	18.2	1.3	100.0
Feb	2,335	377	619	47	3,378	69.1	11.2	18.3	1.4	100.0
Mar	2,435	370	594	52	3,450	70.6	10.7	17.2	1.5	100.0
Apr	2,316	376	587	57	3,336	69.4	11.3	17.6	1.7	100.0
May	2,592	374	630	63	3,659	70.8	10.2	17.2	1.7	100.0
Jun	2,591	357	647	72	3,667	70.7	9.7	17.6	2.0	100.0
Jul	2,625	392	593	83	3,693	71.1	10.6	16.1	2.2	100.0
Aug	2,620	366	602	91	3,680	71.2	9.9	16.4	2.5	100.0
Sep	2,510	383	611	98	3,602	69.7	10.6	17.0	2.7	100.0
Oct	2,516	340	593	107	3,556	70.8	9.6	16.7	3.0	100.0
Nov	2,289	317	400	108	3,115	73.5	10.2	12.9	3.5	100.0
Dec	2,014	315	531	108	2,968	67.8	10.6	17.9	3.6	100.0
YTD	2,423	361	583	77	3,444	70.4	10.5	16.9	2.2	100.0

Month	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
Jan	1,854	341	568	117	2,881	64.4	11.9	19.7	4.1	100.0
Feb	2,325	357	599	133	3,413	68.1	10.5	17.5	3.9	100.0
Mar	2,473	374	593	138	3,578	69.1	10.5	16.6	3.8	100.0
Apr	2,364	363	597	126	3,451	68.5	10.5	17.3	3.6	100.0
May	2,511	373	618	133	3,635	69.1	10.3	17.0	3.7	100.0
Jun	2,565	403	625	142	3,735	68.7	10.8	16.7	3.8	100.0
Jul	2,461	372	622	143	3,597	68.4	10.4	17.3	4.0	100.0
Aug	2,531	376	587	150	3,643	69.5	10.3	16.1	4.1	100.0
Sep	2,617	420	605	151	3,793	69.0	11.1	16.0	4.0	100.0
Oct	2,599	434	574	154	3,761	69.1	11.5	15.3	4.1	100.0
Nov	2,554	432	607	159	3,752	68.1	11.5	16.2	4.2	100.0
Dec	2,369	397	592	167	3,526	67.2	11.2	16.8	4.8	100.0
YTD	2,435	387	599	143	3,564	68.3	10.9	16.8	4.0	100.0

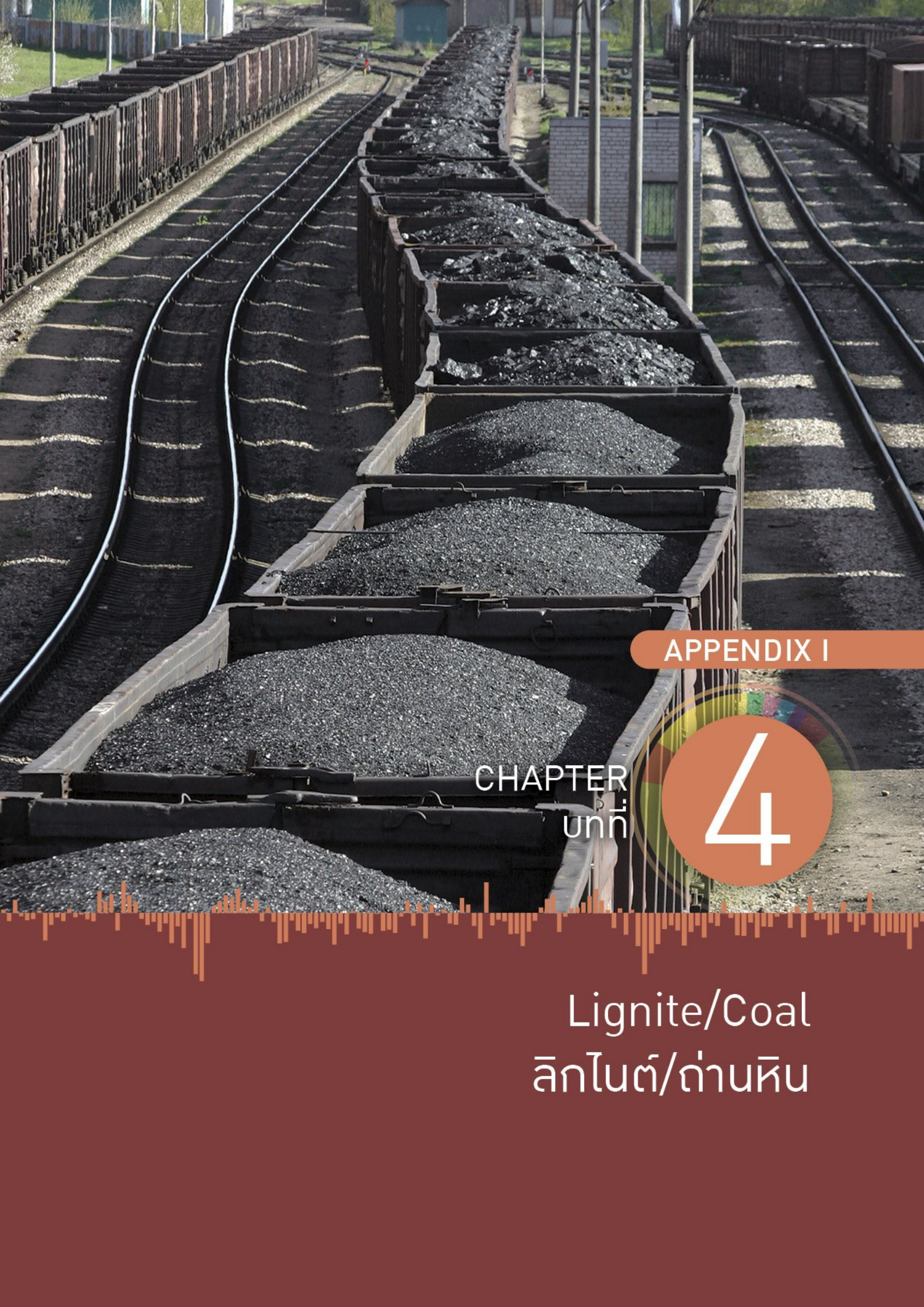
Table 3.2-3M (Cont.)
Consumption Share of Natural Gas by Sector

Month	MMSCFD				Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
2010									
Jan	2,397	428	597	154	3,576	67.0	12.0	16.7	100.0
Feb	2,719	473	520	171	3,884	70.0	12.2	13.4	100.0
Mar	2,686	499	573	176	3,933	68.3	12.7	14.6	100.0
Apr	2,735	450	563	165	3,913	69.9	11.5	14.4	100.0
May	2,891	464	552	167	4,074	71.0	11.4	13.5	100.0
Jun	2,946	488	552	181	4,166	70.7	11.7	13.2	100.0
Jul	2,767	472	673	179	4,091	67.6	11.5	16.4	100.0
Aug	2,713	492	745	181	4,131	65.7	11.9	18.0	100.0
Sep	2,811	506	749	190	4,256	66.1	11.9	17.6	100.0
Oct	2,777	472	837	193	4,278	64.9	11.0	19.6	100.0
Nov	2,697	491	682	204	4,075	66.2	12.1	16.7	100.0
Dec	2,612	498	767	210	4,086	63.9	12.2	18.8	100.0
YTD	2,728	478	652	181	4,039	67.6	11.8	16.1	100.0
2011									
Month	MMSCFD				Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
Jan	2,338	485	859	207	3,890	60.1	12.5	22.1	100.0
Feb	2,564	501	840	230	4,135	62.0	12.1	20.3	100.0
Mar	2,581	576	972	231	4,360	59.2	13.2	22.3	100.0
Apr	2,469	562	932	215	4,178	59.1	13.4	22.3	100.0
May	2,697	570	897	238	4,401	61.3	12.9	20.4	100.0
Jun	2,680	605	812	246	4,342	61.7	13.9	18.7	100.0
Jul	2,514	591	756	242	4,103	61.3	14.4	18.4	100.0
Aug	2,633	601	784	248	4,265	61.7	14.1	18.4	100.0
Sep	2,478	627	975	248	4,327	57.3	14.5	22.5	100.0
Oct	2,232	581	803	222	3,838	58.2	15.2	20.9	100.0
Nov	2,314	563	871	197	3,945	58.7	14.3	22.1	100.0
Dec	2,216	568	907	243	3,934	56.3	14.4	23.0	100.0
YTD	2,476	569	867	231	4,143	59.8	13.7	20.9	100.0

Table 3.2-3M (Cont.)
Consumption Share of Natural Gas by Sector

Month	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
Jan	2,297	584	924	267	4,072	56.4	14.3	22.7	6.6	100.0
Feb	2,559	626	730	276	4,192	61.0	14.9	17.4	6.6	100.0
Mar	2,713	601	960	279	4,552	59.6	13.2	21.1	6.1	100.0
Apr	2,433	631	933	260	4,257	57.2	14.8	21.9	6.1	100.0
May	2,691	635	949	278	4,553	59.1	13.9	20.8	6.1	100.0
Jun	2,816	631	979	280	4,706	59.8	13.4	20.8	6.0	100.0
Jul	2,822	639	989	271	4,723	59.8	13.5	20.9	5.7	100.0
Aug	2,632	642	994	283	4,550	57.9	14.1	21.8	6.2	100.0
Sep	2,666	655	942	284	4,547	58.6	14.4	20.7	6.2	100.0
Oct	2,783	646	1,017	285	4,730	58.8	13.6	21.5	6.0	100.0
Nov	2,919	647	1,034	292	4,892	59.7	13.2	21.1	6.0	100.0
Dec	2,710	600	1,035	278	4,624	58.6	13.0	22.4	6.0	100.0
YTD	2,670	628	958	278	4,534	58.9	13.8	21.1	6.1	100.0

Remark: Heat Value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

CHAPTER
บทที่

4

Lignite/Coal
ลิกไนต์/ถ่านหิน

Table 4.1-1 M
Production and Consumption of Lignite

Unit : Ton

Month	2008						2009					
	EGAT			Others			EGAT			Others		
	Mae-Moh	Krabi	Nationwide	Mae-Moh	Krabi	Nationwide	Mae-Moh	Krabi	Nationwide	Mae-Moh	Krabi	Nationwide
Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	
Jan	1,261,965	1,317,911	1,261,965	1,317,911	154,955	155,859	1,416,920	1,473,770				
Feb	1,322,581	1,291,476	1,322,581	1,291,476	89,760	200,731	1,412,341	1,492,207				
Mar	1,301,825	1,354,518	1,306,825	1,354,518	145,186	238,846	1,452,011	1,593,364				
Apr	1,454,233	1,414,483	1,454,233	1,414,483	188,095	183,093	1,642,328	1,597,576				
May	1,489,003	1,491,436	1,494,003	1,491,436	163,792	188,339	1,657,795	1,679,775				
Jun	1,453,387	1,372,230	1,461,387	1,372,230	251,406	230,523	1,712,793	1,602,753				
Jul	1,227,168	1,262,475	1,229,168	1,262,475	116,533	191,082	1,345,701	1,453,557				
Aug	1,325,345	1,334,370	1,328,593	1,334,370	183,916	185,890	1,512,510	1,520,260				
Sep	1,382,595	1,386,029	1,382,595	1,386,029	127,742	200,477	1,510,337	1,586,506				
Oct	1,328,904	1,337,526	1,328,904	1,337,526	106,675	180,396	1,435,579	1,517,922				
Nov	1,344,442	1,366,674	1,344,442	1,366,674	83,357	113,379	1,427,799	1,480,053				
Dec	1,529,399	1,478,337	1,529,399	1,478,337	39,872	55,472	1,569,271	1,533,809				
YTD	16,420,847	16,407,465	16,444,095	16,407,465	1,651,290	2,124,087	18,095,385	18,531,552				
Month	2009						2009					
	EGAT			Others			EGAT			Others		
	Mae-Moh	Krabi	Nationwide	Mae-Moh	Krabi	Nationwide	Mae-Moh	Krabi	Nationwide	Mae-Moh	Krabi	Nationwide
Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	
Jan	1,468,620	1,461,488	1,468,620	1,461,488	93,065	111,470	1,561,685	1,572,958				
Feb	1,174,194	1,144,939	1,174,194	1,144,939	138,458	157,131	1,312,652	1,302,070				
Mar	1,254,630	1,255,136	1,254,630	1,255,136	211,163	247,544	1,465,793	1,502,680				
Apr	1,227,083	1,313,460	1,227,083	1,313,460	217,794	234,662	1,444,877	1,548,122				
May	1,413,339	1,370,259	1,413,339	1,370,259	154,931	183,435	1,568,270	1,553,694				
Jun	1,435,227	1,463,154	1,435,227	1,463,154	177,569	194,639	1,612,796	1,657,793				
Jul	1,469,759	1,451,536	1,469,759	1,451,536	178,411	165,359	1,648,170	1,616,895				
Aug	1,279,005	1,304,125	1,279,005	1,304,125	217,282	179,357	1,496,287	1,483,482				
Sep	1,254,357	1,243,891	1,254,357	1,243,891	125,811	134,061	1,380,168	1,377,952				
Oct	1,143,009	1,287,741	1,143,009	1,287,741	109,720	41,449	1,252,729	1,329,190				
Nov	1,237,910	1,227,355	1,237,910	1,227,355	115,830	193,949	1,353,740	1,421,304				
Dec	1,274,633	1,295,181	1,274,633	1,295,181	194,300	199,472	1,468,933	1,494,653				
YTD	15,631,766	15,818,265	15,631,766	15,818,265	1,934,334	2,042,529	17,566,100	17,860,794				

**Table 4.1-1M (Cont.)
Production and Consumption of Lignite**

Unit : Ton

Month	2010						2011					
	EGAT			Total EGAT			EGAT			Total EGAT		
	Mae-Moh		Krabi	Mae-Moh		Krabi	Mae-Moh		Krabi	Mae-Moh		Krabi
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
Jan	1,358,183	1,363,194	1,358,183	1,363,194	177,050	171,521	1,645,139	1,491,892	191,874	277,871	1,837,013	1,769,763
Feb	1,209,511	1,161,660	1,209,511	1,161,660	252,862	144,184	1,394,702	1,350,179	176,770	307,575	1,571,472	1,657,754
Mar	1,343,448	1,370,186	1,343,448	1,370,186	222,982	189,422	1,529,052	1,524,371	200,700	289,908	1,729,752	1,814,279
Apr	1,412,283	1,427,231	1,412,283	1,427,231	206,286	161,905	1,455,516	1,453,644	172,400	278,587	1,627,916	1,732,231
May	1,537,747	1,482,298	1,537,747	1,482,298	183,169	165,206	1,340,459	1,552,462	171,000	253,227	1,511,459	1,805,689
Jun	1,242,187	1,257,482	1,242,187	1,257,482	218,660	188,479	1,618,168	1,490,675	182,905	260,229	1,801,073	1,750,904
Jul	1,276,520	1,278,053	1,276,520	1,278,053	153,860	155,133	1,456,668	1,537,595	861,525	120,233	2,318,193	1,657,828
Aug	1,291,936	1,370,701	1,291,936	1,370,701	132,330	134,749	1,664,345	1,393,272	310,755	308,030	1,975,100	1,701,302
Sep	1,303,351	1,219,748	1,303,351	1,219,748	123,300	132,236	1,377,383	1,344,072	1,080,640	283,836	2,458,023	1,627,908
Oct	1,301,037	1,340,644	1,301,037	1,340,644	165,200	61,942	1,352,220	1,391,102	136,026	287,435	1,488,246	1,678,537
Nov	1,370,110	1,357,249	1,370,110	1,357,249	173,200	290,589	1,141,767	1,277,770	155,800	66,034	1,297,567	1,343,804
Dec	1,340,950	1,375,750	1,340,950	1,375,750	261,900	222,319	1,582,917	1,354,134	128,375	124,024	1,711,292	1,478,158
YTD	15,987,263	16,004,196	15,987,263	16,004,196	2,270,799	2,017,685	17,558,336	17,161,168	3,768,770	2,856,989	21,327,106	20,018,157

Lignite/Coal

Table 4.1 - 1M (Cont.)
Production and Consumption of Lignite

Unit : Ton

Month	2012									
	Mae-Moh		Krabi		Total EGAT		Others		Nationwide	
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
Jan	1,292,151	1,422,026			1,292,151	1,422,026	161,879	86,026	1,454,030	1,508,052
Feb	1,480,657	1,305,278			1,480,657	1,305,278	123,334	54,232	1,603,991	1,359,510
Mar	1,313,185	1,396,404			1,313,185	1,396,404	125,950	86,462	1,439,135	1,482,866
Apr	1,372,951	1,423,127			1,372,951	1,423,127	365,320	74,782	1,738,271	1,497,909
May	1,529,188	1,487,165			1,529,188	1,487,165	284,522	65,895	1,813,710	1,553,060
Jun	1,249,878	1,464,663			1,249,878	1,464,663	32,848	60,762	1,282,726	1,525,425
Jul	1,632,368	1,329,878			1,632,368	1,329,878	45,420	249,397	1,677,788	1,579,275
Aug	1,247,007	1,518,295			1,247,007	1,518,295	31,740	212,345	1,278,747	1,730,640
Sep	1,536,691	1,325,208			1,536,691	1,325,208	31,650	172,756	1,568,341	1,497,964
Oct	1,343,814	1,305,321			1,343,814	1,305,321	112,720	189,694	1,456,534	1,495,015
Nov	1,271,893	1,440,217			1,271,893	1,440,217	117,135	174,743	1,389,028	1,614,960
Dec	1,320,678	1,336,699			1,320,678	1,336,699	43,450	184,502	1,364,128	1,521,201
YTD	16,590,461	16,754,281			16,590,461	16,754,281	1,475,968	1,611,596	18,066,429	18,365,877

Source : Department of Primary Industries and Mines (DPIM), EGAT

Table 4.2-1M
Coal Import

Unit : 1,000 Tons

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1988	40.27	24.62	52.48	56.06	49.08	13.15	39.53	3.87	5.54	48.12	9.86	18.51	361.08
1989	56.28	48.50	58.45	21.67	33.66	84.22	24.55	57.03	8.52	10.49	21.68	29.99	455.03
1990	21.00	19.09	31.75	7.13	56.19	54.10	10.37	21.95	25.80	7.45	22.07	64.01	340.90
1991	13.52	13.68	24.58	42.49	83.88	69.06	68.24	1.75	15.39	45.05	10.77	81.02	469.42
1992	0.90	31.60	140.89	8.40	0.78	8.85	75.47	54.80	32.96	43.03	9.36	93.83	500.85
1993	193.78	6.62	116.58	31.72	82.90	74.63	59.03	59.12	117.03	42.81	31.82	119.72	935.76
1994	137.83	70.65	39.54	99.37	168.57	130.76	162.35	163.51	111.79	155.01	140.90	138.93	1,519.21
1995	165.00	21.95	295.16	69.94	170.79	241.18	145.36	362.27	179.53	255.87	233.94	206.17	2,347.16
1996	127.96	87.99	180.88	313.03	313.71	481.60	333.40	382.72	397.35	256.60	510.81	519.79	3,905.84
1997	395.31	330.01	397.77	469.03	368.50	287.43	235.44	130.11	140.33	172.19	157.60	205.06	3,288.78
1998	33.59	50.22	47.16	61.23	116.34	158.75	134.79	193.28	133.01	255.77	247.60	201.23	1,632.98
1999	169.81	330.24	57.55	445.49	306.13	272.05	378.92	323.16	430.93	122.11	368.46	73.09	3,277.93
2000	378.32	325.88	132.41	353.40	382.56	390.15	378.13	467.09	420.24	248.30	236.71	470.02	4,183.20
2001	355.10	472.44	463.02	398.42	212.06	466.24	581.70	459.61	276.19	411.67	524.51	324.24	4,945.21
2002	428.95	325.34	471.01	397.54	386.63	455.33	618.43	394.41	475.20	582.29	594.80	468.92	5,598.84
2003	553.82	868.90	675.68	567.41	587.79	520.47	445.63	575.64	583.64	648.67	618.66	464.13	7,110.44
2004	426.58	419.12	353.70	617.44	654.58	497.82	764.34	596.09	679.98	854.35	652.34	1,033.61	7,549.95
2005	709.09	673.49	655.33	706.58	887.05	766.11	441.86	974.44	696.93	555.24	871.68	630.50	8,568.29
2006	678.58	665.24	965.31	684.08	1,118.73	1,090.71	553.04	1,040.25	1,130.49	1,110.90	1,132.69	1,044.78	11,214.80
2007	1,025.09	888.19	1,087.64	1,107.51	1,316.80	1,206.18	1,131.10	1,674.78	1,272.50	1,114.67	1,334.85	1,254.49	14,413.80
2008	1,309.80	1,483.34	1,322.25	1,536.05	1,510.23	1,245.74	1,363.82	1,252.98	1,310.96	1,383.52	1,008.61	1,251.71	15,979.00
2009	893.98	1,136.57	1,320.59	1,590.73	1,465.03	1,234.67	1,554.50	1,448.91	1,678.14	2,043.75	847.68	1,174.29	16,388.84
2010	1,260.12	1,339.83	1,267.86	1,925.20	1,419.13	1,361.40	1,133.69	1,040.14	1,612.57	1,600.90	1,327.56	1,615.80	16,904.21
2011	1,535.90	1,628.44	1,414.31	1,500.03	1,473.01	1,477.62	1,197.48	988.88	1,828.47	1,025.57	1,242.26	1,019.12	16,331.11
2012	1,098.52	1,586.88	1,476.17	1,884.86	1,502.83	1,160.14	1,466.07	1,956.48	1,635.71	2,315.32	1,330.74	990.65	18,404.37

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

5

CHAPTER
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Electricity
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Table 5.1-1M
Electricity Generation by Fuel Type

Unit : GWh

Month	2008											Total
	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	
Jan	739.38	2.54	1,504.67	2,644.43	2.05	0.00	0.06	342.25	1.80	1,280.14	5,363.75	11,881.10
Feb	714.01	95.98	1,472.24	2,441.37	1.32	0.12	0.06	170.17	2.14	1,155.92	5,477.56	11,530.95
Mar	823.86	449.24	1,537.81	2,741.85	2.63	0.11	0.07	152.47	3.74	1,231.51	6,344.41	13,287.76
Apr	824.42	341.43	1,623.50	3,002.93	5.97	0.08	0.00	260.31	3.55	1,159.36	5,370.33	12,591.95
May	542.47	91.78	1,693.16	3,345.53	1.01	0.10	0.05	167.29	1.15	1,172.51	6,042.77	13,057.87
Jun	530.02	4.28	1,573.29	3,209.43	1.81	0.13	0.05	227.36	1.12	1,057.22	6,179.88	12,784.63
Jul	520.52	1.71	1,426.75	3,515.10	1.42	0.13	0.05	275.81	3.12	1,156.32	6,169.54	13,070.50
Aug	436.71	1.29	1,528.56	3,528.01	1.29	0.14	0.05	271.38	3.12	1,176.01	6,092.15	13,038.75
Sep	388.36	1.79	1,557.74	3,154.20	1.79	0.13	0.07	327.00	3.69	1,168.49	5,770.06	12,373.38
Oct	376.44	0.00	1,526.44	3,419.39	1.28	0.13	0.06	268.44	2.85	1,211.22	5,911.31	12,717.60
Nov	428.33	0.00	1,558.82	3,149.15	1.29	0.10	0.06	183.02	1.26	1,140.68	4,884.89	11,347.64
Dec	626.11	0.00	1,676.25	3,109.54	1.37	0.09	0.06	138.02	1.16	1,127.00	3,859.10	10,538.74
YTD	6,950.69	990.08	18,679.29	37,260.97	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93

Month	2009											Total
	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	
Jan	742.81	33.27	1,640.53	2,622.14	1.24	0.09	0.06	171.11	1.47	1,175.62	4,020.95	10,409.34
Feb	715.34	0.00	1,308.97	2,833.02	1.01	0.14	0.06	106.09	2.07	1,028.56	5,098.89	11,094.18
Mar	810.43	0.00	1,467.57	3,782.28	12.90	0.09	0.06	130.43	3.84	1,247.76	5,444.00	12,899.41
Apr	718.98	0.00	1,484.73	3,738.41	8.24	0.03	0.05	108.28	3.70	1,131.85	4,970.90	12,165.21
May	539.55	1.74	1,526.55	3,884.36	6.78	0.03	0.01	147.44	2.26	1,149.93	5,523.26	12,781.95
Jun	367.89	7.27	1,596.28	3,511.53	1.16	0.09	0.02	182.69	1.49	1,210.22	5,793.66	12,672.35
Jul	368.54	1.86	1,619.79	3,501.53	1.94	0.13	0.01	236.85	2.24	1,163.26	5,907.05	12,803.25
Aug	584.43	149.59	1,465.13	3,282.64	0.43	0.14	0.31	275.08	1.87	1,114.68	6,283.35	13,157.69
Sep	391.91	3.42	1,414.31	3,542.13	2.91	0.14	0.30	205.87	1.04	1,148.99	6,039.65	12,750.71
Oct	476.09	181.21	1,447.91	3,713.20	1.80	0.15	0.14	273.76	1.68	1,161.96	5,854.99	13,112.93
Nov	516.94	30.56	1,423.55	3,633.83	2.79	0.16	0.45	336.00	1.12	1,155.70	5,171.54	12,272.68
Dec	732.77	39.28	1,526.71	3,715.89	3.82	0.17	0.34	277.76	1.21	1,207.95	4,732.41	12,238.36
YTD	6,965.73	448.23	17,922.09	41,761.01	45.07	1.40	1.86	2,451.41	24.03	13,896.54	64,840.70	148,358.11

Table 5.1-1M (Cont.)
Electricity Generation by Fuel Type

Unit : GWh

Month	2010											Total
	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo		Imported	DEDP	SPP	IPP	
						Thermal	Non Conventional					
Jan	618.82	15.71	1,516.20	3,426.01	2.71	0.15	0.36	164.14	1.52	1,263.47	5,554.42	12,563.56
Feb	638.58	3.70	1,326.95	3,680.29	4.43	0.10	0.33	143.12	1.72	1,095.52	5,702.45	12,597.24
Mar	769.18	155.17	1,562.91	4,697.21	5.05	0.13	0.45	568.33	3.83	1,267.29	5,466.86	14,496.44
Apr	512.75	16.63	1,585.88	3,996.71	3.16	0.09	0.48	741.42	3.70	1,170.34	5,876.20	13,907.42
May	520.91	51.70	1,658.24	4,330.16	2.78	0.09	0.45	791.99	1.53	1,153.95	6,360.42	14,872.26
Jun	415.50	23.04	1,434.94	4,201.51	2.56	0.14	0.40	789.05	1.48	1,090.41	6,275.37	14,234.45
Jul	334.90	168.90	1,436.77	4,039.46	7.68	0.12	0.50	801.08	2.30	1,050.59	6,372.14	14,214.47
Aug	340.78	53.78	1,525.45	4,345.63	1.78	0.13	0.55	768.50	3.03	1,152.60	5,549.60	13,741.87
Sep	245.45	39.39	1,363.66	4,424.80	2.73	0.13	0.34	780.24	2.15	1,092.89	5,691.64	13,643.46
Oct	170.85	7.28	1,508.24	4,665.88	2.39	0.17	0.51	795.42	1.10	1,139.27	5,350.08	13,641.23
Nov	328.70	0.00	1,525.55	4,539.11	2.86	0.17	0.67	486.98	0.47	1,165.96	4,866.90	12,917.42
Dec	450.27	22.98	1,542.78	4,455.67	3.41	0.18	0.56	423.47	0.75	1,228.46	4,709.84	12,838.42
YTD	5,346.75	558.31	17,987.62	50,802.50	41.58	1.64	5.65	7,253.78	23.63	13,870.80	67,775.98	163,668.29

Month	2011											Total
	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo		Imported	DEDP	SPP	IPP	
						Thermal	Non Conventional					
Jan	576.86	28.65	1,692.66	3,986.62	1.69	0.17	0.60	412.36	1.38	1,312.23	4,590.69	12,603.96
Feb	651.58	31.05	1,493.69	4,219.53	1.53	0.07	0.28	638.01	1.73	1,104.25	4,416.78	12,558.54
Mar	583.67	0.00	1,579.02	4,176.08	1.73	0.18	0.56	789.54	3.45	1,333.72	5,391.25	13,859.23
Apr	470.47	106.12	1,623.15	3,543.82	2.05	0.14	0.29	1,019.11	3.35	1,258.04	5,317.57	13,344.14
May	374.06	100.82	1,710.82	4,226.58	1.00	0.14	0.31	1,075.41	1.15	1,291.47	5,838.57	14,620.37
Jun	394.08	229.14	1,616.95	3,793.61	6.52	0.74	0.11	1,072.21	1.07	1,212.03	5,914.47	14,240.98
Jul	392.17	282.16	1,703.10	3,628.22	5.90	0.10	0.80	1,315.34	1.15	1,311.07	5,788.59	14,428.63
Aug	901.68	127.71	1,550.25	3,874.16	3.16	0.15	0.73	792.65	3.25	1,257.46	5,963.61	14,474.84
Sep	999.19	268.72	1,505.42	3,722.90	1.95	0.10	0.58	1,120.57	8.56	1,193.47	5,287.86	14,109.36
Oct	1,137.35	63.91	1,532.09	3,407.48	3.10	0.00	0.51	1,164.63	8.56	1,212.44	4,877.19	13,407.29
Nov	631.55	38.41	1,346.62	3,695.20	1.26	0.00	0.54	909.58	0.00	1,227.58	4,600.85	12,451.62
Dec	822.20	18.17	1,481.80	3,589.17	6.04	0.00	0.86	464.95	0.00	1,222.39	4,638.50	12,244.12
YTD	7,934.92	1,294.89	18,835.62	45,863.41	35.97	1.82	6.21	10,774.40	33.68	14,936.19	62,625.96	162,343.13

Table 5.1 - 1M (Cont.)
Electricity Generation by Fuel Type

Unit : GWh

Month	2012											Total
	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	
Jan	1,138.30	15.95	1,599.58	3,764.88	1.37	0.00	0.40	484.49	0.00	1,227.94	5,083.86	13,316.80
Feb	1,252.15	64.53	1,473.98	3,885.41	2.89	0.03	0.23	799.21	0.00	1,098.63	5,301.26	13,878.37
Mar	1,073.26	11.40	1,608.57	4,556.92	6.89	0.14	0.27	1,163.70	0.00	1,274.38	5,875.32	15,570.89
Apr	849.04	387.23	1,665.71	3,996.35	2.85	0.10	0.30	1,135.50	0.00	1,221.19	5,457.06	14,715.37
May	745.83	389.27	1,693.85	4,392.06	5.75	0.10	0.24	1,076.04	0.00	1,257.95	6,191.66	15,752.78
Jun	481.09	115.72	1,608.60	4,565.55	2.90	0.10	0.16	937.37	0.00	1,172.13	6,006.80	14,890.47
Jul	440.31	58.35	1,495.18	4,716.60	8.10	0.11	0.16	946.70	0.00	1,193.24	6,279.11	15,137.89
Aug	448.99	110.65	1,701.82	4,216.05	4.49	0.08	0.14	1,114.62	0.00	1,288.72	6,110.54	14,996.14
Sep	401.05	36.08	1,445.58	4,428.89	14.16	0.02	0.17	1,140.61	0.00	1,275.84	5,766.56	14,509.00
Oct	410.56	82.62	1,457.30	4,578.32	4.11	0.11	0.21	797.10	0.00	1,339.17	6,465.89	15,135.43
Nov	597.35	28.13	1,560.39	4,800.22	5.13	0.01	0.24	519.15	0.00	1,313.71	5,998.70	14,823.06
Dec	593.23	0.00	1,491.41	4,667.48	4.07	0.02	0.30	412.88	0.00	1,471.25	5,606.22	14,246.90
YTD	8,431.21	1,299.95	18,802.01	52,568.77	62.76	0.86	2.87	10,527.42	0.00	15,134.22	70,143.03	176,973.14

Source : EGAT

Remark : Power Generation from NG and Diesel Oil not include REGCO'S Generation Since Dec, 1994

Table 5.1-2M
Electricity Generation Classified by Fuel Type

Unit : GWh

2008								
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
Jan	739.4	2.5	2,623.6	7,950.3	2.1	342.3	221.0	11,881.1
Feb	714.0	96.0	2,533.5	7,817.4	1.3	170.2	198.6	11,531.0
Mar	823.9	449.2	2,698.2	8,954.6	2.6	152.5	206.7	13,287.8
Apr	824.4	341.4	2,780.0	8,182.0	6.0	260.3	197.8	12,592.0
May	542.5	91.8	2,730.9	9,342.4	1.0	167.3	182.1	13,057.9
Jun	530.0	4.3	2,603.6	9,243.2	1.8	227.4	174.4	12,784.6
Jul	520.5	1.7	2,498.4	9,590.4	1.4	275.8	182.2	13,070.5
Aug	436.7	1.3	2,514.8	9,641.3	1.3	271.4	172.1	13,038.8
Sep	388.4	1.8	2,581.8	8,899.0	1.8	327.0	173.7	12,373.4
Oct	376.5	0.0	2,593.8	9,301.9	1.3	268.5	175.8	12,717.6
Nov	428.3	0.0	2,417.6	8,194.6	1.3	183.0	122.8	11,347.6
Dec	626.1	0.0	2,261.6	7,341.0	1.4	138.0	170.6	10,538.8
YTD	6,950.7	990.1	30,837.7	104,458.0	23.3	2,783.6	2,177.7	148,220.9
2009								
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
Jan	742.8	33.3	2,688.5	6,572.1	1.3	171.1	200.3	10,409.3
Feb	715.4	0.0	2,280.6	7,680.2	1.0	106.1	310.9	11,094.2
Mar	810.4	0.0	2,585.0	9,168.4	12.9	130.4	192.3	12,899.4
Apr	719.0	0.0	2,579.3	8,579.8	8.2	108.3	170.6	12,165.2
May	539.6	1.7	2,623.5	9,283.3	6.8	147.5	179.6	12,782.0
Jun	367.9	7.3	2,664.2	9,273.5	1.2	182.7	175.6	12,672.4
Jul	368.5	1.9	2,734.5	9,262.1	1.9	236.9	197.5	12,803.3
Aug	584.4	149.6	2,547.8	9,417.9	0.4	275.1	182.5	13,157.7
Sep	391.9	3.4	2,485.6	9,486.2	2.9	205.9	174.9	12,750.7
Oct	476.1	181.2	2,281.2	9,738.4	1.8	273.8	160.5	13,112.9
Nov	517.0	30.6	2,143.1	9,086.1	2.8	336.0	157.2	12,272.7
Dec	732.8	39.3	2,194.9	8,795.4	3.8	277.8	194.5	12,238.4
YTD	6,965.7	448.2	29,808.1	106,343.4	45.1	2,451.4	2,296.3	148,358.1

Table 5.1 -2M (Cont.)
Electricity Generation Classified by Fuel Type

Unit : GWh

2010									
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total	
Jan	618.8	15.7	2,648.7	8,883.9	2.7	164.1	229.6	12,563.6	
Feb	638.6	3.7	2,335.2	9,265.2	4.4	143.1	207.0	12,597.3	
Mar	769.2	155.2	2,724.3	10,044.7	5.1	568.3	229.6	14,496.5	
Apr	512.8	16.6	2,671.8	9,750.9	3.2	741.4	210.8	13,907.4	
May	520.9	51.7	2,731.6	10,583.5	2.8	792.0	189.9	14,872.3	
Jun	415.5	23.0	2,490.9	10,327.3	2.6	789.1	186.1	14,234.5	
Jul	334.9	168.9	2,488.5	10,238.3	7.7	801.1	175.2	14,214.5	
Aug	340.8	53.8	2,647.3	9,761.3	1.8	768.5	168.5	13,741.9	
Sep	245.5	39.4	2,408.8	10,006.3	2.7	780.3	160.6	13,643.5	
Oct	170.9	7.3	2,353.7	10,142.0	2.4	795.4	169.6	13,641.2	
Nov	328.7	0.0	2,256.9	9,694.5	2.9	487.0	147.5	12,917.4	
Dec	450.3	23.0	2,006.5	9,740.4	3.4	423.5	191.4	12,838.4	
YTD	5,346.8	558.3	29,764.1	118,438.2	41.6	7,253.8	2,265.8	163,668.3	
2011									
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total	
Jan	576.9	28.7	2,799.7	8,566.4	1.7	412.4	218.3	12,604.0	
Feb	651.6	31.1	2,484.7	8,573.9	1.5	638.0	177.8	12,558.5	
Mar	583.7	0.0	2,710.6	9,552.4	1.7	789.5	221.3	13,859.2	
Apr	470.5	106.1	2,713.4	8,823.3	2.1	1,019.1	209.6	13,344.1	
May	374.1	100.8	2,854.3	10,021.0	1.0	1,075.4	193.7	14,620.4	
Jun	394.1	229.2	2,698.6	9,655.2	6.5	1,072.2	185.2	14,241.0	
Jul	392.2	282.2	2,890.2	9,336.4	5.9	1,315.3	206.5	14,428.6	
Aug	901.7	127.7	2,671.0	9,778.7	3.2	792.7	200.0	14,474.9	
Sep	999.2	268.7	2,636.1	8,922.4	2.0	1,120.6	160.4	14,109.4	
Oct	1,137.4	63.9	2,688.1	8,211.6	3.1	1,164.6	138.6	13,407.3	
Nov	631.6	38.4	2,229.0	8,451.9	1.3	909.6	189.9	12,451.6	
Dec	822.2	18.2	2,305.1	8,399.2	6.0	465.0	228.5	12,244.1	
YTD	7,934.9	1,294.9	31,680.9	108,292.2	36.0	10,774.4	2,329.8	162,343.1	

Table 5.1-2M (Cont.)
Electricity Generation Classified by Fuel Type

Unit : GWh

Month	2012							Total
	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	
Jan	1,138.3	16.0	2,860.8	8,583.9	1.4	484.5	231.9	13,316.8
Feb	1,252.2	64.5	2,575.7	8,977.3	2.9	799.2	206.6	13,878.4
Mar	1,073.3	11.4	2,939.1	10,135.7	6.9	1,163.7	240.9	15,570.9
Apr	849.1	387.2	3,147.7	8,972.2	2.9	1,135.5	220.9	14,715.4
May	745.8	389.3	3,030.0	10,262.6	5.8	1,076.0	243.3	15,752.8
Jun	481.1	115.7	2,818.6	10,340.3	2.9	937.4	194.5	14,890.5
Jul	440.3	58.4	2,725.3	10,732.6	8.1	946.7	226.6	15,137.9
Aug	449.0	110.7	3,005.5	10,083.6	4.5	1,114.6	228.4	14,996.1
Sep	401.1	36.1	2,957.9	9,741.9	14.2	1,140.6	217.3	14,509.0
Oct	410.6	82.6	3,027.7	10,589.7	4.1	797.1	223.7	15,135.4
Nov	597.4	28.1	2,749.6	10,727.0	5.1	519.2	192.2	14,823.1
Dec	593.2	0.0	2,679.7	10,286.9	4.1	412.9	259.2	14,246.9
YTD	8,431.2	1,300.0	34,517.5	119,433.6	62.8	10,527.4	2,685.4	176,973.1

Source : EGAT

Table 5.1-3M
Peak Generation Requirement, Energy Generation Requirement
and Load Factor

2008				
Month	Peak Generation Requirement		Gross Energy Generation Requirement (GWh)	Load Factor ^{3/} (%)
	Net Peak ^{1/} (MW)	Gross Peak ^{2/} (MW)		
Jan	-	20,733	11,881	77.0
Feb	-	20,708	11,531	80.0
Mar	-	22,122	13,288	80.7
Apr	-	22,568	12,592	77.5
May	-	21,610	13,058	81.2
Jun	-	21,396	12,785	83.0
Jul	-	21,489	13,071	81.8
Aug	-	21,590	13,054	81.3
Sep	-	21,014	12,401	82.0
Oct	-	20,711	12,718	82.5
Nov	-	20,201	11,348	78.0
Dec	-	18,394	10,539	77.0
Total	-	22,568	148,264	74.8

2009				
Month	Peak Generation Requirement		Gross Energy Generation Requirement (GWh)	Load Factor ^{3/} (%)
	Net Peak ^{1/} (MW)	Gross Peak ^{2/} (MW)		
Jan	18,603	19,082	10,409	73.3
Feb	20,754	21,301	11,094	77.5
Mar	21,318	21,851	12,899	79.3
Apr	22,045	22,596	12,165	74.8
May	20,828	21,366	12,782	80.4
Jun	20,845	21,361	12,672	82.4
Jul	20,506	21,141	12,812	81.5
Aug	21,258	21,766	13,158	81.2
Sep	20,957	21,444	12,752	82.6
Oct	21,020	21,585	13,113	81.7
Nov	21,804	22,380	12,277	76.2
Dec	20,886	21,505	12,238	76.5
Total	22,045	22,596	148,372	75.0

2010				
Month	Peak Generation Requirement		Gross Energy Generation Requirement (GWh)	Load Factor ^{3/} (%)
	Net Peak ^{1/} (MW)	Gross Peak ^{2/} (MW)		
Jan	20,970	21,510	12,564	78.5
Feb	21,872	22,449	12,597	83.5
Mar	23,304	23,886	14,496	81.6
Apr	23,898	24,495	13,907	78.9
May	24,010	24,630	14,872	81.2
Jun	23,237	23,813	14,234	83.0
Jul	22,866	23,574	14,214	81.0
Aug	21,893	22,417	13,742	82.4
Sep	22,215	22,731	13,635	83.3
Oct	21,774	22,360	13,641	82.0
Nov	22,295	22,884	12,917	78.4
Dec	22,302	22,964	12,838	75.1
Total	24,010	24,630	163,660	75.9

Table 5.1-3M (Cont.)
Peak Generation Requirement, Energy Generation Requirement
and Load Factor

2011				
Month	Peak Generation Requirement		Gross Energy Generation Requirement (GWh)	Load Factor ^{3/} (%)
	Net Peak ^{1/} (MW)	Gross Peak ^{2/} (MW)		
Jan	21,288	21,837	12,604	77.6
Feb	22,207	22,792	12,559	82.0
Mar	23,156	23,735	13,859	78.5
Apr	23,322	23,905	13,344	77.5
May	23,900	24,518	14,620	80.2
Jun	23,029	23,600	14,241	83.8
Jul	23,351	24,075	14,429	80.6
Aug	23,443	24,003	14,475	81.1
Sep	22,809	23,338	14,109	84.0
Oct	22,062	22,622	13,407	79.7
Nov	20,955	21,508	12,452	80.4
Dec	21,105	21,731	12,244	75.7
Total	23,900	24,518	162,343	75.6

2012				
Month	Peak Generation Requirement		Gross Energy Generation Requirement (GWh)	Load Factor ^{3/} (%)
	Net Peak ^{1/} (MW)	Gross Peak ^{2/} (MW)		
Jan	22,251	22,824	13,317	78.4
Feb	23,554	24,175	13,878	82.5
Mar	24,572	25,185	15,571	83.1
Apr	26,121	26,774	14,715	76.3
May	25,207	25,859	15,753	81.9
Jun	23,927	24,520	14,890	84.3
Jul	23,933	24,674	15,138	82.5
Aug	24,156	24,733	14,996	81.5
Sep	24,009	24,567	14,509	82.0
Oct	24,131	24,780	15,135	82.1
Nov	24,658	25,309	14,823	81.3
Dec	24,074	24,788	14,247	77.3
Total	26,121	26,774	176,973	75.2

Source : EGAT

Remark : 1/ Net Peak Generation Requirement on EGAT system excluding station service

2/ Gross Peak Generation Requirement estimated by EPPO since 2009 (estimated from Net Peak Generation Requirement and EGAT station service)

3/ Load Factor estimated from Gross Peak Generation Requirement and Gross Energy Generation Requirement

Table 5.1-4M
EGAT Purchased from SPP

Unit : GWh

2008					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	846.90	214.11	0.00	219.13	1,280.14
Feb	791.95	167.75	0.00	196.22	1,155.93
Mar	840.83	187.88	0.00	202.81	1,231.52
Apr	765.70	199.48	3.19	191.00	1,159.37
May	815.49	176.26	3.94	176.83	1,172.52
Jun	781.36	102.80	0.00	173.06	1,057.22
Jul	818.94	158.47	2.44	176.48	1,156.32
Aug	863.75	143.55	3.25	165.46	1,176.01
Sep	828.53	170.16	4.45	165.36	1,168.50
Oct	850.61	187.87	3.84	168.91	1,211.22
Nov	843.53	175.81	2.92	118.43	1,140.68
Dec	825.97	131.78	2.70	166.56	1,127.01
YTD	9,873.57	2,015.89	26.72	2,120.25	14,036.43

2009					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	825.10	151.87	2.94	195.73	1,175.63
Feb	607.01	112.93	2.76	305.86	1,028.56
Mar	892.67	166.77	2.54	185.79	1,247.77
Apr	771.00	194.11	2.49	164.26	1,131.86
May	826.78	145.86	2.41	174.89	1,149.94
Jun	865.88	170.37	2.38	171.61	1,210.23
Jul	803.60	164.62	2.69	192.36	1,163.26
Aug	817.73	116.78	2.87	177.29	1,114.68
Sep	828.99	146.60	2.39	171.03	1,149.00
Oct	850.30	153.13	2.46	156.07	1,161.96
Nov	834.94	165.34	2.40	153.03	1,155.70
Dec	835.74	179.48	2.26	190.48	1,207.96
YTD	9,759.71	1,867.85	30.58	2,238.41	13,896.54

2010					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	864.73	171.26	2.60	224.90	1,263.48
Feb	752.60	138.07	1.79	203.07	1,095.52
Mar	857.66	184.42	0.01	225.21	1,267.29
Apr	809.44	154.44	2.38	204.09	1,170.35
May	811.28	154.89	1.84	185.95	1,153.96
Jun	783.22	123.10	0.18	183.93	1,090.42
Jul	782.20	96.13	1.12	171.14	1,050.59
Aug	830.06	157.76	2.28	162.50	1,152.60
Sep	825.01	109.92	0.20	157.78	1,092.89
Oct	843.80	127.64	2.47	165.36	1,139.27
Nov	847.78	172.02	1.93	144.24	1,165.97
Dec	887.67	150.96	2.28	187.56	1,228.46
YTD	9,895.45	1,740.59	19.06	2,215.71	13,870.81

**Table 5.1-4M (Cont.)
EGAT Purchased from SPP**

Unit : GWh

2011					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	904.13	191.94	1.02	215.15	1,312.23
Feb	816.10	112.42	0.00	175.74	1,104.25
Mar	947.54	169.04	0.43	216.71	1,333.72
Apr	875.74	176.45	1.31	204.54	1,258.04
May	915.04	184.32	0.86	191.25	1,291.48
Jun	903.17	125.59	2.54	180.74	1,212.04
Jul	912.91	193.75	2.57	201.86	1,311.08
Aug	899.04	162.59	2.57	193.27	1,257.46
Sep	875.24	167.11	2.39	148.73	1,193.47
Oct	882.91	200.02	2.42	127.10	1,212.45
Nov	825.20	212.99	2.56	186.83	1,227.59
Dec	850.28	144.53	2.02	225.56	1,222.39
YTD	10,607.29	2,040.75	20.69	2,267.47	14,936.20

2012					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	826.78	169.67	1.60	229.89	1,227.95
Feb	790.83	101.47	2.73	203.61	1,098.64
Mar	853.30	180.66	2.92	237.51	1,274.39
Apr	787.85	212.91	2.30	218.13	1,221.19
May	811.00	204.03	2.87	240.05	1,257.95
Jun	834.87	143.06	2.19	192.01	1,172.14
Jul	855.43	111.50	2.57	223.74	1,193.25
Aug	881.94	178.61	2.35	225.83	1,288.73
Sep	887.50	171.21	1.90	215.24	1,275.85
Oct	921.31	194.57	2.60	220.71	1,339.18
Nov	967.46	149.88	2.90	193.48	1,313.72
Dec	1,009.22	192.20	3.04	266.80	1,471.26
YTD	10,427.48	2,009.76	29.97	2,667.02	15,134.22

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

**Table 5.1-5M
EGAT Purchased from IPP**

Unit : GWh

2008			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	4,458.95	904.81	5,363.75
Feb	4,584.09	893.47	5,477.56
Mar	5,371.89	972.53	6,344.42
Apr	4,413.31	957.03	5,370.34
May	5,181.33	861.45	6,042.78
Jun	5,252.40	927.48	6,179.89
Jul	5,256.35	913.20	6,169.55
Aug	5,249.52	842.64	6,092.15
Sep	4,916.23	853.84	5,770.07
Oct	5,031.84	879.48	5,911.32
Nov	4,201.94	682.95	4,884.89
Dec	3,405.54	453.57	3,859.11
YTD	57,323.37	10,142.45	67,465.82

2009			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	3,124.89	896.07	4,020.96
Feb	4,240.18	858.71	5,098.89
Mar	4,493.39	950.61	5,444.00
Apr	4,070.42	900.48	4,970.90
May	4,572.15	951.12	5,523.27
Jun	4,896.15	897.52	5,793.66
Jul	4,956.94	950.12	5,907.06
Aug	5,317.50	965.86	6,283.36
Sep	5,115.03	924.63	6,039.66
Oct	5,174.85	680.14	5,854.99
Nov	4,617.35	554.19	5,171.54
Dec	4,243.75	488.67	4,732.42
YTD	54,822.58	10,018.13	64,840.71

2010			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	4,593.17	961.25	5,554.42
Feb	4,832.24	870.22	5,702.46
Mar	4,489.85	977.01	5,466.86
Apr	4,944.75	931.45	5,876.21
May	5,442.01	918.41	6,360.43
Jun	5,342.58	932.80	6,275.38
Jul	5,416.59	955.56	6,372.14
Aug	4,585.56	964.04	5,549.61
Sep	4,756.48	935.16	5,691.64
Oct	4,632.33	717.76	5,350.09
Nov	4,307.55	559.35	4,866.91
Dec	4,397.09	312.76	4,709.85
YTD	57,740.20	10,035.79	67,775.99

Table 5.1-5M (Cont.)
EGAT Purchased from IPP

Unit : GWh

2011			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	3,675.62	915.08	4,590.69
Feb	3,538.19	878.59	4,416.78
Mar	4,428.74	962.51	5,391.26
Apr	4,403.76	913.82	5,317.58
May	4,879.39	959.19	5,838.58
Jun	4,958.44	956.04	5,914.48
Jul	4,795.21	993.38	5,788.59
Aug	5,005.48	958.13	5,963.61
Sep	4,324.25	963.61	5,287.86
Oct	3,921.17	956.02	4,877.19
Nov	3,931.49	669.36	4,600.85
Dec	3,959.72	678.79	4,638.50
YTD	51,821.45	10,804.51	62,625.97

2012			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	3,992.28	1,091.58	5,083.86
Feb	4,301.03	1,000.24	5,301.27
Mar	4,725.42	1,149.90	5,875.32
Apr	4,187.98	1,269.08	5,457.06
May	5,059.57	1,132.09	6,191.67
Jun	4,939.86	1,066.95	6,006.80
Jul	5,160.52	1,118.60	6,279.12
Aug	4,985.55	1,125.00	6,110.55
Sep	4,425.50	1,341.06	5,766.57
Oct	5,090.08	1,375.81	6,465.89
Nov	4,959.33	1,039.37	5,998.70
Dec	4,610.17	996.06	5,606.23
YTD	56,437.30	13,705.74	70,143.04

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)



**Table 5.2-1M
Electricity Consumption in MEA Service Areas (Classified by Tariff)**

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2008													
Jan	30.47	661.22	491.41	646.94	1,273.01	147.21	94.51	0.00	0.00	0.00	0.00	19.49	3,380.06
Feb	32.63	667.19	493.14	629.54	1,229.92	139.74	94.58	0.00	0.00	0.00	0.00	18.29	3,321.18
Mar	37.14	750.11	535.02	713.67	1,374.66	161.33	102.68	0.00	0.00	0.00	0.00	19.64	3,712.02
Apr	40.85	838.05	546.70	630.62	1,257.13	158.31	93.81	0.00	0.00	0.00	0.00	19.06	3,605.94
May	38.50	786.80	548.11	706.87	1,364.61	160.04	105.44	0.00	0.00	0.00	0.00	19.73	3,750.04
Jun	34.31	762.81	540.29	691.31	1,342.36	155.72	116.72	0.00	0.00	0.00	0.00	19.13	3,681.41
Jul	32.10	760.29	537.39	687.00	1,344.63	158.11	112.96	0.00	0.00	0.00	0.00	19.81	3,669.99
Aug	32.51	775.68	551.11	692.40	1,366.03	161.17	119.93	0.00	0.00	0.00	0.00	19.86	3,739.84
Sep	31.94	757.61	536.81	661.23	1,270.95	147.73	110.28	0.00	0.00	0.00	0.00	19.28	3,553.93
Oct	32.73	765.03	543.11	672.09	1,315.06	155.78	113.44	0.00	0.00	0.00	0.00	20.01	3,636.61
Nov	29.70	671.20	488.99	619.89	1,173.34	140.20	102.17	0.00	0.00	0.00	0.00	19.41	3,259.19
Dec	26.75	571.42	441.01	561.93	1,082.31	123.94	84.27	0.00	0.00	0.00	0.00	20.09	2,925.69
YTD	399.63	8,767.42	6,253.09	7,913.50	15,394.02	1,809.30	1,250.78	0.00	0.00	0.00	0.00	233.80	42,235.91
2009													
Jan	27.15	555.09	427.39	528.53	1,049.35	125.85	81.93	0.00	0.00	0.00	0.00	20.51	2,829.12
Feb	36.88	706.22	505.98	586.21	1,098.76	138.58	98.38	0.00	0.00	0.00	0.00	18.91	3,206.77
Mar	44.54	816.57	569.92	671.74	1,238.38	162.63	111.58	0.00	0.00	0.00	0.00	21.37	3,652.68
Apr	47.22	851.24	544.84	587.89	1,106.23	151.46	94.50	0.00	0.00	0.00	0.00	21.81	3,427.04
May	41.43	816.05	556.50	657.24	1,234.67	154.70	109.12	0.00	0.00	0.00	0.00	22.27	3,613.31
Jun	34.89	798.27	549.11	663.21	1,245.42	151.88	116.47	0.00	0.00	0.00	0.00	22.00	3,597.87
Jul	32.97	779.64	541.43	674.88	1,273.30	153.58	115.76	0.00	0.00	0.00	0.00	23.21	3,616.52
Aug	34.07	824.89	561.05	677.67	1,296.83	160.97	117.81	0.00	0.00	0.00	0.00	23.69	3,715.85
Sep	33.76	813.30	554.51	663.66	1,255.85	151.46	116.93	0.00	0.00	0.00	0.00	23.40	3,632.47
Oct	32.83	762.08	535.06	668.56	1,318.33	155.18	120.31	0.00	0.00	0.00	0.00	24.69	3,634.82
Nov	31.25	737.57	519.36	642.83	1,245.18	140.58	106.61	0.00	0.00	0.00	0.00	24.39	3,463.03
Dec	29.40	675.68	514.50	596.89	1,242.76	142.94	98.85	0.00	0.00	0.00	0.00	25.73	3,343.82
YTD	426.38	9,136.60	6,379.67	7,619.31	14,605.04	1,789.81	1,288.25	0.00	0.00	0.00	0.00	271.96	41,733.30

**Table 5.2-1M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Tariff)**

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2010													
Jan	32.10	725.69	523.86	609.93	1,272.82	147.22	104.82	0.00	0.00	0.00	0.00	26.23	3,461.18
Feb	35.17	783.12	559.48	603.95	1,271.27	145.57	108.85	0.00	0.00	0.00	0.00	23.73	3,549.02
Mar	39.28	865.74	585.78	678.58	1,432.43	164.48	110.19	0.00	0.00	0.00	0.00	26.32	3,923.33
Apr	43.53	960.17	598.13	615.76	1,260.79	156.04	105.70	0.00	0.00	0.00	0.00	26.37	3,789.30
May	44.27	1,015.32	624.80	658.62	1,368.39	150.06	107.04	0.00	0.00	0.00	0.00	26.38	4,017.47
Jun	37.92	942.92	613.49	680.63	1,418.06	152.60	127.41	0.00	0.00	0.00	0.00	25.56	4,021.16
Jul	32.65	879.08	592.56	668.85	1,443.33	159.40	125.18	0.00	0.00	0.00	0.00	26.47	3,946.69
Aug	30.25	827.78	569.51	644.83	1,403.22	149.56	124.77	0.00	0.00	0.00	0.00	26.54	3,795.27
Sep	30.47	824.46	574.41	656.37	1,411.03	148.84	123.86	0.00	0.00	0.00	0.00	25.73	3,813.71
Oct	30.44	773.87	550.39	636.84	1,393.15	145.94	110.04	0.00	0.00	0.00	0.00	26.70	3,683.66
Nov	30.01	742.14	532.06	617.34	1,351.20	138.39	102.75	0.00	0.00	0.00	0.00	25.88	3,554.94
Dec	30.26	729.33	534.71	614.24	1,300.25	144.48	107.29	0.00	0.00	0.00	0.00	26.80	3,504.43
YTD	416.35	10,069.61	6,859.18	7,685.95	16,325.93	1,802.57	1,357.89	0.00	0.00	0.00	0.00	312.71	45,060.16
2011													
Jan	29.71	663.93	498.90	583.64	1,309.63	132.00	92.43	0.00	0.00	0.00	0.00	26.89	3,350.67
Feb	33.96	737.31	530.59	588.33	1,287.57	135.96	96.08	0.00	0.00	0.00	0.00	24.33	3,450.16
Mar	36.46	753.44	538.21	662.42	1,442.64	144.34	102.51	0.00	0.00	0.00	0.00	34.18	3,730.94
Apr	40.42	806.94	537.41	581.44	1,286.64	144.54	89.44	0.00	0.00	0.00	0.00	28.50	3,532.55
May	43.30	906.08	604.87	666.01	1,439.54	159.02	111.92	0.00	0.00	0.00	0.00	29.51	3,979.73
Jun	40.20	874.62	603.06	675.93	1,455.54	155.18	124.64	0.00	0.00	0.00	0.00	28.93	3,976.87
Jul	36.80	857.37	588.44	667.96	1,446.47	154.97	120.96	0.00	0.02	0.00	0.00	29.76	3,921.37
Aug	34.71	850.28	588.27	663.96	1,436.96	157.18	122.02	0.00	1.68	0.00	0.00	29.75	3,902.41
Sep	34.00	834.69	579.71	672.01	1,478.78	154.98	118.62	0.00	6.88	0.00	0.00	26.28	3,923.33
Oct	32.53	782.30	556.17	609.59	1,370.48	154.38	111.21	0.00	9.30	0.00	0.00	29.80	3,673.29
Nov	32.23	770.58	530.21	550.44	1,246.33	150.63	107.93	0.00	10.88	0.00	0.00	29.23	3,445.43
Dec	28.16	661.06	488.58	572.82	1,268.36	136.52	95.48	0.00	13.34	0.00	0.00	29.84	3,308.00
YTD	422.47	9,498.61	6,644.43	7,494.56	16,468.94	1,779.70	1,293.24	0.00	42.08	0.00	0.00	346.99	44,194.74

**Table 5.2-1M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Tariff)**

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2012													
Jan	35.18	760.94	811.41	535.07	605.30	1,365.00	150.45	97.64	0.00	15.78	0.00	29.76	3,610.40
Feb	39.69	837.25	894.11	575.33	642.64	1,408.48	155.80	112.33	0.00	15.11	0.00	27.42	3,831.23
Mar	45.22	933.49	998.37	625.01	716.83	1,581.12	178.36	122.27	0.00	19.78	0.00	30.45	4,272.19
Apr	45.33	1,007.31	1,073.15	615.46	620.54	1,384.77	171.52	99.16	0.00	21.37	0.00	29.27	4,015.24
May	42.72	1,037.16	1,102.28	653.03	711.92	1,557.05	178.51	120.35	0.00	23.68	0.00	30.54	4,377.36
Jun	35.50	936.99	991.19	618.10	679.23	1,506.30	165.36	117.31	0.00	24.21	0.00	29.63	4,131.32
Jul	32.02	891.77	940.89	595.56	677.14	1,554.80	168.12	123.06	0.00	27.31	0.00	30.62	4,117.51
Aug	30.91	876.12	924.96	590.41	660.34	1,484.46	165.52	117.24	0.00	29.37	0.00	30.49	4,002.79
Sep	30.75	851.07	898.31	579.35	652.19	1,489.73	154.28	117.34	0.00	31.04	0.00	29.66	3,951.92
Oct	32.78	878.00	928.83	607.42	726.08	1,533.47	164.27	3.55	0.00	32.23	0.00	30.67	4,026.52
Nov	32.73	892.87	942.51	621.73	742.67	1,513.02	165.51	8.56	0.00	30.04	0.00	29.72	4,053.75
Dec	31.53	845.67	892.91	593.92	697.95	1,429.64	166.68	10.30	0.00	31.77	0.00	30.60	3,853.78
YTD	434.35	10,748.63	11,398.92	7,210.42	8,132.84	17,807.83	1,984.38	1,049.10	0.00	301.68	0.00	358.83	48,244.00

Source : MEA

Table 5.2-2M
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2008													
Jan	561.28	895.89	573.10	1,162.40	3,275.49	197.83	232.48	35.78	51.20	3.21	163.77	139.53	7,291.96
Feb	553.99	908.45	575.90	1,150.47	3,176.16	192.30	235.78	35.29	55.10	2.58	165.08	134.93	7,186.02
Mar	624.03	966.02	611.17	1,296.91	3,573.23	219.91	252.32	43.28	58.49	4.10	158.97	124.97	7,933.40
Apr	691.63	1,096.84	661.97	1,212.84	3,188.60	220.66	248.79	38.38	56.55	6.10	140.62	122.27	7,685.23
May	666.97	1,034.06	644.89	1,299.06	3,547.38	210.98	251.72	14.47	57.04	10.66	143.70	122.86	8,003.78
Jun	630.10	1,008.21	632.92	1,272.08	3,447.48	197.51	284.09	14.90	58.12	14.85	161.73	121.97	7,843.97
Jul	632.85	1,055.44	654.79	1,298.88	3,569.16	209.15	281.81	26.56	59.36	12.37	158.78	126.44	8,085.59
Aug	639.47	1,053.32	657.43	1,311.18	3,491.66	212.47	290.67	20.50	59.78	4.95	155.32	128.44	8,025.20
Sep	620.52	1,010.38	633.54	1,284.31	3,290.45	189.83	316.31	13.86	59.25	7.05	129.31	127.47	7,682.29
Oct	652.41	1,080.61	662.86	1,259.64	3,322.52	208.09	271.46	11.86	61.69	11.61	147.97	132.27	7,822.98
Nov	584.44	936.31	597.43	1,191.41	3,024.30	187.06	252.05	5.98	57.71	8.43	136.30	130.67	7,112.09
Dec	547.10	859.50	570.59	1,054.22	2,697.13	179.35	223.31	20.60	55.05	6.95	127.66	131.80	6,473.26
YTD	7,404.77	11,905.03	7,476.60	14,793.40	39,603.55	2,425.15	3,140.78	281.46	689.34	92.84	1,789.21	1,543.63	91,145.76
2009													
Jan	565.98	857.77	559.00	1,012.74	2,645.18	185.16	217.87	38.06	52.57	7.02	136.52	137.20	6,415.08
Feb	582.13	868.02	572.53	1,073.55	2,696.21	197.70	241.22	44.72	56.96	12.35	134.47	125.39	6,605.24
Mar	741.10	1,071.14	697.72	1,252.51	3,169.72	229.80	296.80	45.88	59.31	5.92	148.03	136.79	7,854.73
Apr	759.14	1,087.27	688.93	1,172.86	2,861.58	230.68	253.39	33.13	55.00	24.27	144.00	130.01	7,440.26
May	757.00	1,104.30	705.17	1,287.67	3,242.55	218.46	281.66	20.17	57.35	3.03	153.43	132.08	7,962.87
Jun	659.89	1,081.07	673.76	1,232.23	3,327.83	209.67	311.00	18.99	57.40	3.85	128.82	129.38	7,833.90
Jul	663.72	1,111.74	685.09	1,263.37	3,392.40	219.89	296.08	24.07	55.27	9.80	129.98	132.07	7,983.46
Aug	672.80	1,150.15	704.73	1,311.17	3,430.48	228.57	318.80	26.00	57.67	3.96	131.21	135.60	8,171.14
Sep	657.39	1,101.44	688.93	1,279.43	3,384.41	213.14	351.11	16.94	55.77	7.08	124.32	89.61	7,969.59
Oct	671.01	1,117.39	690.54	1,288.38	3,565.09	222.62	288.76	10.16	56.67	6.23	122.97	140.57	8,180.39
Nov	612.56	1,041.81	661.27	1,245.02	3,350.52	210.11	279.23	12.21	54.05	5.52	126.28	139.67	7,738.24
Dec	573.93	968.47	634.95	1,246.36	3,292.63	223.61	252.45	27.52	52.98	4.03	145.80	142.77	7,565.51
YTD	7,916.66	12,560.58	7,962.63	14,665.28	38,358.60	2,589.40	3,388.37	317.86	670.99	93.07	1,625.82	1,571.14	91,720.40

**Table 5.2-2M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Tariff)**

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2010													
Jan	624.57	1,026.87	665.04	1,222.39	3,392.13	236.31	266.29	43.65	55.68	4.70	145.29	147.91	7,830.84
Feb	616.07	1,012.34	654.38	1,216.95	3,352.76	239.13	282.31	48.48	55.05	2.39	130.20	135.89	7,745.96
Mar	738.03	1,209.03	761.76	1,414.30	3,806.29	267.67	306.24	55.49	63.27	4.23	142.72	144.42	8,913.45
Apr	800.67	1,307.21	783.30	1,333.73	3,436.32	272.36	293.57	42.42	64.02	3.06	133.67	139.74	8,610.07
May	817.98	1,404.17	827.12	1,450.94	3,806.40	268.27	333.12	27.34	80.89	4.01	150.84	140.92	9,311.98
Jun	702.40	1,301.50	765.09	1,391.45	3,670.77	239.25	348.73	27.45	75.17	3.62	142.81	136.22	8,804.45
Jul	679.60	1,296.09	759.76	1,402.83	3,799.91	247.79	347.09	30.43	61.61	10.53	147.38	145.65	8,928.66
Aug	649.42	1,235.31	726.55	1,374.60	3,786.53	242.97	316.43	11.57	59.38	6.70	136.65	144.50	8,690.60
Sep	633.15	1,195.15	707.14	1,367.99	3,723.77	233.82	340.64	8.52	60.04	4.63	120.52	133.62	8,529.01
Oct	663.11	1,226.26	731.38	1,332.42	3,890.23	239.97	305.52	9.46	62.61	7.90	133.92	152.73	8,755.54
Nov	587.22	1,062.04	655.85	1,276.93	3,691.60	220.43	271.30	9.62	59.19	19.69	127.60	145.47	8,126.95
Dec	607.74	1,104.63	689.29	1,276.79	3,643.38	239.39	280.24	20.87	64.93	10.64	130.78	153.89	8,222.58
YTD	8,119.97	14,380.59	8,726.67	16,061.32	44,000.09	2,947.36	3,691.49	335.29	761.84	82.09	1,642.39	1,720.98	102,470.08
2011													
Jan	597.69	1,035.20	658.04	1,211.71	3,649.61	235.92	255.47	46.87	62.00	2.77	137.36	156.60	8,049.24
Feb	586.59	986.34	632.33	1,192.51	3,585.07	240.14	258.04	54.53	60.46	7.22	125.21	141.63	7,870.06
Mar	710.54	1,180.22	746.45	1,366.54	3,982.76	255.78	290.16	47.47	70.04	4.73	151.37	152.71	8,958.77
Apr	725.02	1,151.77	713.83	1,271.10	3,541.98	257.08	258.76	36.92	64.37	4.93	132.20	146.62	8,304.58
May	779.03	1,297.68	791.58	1,434.36	3,870.56	267.18	301.58	14.96	70.77	6.54	138.87	148.14	9,121.26
Jun	716.39	1,262.89	772.28	1,414.95	3,855.72	250.29	342.71	14.23	71.74	3.13	132.55	141.72	8,978.61
Jul	723.39	1,296.71	781.81	1,400.91	3,989.61	264.80	340.16	20.69	70.71	8.60	141.53	146.56	9,185.49
Aug	693.09	1,305.64	773.07	1,408.80	3,994.37	264.13	334.40	10.78	68.90	11.07	139.21	151.45	9,154.90
Sep	676.93	1,276.45	747.48	1,345.59	4,007.53	248.17	378.03	5.74	66.06	6.02	130.33	153.17	9,041.50
Oct	686.50	1,280.28	744.66	1,254.46	3,595.73	249.61	286.16	5.62	65.08	8.03	131.43	150.49	8,458.06
Nov	659.23	1,226.20	721.99	1,151.44	3,203.12	249.15	281.71	10.92	62.34	3.85	124.32	163.56	7,857.84
Dec	624.49	1,196.40	718.25	1,169.54	3,354.68	237.35	267.81	27.98	66.07	1.67	134.11	168.74	7,967.08
YTD	8,178.87	14,495.78	8,801.77	15,621.92	44,630.74	3,019.61	3,594.99	296.71	798.54	68.57	1,618.49	1,821.40	102,947.38



Electricity

**Table 5.2-2M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Tariff)**

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	
	< 150 kWh	> 150 kWh												Total
2012														
Jan	639.83	1,189.36	1,829.18	710.46	1,197.92	3,605.48	266.99	253.38	46.33	67.10	9.15	138.05	161.17	8,285.21
Feb	643.18	1,208.18	1,851.36	725.07	1,260.63	3,797.18	271.65	279.84	50.42	67.89	41.84	134.68	150.61	8,631.17
Mar	763.01	1,426.35	2,189.35	831.86	1,412.78	4,185.25	302.54	308.74	50.92	74.44	49.47	150.47	155.86	9,711.70
Apr	772.63	1,455.78	2,228.40	817.06	1,309.37	3,769.50	302.34	272.14	38.24	70.47	54.48	133.61	147.99	9,143.62
May	802.38	1,563.99	2,366.37	870.69	1,439.62	4,259.26	295.13	310.72	22.67	74.74	62.03	129.55	149.41	9,980.20
Jun	680.04	1,398.26	2,078.30	784.94	1,368.90	4,136.86	277.07	326.16	20.76	74.10	53.78	125.29	141.64	9,387.78
Jul	677.96	1,426.57	2,104.53	799.93	1,400.14	4,248.16	283.65	333.63	32.41	72.97	60.08	148.26	146.69	9,630.44
Aug	662.44	1,417.99	2,080.43	789.87	1,368.21	4,155.74	292.00	307.71	32.86	73.24	64.83	145.11	149.55	9,459.54
Sep	646.03	1,342.33	1,988.37	763.34	1,350.03	4,118.23	264.89	343.18	11.51	70.56	58.62	142.77	140.93	9,252.41
Oct	684.79	1,415.98	2,100.77	899.50	1,566.41	4,216.32	282.19	5.16	23.49	72.57	55.69	149.06	158.40	9,529.56
Nov	683.91	1,445.28	2,129.19	906.56	1,571.79	4,169.55	286.65	4.45	18.99	75.22	39.55	142.70	162.12	9,506.77
Dec	682.50	1,419.45	2,101.94	905.23	1,510.71	3,932.08	295.07	4.58	28.48	77.04	36.47	138.96	168.20	9,198.76
YTD	8,338.68	16,709.52	25,048.20	9,804.49	16,756.50	48,593.60	3,420.17	2,749.69	377.07	870.35	586.00	1,678.51	1,832.56	111,717.16

Source : PEA

Table 5.2-3M
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh													
	2008														
Jan	591.75	1,557.11	1,064.52	1,809.34	4,548.50	345.04	326.99	35.78	51.20	3.21	163.77	159.02	10,672.02	174.41	10,846.43
Feb	586.62	1,575.65	1,069.04	1,780.01	4,406.08	332.05	330.36	35.29	55.10	2.58	165.08	153.22	10,507.20	175.39	10,682.60
Mar	661.17	1,716.13	1,146.19	2,010.57	4,947.90	381.24	355.00	43.28	58.49	4.10	158.97	144.61	11,645.42	204.67	11,850.09
Apr	732.48	1,934.89	1,208.67	1,843.46	4,445.73	378.97	342.60	38.38	56.55	6.10	140.62	141.34	11,291.17	180.62	11,471.79
May	705.47	1,820.86	1,193.01	2,005.93	4,911.99	371.02	357.16	14.47	57.04	10.66	143.70	142.59	11,753.82	180.24	11,934.06
Jun	664.41	1,771.02	1,173.21	1,963.39	4,789.84	353.23	400.81	14.90	58.12	14.85	161.73	141.10	11,525.38	196.72	11,721.09
Jul	664.95	1,815.74	1,192.18	1,985.88	4,913.78	367.27	394.77	26.56	59.36	12.37	158.78	146.25	11,755.58	188.44	11,944.02
Aug	671.97	1,828.99	1,208.53	2,003.58	4,857.70	373.65	410.60	20.50	59.78	4.95	155.32	148.30	11,765.04	216.26	11,981.30
Sep	652.46	1,767.99	1,170.35	1,945.54	4,561.39	337.56	426.59	13.86	59.25	7.05	129.31	146.76	11,236.22	174.46	11,410.67
Oct	685.14	1,845.64	1,205.97	1,931.73	4,637.58	363.87	384.90	11.86	61.69	11.61	147.97	152.28	11,459.59	157.72	11,617.31
Nov	614.14	1,607.51	1,086.42	1,811.30	4,197.64	327.27	354.22	5.98	57.71	8.43	136.30	150.08	10,371.29	141.64	10,512.93
Dec	573.85	1,430.92	1,011.60	1,616.15	3,779.45	303.29	307.58	20.60	55.05	6.95	127.66	151.89	9,398.95	149.05	9,547.99
YTD	7,804.40	20,672.45	13,729.70	22,706.90	54,997.57	4,234.45	4,391.56	281.46	689.34	92.84	1,789.21	1,777.43	133,381.68	2,138.61	135,520.29
	2009														
Jan	593.13	1,412.86	986.39	1,541.27	3,694.52	311.01	299.81	38.06	52.57	7.02	136.52	157.71	9,244.20	144.61	9,388.82
Feb	619.00	1,574.24	1,078.51	1,659.76	3,794.96	336.27	339.61	44.72	56.96	12.35	134.47	144.29	9,812.01	142.33	9,954.34
Mar	785.64	1,887.71	1,267.64	1,924.25	4,408.10	392.43	408.38	45.88	59.31	5.92	148.03	158.16	11,507.41	143.81	11,651.21
Apr	806.36	1,938.51	1,233.77	1,760.75	3,967.80	382.13	347.89	33.13	55.00	24.27	144.00	151.82	10,867.30	136.95	11,004.25
May	798.43	1,920.35	1,261.67	1,944.91	4,477.22	373.16	390.78	20.17	57.35	3.03	153.43	154.34	11,576.18	172.27	11,748.45
Jun	694.78	1,879.33	1,222.87	1,895.44	4,573.25	361.55	427.48	18.99	57.40	3.85	128.82	151.38	11,431.76	137.33	11,569.10
Jul	696.69	1,891.39	1,226.53	1,938.25	4,665.70	373.47	411.85	24.07	55.27	9.80	129.98	155.27	11,599.98	149.99	11,749.97
Aug	706.87	1,975.04	1,265.79	1,988.84	4,727.31	389.54	436.60	26.00	57.67	3.96	131.21	159.29	11,886.99	151.50	12,038.48
Sep	691.15	1,914.74	1,243.44	1,943.09	4,640.26	364.60	468.04	16.94	55.77	7.08	124.32	113.02	11,602.06	138.06	11,740.12
Oct	703.85	1,879.47	1,225.61	1,956.94	4,883.42	377.80	409.07	10.16	56.67	6.23	122.97	165.26	11,815.21	134.36	11,949.57
Nov	643.81	1,779.38	1,180.63	1,887.84	4,595.70	350.69	385.84	12.21	54.05	5.52	126.28	164.05	11,201.27	136.61	11,337.88
Dec	603.33	1,644.15	1,149.45	1,843.25	4,535.39	366.54	351.30	27.52	52.98	4.03	145.80	168.50	10,909.33	139.32	11,048.65
YTD	8,343.04	21,697.18	14,342.30	22,284.59	52,963.64	4,379.21	4,676.62	317.86	670.99	93.07	1,625.82	1,843.11	133,453.70	1,727.13	135,180.83

**Table 5.2-3M (Cont.)
Electricity Consumption for the Whole Country (Classified by Tariff)**

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh													
2010															
Jan	656.66	1,752.56	1,188.89	1,832.32	4,664.95	383.53	371.12	43.65	55.68	4.70	145.29	174.14	11,292.02	141.19	11,433.21
Feb	651.24	1,795.46	1,213.87	1,820.90	4,624.03	384.71	391.16	48.48	55.05	2.39	130.20	159.62	11,294.98	135.14	11,430.12
Mar	777.31	2,074.77	1,347.54	2,092.88	5,238.71	432.15	416.43	55.49	63.27	4.23	142.72	170.74	12,836.78	138.63	12,975.41
Apr	844.20	2,267.38	1,381.43	1,949.49	4,697.12	428.39	399.27	42.42	64.02	3.06	133.67	166.10	12,399.37	148.36	12,547.72
May	862.25	2,419.49	1,451.91	2,109.56	5,174.79	418.33	440.15	27.34	80.89	4.01	150.84	167.30	13,329.45	149.31	13,478.76
Jun	740.32	2,244.42	1,378.59	2,072.08	5,088.83	391.84	476.14	27.45	75.17	3.62	142.81	161.78	12,825.61	142.64	12,968.25
Jul	712.25	2,175.16	1,352.32	2,071.68	5,243.23	407.20	472.27	30.43	61.61	10.53	147.38	172.12	12,875.35	190.60	13,065.95
Aug	679.67	2,063.09	1,296.06	2,019.43	5,189.75	392.53	441.20	11.57	59.38	6.70	136.65	171.05	12,485.87	145.97	12,631.84
Sep	663.63	2,019.61	1,281.55	2,024.36	5,134.80	382.66	464.50	8.52	60.04	4.63	120.52	159.35	12,342.72	152.03	12,494.74
Oct	693.55	2,000.14	1,281.78	1,969.26	5,283.38	385.91	415.56	9.46	62.61	7.90	133.92	179.44	12,439.20	143.62	12,582.82
Nov	617.23	1,804.18	1,187.91	1,894.27	5,042.80	358.82	374.05	9.62	59.19	19.69	127.60	171.35	11,681.89	141.78	11,823.67
Dec	638.00	1,833.96	1,224.00	1,891.03	4,943.63	383.87	387.53	20.87	64.93	10.64	130.78	180.69	11,727.01	141.64	11,868.64
YTD	8,536.32	24,450.21	15,585.85	23,747.26	60,326.02	4,749.93	5,049.39	335.29	761.84	82.09	1,642.39	2,033.69	147,530.24	1,770.89	149,301.13
2011															
Jan	627.40	1,699.12	1,156.94	1,795.35	4,959.24	367.93	347.90	46.87	62.00	2.77	137.36	183.49	11,399.91	144.46	11,544.37
Feb	620.56	1,723.65	1,162.93	1,780.84	4,872.64	376.10	354.11	54.53	60.46	7.22	125.21	165.96	11,320.22	129.72	11,449.94
Mar	747.01	1,933.66	1,284.66	2,028.97	5,425.40	400.12	392.67	47.47	70.04	4.73	151.37	186.89	12,689.71	132.97	12,822.68
Apr	765.44	1,958.71	1,251.24	1,852.54	4,828.62	401.62	348.20	36.92	64.37	4.93	132.20	175.12	11,837.13	140.27	11,977.40
May	822.32	2,203.76	1,396.44	2,100.38	5,310.10	426.20	413.51	14.96	70.77	6.54	138.87	177.65	13,100.99	150.85	13,251.84
Jun	756.60	2,137.51	1,375.34	2,090.88	5,311.26	405.47	467.35	14.23	71.74	3.13	132.55	170.65	12,955.48	134.45	13,089.93
Jul	760.19	2,154.08	1,370.25	2,068.87	5,436.08	419.76	461.11	20.69	70.73	8.60	141.53	176.32	13,106.86	148.36	13,255.21
Aug	727.80	2,155.92	1,361.35	2,072.76	5,431.33	421.30	456.42	10.78	70.57	11.07	139.21	181.20	13,057.31	154.13	13,211.44
Sep	710.92	2,111.14	1,327.19	2,017.60	5,486.31	403.15	496.65	5.74	72.94	6.02	130.33	179.45	12,964.83	148.06	13,112.89
Oct	719.02	2,062.58	1,300.83	1,864.04	4,966.21	403.99	397.37	5.62	74.38	8.03	131.43	180.29	12,131.34	146.05	12,277.39
Nov	691.46	1,996.78	1,252.19	1,701.89	4,449.46	399.78	389.63	10.92	73.22	3.85	124.32	192.79	11,303.27	137.30	11,440.57
Dec	652.65	1,857.46	1,206.83	1,742.35	4,623.05	373.87	363.29	27.98	79.41	1.67	134.11	198.58	11,275.08	146.74	11,421.82
YTD	8,601.35	23,994.39	15,446.19	23,116.47	61,099.69	4,799.31	4,888.22	296.71	840.63	68.57	1,618.49	2,168.39	147,142.13	1,713.36	148,855.49

Table 5.2-3M (Cont.)
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total	
	< 150 kWh	> 150 kWh														Total
2012																
Jan	675.01	1,950.29	2,640.59	1,245.53	1,803.22	4,970.48	417.44	351.02	46.33	82.88	9.15	138.05	190.93	11,895.61	147.94	12,043.55
Feb	682.86	2,045.43	2,745.48	1,300.40	1,903.27	5,205.66	427.45	392.17	50.42	83.00	41.84	134.68	178.03	12,462.40	147.00	12,609.40
Mar	808.22	2,359.84	3,187.72	1,456.88	2,129.61	5,766.37	480.90	431.01	50.92	94.22	49.47	150.47	186.31	13,983.89	153.60	14,137.49
Apr	817.96	2,463.08	3,301.55	1,432.53	1,929.91	5,154.27	473.86	371.30	38.24	91.83	54.48	133.61	177.27	13,158.86	146.27	13,305.12
May	845.11	2,601.14	3,468.65	1,523.73	2,151.54	5,816.32	473.64	431.07	22.67	98.42	62.03	129.55	179.95	14,357.57	153.91	14,511.48
Jun	715.54	2,335.25	3,069.48	1,403.04	2,048.12	5,643.16	442.43	443.47	20.76	98.31	53.78	125.29	171.26	13,519.11	173.84	13,692.94
Jul	709.97	2,318.34	3,045.42	1,395.49	2,077.28	5,802.96	451.77	456.69	32.41	100.28	60.08	148.26	177.30	13,747.95	157.31	13,905.26
Aug	693.35	2,294.11	3,005.39	1,380.27	2,028.55	5,640.20	457.52	424.95	32.86	102.61	64.83	145.11	180.04	13,462.32	160.06	13,622.38
Sep	676.78	2,193.40	2,886.68	1,342.69	2,002.22	5,607.96	419.17	460.52	11.51	101.60	58.62	142.77	170.59	13,204.32	146.54	13,350.86
Oct	717.57	2,293.98	3,029.60	1,506.93	2,292.49	5,749.79	446.46	8.71	23.49	104.80	55.69	149.06	189.07	13,556.08	146.92	13,703.00
Nov	716.64	2,338.15	3,071.70	1,528.29	2,314.46	5,682.57	452.16	13.01	18.99	105.26	39.55	142.70	191.83	13,560.52	140.73	13,701.24
Dec	714.03	2,265.12	2,994.86	1,499.14	2,208.66	5,361.72	461.75	14.87	28.48	108.81	36.47	138.96	198.80	13,052.53	142.81	13,195.35
YTD	8,773.03	27,458.14	36,447.12	17,014.91	24,889.34	66,401.43	5,404.55	3,798.79	377.07	1,172.03	586.00	1,678.51	2,191.39	159,961.15	1,816.93	161,778.08

Source : MEA, PEA and EGAT

Table 5.2-4M
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2008										
Jan	707.48	491.41	882.96	1,122.89	94.51	0.00	61.32	3,360.58	19.49	3,380.06
Feb	715.97	493.14	849.22	1,106.33	94.58	0.00	43.65	3,302.89	18.29	3,321.18
Mar	805.01	535.02	958.36	1,251.03	102.68	0.00	40.27	3,692.37	19.64	3,712.02
Apr	900.30	546.70	928.33	1,072.98	93.81	0.00	44.76	3,586.88	19.06	3,605.94
May	845.24	548.11	954.41	1,219.63	105.44	0.00	57.49	3,730.32	19.73	3,750.04
Jun	815.90	540.29	953.04	1,207.94	116.72	0.00	28.40	3,662.28	19.13	3,681.41
Jul	810.09	537.39	946.38	1,204.88	112.96	0.00	38.47	3,650.18	19.81	3,669.99
Aug	829.35	551.11	970.47	1,164.17	119.93	0.00	84.96	3,719.99	19.86	3,739.84
Sep	807.66	536.81	929.88	1,126.22	110.28	0.00	23.81	3,534.65	19.28	3,553.93
Oct	817.12	543.11	957.05	1,125.96	113.44	0.00	59.93	3,616.60	20.01	3,636.61
Nov	715.17	488.99	873.99	1,038.81	102.17	0.00	20.64	3,239.78	19.41	3,259.19
Dec	612.13	441.01	816.12	905.61	84.27	0.00	46.46	2,905.60	20.09	2,925.69
YTD	9,381.42	6,253.09	11,020.20	13,546.46	1,250.78	0.00	550.16	42,002.11	233.80	42,235.91
2009										
Jan	595.56	427.39	797.04	862.17	81.93	0.00	44.51	2,808.61	20.51	2,829.12
Feb	759.95	505.98	850.11	931.05	98.38	0.00	42.39	3,187.87	18.91	3,206.77
Mar	877.06	569.92	975.28	1,046.66	111.58	0.00	50.81	3,631.31	21.37	3,652.68
Apr	920.31	544.84	900.10	896.18	94.50	0.00	49.29	3,405.23	21.81	3,427.04
May	878.82	556.50	934.15	1,056.79	109.12	0.00	55.67	3,591.05	22.27	3,613.31
Jun	849.78	549.11	937.64	1,066.48	116.47	0.00	56.38	3,575.87	22.00	3,597.87
Jul	834.35	541.43	938.57	1,089.65	115.76	0.00	73.54	3,593.31	23.21	3,616.52
Aug	877.83	561.05	966.30	1,087.06	117.81	0.00	82.11	3,692.16	23.69	3,715.85
Sep	866.66	554.51	937.32	1,090.80	116.93	0.00	42.85	3,609.07	23.40	3,632.47
Oct	812.69	535.06	940.11	1,130.40	120.31	0.00	71.55	3,610.13	24.69	3,634.82
Nov	784.09	519.36	880.28	1,074.75	106.61	0.00	73.56	3,438.64	24.39	3,463.03
Dec	722.16	514.50	894.18	1,037.37	98.85	0.00	51.04	3,318.09	25.73	3,343.82
YTD	9,779.26	6,379.67	10,951.08	12,369.37	1,288.25	0.00	693.71	41,461.34	271.96	41,733.30

Table 5.2-4M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
Jan	776.32	523.86	918.08	1,061.24	104.82	0.00	50.64	3,434.95	26.23	3,461.18
Feb	836.16	559.48	937.16	1,077.50	108.85	0.00	6.14	3,525.29	23.73	3,549.02
Mar	925.56	585.78	997.54	1,226.47	110.19	0.00	51.48	3,897.01	26.32	3,923.33
Apr	1,026.50	598.13	942.45	1,041.62	105.70	0.00	48.53	3,762.93	26.37	3,789.30
May	1,082.18	624.80	937.07	1,197.73	107.04	0.00	42.28	3,991.09	26.38	4,017.47
Jun	1,003.40	613.49	993.15	1,208.76	127.41	0.00	49.38	3,995.59	25.56	4,021.16
Jul	930.91	592.56	1,015.46	1,209.74	125.18	0.00	46.38	3,920.22	26.47	3,946.69
Aug	876.83	569.51	972.26	1,177.79	124.77	0.00	47.56	3,768.73	26.54	3,795.27
Sep	873.47	574.41	984.88	1,185.27	123.86	0.00	46.09	3,787.97	25.73	3,813.71
Oct	820.60	550.39	943.68	1,178.85	110.04	0.00	53.40	3,656.96	26.70	3,683.66
Nov	787.33	532.06	913.76	1,141.66	102.75	0.00	51.51	3,529.06	25.88	3,554.94
Dec	776.67	534.71	933.69	1,072.14	107.29	0.00	53.13	3,477.63	26.80	3,504.43
YTD	10,715.93	6,859.18	11,489.17	13,778.76	1,357.89	0.00	546.51	44,747.45	312.71	45,060.16
2011										
Jan	707.16	498.90	878.78	1,097.08	92.43	0.00	49.41	3,323.77	26.89	3,350.67
Feb	787.29	530.59	878.02	1,083.01	96.08	0.00	50.83	3,425.83	24.33	3,450.16
Mar	806.64	538.21	970.61	1,235.00	102.51	0.00	43.80	3,696.77	34.18	3,730.94
Apr	864.57	537.41	943.69	1,034.12	89.44	0.00	34.81	3,504.05	28.50	3,532.55
May	968.86	604.87	1,039.92	1,188.73	111.92	0.00	35.92	3,950.22	29.51	3,979.73
Jun	933.59	603.06	1,044.31	1,206.34	124.64	0.00	36.01	3,947.94	28.93	3,976.87
Jul	912.80	588.44	1,023.41	1,190.74	120.96	0.00	55.26	3,891.61	29.76	3,921.37
Aug	902.59	588.27	1,025.24	1,178.77	122.02	0.00	55.76	3,872.66	29.75	3,902.41
Sep	886.08	579.71	1,034.63	1,219.19	118.62	0.00	58.82	3,897.05	26.28	3,923.33
Oct	832.37	556.17	1,008.51	1,097.21	111.21	0.00	38.01	3,643.49	29.80	3,673.29
Nov	819.79	530.21	928.87	1,017.35	107.93	0.00	12.07	3,416.20	29.23	3,445.43
Dec	703.06	488.58	907.87	1,027.18	95.48	0.00	56.00	3,278.16	29.84	3,308.00
YTD	10,124.80	6,644.43	11,683.86	13,574.72	1,293.24	0.00	526.71	43,847.75	346.99	44,194.74

Table 5.2-4M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	2012							Total	Free of Charge	Grand Total
	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other			
Jan	811.41	535.07	974.92	1,091.96	97.64	0.00	69.65	3,580.64	29.76	3,610.40
Feb	894.11	575.33	981.02	1,172.89	112.33	0.00	68.13	3,803.81	27.42	3,831.23
Mar	998.37	625.01	1,074.87	1,282.36	122.27	0.00	138.86	4,241.73	30.45	4,272.19
Apr	1,073.15	615.46	1,046.34	1,072.26	99.16	0.00	79.60	3,985.97	29.27	4,015.24
May	1,102.28	653.03	1,124.00	1,261.91	120.35	0.00	85.25	4,346.83	30.54	4,377.36
Jun	991.19	618.10	1,069.92	1,223.02	117.31	0.00	82.16	4,101.69	29.63	4,131.32
Jul	940.89	595.56	1,108.50	1,247.92	123.06	0.00	70.95	4,086.89	30.62	4,117.51
Aug	924.96	590.41	1,049.76	1,193.25	117.24	0.00	96.68	3,972.29	30.49	4,002.79
Sep	898.31	579.35	1,044.78	1,196.04	117.34	0.00	86.42	3,922.25	29.66	3,951.92
Oct	928.83	607.42	1,158.11	1,229.85	3.55	0.00	68.08	3,995.85	30.67	4,026.52
Nov	942.51	621.73	1,159.34	1,223.65	8.56	0.00	68.23	4,024.03	29.72	4,053.75
Dec	892.91	593.92	1,118.78	1,114.28	10.30	0.00	92.98	3,823.18	30.60	3,853.78
YTD	11,398.92	7,210.42	12,910.34	14,309.39	1,049.10	0.00	1,007.00	47,885.17	358.83	48,244.00

Source : MEA

Table 5.2-5M
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
Jan	1,457.17	573.10	739.40	4,059.72	232.48	35.78	54.78	7,152.42	139.53	7,291.96
Feb	1,462.44	575.90	717.92	3,965.26	235.78	35.29	58.51	7,051.09	134.93	7,186.02
Mar	1,590.05	611.17	811.45	4,437.52	252.32	43.28	62.64	7,808.43	124.97	7,933.40
Apr	1,788.47	661.97	814.26	3,949.60	248.79	38.38	61.50	7,562.96	122.27	7,685.23
May	1,701.03	644.89	812.87	4,394.59	251.72	14.47	61.35	7,880.92	122.86	8,003.78
Jun	1,638.30	632.92	805.02	4,283.14	284.09	14.90	63.61	7,721.99	121.97	7,843.97
Jul	1,688.29	654.79	839.98	4,402.09	281.81	26.56	65.63	7,959.15	126.44	8,085.59
Aug	1,692.78	657.43	857.27	4,312.47	290.67	20.50	65.63	7,896.76	128.44	8,025.20
Sep	1,630.90	633.54	800.70	4,094.30	316.31	13.86	65.19	7,554.81	127.47	7,682.29
Oct	1,733.02	662.86	806.28	4,086.10	271.46	11.86	119.13	7,690.71	132.27	7,822.98
Nov	1,520.75	597.43	739.47	3,748.91	252.05	5.98	116.83	6,981.42	130.67	7,112.09
Dec	1,406.59	570.59	689.26	3,326.67	223.31	20.60	104.44	6,341.46	131.80	6,473.26
YTD	19,309.80	7,476.60	9,433.90	49,060.36	3,140.78	281.46	899.23	89,602.13	1,543.63	91,145.76
2009										
Jan	1,423.76	559.00	699.36	3,260.19	217.87	38.06	79.64	6,277.88	137.20	6,415.08
Feb	1,450.14	572.53	736.54	3,357.86	241.22	44.72	76.83	6,479.85	125.39	6,605.24
Mar	1,812.24	697.72	855.07	3,942.25	296.80	45.88	67.98	7,717.94	136.79	7,854.73
Apr	1,846.41	688.93	832.01	3,585.08	253.39	33.13	71.28	7,310.24	130.01	7,440.26
May	1,861.30	705.17	854.21	4,048.15	281.66	20.17	60.13	7,830.79	132.08	7,962.87
Jun	1,740.96	673.76	857.81	4,036.65	311.00	18.99	65.35	7,704.51	129.38	7,833.90
Jul	1,775.46	685.09	868.80	4,131.93	296.08	24.07	69.95	7,851.40	132.07	7,983.46
Aug	1,822.95	704.73	894.87	4,205.95	318.80	26.00	62.23	8,035.53	135.60	8,171.14
Sep	1,758.83	688.93	854.41	4,143.98	351.11	16.94	65.77	7,879.97	89.61	7,969.59
Oct	1,788.40	690.54	865.96	4,326.99	288.76	10.16	69.01	8,039.82	140.57	8,180.39
Nov	1,654.37	661.27	817.71	4,113.87	279.23	12.21	59.92	7,598.58	139.67	7,738.24
Dec	1,542.41	634.95	842.16	4,047.97	252.45	27.52	75.28	7,422.74	142.77	7,565.51
YTD	20,477.24	7,962.63	9,978.89	47,200.89	3,388.37	317.86	823.37	90,149.26	1,571.14	91,720.40



Electricity

Table 5.2-5M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
Jan	1,651.43	665.04	852.99	4,076.12	266.29	43.65	127.39	7,682.92	147.91	7,830.84
Feb	1,628.41	654.38	848.29	4,015.62	282.31	48.48	132.58	7,610.07	135.89	7,745.96
Mar	1,947.06	761.76	954.92	4,658.80	306.24	55.49	84.76	8,769.03	144.42	8,913.45
Apr	2,107.89	783.30	963.46	4,198.44	293.57	42.42	81.25	8,470.33	139.74	8,610.07
May	2,222.15	827.12	992.58	4,621.07	333.12	27.34	147.69	9,171.06	140.92	9,311.98
Jun	2,003.90	765.09	947.37	4,409.59	348.73	27.45	166.10	8,668.23	136.22	8,804.45
Jul	1,975.69	759.76	1,032.42	4,573.95	347.09	30.43	63.68	8,783.01	145.65	8,928.66
Aug	1,884.73	726.55	941.16	4,510.99	316.43	11.57	154.68	8,546.10	144.50	8,690.60
Sep	1,828.31	707.14	935.83	4,448.08	340.64	8.52	126.87	8,395.39	133.62	8,529.01
Oct	1,889.38	731.38	914.12	4,623.81	305.52	9.46	129.13	8,602.80	152.73	8,755.54
Nov	1,649.26	655.85	865.75	4,378.91	271.30	9.62	150.78	7,981.48	145.47	8,126.95
Dec	1,712.37	689.29	899.02	4,332.29	280.24	20.87	134.60	8,068.68	153.89	8,222.58
YTD	22,500.56	8,726.67	11,147.91	52,847.67	3,691.49	335.29	1,499.51	100,749.10	1,720.98	102,470.08
2011										
Jan	1,632.88	658.04	867.35	4,289.64	255.47	46.87	142.40	7,892.64	156.60	8,049.24
Feb	1,572.93	632.33	870.61	4,233.80	258.04	54.53	106.19	7,728.44	141.63	7,870.06
Mar	1,890.76	746.45	959.86	4,749.92	290.16	47.47	121.45	8,806.06	152.71	8,958.77
Apr	1,876.79	713.83	937.71	4,237.49	258.76	36.92	96.46	8,157.96	146.62	8,304.58
May	2,076.71	791.58	1,035.72	4,674.68	301.58	14.96	77.89	8,973.12	148.14	9,121.26
Jun	1,979.28	772.28	1,022.46	4,626.07	342.71	14.23	79.85	8,836.89	141.72	8,978.61
Jul	2,020.10	781.81	1,024.64	4,764.98	340.16	20.69	86.54	9,038.92	146.56	9,185.49
Aug	1,998.73	773.07	1,031.05	4,763.46	334.40	10.78	91.96	9,003.45	151.45	9,154.90
Sep	1,953.37	747.48	1,004.56	4,718.29	378.03	5.74	80.85	8,888.33	153.17	9,041.50
Oct	1,966.78	744.66	1,009.69	4,213.26	286.16	5.62	81.40	8,307.57	150.49	8,458.06
Nov	1,885.43	721.99	934.86	3,778.28	281.71	10.92	81.09	7,694.28	163.56	7,857.84
Dec	1,820.88	718.25	916.75	3,964.75	267.81	27.98	81.91	7,798.34	168.74	7,967.08
YTD	22,674.65	8,801.77	11,615.26	53,014.62	3,594.99	296.71	1,127.99	101,125.99	1,821.40	102,947.38

Table 5.2-5M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	2012							Total	Free of Charge	Grand Total
	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other			
Jan	1,829.18	710.46	982.51	4,176.70	253.38	46.33	125.47	8,124.04	161.17	8,285.21
Feb	1,851.36	725.07	1,004.13	4,444.61	279.84	50.42	125.14	8,480.57	150.61	8,631.17
Mar	2,189.35	831.86	1,155.55	4,890.31	308.74	50.92	129.10	9,555.84	155.86	9,711.70
Apr	2,228.40	817.06	1,091.81	4,417.93	272.14	38.24	130.02	8,995.62	147.99	9,143.62
May	2,366.37	870.69	1,147.95	4,973.81	310.72	22.67	138.58	9,830.79	149.41	9,980.20
Jun	2,078.30	784.94	1,107.57	4,803.74	326.16	20.76	124.69	9,246.15	141.64	9,387.78
Jul	2,104.53	799.93	1,141.03	4,955.84	333.63	32.41	116.38	9,483.75	146.69	9,630.44
Aug	2,080.43	789.87	1,124.28	4,832.71	307.71	32.86	142.14	9,309.99	149.55	9,459.54
Sep	1,988.37	763.34	1,082.50	4,798.87	343.18	11.51	123.71	9,111.47	140.93	9,252.41
Oct	2,100.77	899.50	1,310.30	4,910.16	5.16	23.49	121.78	9,371.16	158.40	9,529.56
Nov	2,129.19	906.56	1,333.91	4,829.20	4.45	18.99	122.36	9,344.65	162.12	9,506.77
Dec	2,101.94	905.23	1,298.59	4,571.51	4.58	28.48	120.22	9,030.56	168.20	9,198.76
YTD	25,048.20	9,804.49	13,780.15	56,605.38	2,749.69	377.07	1,519.60	109,884.59	1,832.56	111,717.16

Source : PEA

**Table 5.2-6M
Electricity Consumption for the Whole Country (Classified by Sector)**

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2008										
Jan	2,164.65	1,064.52	1,670.10	5,309.28	326.99	35.78	116.09	10,687.41	159.02	10,846.43
Feb	2,178.41	1,069.04	1,616.60	5,197.53	330.36	35.29	102.16	10,529.38	153.22	10,682.60
Mar	2,395.06	1,146.19	1,825.95	5,837.08	355.00	43.28	102.92	11,705.47	144.61	11,850.09
Apr	2,688.77	1,208.67	1,793.93	5,151.86	342.60	38.38	106.25	11,330.45	141.34	11,471.79
May	2,546.26	1,193.01	1,820.25	5,741.49	357.16	14.47	118.84	11,791.48	142.59	11,934.06
Jun	2,454.20	1,173.21	1,811.33	5,633.53	400.81	14.90	92.01	11,580.00	141.10	11,721.09
Jul	2,498.38	1,192.18	1,840.26	5,741.52	394.77	26.56	104.10	11,797.77	146.25	11,944.02
Aug	2,522.13	1,208.53	1,879.50	5,641.14	410.60	20.50	150.60	11,833.01	148.30	11,981.30
Sep	2,438.56	1,170.35	1,777.04	5,348.51	426.59	13.86	88.99	11,263.92	146.76	11,410.67
Oct	2,550.14	1,205.97	1,808.66	5,324.44	384.90	11.86	179.06	11,465.03	152.28	11,617.31
Nov	2,235.92	1,086.42	1,657.92	4,884.90	354.22	5.98	137.47	10,362.84	150.08	10,512.93
Dec	2,018.72	1,011.60	1,550.36	4,336.35	307.58	20.60	150.89	9,396.10	151.89	9,547.99
YTD	28,691.22	13,729.70	21,051.91	64,147.63	4,391.56	281.46	1,449.39	133,742.86	1,777.43	135,520.29
2009										
Jan	2,019.32	986.39	1,539.47	4,223.91	299.81	38.06	124.15	9,231.11	157.71	9,388.82
Feb	2,210.10	1,078.51	1,630.29	4,387.59	339.61	44.72	119.22	9,810.05	144.29	9,954.34
Mar	2,689.30	1,267.64	1,872.76	5,090.32	408.38	45.88	118.78	11,493.05	158.16	11,651.21
Apr	2,766.73	1,233.77	1,768.32	4,582.00	347.89	33.13	120.58	10,852.42	151.82	11,004.25
May	2,740.12	1,261.67	1,824.41	5,241.16	390.78	20.17	115.80	11,594.11	154.34	11,748.45
Jun	2,590.73	1,222.87	1,830.19	5,205.72	427.48	18.99	121.73	11,417.72	151.38	11,569.10
Jul	2,609.81	1,226.53	1,841.47	5,337.48	411.85	24.07	143.49	11,594.69	155.27	11,749.97
Aug	2,700.78	1,265.79	1,896.21	5,409.47	436.60	26.00	144.34	11,879.19	159.29	12,038.48
Sep	2,625.49	1,243.44	1,820.72	5,343.85	468.04	16.94	108.62	11,627.10	113.02	11,740.12
Oct	2,601.09	1,225.61	1,834.32	5,563.51	409.07	10.16	140.56	11,784.31	165.26	11,949.57
Nov	2,438.46	1,180.63	1,724.97	5,298.23	385.84	12.21	133.48	11,173.83	164.05	11,337.88
Dec	2,264.57	1,149.45	1,763.96	5,197.04	351.30	27.52	126.32	10,880.15	168.50	11,048.65
YTD	30,256.50	14,342.30	21,347.09	60,880.27	4,676.62	317.86	1,517.08	133,337.73	1,843.11	135,180.83

**Table 5.2-6M (Cont.)
Electricity Consumption for the Whole Country (Classified by Sector)**

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
	2010									
Jan	2,427.75	1,188.89	1,799.34	5,250.28	371.12	43.65	178.04	11,259.07	174.14	11,433.21
Feb	2,464.57	1,213.87	1,812.60	5,201.10	391.16	48.48	138.72	11,270.50	159.62	11,430.12
Mar	2,872.62	1,347.54	1,983.63	5,992.72	416.43	55.49	136.24	12,804.67	170.74	12,975.41
Apr	3,134.39	1,381.43	1,937.75	5,356.57	399.27	42.42	129.78	12,381.62	166.10	12,547.72
May	3,304.33	1,451.91	1,963.63	5,934.12	440.15	27.34	189.97	13,311.45	167.30	13,478.76
Jun	3,007.30	1,378.59	1,971.92	5,729.60	476.14	27.45	215.48	12,806.47	161.78	12,968.25
Jul	2,906.59	1,352.32	2,078.71	5,943.46	472.27	30.43	110.06	12,893.83	172.12	13,065.95
Aug	2,761.56	1,296.06	1,943.32	5,804.85	441.20	11.57	202.24	12,460.79	171.05	12,631.84
Sep	2,701.78	1,281.55	1,950.22	5,755.87	464.50	8.52	172.95	12,335.39	159.35	12,494.74
Oct	2,709.98	1,281.78	1,886.98	5,917.09	415.56	9.46	182.53	12,403.39	179.44	12,582.82
Nov	2,436.59	1,187.91	1,807.05	5,634.80	374.05	9.62	202.29	11,652.32	171.35	11,823.67
Dec	2,489.04	1,224.00	1,860.45	5,518.33	387.53	20.87	187.73	11,687.95	180.69	11,868.64
YTD	33,216.49	15,585.85	22,995.61	68,038.79	5,049.39	335.29	2,046.02	147,267.44	2,033.69	149,301.13
2011										
Jan	2,340.05	1,156.94	1,773.37	5,503.94	347.90	46.87	191.80	11,360.88	183.49	11,544.37
Feb	2,360.22	1,162.93	1,775.22	5,419.94	354.11	54.53	157.02	11,283.98	165.96	11,449.94
Mar	2,697.40	1,284.66	1,958.60	6,089.75	392.67	47.47	165.25	12,635.79	186.89	12,822.68
Apr	2,741.36	1,251.24	1,910.74	5,382.54	348.20	36.92	131.27	11,802.28	175.12	11,977.40
May	3,045.57	1,396.44	2,108.69	5,981.21	413.51	14.96	113.82	13,074.19	177.65	13,251.84
Jun	2,912.87	1,375.34	2,097.69	5,935.94	467.35	14.23	115.86	12,919.28	170.65	13,089.93
Jul	2,932.90	1,370.25	2,079.73	6,072.40	461.11	20.69	141.80	13,078.89	176.32	13,255.21
Aug	2,901.32	1,361.35	2,087.83	6,064.82	456.42	10.78	147.72	13,030.24	181.20	13,211.44
Sep	2,839.45	1,327.19	2,069.89	6,054.84	496.65	5.74	139.67	12,933.44	179.45	13,112.89
Oct	2,799.15	1,300.83	2,049.64	5,425.08	397.37	5.62	119.41	12,097.11	180.29	12,277.39
Nov	2,705.22	1,252.19	1,895.98	4,900.67	389.63	10.92	93.16	11,247.78	192.79	11,440.57
Dec	2,523.94	1,206.83	1,852.50	5,110.79	363.29	27.98	137.91	11,223.24	198.58	11,421.82
YTD	32,799.46	15,446.19	23,659.90	67,941.92	4,888.22	296.71	1,654.70	146,687.10	2,168.39	148,855.49

**Table 5.2-6M (Cont.)
Electricity Consumption for the Whole Country (Classified by Sector)**

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
Jan	2,640.59	1,245.53	1,987.26	5,386.77	351.02	46.33	195.12	11,852.62	190.93	12,043.55
Feb	2,745.48	1,300.40	2,015.25	5,734.39	392.17	50.42	193.27	12,431.37	178.03	12,609.40
Mar	3,187.72	1,456.88	2,264.88	6,291.81	431.01	50.92	267.96	13,951.18	186.31	14,137.49
Apr	3,301.55	1,432.53	2,172.69	5,601.92	371.30	38.24	209.62	13,127.85	177.27	13,305.12
May	3,468.65	1,523.73	2,307.96	6,353.63	431.07	22.67	223.83	14,331.53	179.95	14,511.48
Jun	3,069.48	1,403.04	2,211.37	6,166.71	443.47	20.76	206.85	13,521.68	171.26	13,692.94
Jul	3,045.42	1,395.49	2,284.80	6,325.81	456.69	32.41	187.34	13,727.95	177.30	13,905.26
Aug	3,005.39	1,380.27	2,208.57	6,151.49	424.95	32.86	238.82	13,442.34	180.04	13,622.38
Sep	2,886.68	1,342.69	2,159.12	6,109.61	460.52	11.51	210.14	13,180.27	170.59	13,350.86
Oct	3,029.60	1,506.93	2,501.24	6,254.11	8.71	23.49	189.86	13,513.93	189.07	13,703.00
Nov	3,071.70	1,528.29	2,524.97	6,161.85	13.01	18.99	190.59	13,509.41	191.83	13,701.24
Dec	2,994.86	1,499.14	2,449.77	5,796.21	14.87	28.48	213.21	12,996.55	198.80	13,195.35
YTD	36,447.12	17,014.91	27,087.87	72,334.32	3,798.79	377.07	2,526.60	159,586.69	2,191.39	161,778.08

Source : MEA, PEA and EGAT

Table 5.3-1M
EGAT Fuel Consumption in Power Generation

2008														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.7	0.7	0.9	1.6	0.4	0.6	0.4	0.5	0.5	0.4	0.6	0.3	7.7
Fuel Oil	M.Litres	1.1	23.0	107.3	82.6	22.2	1.1	0.4	4.3	7.2	0.0	0.0	0.0	249.3
Natural Gas	MMSCF	46,376.6	45,430.7	47,431.0	47,203.7	51,307.7	47,249.4	51,002.5	52,394.2	47,515.2	47,982.3	43,336.7	42,964.4	570,194.4
Lignite	1,000 Tons	1,317.9	1,291.5	1,354.5	1,414.5	1,491.4	1,372.2	1,262.5	1,334.4	1,386.0	1,337.5	1,366.7	1,478.3	16,407.5
2009														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.6	0.4	3.2	1.8	2.0	0.4	0.6	0.2	0.9	0.6	1.0	1.3	12.9
Fuel Oil	M.Litres	8.1	0.0	0.0	0.0	0.4	1.8	0.5	36.8	1.2	44.7	7.6	10.0	111.0
Natural Gas	MMSCF	34,264.8	40,718.7	48,342.7	47,123.1	49,910.8	48,557.0	46,058.1	49,007.3	50,027.5	52,541.7	49,417.7	46,394.8	562,364.2
Lignite	1,000 Tons	1,461.5	1,144.9	1,255.1	1,313.5	1,370.3	1,463.2	1,451.5	1,304.1	1,243.9	1,287.7	1,227.4	1,295.2	15,818.3
2010														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.8	1.0	1.8	1.1	0.8	0.8	2.5	0.5	0.7	0.7	0.8	1.0	12.4
Fuel Oil	M.Litres	4.1	0.7	39.0	5.1	12.7	6.1	41.0	13.7	9.6	2.0	0.0	6.0	140.1
Natural Gas	MMSCF	46,907.1	49,609.5	60,629.3	54,999.0	61,699.7	62,726.2	59,237.1	57,000.7	58,308.2	61,853.9	56,067.8	56,899.9	685,938.3
Lignite	1,000 Tons	1,363.2	1,161.7	1,370.2	1,427.2	1,482.3	1,257.5	1,278.1	1,370.7	1,219.7	1,340.6	1,357.2	1,375.8	16,004.2
2011														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.4	0.4	0.6	0.6	0.4	2.3	2.0	1.0	0.5	0.9	0.4	1.7	11.1
Fuel Oil	M.Litres	7.3	7.9	0.0	25.9	24.0	54.7	68.4	31.3	64.5	15.8	9.8	4.8	314.4
Natural Gas	MMSCF	45,545.5	48,152.4	51,638.5	46,356.2	53,092.3	49,834.7	49,592.2	51,522.2	48,171.2	46,163.4	46,573.3	43,922.7	580,564.4
Lignite	1,000 Tons	1,491.9	1,350.2	1,524.4	1,453.6	1,552.5	1,490.7	1,537.6	1,393.3	1,344.1	1,391.1	1,277.8	1,354.1	17,161.2
2012														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.4	0.8	2.2	0.7	1.7	0.7	2.7	1.1	4.5	1.2	1.8	1.3	19.1
Fuel Oil	M.Litres	3.6	16.4	3.0	94.1	94.4	28.3	14.6	27.7	9.5	20.7	6.9	0.0	319.3
Natural Gas	MMSCF	47,447.9	49,049.6	60,494.9	50,435.9	57,343.4	58,911.2	62,099.3	52,996.8	43,348.9	57,165.5	59,464.1	56,153.8	654,911.3
Lignite	1,000 Tons	1,422.0	1,305.3	1,396.4	1,423.1	1,487.2	1,464.7	1,329.9	1,518.3	1,325.2	1,305.3	1,440.2	1,336.7	16,754.3

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)



Electricity

Table 5.4-1M
Import of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1988	42.98	41.80	29.84	27.20	26.46	31.11	23.65	35.73	27.84	33.39	25.27	18.33	363.61
1989	19.48	17.30	17.43	16.83	20.10	32.86	44.45	54.88	83.36	72.97	59.03	51.85	490.54
1990	60.18	46.72	43.27	30.06	23.14	41.15	53.97	62.17	56.26	65.95	56.41	60.21	599.50
1991	40.98	42.69	41.99	55.24	35.24	40.22	69.66	85.75	56.57	50.27	49.49	25.00	593.11
1992	23.44	35.23	21.03	29.11	34.38	46.55	69.72	75.39	50.58	47.08	27.64	19.73	479.88
1993	22.76	15.83	20.70	24.69	31.91	45.45	77.84	116.29	120.09	82.62	37.28	49.06	644.51
1994	47.31	42.80	47.61	42.14	50.38	60.65	103.99	116.49	120.69	113.87	64.51	60.39	870.82
1995	44.81	46.85	40.29	38.78	39.00	41.04	54.34	93.07	104.83	83.30	57.68	55.13	699.12
1996	40.48	43.77	35.38	33.81	38.92	54.63	64.62	99.19	114.07	113.68	81.43	85.64	805.61
1997	45.76	40.48	32.41	43.66	44.02	42.26	69.28	99.79	104.66	105.17	66.29	51.87	745.63
1998	71.99	102.90	87.18	92.21	101.40	181.12	197.53	151.91	191.39	174.34	130.02	140.71	1,622.71
1999	102.68	63.18	61.91	76.95	177.15	199.06	241.72	258.48	277.66	283.14	262.92	250.83	2,255.66
2000	176.64	137.87	167.36	192.37	294.32	267.33	301.01	320.31	336.51	298.65	246.17	227.72	2,966.26
2001	206.11	158.36	171.13	138.52	205.79	279.94	318.69	316.53	312.74	302.73	257.96	213.27	2,881.76
2002	190.30	149.19	146.50	163.46	221.70	271.79	301.33	313.36	289.41	300.72	241.30	223.12	2,812.18
2003	189.80	140.37	146.97	114.73	174.74	223.71	237.11	259.51	284.30	298.83	221.68	181.65	2,473.41
2004	151.66	182.15	148.30	310.09	216.58	282.33	361.39	382.18	362.98	373.34	352.36	254.50	3,377.85
2005	234.07	193.96	304.44	311.02	282.50	409.15	434.85	489.89	493.78	376.64	440.68	400.93	4,371.89
2006	377.46	366.69	449.86	409.01	294.49	437.64	496.20	511.43	505.99	434.09	478.72	390.29	5,151.85
2007	335.50	278.82	386.01	365.28	400.04	333.76	422.92	335.66	273.48	502.59	435.95	418.37	4,488.36
2008	342.25	170.17	152.48	260.32	167.29	227.36	275.81	271.39	327.00	268.45	183.03	138.02	2,783.57
2009	171.11	106.10	130.43	108.28	147.45	182.69	245.53	275.08	205.88	273.76	336.01	277.76	2,460.09
2010	164.14	143.13	568.33	741.43	791.99	789.05	801.08	768.50	780.25	795.42	486.99	423.47	7,253.78
2011	412.36	638.01	789.54	1,019.12	1,075.41	1,072.22	1,315.34	792.65	1,120.57	1,164.63	909.59	464.96	10,774.41
2012	484.49	799.21	1,163.71	1,135.51	1,076.04	937.38	946.70	1,114.62	1,140.62	797.11	519.16	412.89	10,527.43

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.4-2M
Export of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1988	1.56	1.52	1.70	1.65	1.72	1.62	1.76	1.73	1.73	1.63	1.53	1.64	19.80
1989	1.77	1.63	1.89	1.98	2.05	1.95	2.01	2.04	1.99	2.01	1.87	1.91	23.10
1990	2.10	1.98	2.35	3.61	2.39	2.29	2.36	2.44	2.41	2.41	2.25	2.33	28.92
1991	2.58	2.42	3.04	2.98	3.17	3.05	3.17	2.95	3.09	3.02	2.71	2.95	35.13
1992	3.05	3.16	4.11	4.12	3.98	3.41	3.31	3.32	3.33	3.19	3.05	3.34	41.36
1993	3.62	3.28	5.36	4.56	3.79	3.76	4.01	3.79	3.94	3.90	3.80	3.91	47.73
1994	4.15	4.31	5.54	6.14	5.41	4.44	4.47	4.50	4.51	4.53	4.47	4.97	57.44
1995	5.93	6.22	8.48	9.02	7.57	5.83	5.59	5.69	5.55	5.58	5.24	6.13	76.83
1996	7.21	7.06	9.30	8.19	7.12	6.99	7.13	6.91	6.00	6.38	5.92	6.25	84.47
1997	7.41	7.48	10.40	9.26	9.42	7.89	7.64	7.50	7.39	7.40	7.06	9.04	97.88
1998	12.21	11.87	15.46	14.10	12.18	10.31	9.59	9.39	9.15	10.69	9.96	12.68	137.60
1999	17.25	18.09	28.29	20.05	11.22	9.65	10.64	10.75	9.62	9.76	9.15	10.36	164.83
2000	13.75	15.18	19.22	14.82	11.51	10.63	10.88	10.96	9.82	10.45	10.29	12.41	149.92
2001	16.41	16.79	20.48	19.11	14.96	11.57	11.56	11.55	10.98	11.31	10.02	12.78	167.52
2002	16.36	18.48	24.94	21.08	18.76	13.09	13.62	11.91	11.47	11.98	11.36	14.78	187.84
2003	16.43	19.47	24.85	23.10	21.49	15.26	14.92	13.39	12.62	13.33	13.57	17.68	206.11
2004	22.95	23.16	33.08	28.07	30.52	17.10	14.39	14.10	13.73	14.29	17.27	24.40	253.06
2005	36.51	34.36	42.76	42.95	69.57	57.23	33.56	32.48	36.37	35.66	37.04	42.62	501.09
2006	50.87	48.47	55.40	53.06	53.01	46.33	42.03	42.10	43.64	40.36	53.19	57.67	586.13
2007	59.71	51.68	78.82	74.27	59.42	76.20	55.76	53.49	52.72	45.91	50.28	86.42	744.68
2008	86.76	79.18	100.63	103.29	79.93	63.47	71.02	73.23	65.09	69.34	72.64	96.50	961.09
2009	87.53	100.78	130.01	130.82	119.69	92.48	78.21	77.67	85.32	131.56	130.21	141.22	1,305.50
2010	151.42	150.09	155.92	156.38	160.84	143.20	108.20	53.00	56.19	51.50	57.56	69.34	1,313.65
2011	86.12	95.02	201.96	154.79	195.55	138.33	62.58	48.50	45.47	51.25	125.14	130.62	1,335.34
2012	93.50	100.51	164.03	173.11	159.91	118.78	99.11	86.92	80.30	143.84	165.84	149.28	1,535.14

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

6

CHAPTER
บทที่

Energy Value
มูลค่าพลังงาน

Table 6.1-1M
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	2008												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	94,056	87,699	96,847	100,778	105,047	106,514	106,085	95,310	85,831	81,674	66,586	65,687	1,092,114
Electricity	31,594	31,366	34,597	34,084	34,730	33,753	34,241	34,238	33,154	35,303	31,699	29,166	397,924
Natural Gas	3,903	3,812	3,890	3,920	4,255	4,343	5,268	5,442	5,697	5,279	4,327	3,731	53,867
Lignite/Coal	2,081	2,118	2,006	2,210	2,745	2,328	2,477	2,654	2,680	2,602	2,428	2,345	28,673
Renewable Energy	9,810	9,601	9,459	8,406	8,110	7,996	7,982	8,018	7,976	8,010	9,002	9,620	103,991
Total	141,444	134,595	146,799	149,398	154,887	154,934	156,053	145,662	135,339	132,868	114,042	110,548	1,676,568

Energy Type	2009												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	68,983	64,208	75,035	75,012	80,106	79,160	83,034	85,565	82,280	82,138	87,209	97,338	960,067
Electricity	30,115	32,004	37,511	35,035	37,032	37,301	37,077	38,161	37,553	37,754	36,468	35,156	431,165
Natural Gas	3,398	3,131	3,682	3,426	3,559	3,852	4,066	4,356	4,755	5,081	5,011	4,955	49,272
Lignite/Coal	2,045	1,996	2,314	2,620	2,539	2,727	2,448	2,339	2,577	2,220	2,298	2,487	28,611
Renewable Energy	10,957	10,743	10,053	9,237	8,984	8,889	8,882	8,894	8,880	8,974	10,045	10,729	115,267
Total	115,499	112,082	128,595	125,329	132,220	131,929	135,507	139,315	136,044	136,166	141,030	150,665	1,584,383

Energy Type	2010												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	93,437	90,051	100,285	93,967	91,845	87,615	89,470	88,970	84,473	88,691	95,265	102,599	1,106,668
Electricity	36,065	36,632	41,356	40,092	42,849	41,551	41,509	39,909	39,819	39,902	37,599	37,389	474,671
Natural Gas	5,261	5,361	6,141	5,387	5,745	5,875	5,821	5,869	5,778	5,610	5,732	6,143	68,724
Lignite/Coal	2,023	1,955	2,592	2,763	2,666	2,595	2,741	2,384	2,771	2,450	2,612	2,187	29,738
Renewable Energy	12,102	11,811	11,224	10,331	10,238	10,138	10,107	10,106	10,122	10,145	11,068	11,980	129,370
Total	148,887	145,810	161,597	152,541	153,343	147,773	149,647	147,238	142,962	146,798	152,276	160,297	1,809,170

Energy Value

Table 6.1 - 1M (Cont.)
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Petroleum Products	104,096	97,899	109,791	106,274	105,085	102,503	103,455	102,145	94,120	94,253	94,166	106,796	1,220,582
Electricity	36,107	35,503	39,976	37,156	42,923	42,505	41,706	41,938	42,002	39,992	35,458	36,340	471,604
Natural Gas	6,263	6,077	7,736	7,558	8,455	8,677	8,856	8,989	9,178	8,857	8,162	8,857	97,666
Lignite/Coal	2,380	2,405	2,828	2,577	2,530	3,105	2,517	2,841	2,507	2,378	2,616	2,510	31,195
Renewable Energy	10,878	10,684	10,707	10,314	9,683	9,270	8,793	9,219	9,251	9,276	10,352	11,246	119,673
Total	159,724	152,568	171,040	163,878	168,676	166,061	165,326	165,132	157,058	154,755	150,754	165,748	1,940,720

Energy Type	2012												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Petroleum Products	108,932	109,624	119,759	112,437	113,342	103,923	104,246	106,528	99,891	106,928	109,909	115,509	1,311,027
Electricity	38,333	41,523	44,882	43,257	47,214	47,165	47,632	47,144	47,733	49,231	48,989	47,571	550,672
Natural Gas	9,597	9,560	10,239	10,406	11,102	10,566	10,455	10,130	10,069	10,388	10,249	9,749	122,509
Lignite/Coal	2,781	2,398	2,448	2,722	2,945	2,748	2,725	2,623	2,644	2,632	2,583	2,358	31,607
Renewable Energy	11,237	11,134	11,119	10,147	9,591	9,467	9,444	9,493	9,471	9,473	10,543	11,507	122,627
Total	170,880	174,239	188,448	178,967	184,193	173,870	174,502	175,918	169,808	178,651	182,273	186,694	2,138,442

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2M
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Energy Type	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	18,645	17,793	19,239	19,938	20,719	21,596	21,606	19,325	18,004	17,021	13,586	12,879	220,348
- Regular	11,645	11,090	12,108	12,605	13,214	13,981	13,926	12,330	11,217	10,544	8,207	7,728	138,594
- Premium	7,000	6,702	7,131	7,333	7,505	7,615	7,679	6,994	6,787	6,477	5,379	5,151	81,754
Kerosene	50	45	46	53	61	61	55	50	48	45	39	39	593
Diesel	47,771	44,471	51,729	51,830	55,017	55,587	52,835	45,304	40,187	36,247	30,638	31,195	542,811
J.P.	14,555	13,949	13,822	14,552	15,569	16,272	16,897	15,623	13,783	15,253	12,855	11,987	175,118
Fuel Oil	6,332	5,155	5,400	7,949	6,303	5,825	7,008	6,966	6,094	5,202	3,645	3,767	69,647
LPG	6,703	6,287	6,611	6,455	7,378	7,172	7,685	8,042	7,716	7,906	5,823	5,820	83,598
Total	94,056	87,699	96,847	100,778	105,047	106,514	106,085	95,310	85,831	81,674	66,586	65,687	1,092,114

Energy Type	2009												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	12,922	13,888	16,600	17,277	18,515	18,506	19,440	20,432	20,131	16,239	19,365	21,518	214,832
- Regular	7,706	8,186	9,634	10,000	10,726	10,768	11,406	11,961	11,505	8,064	11,408	12,681	124,046
- Premium	5,216	5,702	6,966	7,277	7,789	7,737	8,034	8,471	8,627	8,175	7,956	8,837	90,786
Kerosene	39	50	64	45	50	51	50	53	63	63	60	69	657
Diesel	31,105	27,349	32,381	34,424	37,164	36,828	37,629	39,456	36,478	38,329	40,621	46,314	438,079
J.P.	14,703	13,552	15,037	12,800	12,977	11,967	13,241	13,516	12,909	14,082	14,574	15,540	164,897
Fuel Oil	3,709	3,625	3,668	3,468	4,027	4,384	4,550	4,067	4,911	5,394	4,767	5,531	52,101
LPG	6,505	5,744	7,285	6,998	7,372	7,424	8,125	8,041	7,788	8,030	7,823	8,365	89,501
Total	68,983	64,208	75,035	75,012	80,106	79,160	83,034	85,564	82,280	82,138	87,209	97,338	960,067

Energy Type	2010												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	20,402	20,173	21,596	21,328	20,277	20,264	20,863	20,381	19,357	20,176	21,191	23,028	249,036
- Regular	12,040	12,232	13,344	13,142	12,644	12,676	13,019	12,706	12,179	12,688	13,401	14,550	154,621
- Premium	8,362	7,941	8,251	8,186	7,632	7,588	7,844	7,675	7,178	7,488	7,790	8,478	94,415
Kerosene	68	53	56	40	70	43	39	35	40	44	41	43	572
Diesel	43,058	42,407	47,995	45,189	45,625	41,772	42,118	40,262	38,359	40,345	45,633	49,413	522,176
J.P.	16,187	14,881	16,321	14,395	12,828	12,759	13,675	14,889	13,844	14,979	15,304	16,674	176,736
Fuel Oil	4,654	4,821	5,600	4,765	4,686	4,310	4,548	4,376	4,053	4,176	4,441	4,071	54,500
LPG	9,067	7,716	8,719	8,251	8,360	8,468	8,226	9,026	8,820	8,971	8,655	9,369	103,648
Total	93,437	90,051	100,285	93,967	91,845	87,615	89,470	88,970	84,473	88,691	95,265	102,599	1,106,668

Table 6.1 -2M (Cont.)
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Energy Type	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	22,626	21,969	23,663	24,479	24,008	24,057	23,972	23,997	21,300	20,227	19,011	22,182	271,490
- Regular	14,433	14,095	15,231	15,743	15,517	15,719	15,539	16,139	15,793	15,438	14,602	16,058	184,308
- Premium	8,193	7,874	8,432	8,736	8,491	8,337	8,433	7,857	5,507	4,788	4,408	6,124	87,182
Kerosene	39	39	42	38	34	39	47	45	47	42	43	40	495
Diesel	48,505	44,942	51,121	49,776	50,564	48,142	45,589	45,321	41,993	41,640	45,388	52,102	565,081
J.P.	18,212	16,481	18,127	16,280	14,873	14,680	15,716	15,950	15,192	15,612	15,722	17,071	193,917
Fuel Oil	4,128	5,124	5,446	4,417	4,102	4,619	5,883	4,840	4,373	5,410	3,918	4,795	57,057
LPG	10,586	9,345	11,392	11,283	11,504	10,965	12,248	11,991	11,215	11,322	10,085	10,605	132,542
Total	104,096	97,899	109,791	106,274	105,085	102,503	103,455	102,145	94,120	94,253	94,166	106,796	1,220,582

Energy Type	2012												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	23,072	23,353	25,764	25,174	24,858	23,791	24,421	25,547	23,115	25,474	25,773	28,145	298,487
- Regular	16,581	16,709	18,515	17,900	17,796	17,018	17,290	17,802	15,839	17,727	17,828	19,011	210,016
- Premium	6,492	6,644	7,249	7,273	7,062	6,773	7,131	7,745	7,276	7,747	7,946	9,134	88,470
Kerosene	40	51	51	47	46	37	36	30	32	36	42	36	484
Diesel	51,604	53,075	58,698	55,215	55,115	50,273	48,977	49,465	46,394	49,593	52,191	54,659	625,259
J.P.	16,713	16,920	17,832	15,224	13,935	13,496	14,028	14,417	13,653	14,635	15,505	16,717	183,075
Fuel Oil	5,520	4,622	5,153	4,434	7,043	5,244	5,367	4,543	4,507	4,821	4,663	4,151	60,069
LPG	11,982	11,602	12,262	12,343	12,345	11,081	11,416	12,526	12,190	12,368	11,735	11,802	143,653
Total	108,932	109,624	119,759	112,437	113,342	103,923	104,246	106,528	99,891	106,928	109,909	115,509	1,311,027

Remarks : Final Energy Consumption

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1 -3M
Value of Energy Import

Unit : Million Bahts

Energy Type	2008												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	83,146	82,609	91,595	83,220	99,964	97,248	107,669	116,573	80,313	81,128	37,257	41,945	1,002,667
Pet. Products	3,945	1,233	4,715	7,788	1,114	3,026	6,119	2,869	4,890	2,764	2,206	394	41,063
Natural Gas	6,184	6,713	7,179	5,384	6,934	6,940	8,463	8,734	8,825	9,542	8,126	7,485	90,506
Coal	2,413	2,992	2,511	3,137	3,898	2,544	3,018	3,283	3,452	3,327	2,608	3,273	36,456
Electricity	582	287	235	449	282	347	431	416	534	439	305	232	4,540
Total	96,270	93,833	106,235	99,978	112,192	110,104	125,699	131,875	98,013	97,200	50,502	53,329	1,175,232
Energy Type	2009												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	36,462	28,368	49,271	44,718	48,364	60,146	55,053	56,159	64,510	58,875	65,035	56,061	623,024
Pet. Products	1,725	2,244	3,926	906	2,494	1,042	1,911	1,950	2,825	2,841	3,543	3,711	29,116
Natural Gas	3,442	7,319	7,278	7,639	8,708	8,554	7,302	8,005	7,613	7,142	6,666	4,539	84,208
Coal	2,011	2,451	3,468	3,588	3,364	2,769	3,394	3,267	3,754	4,601	1,816	2,452	36,935
Electricity	308	183	228	177	242	292	384	422	396	344	332	315	3,623
Total	43,948	40,565	64,171	57,029	63,172	72,803	68,044	69,802	79,099	73,803	77,392	67,078	776,906
Energy Type	2010												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	61,323	60,116	58,100	76,338	60,066	63,314	59,100	61,968	56,355	56,070	63,825	74,891	751,467
Pet. Products	3,762	3,108	7,158	5,882	7,275	6,796	4,552	5,277	5,626	7,009	4,169	6,222	66,835
Natural Gas	6,026	6,990	5,239	7,436	7,968	7,202	8,073	7,469	7,616	7,116	6,403	6,942	84,481
Coal	2,702	3,087	3,282	4,953	3,209	2,860	2,643	2,272	3,783	3,579	3,076	3,914	39,361
Electricity	223	186	739	932	207	993	1,019	1,004	1,108	512	664	571	8,157
Total	74,037	73,487	74,518	95,541	78,725	81,165	75,387	77,989	74,488	74,285	78,137	92,539	950,300

Energy Value

Table 6.1 -3M (Cont.)
Value of Energy Import

Unit : Million Bahts

Energy Type	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	69,178	62,257	80,347	92,784	98,123	80,322	88,088	95,282	75,827	75,010	79,582	80,574	977,374
Pet. Products	6,608	9,149	7,955	6,435	9,518	6,700	8,344	7,760	8,591	8,177	8,723	6,318	94,279
Natural Gas	5,413	6,251	7,244	7,557	8,623	8,428	9,389	9,010	9,175	7,940	7,679	6,785	93,493
Coal	3,678	4,064	3,518	3,624	3,876	4,548	2,927	2,721	4,266	2,617	3,645	2,852	42,336
Electricity	717	725	1,002	1,251	1,394	1,415	1,851	129	1,459	1,374	990	1,553	13,860
LNG					1,037	2,385	3,204	4,119	1,974	1,391	1,884		15,993
Total	85,594	82,446	100,066	111,650	122,571	103,798	113,804	119,020	101,292	96,509	102,504	98,081	1,237,336

Energy Type	2012												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	100,430	103,967	113,320	105,288	97,639	88,559	79,694	83,469	80,533	95,358	79,659	91,421	1,119,338
Pet. Products	7,161	13,283	12,417	15,761	10,367	6,457	8,569	13,411	9,859	9,349	10,027	7,689	124,350
Natural Gas	6,984	8,595	10,532	6,666	10,168	11,239	10,544	10,717	9,116	11,126	10,649	9,988	116,325
Coal	3,590	4,065	3,714	5,238	4,164	3,215	3,589	4,619	4,096	5,222	3,062	2,128	46,702
Electricity	1,074	1,060	2,641	1,584	1,466	1,373	1,394	1,518	1,594	1,152	741	572	16,171
LNG	2,132	1,523	3,144		2,048	4,074	3,289	1,754	1,750	1,245	1,209	1,855	24,023
Total	121,371	132,492	145,769	134,537	125,853	114,919	107,080	115,489	106,948	123,452	105,347	113,654	1,446,909

Source : PTT, EGAT, DOE and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4M
Value of Energy Export

Unit : Million Bahts

Energy Type	2008												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	3,864	3,337	3,459	5,158	9,962	6,071	7,036	4,743	5,216	3,784	2,213	1,731	56,575
Electricity	247	227	287	300	227	178	199	204	185	206	231	310	2,801
Pet. Products	19,009	16,124	20,536	20,907	27,618	25,109	32,984	32,644	19,107	18,951	13,120	14,274	260,384
Total Export	23,120	19,689	24,282	26,365	37,807	31,358	40,219	37,591	24,508	22,941	15,565	16,315	319,760

Energy Type	2009												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	2,356	1,549	1,528	2,298	2,374	1,549	4,211	2,609	1,392	1,960	2,806	2,778	27,410
Electricity	276	317	411	406	369	293	241	241	267	407	404	438	4,068
Pet. Products	12,770	8,455	10,737	14,032	17,315	22,274	18,479	21,369	19,108	21,846	17,668	21,234	205,286
Total Export	15,402	10,321	12,676	16,736	20,057	24,116	22,930	24,219	20,767	24,213	20,878	24,450	236,764

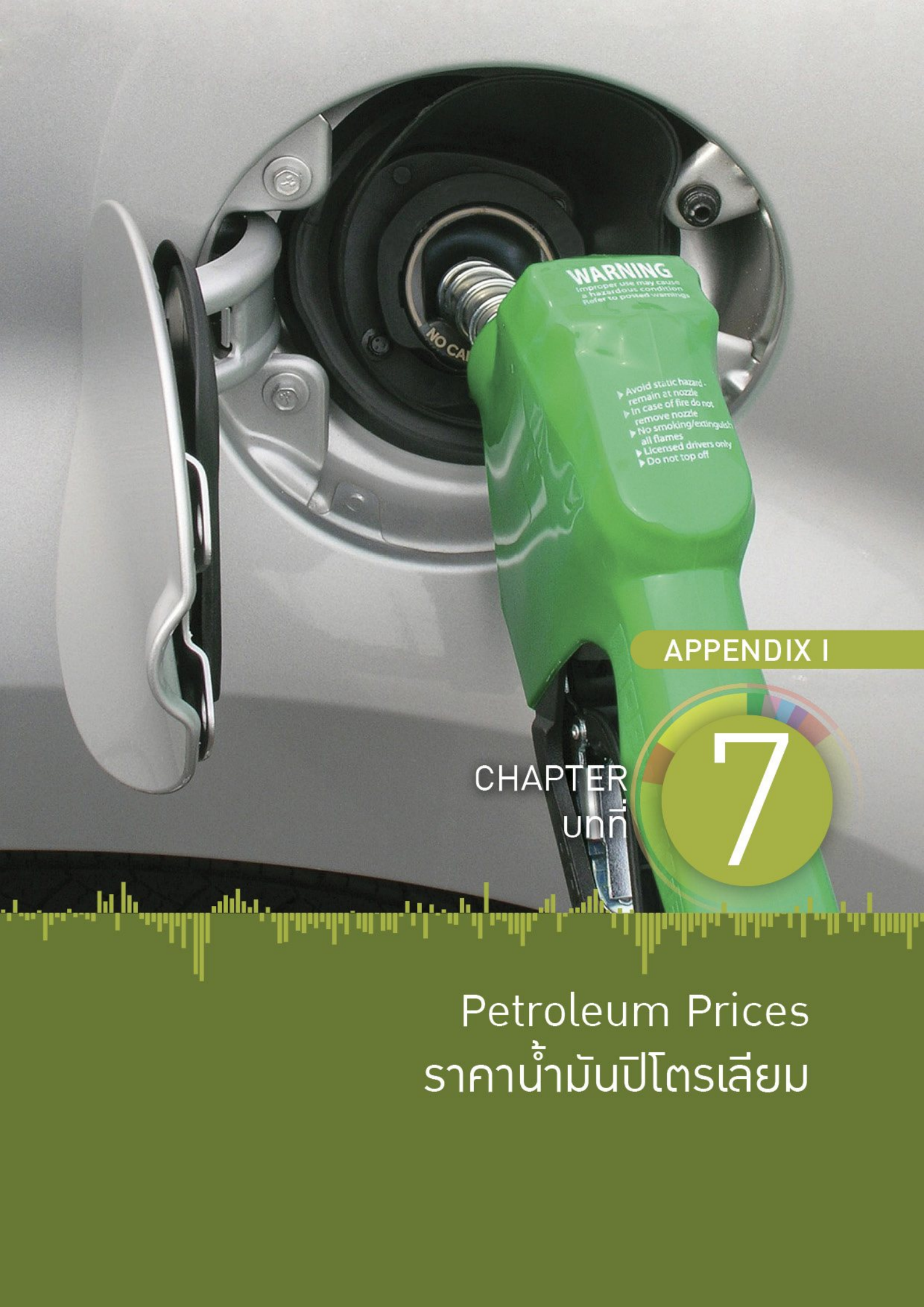
Energy Type	2010												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	2,661	503	2,701	2,135	2,287	1,830	3,287	2,239	3,115	1,197	2,173	1,980	26,107
Electricity	466	470	486	488	500	448	337	164	175	160	179	213	4,087
Pet. Products	11,853	12,517	15,746	20,187	18,105	22,101	21,961	22,949	24,654	21,183	20,828	19,781	231,864
Total Export	14,980	13,490	18,933	22,811	20,892	24,379	25,585	25,351	27,944	22,540	23,180	21,974	262,058

Table 6.1 -4M (Cont.)
Value of Energy Export

Unit : Million Bahts

Energy Type	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	2,609	2,887	2,676	5,398	2,798	3,528	1,012	4,417	3,079	4,127	3,508	2,887	38,926
Electricity	264	288	616	469	614	441	193	151	143	166	374	421	4,140
Pet. Products	18,005	9,289	17,678	23,563	25,812	20,426	29,667	35,017	30,245	19,536	19,266	29,753	278,257
Total Export	20,878	12,464	20,970	29,431	29,223	24,395	30,872	39,585	33,467	23,828	23,148	33,061	321,322
Energy Type	2012												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	7,326	6,668	2,769	5,407	5,971	3,122	5,482	3,418	2,656	2,452	3,683	2,578	51,531
Electricity	289	327	508	549	510	412	341	304	294	529	607	552	5,223
Pet. Products	27,732	29,065	30,872	31,619	28,991	31,202	23,896	24,369	32,258	28,999	29,974	25,407	344,384
Total Export	35,347	36,060	34,150	37,574	35,472	34,736	29,719	28,091	35,208	31,980	34,264	28,537	401,138

Source : PTT, EGAT, DOE and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)



WARNING

Improper use may cause a hazardous condition. Refer to posted warnings.

NO CAR

- ▶ Avoid static hazard - remain at nozzle
- ▶ In case of fire do not remove nozzle
- ▶ No smoking/extinguish all flames
- ▶ Licensed drivers only
- ▶ Do not top off

APPENDIX I



CHAPTER
บทที่

Petroleum Prices
ราคาน้ำมันปิโตรเลียม



Table 7.1-1M
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

	Ex-Refinery Prices													
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	LPG (B/kg)		
			(E10)	(E20)	(E85)							Cooking	Industry	Automobile
2008														
Jan	21.34	20.93	21.12	20.81		20.94	22.59	22.70	22.57	22.23	15.82	10.90		
Feb	21.71	21.20	21.36	21.02		21.18	22.87	23.40	23.93	22.63	15.35	11.08		
Mar	22.00	21.61	21.71	21.33		21.54	25.16	25.30	26.22	25.00	15.79	11.00		
Apr	23.77	23.37	23.32	22.85		23.15	27.99	28.23	28.54	27.60	17.16	11.00		
May	26.58	26.18	25.86	25.05		25.68	32.46	32.44	32.60	31.88	19.36	11.00		
Jun	29.61	29.19	28.59	27.48		28.41	34.93	35.44	35.58	34.83	21.25	11.00		
Jul	28.85	28.43	27.96	26.97		27.77	35.74	35.76	35.96	35.06	24.17	11.00		
Aug	25.04	24.62	24.53	23.92		24.34	29.74	29.00	29.21	28.27	22.50	11.00		
Sep	23.47	23.04	23.11	22.67		22.92	26.54	26.33	26.44	25.70	19.98	11.00		
Oct	17.75	17.33	18.39	18.92		18.20	19.99	19.13	19.32	18.50	14.09	11.00		
Nov	11.24	10.81	12.53	13.72		12.34	16.84	15.93	16.09	15.35	9.02	11.00		
Dec	9.43	8.99	10.89	12.26		10.70	13.27	13.57	13.83	12.94	8.41	11.00		
AVG	21.73	21.31	21.62	21.42		21.43	25.68	25.60	25.86	25.00	16.91	10.99		
2009														
Jan	11.85	11.39	12.58	13.21		12.39	13.39	13.50	13.84	12.86	9.29	11.00		
Feb	13.29	12.86	13.88	14.37	16.60	13.69	12.09	11.81	12.21	11.15	9.52	11.00		
Mar	12.61	12.17	13.27	13.83	16.49	13.08	12.35	12.61	13.05	11.96	9.26	11.00		
Apr	13.91	13.48	14.44	14.87	16.69	14.25	13.57	13.82	14.16	13.23	10.66	11.00		
May	15.17	14.74	15.71	16.15	18.08	15.52	14.30	14.81	15.27	14.15	12.20	11.00		
Jun	16.91	16.49	17.43	17.84	19.62	17.24	16.78	17.20	17.62	16.56	13.85	11.00		
Jul	15.90	15.48	16.57	17.15	19.98	16.39	15.85	16.01	16.37	15.40	13.84	11.00		
Aug	18.34	17.42	18.83	19.22	20.85	18.20	17.17	17.62	17.92	17.05	14.93	11.00		
Sep	17.10	16.18	17.60	18.01	19.74	16.97	16.33	16.77	17.11	16.17	14.57	11.37		
Oct	17.00	16.09	17.52	17.94	19.78	16.89	17.04	17.27	17.52	16.75	14.78	11.30		
Nov	17.96	17.06	18.85	19.65	23.92	18.22	18.16	18.32	18.58	17.78	15.67	11.16		
Dec	17.88	16.97	18.79	19.60	23.97	18.16	17.73	17.75	18.12	17.14	15.57	11.12		
AVG	15.66	15.03	16.29	16.82	19.61	15.92	15.40	15.62	15.98	15.02	12.85	11.08		
2010														
Jan	19.09	18.18	19.80	20.42	23.54	19.17	18.31	18.37	18.77	17.74	16.13	11.10		
Feb	18.48	18.03	18.92	19.27	20.63	18.70	17.49	17.91	18.26	17.30	15.38	11.04		
Mar	19.04	18.59	19.34	19.55	19.99	19.12	18.23	18.68	19.04	18.08	15.32	11.08		
Apr	19.54	19.09	19.92	20.22	21.27	19.71	19.52	19.85	20.16	19.29	15.78	10.86		
May	18.00	17.55	18.68	19.27	22.23	18.46	18.48	18.81	19.15	18.23	15.05	10.79		
Jun	17.50	17.05	18.26	18.92	22.38	18.04	18.06	18.37	18.61	17.66	14.39	10.83		
Jul	17.25	16.80	17.88	18.43	21.08	17.67	17.72	18.05	18.26	17.37	14.45	10.85		
Aug	17.04	16.70	17.87	18.50	21.74	17.65	17.94	18.41	18.63	17.71	14.60	10.80		
Sep	16.43	16.01	17.25	17.98	21.90	17.04	17.36	17.72	17.98	16.99	13.81	10.61		
Oct	17.29	16.87	18.39	19.40	25.19	18.18	18.10	18.37	18.66	17.61	14.23	10.31		
Nov	17.94	17.53	18.97	19.91	25.22	18.76	18.77	19.20	19.60	18.28	14.82	10.02		
Dec	19.67	19.26	20.59	21.42	26.01	20.39	19.94	20.54	21.02	19.49	15.37	9.99		
AVG	18.11	17.64	18.82	19.44	22.60	18.57	18.33	18.69	19.01	17.98	14.94	10.69		

Table 7.1-1M (Cont.)
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

	Ex-Refinery Prices													
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	LPG (B/kg)		
			(E10)	(E20)	(E85)							Cooking	Industry	Automobile
2011														
Jan	20.79	20.37	21.65	22.42	26.58	21.44	21.35	22.13	22.77	20.80	16.21	10.07		
Feb	21.90	21.47	22.55	23.13	26.00	22.34	23.43	24.15	24.91	22.61	18.36	10.22		
Mar	23.49	23.06	24.00	24.42	26.36	23.78	25.58	25.70	26.23	24.96	19.34	10.27		
Apr	24.80	24.38	24.83	24.78	23.62	24.62	26.51	26.69	26.99	26.09	20.19	10.15		
May	24.42	23.99	24.57	24.64	24.27	24.36	25.02	25.29		24.47	19.51	10.05		
Jun	23.57	23.13	23.90	24.16	24.97	23.69	24.82	25.13		24.33	19.83	10.11		
Jul	24.24	23.81	24.41	24.50	24.27	24.20	24.84	25.12		24.40	19.89	10.20	4.61	
Aug	23.39	23.00	23.58	23.70	23.61	23.40	23.84	24.04		23.18	19.25	10.06	10.06	
Sep	24.31	23.89	24.36	24.32	23.26	24.15	24.12	24.44		23.65	19.76	9.99	9.99	
Oct	24.05	23.61	24.25	24.36	24.25	24.03	24.27	24.30		23.61	20.02	10.17	10.17	
Nov	22.48	22.05	22.54	22.51	21.47	22.32	25.33	25.64		24.99	21.03	10.32	10.32	
Dec	22.66	22.24	22.68	22.62	21.37	22.48	24.53	25.16		24.35	20.61	10.35	10.35	
AVG	23.34	22.92	23.61	23.80	24.17	23.40	24.47	24.82	25.23	23.95	19.50	10.16	9.25	
2012														
Jan	25.03	24.58	24.94	24.77	22.75	24.78	25.49	26.41		25.49	22.33	10.43	10.43	10.43
Feb	26.66	26.21	26.46	26.17	23.41	26.24	26.83	27.77		26.62	22.86	10.92	10.92	10.92
Mar	27.05	26.61	26.73	26.33	22.87	26.51	26.67	27.64		26.32	22.50	10.27	10.27	10.27
Apr	27.18	26.71	26.67	26.07	21.32	26.42	26.36	27.38		25.97	22.22	10.26	10.26	10.26
May	25.16	24.66	24.86	24.48	21.15	24.60	24.90	25.87		24.46	21.13	10.33	10.33	10.33
Jun	22.03	21.53	22.02	21.93	20.44	21.75	22.50	23.53		22.10	18.87	10.47	10.47	10.47
Jul	23.28	22.82	23.20	23.03	21.03	22.96	23.67	24.69		23.28	19.38	10.58	10.58	10.58
Aug	26.01	25.57	25.63	25.17	21.28	25.41	25.86	26.64		25.51	20.78	10.58	10.58	10.58
Sep	25.37	24.93	25.09	24.72	21.46	24.87	26.29	26.65		25.59	20.92	10.51	10.51	10.51
Oct	24.84	24.40	24.52	24.13	20.70	24.31	25.55	25.68		24.74	19.73	10.36	10.36	10.36
Nov	23.91	23.48	23.69	23.38	20.54	23.47	24.61	25.04		24.02	18.69	10.26	10.26	10.26
Dec	23.80	23.36	23.63	23.37	20.86	23.41	24.47	24.82		23.93	18.55	10.26	10.26	10.26
AVG	25.03	24.57	24.79	24.46	21.48	24.56	25.27	26.01		24.84	20.66	10.44	10.44	10.44

Table 7.1-2M
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

	Ex-Refinery Prices														
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B/kg)			
			(E10)	(E20)	(E85)							Cooking	Industry	Automobile	
2008	3.78	3.31	0.77	-0.21		0.28	0.10	0.40	-0.68	0.31	0.06	0.30			
Jan	3.58	2.95	0.22	-0.32		-0.28	0.10	0.36	-0.12	0.36	0.06	0.30			
Feb	3.45	3.00	0.25	-0.30		-0.25	0.10	0.10	-1.02	0.10	0.06	0.30			
Mar	3.45	3.00	0.25	-0.30		-0.25	0.10	-0.15	-1.07	-0.15	0.06	0.30			
Apr	3.45	3.00	0.25	-0.30		-0.25	0.10	-0.30	-1.50	-0.30	0.06	0.30			
May	3.45	3.00	0.25	-0.30		-0.25	0.10	-0.30	-1.50	-0.30	0.06	0.30			
Jun	3.45	3.00	0.25	-0.30		-0.25	0.10	-0.30	-1.50	-0.30	0.06	0.30			
Jul	3.45	3.00	0.25	-0.30		-0.25	0.10	-0.30	-1.50	-0.30	0.06	0.30			
Aug	3.54	3.09	0.34	-0.21		-0.16	0.10	0.18	-1.22	0.18	0.06	0.30			
Sep	3.96	3.66	0.93	0.25		0.43	0.10	0.78	-0.62	0.78	0.06	0.30			
Oct	4.00	4.00	1.58	0.27		1.05	0.10	1.31	-0.20	1.20	0.06	0.30			
Nov	4.00	4.00	2.35	0.15		1.75	0.10	1.70	-0.20	1.20	0.06	0.30			
Dec	5.55	4.00	2.35	-0.08		1.75	0.10	1.70	-0.20	1.20	0.06	0.30			
2009	6.94	5.31	1.78	-0.80	-7.88	1.17	0.10	0.78	-0.95	1.20	0.06	0.22			
Jan	7.00	4.00	2.35	-0.30		1.75	0.10	1.70	-0.20	1.20	0.06	0.30			
Feb	7.00	4.00	-0.49	-2.59	-6.50	-1.09	0.10	0.07	-0.63	1.20	0.06	0.30			
Mar	7.00	5.17	1.91	-0.51	-5.70	1.31	0.10	0.75	-0.20	1.20	0.06	0.30			
Apr	7.00	5.70	2.35	-0.30	-5.70	1.75	0.10	1.70	-0.20	1.20	0.06	0.30			
May	5.93	4.63	1.41	-1.12	-7.91	0.81	0.10	0.59	-1.85	1.20	0.06	0.30			
Jun	5.36	4.06	0.86	-1.57	-7.84	0.10	0.10	-0.01	-2.70	1.20	0.06	0.30			
Jul	6.65	5.35	1.67	-0.94	-7.22	1.07	0.10	1.14	-1.18	1.20	0.06	0.30			
Aug	7.29	5.99	2.27	-0.46	-7.13	1.67	0.10	1.02	-0.57	1.20	0.06	0.30			
Sep	7.50	6.20	2.27	-0.46	-7.76	1.67	0.10	0.53	-0.81	1.20	0.06	-0.07			
Oct	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10	0.53	-0.81	1.20	0.06	0.00			
Nov	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10	0.53	-0.81	1.20	0.06	0.14			
Dec	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10	0.53	-0.81	1.20	0.06	0.18			
2010	7.50	6.65	2.74	-0.41	-10.93	1.43	0.10	0.66	-0.65	1.20	0.06	0.61			
Jan	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10	0.53	-0.81	1.20	0.06	0.19			
Feb	7.50	6.56	2.65	-0.42	-10.80	1.48	0.10	0.85	-0.80	1.20	0.06	0.26			
Mar	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.85	-0.80	1.20	0.06	0.22			
Apr	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.85	-0.80	1.20	0.06	0.43			
May	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.85	-0.80	1.20	0.06	0.51			
Jun	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.65	-0.50	1.20	0.06	0.47			
Jul	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.65	-0.50	1.20	0.06	0.45			
Aug	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.65	-0.50	1.20	0.06	0.50			
Sep	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.65	-0.50	1.20	0.06	0.69			
Oct	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.65	-0.50	1.20	0.06	0.99			
Nov	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10	0.65	-0.50	1.20	0.06	1.28			
Dec	7.50	6.70	2.56	-1.24	-13.34	0.18	0.10	0.04	-0.74	1.20	0.06	1.31			

Table 7.1-2M (Cont.)
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

	Ex-Refinery Prices													
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B/kg)		
			(E10)	(E20)	(E85)							Cooking	Industry	Automobile
2011	4.90	4.38	1.87	-1.80	-13.50	-0.40	0.10	-0.60	-3.01	1.20	0.06	1.14	5.07	
Jan	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10	-1.30	-2.00	1.20	0.06	1.23		
Feb	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10	-3.29	-3.77	1.20	0.06	1.08		
Mar	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10	-4.92	-4.05	1.20	0.06	1.03		
Apr	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10	-3.97	-2.20	1.20	0.06	1.15		
May	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10	1.27		1.20	0.06	1.25		
Jun	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10	1.38		1.20	0.06	1.19		
Jul	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10	1.55		1.20	0.06	1.10	2.37	
Aug	6.29	5.62	2.37	-1.35	-13.50	0.05	0.10	2.06		1.20	0.06	1.24	4.05	
Sep	0.00	0.00	1.40	-2.80	-13.50	-1.40	0.10	0.00		1.20	0.06	1.31	4.11	
Oct	0.00	0.00	1.40	-2.80	-13.50	-1.40	0.10	0.00		1.20	0.06	1.13	6.74	
Nov	0.00	0.00	0.32	-2.80	-13.50	-1.40	0.10	0.00		1.20	0.06	0.98	6.58	
Dec	0.00	0.00	0.20	-2.80	-13.50	-1.40	0.10	0.00		1.20	0.06	0.95	6.56	
2012	5.23	4.73	2.03	-1.30	-12.40	0.16	0.10	0.69		1.20	0.06	0.89	10.55	3.34
Jan	0.52	0.52	0.77	-2.28	-13.55	-0.88	0.10	0.31		1.20	0.06	0.87	9.28	1.23
Feb	1.48	1.48	1.68	-1.32	-13.12	0.08	0.10	0.60		1.20	0.06	0.75	9.16	1.79
Mar	2.52	2.52	2.20	-0.80	-12.60	0.60	0.10	0.60		1.20	0.06	1.03	9.44	2.79
Apr	3.53	3.53	2.20	-0.80	-12.60	0.60	0.10	0.60		1.20	0.06	1.04	9.45	3.52
May	4.11	4.03	2.20	-0.80	-12.60	0.60	0.10	0.67		1.20	0.06	0.97	12.19	3.78
Jun	6.21	6.21	2.82	-0.46	-12.26	1.22	0.10	2.03		1.20	0.06	0.83	9.95	3.63
Jul	7.10	7.10	3.03	-0.20	-12.00	1.43	0.10	1.46		1.20	0.06	0.72	7.01	3.52
Aug	6.55	5.77	1.50	-1.48	-12.50	-0.48	0.10	-0.12		1.20	0.06	0.72	11.40	3.64
Sep	6.99	5.69	1.29	-1.31	-12.21	-1.01	0.10	-0.42		1.20	0.06	0.79	12.01	3.83
Oct	7.46	6.16	1.76	-1.84	-11.80	-0.54	0.10	0.25		1.20	0.06	0.94	12.16	4.19
Nov	8.00	6.70	2.30	-2.30	-11.80	0.00	0.10	1.07		1.20	0.06	1.04	12.26	4.08
Dec	8.32	7.02	2.62	-1.98	-11.80	0.32	0.10	1.22		1.20	0.06	1.03	12.25	4.07

Table 7.1-3M
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil			5. LPG		
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile (Baht/L)	
			(E10)	(E20)										(E85)
2008 (Min)	34.86	33.40	28.95	27.36	28.15	31.15	30.34	33.20	22.53	21.06	18.13	18.13	18.13	9.79
(WT.AVG)	35.33	33.43	28.97	27.37	28.16	31.26	30.39	33.20	24.30	22.90	18.13	18.13	18.13	9.79
(Max)	35.89	33.45	29.02	27.37	28.20	31.34	30.50	33.20	27.12	26.11	18.13	18.13	18.13	9.79
-Jan (Min)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	20.35	19.78	18.02	18.02	18.02	9.73
(WT.AVG)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	21.61	20.87	18.02	18.02	18.02	9.73
(Max)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	22.79	22.37	18.02	18.02	18.02	9.73
-Feb (Min)	32.94	31.84	28.94	26.94	28.14	29.29	28.79	29.20	20.37	19.30	18.21	18.21	18.21	9.83
(WT.AVG)	32.94	31.84	28.94	26.94	28.14	29.29	28.79	29.20	21.64	20.61	18.21	18.21	18.21	9.83
(Max)	32.94	31.84	28.94	26.94	28.14	29.29	28.79	29.20	22.81	22.33	18.21	18.21	18.21	9.83
-Mar (Min)	34.01	32.91	30.01	28.01	29.21	32.07	29.82	30.56	21.35	20.28	18.13	18.13	18.13	9.79
(WT.AVG)	34.05	32.94	30.03	28.01	29.21	30.62	29.89	30.56	22.52	21.48	18.13	18.13	18.13	9.79
(Max)	34.15	32.96	30.06	28.01	29.26	30.75	29.96	30.56	23.61	23.13	18.13	18.13	18.13	9.79
-Apr (Min)	35.31	34.21	31.31	29.31	30.51	31.99	31.29	32.30	22.16	21.01	18.13	18.13	18.13	9.79
(WT.AVG)	35.40	34.27	31.36	29.31	30.52	32.32	31.36	32.30	23.36	22.26	18.13	18.13	18.13	9.79
(Max)	35.42	34.32	31.42	29.31	30.62	32.49	31.57	32.30	24.53	23.97	18.13	18.13	18.13	9.79
-May (Min)	38.18	37.10	34.18	32.18	33.38	37.89	35.33	36.13	23.46	21.97	18.13	18.13	18.13	9.79
(WT.AVG)	38.26	37.12	34.19	32.18	33.38	39.21	35.72	36.13	25.11	23.58	18.13	18.13	18.13	9.79
(Max)	39.01	37.15	34.25	32.18	34.23	41.27	36.02	36.13	26.83	25.92	18.13	18.13	18.13	9.79
-Jun (Min)	41.43	40.33	36.73	35.15	35.93	42.53	40.86	41.52	25.41	23.62	18.13	18.13	18.13	9.79
(WT.AVG)	41.64	40.40	36.80	35.17	35.97	43.11	41.02	41.52	27.09	25.28	18.13	18.13	18.13	9.79
(Max)	42.34	40.51	37.07	35.19	36.11	45.31	41.19	41.52	28.79	27.63	18.13	18.13	18.13	9.79
-Jul (Min)	42.04	40.83	36.35	35.05	35.55	44.70	42.40	43.68	28.99	27.06	18.13	18.13	18.13	9.79
(WT.AVG)	42.69	40.90	36.41	35.10	35.61	45.49	42.57	43.68	30.49	28.46	18.13	18.13	18.13	9.79
(Max)	43.35	40.98	36.50	35.16	35.70	48.34	42.69	43.68	32.55	31.22	18.13	18.13	18.13	9.79
-Aug (Min)	38.24	36.84	29.34	28.04	28.54	40.82	34.37	37.48	28.26	26.39	18.13	18.13	18.13	9.79
(WT.AVG)	38.62	36.84	29.34	28.04	28.54	42.33	34.37	37.48	29.57	27.52	18.13	18.13	18.13	9.79
(Max)	39.44	36.85	29.35	28.04	28.55	47.22	34.40	37.48	31.42	30.08	18.13	18.13	18.13	9.79
-Sep (Min)	37.30	35.82	28.32	27.02	27.52	38.81	31.65	34.86	27.67	26.00	18.13	18.13	18.13	9.79
(WT.AVG)	37.84	35.87	28.35	27.02	27.54	40.99	31.70	34.86	28.60	26.83	18.13	18.13	18.13	9.79
(Max)	38.51	35.92	28.42	27.02	27.62	46.03	31.75	34.86	29.99	28.65	18.13	18.13	18.13	9.79
-Oct (Min)	33.90	31.90	25.39	24.25	24.59	33.42	26.22	29.48	22.66	20.98	18.13	18.13	18.13	9.79
(WT.AVG)	34.42	31.90	25.39	24.25	24.59	39.41	26.22	29.48	24.42	22.95	18.13	18.13	18.13	9.79
(Max)	35.16	31.90	25.39	24.25	24.59	42.27	26.22	29.48	27.51	26.18	18.13	18.13	18.13	9.79
-Nov (Min)	27.91	25.60	20.64	19.26	19.84	28.37	22.22	27.04	15.50	13.79	18.13	18.13	18.13	9.79
(WT.AVG)	28.68	25.60	20.64	19.26	19.84	38.30	22.22	27.04	19.11	17.93	18.13	18.13	18.13	9.79
(Max)	29.44	25.60	20.64	19.26	19.84	39.88	22.22	27.04	27.28	25.90	18.13	18.13	18.13	9.79
-Dec (Min)	23.92	21.54	17.00	15.65	16.17	25.97	19.67	27.04	14.22	12.51	18.13	18.13	18.13	9.79
(WT.AVG)	26.28	21.54	17.00	15.65	16.17	37.27	19.67	27.04	18.10	16.99	18.13	18.13	18.13	9.79
(Max)	27.76	21.54	17.00	15.65	16.17	39.88	19.67	27.04	27.28	25.90	18.13	18.13	18.13	9.79

**Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok**

Unit : Baht/Litre

Products	1. Gasoline					2. Kerosene			3. Diesel			4. Fuel Oil			5. LPG	
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile (Baht/L)			
			(E10)	(E20)										(E85)		
2009 (Min)	37.23	31.32	27.49	25.39	18.77	24.75	22.71	27.04	18.10	16.39	18.13		18.13	9.79		
(WT.AVG)	37.47	31.34	27.50	25.39	18.87	24.77	22.71	27.04	21.18	19.83	18.13		18.13	9.79		
(Max)	38.29	31.36	27.53	25.39	18.96	24.79	22.73	27.04	27.28	25.90	18.13		18.13	9.79		
-Jan (Min)	29.28	21.99	17.44	16.14	15.97	18.61	17.11	27.04	14.22	12.51	18.13		18.13	9.79		
(WT.AVG)	30.00	22.07	17.53	16.16	17.13	18.63	17.14	27.04	18.10	16.99	18.13		18.13	9.79		
(Max)	30.59	22.24	17.69	16.18	18.29	18.73	17.23	27.04	27.28	25.90	18.13		18.13	9.79		
-Feb (Min)	33.85	26.23	21.70	20.40	14.69	19.59	18.09	27.04	14.34	12.63	18.13		18.13	9.79		
(WT.AVG)	34.41	26.24	21.71	20.40	14.69	19.59	18.09	27.04	18.19	17.08	18.13		18.13	9.79		
(Max)	34.85	26.25	21.73	20.40	14.69	19.59	18.09	27.04	27.28	25.90	18.13		18.13	9.79		
-Mar (Min)	34.22	27.34	23.38	21.53	15.48	20.78	18.45	27.04	14.39	12.68	18.13		18.13	9.79		
(WT.AVG)	34.44	27.36	23.39	21.53	15.48	20.99	18.48	27.04	18.24	17.12	18.13		18.13	9.79		
(Max)	35.84	27.41	23.45	21.53	15.48	21.07	18.50	27.04	27.28	25.90	18.13		18.13	9.79		
-Apr (Min)	36.05	29.45	25.65	23.35	19.95	23.05	20.05	27.04	15.29	13.58	18.13		18.13	9.79		
(WT.AVG)	36.20	29.45	25.65	23.35	19.95	23.05	20.05	27.04	18.95	17.78	18.13		18.13	9.79		
(Max)	37.23	29.45	25.65	23.35	19.95	23.05	20.05	27.04	27.28	25.90	18.13		18.13	9.79		
-May (Min)	37.26	30.64	26.84	24.54	18.33	23.82	20.82	27.04	16.65	14.94	18.13		18.13	9.79		
(WT.AVG)	37.40	30.66	26.86	24.54	18.33	23.84	20.84	27.04	20.03	18.77	18.13		18.13	9.79		
(Max)	38.26	30.66	26.86	24.54	18.33	23.84	20.84	27.04	27.28	25.90	18.13		18.13	9.79		
-Jun (Min)	38.82	32.72	28.92	26.62	19.62	26.68	23.81	27.04	18.88	17.17	18.13		18.13	9.79		
(WT.AVG)	38.93	32.72	28.92	26.62	19.62	26.68	23.81	27.04	21.80	20.40	18.13		18.13	9.79		
(Max)	39.94	32.72	28.92	26.62	19.62	26.68	23.83	27.04	27.28	25.90	18.13		18.13	9.79		
-Jul (Min)	38.30	33.00	29.39	27.09	20.63	26.96	24.16	27.04	19.48	17.77	18.13		18.13	9.79		
(WT.AVG)	38.46	33.00	29.39	27.09	20.63	26.96	24.16	27.04	22.27	20.84	18.13		18.13	9.79		
(Max)	39.17	33.00	29.39	27.09	20.63	26.96	24.16	27.04	27.28	25.90	18.13		18.13	9.79		
-Aug (Min)	40.20	35.38	31.78	29.48	22.49	28.17	26.30	27.04	20.64	18.93	18.13		18.13	9.79		
(WT.AVG)	40.39	35.40	31.80	29.48	22.49	28.17	26.31	27.04	23.19	21.68	18.13		18.13	9.79		
(Max)	41.20	35.43	31.83	29.48	22.49	28.19	26.35	27.04	27.28	25.90	18.13		18.13	9.79		
-Sep (Min)	39.50	34.70	31.10	28.78	21.92	26.83	25.40	27.04	20.27	18.56	18.13		18.13	9.79		
(WT.AVG)	39.68	34.70	31.10	28.78	21.92	26.83	25.40	27.04	22.90	21.42	18.13		18.13	9.79		
(Max)	40.50	34.70	31.10	28.78	21.92	26.83	25.40	27.04	27.28	25.90	18.13		18.13	9.79		
-Oct (Min)	38.91	34.08	30.48	28.18	18.72	26.66	25.26	27.04	20.43	18.72	18.13		18.13	9.79		
(WT.AVG)	39.09	34.08	30.48	28.18	18.72	26.67	25.26	27.04	23.02	21.53	18.13		18.13	9.79		
(Max)	39.88	34.08	30.48	28.18	18.72	26.69	25.29	27.04	27.28	25.90	18.13		18.13	9.79		
-Nov (Min)	40.34	35.34	31.74	29.44	18.72	28.19	26.79	27.04	21.29	19.58	18.13		18.13	9.79		
(WT.AVG)	40.48	35.34	31.74	29.44	18.72	28.19	26.79	27.04	23.71	22.16	18.13		18.13	9.79		
(Max)	41.14	35.34	31.74	29.44	18.72	28.19	26.79	27.04	27.28	25.90	18.13		18.13	9.79		
-Dec (Min)	40.02	35.02	31.42	29.12	18.72	27.63	26.23	27.04	21.28	19.57	18.13		18.13	9.79		
(WT.AVG)	40.16	35.03	31.42	29.12	18.72	27.63	26.23	27.04	23.70	22.15	18.13		18.13	9.79		
(Max)	40.82	35.07	31.47	29.12	18.72	27.67	26.27	27.04	27.28	25.90	18.13		18.13	9.79		

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline					2. Kerosene			3. Diesel			4. Fuel Oil			5. LPG		
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile (Baht/L)				
			(E10)	(E85)													
2010 (Min)	41.12	36.08	32.30	29.96	19.21	30.84	28.64	27.50	27.04	21.06	19.35	18.13	18.13	9.79			
(WT.AVG)	41.26	36.10	32.35	29.96	19.21	30.85	28.72	27.55	27.04	23.59	22.04	18.13	18.13	9.79			
(Max)	41.90	36.13	32.40	29.96	19.21	30.90	28.79	27.58	27.04	27.28	25.90	18.13	18.13	9.79			
-Jan (Min)	40.92	35.92	32.32	30.02	18.72	31.52	28.09	26.75	27.04	21.86	20.15	18.13	18.13	9.79			
(WT.AVG)	41.06	35.92	32.32	30.02	18.72	31.52	28.09	26.76	27.04	24.16	22.58	18.13	18.13	9.79			
(Max)	41.72	35.92	32.34	30.02	18.72	31.54	28.09	26.78	27.04	27.28	25.90	18.13	18.13	9.79			
-Feb (Min)	41.38	36.38	32.78	30.48	18.72	31.44	27.93	26.73	27.04	21.12	19.41	18.13	18.13	9.79			
(WT.AVG)	41.51	36.38	32.78	30.48	18.72	31.47	27.93	26.73	27.04	23.57	22.04	18.13	18.13	9.79			
(Max)	42.14	36.38	32.78	30.48	18.72	31.48	27.93	26.73	27.04	27.28	25.90	18.13	18.13	9.79			
-Mar (Min)	42.15	37.15	33.55	31.25	19.07	32.05	28.94	27.74	27.04	21.21	19.50	18.13	18.13	9.79			
(WT.AVG)	42.29	37.15	33.55	31.25	19.07	32.05	28.94	27.74	27.04	23.64	22.10	18.13	18.13	9.79			
(Max)	42.89	37.15	33.55	31.25	19.07	32.05	28.94	27.74	27.04	27.28	25.90	18.13	18.13	9.79			
-Apr (Min)	42.59	37.53	33.87	31.57	20.07	32.37	29.64	28.44	27.04	21.47	19.76	18.13	18.13	9.79			
(WT.AVG)	42.72	37.56	33.90	31.57	20.07	32.39	29.67	28.47	27.04	23.85	22.29	18.13	18.13	9.79			
(Max)	43.37	37.61	33.95	31.57	20.07	32.45	29.72	28.52	27.04	27.28	25.90	18.13	18.13	9.79			
-May (Min)	41.40	36.40	32.60	30.30	20.06	31.10	28.73	28.00	27.04	21.32	19.60	18.13	18.13	9.79			
(WT.AVG)	41.51	36.40	32.60	30.30	20.06	31.10	28.73	28.00	27.04	23.77	22.21	18.13	18.13	9.79			
(Max)	42.20	36.40	32.60	30.30	20.06	31.10	28.73	28.00	27.04	27.28	25.90	18.13	18.13	9.79			
-Jun (Min)	40.46	35.42	31.24	29.32	19.42	30.12	27.69	26.79	27.04	20.34	18.63	18.13	18.13	9.79			
(WT.AVG)	40.57	35.44	31.58	29.34	19.42	30.14	28.06	27.12	27.04	23.07	21.54	18.13	18.13	9.79			
(Max)	41.26	35.46	31.66	29.36	19.42	30.16	28.11	27.21	27.04	27.28	25.90	18.13	18.13	9.79			
-Jul (Min)	40.37	35.37	31.49	29.27	19.11	30.07	28.19	27.04	27.04	20.51	18.80	18.13	18.13	9.79			
(WT.AVG)	40.52	35.37	31.56	29.27	19.11	30.07	28.24	27.11	27.04	23.20	21.67	18.13	18.13	9.79			
(Max)	41.17	35.37	31.59	29.27	19.11	30.09	28.24	27.14	27.04	27.28	25.90	18.13	18.13	9.79			
-Aug (Min)	40.52	35.52	31.72	29.42	19.01	30.22	28.65	27.38	27.04	20.86	19.14	18.13	18.13	9.79			
(WT.AVG)	40.68	35.52	31.72	29.42	19.01	30.22	28.58	27.38	27.04	23.48	21.92	18.13	18.13	9.79			
(Max)	41.32	35.52	31.72	29.42	19.01	30.22	28.58	27.38	27.04	27.28	25.90	18.13	18.13	9.79			
-Sep (Min)	39.44	34.44	30.64	28.34	18.42	29.14	28.46	27.79	27.04	20.22	18.51	18.13	18.13	9.79			
(WT.AVG)	39.60	34.44	30.64	28.34	18.42	29.14	28.46	27.79	27.04	22.97	21.46	18.13	18.13	9.79			
(Max)	40.24	34.44	30.64	28.34	18.42	29.14	28.46	27.79	27.04	27.28	25.90	18.13	18.13	9.79			
-Oct (Min)	40.38	35.33	31.53	29.23	18.87	30.03	28.56	27.36	27.04	20.68	18.96	18.13	18.13	9.79			
(WT.AVG)	40.54	35.35	31.57	29.23	18.87	30.05	28.58	27.38	27.04	23.34	21.79	18.13	18.13	9.79			
(Max)	41.19	35.40	31.64	29.23	18.87	30.14	28.62	27.42	27.04	27.28	25.90	18.13	18.13	9.79			
-Nov (Min)	41.21	36.06	32.26	29.96	19.23	30.76	29.93	28.06	27.04	21.25	19.54	18.13	18.13	9.79			
(WT.AVG)	41.34	36.08	32.31	29.96	19.23	30.79	29.93	28.07	27.04	23.78	22.20	18.13	18.13	9.79			
(Max)	41.89	36.21	32.47	29.96	19.23	30.97	30.88	28.14	27.04	27.28	25.90	18.13	18.13	9.79			
-Dec (Min)	42.60	37.45	33.63	30.30	19.82	31.20	30.98	29.89	27.04	21.85	20.14	18.13	18.13	9.79			
(WT.AVG)	42.75	37.55	33.70	30.30	19.82	31.23	30.93	29.93	27.04	24.26	22.64	18.13	18.13	9.79			
(Max)	43.39	37.68	33.84	30.30	19.82	31.50	30.88	30.10	27.04	27.28	25.90	18.13	18.13	9.79			

**Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok**

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene			3. Diesel			4. Fuel Oil			5. LPG	
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%/S)	1500 (2%/S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile		
			(E10)	(E20)									(E85)	(Baht/kg)	(Baht/L)
2011 (Min)	44.51	39.68	36.48	32.94	21.75	33.94	29.40	29.65	27.04	26.69	25.19	18.13	20.38	18.13	9.79
(WT.AVG)	44.64	39.72	36.52	32.94	21.75	33.96	29.45	29.95	27.04	28.58	26.68	18.13	20.38	18.13	9.79
(Max)	45.31	39.80	36.65	32.94	21.75	34.12	29.54	30.17	27.04	30.98	29.76	18.13	20.38	18.13	9.79
-Jan (Min)	43.88	39.05	34.75	31.36	20.54	32.25	29.99	29.57	27.04	22.80	21.09	18.13	18.13	18.13	9.79
(WT.AVG)	44.04	39.06	34.79	31.36	20.54	32.28	30.01	29.61	27.04	25.02	23.34	18.13	18.13	18.13	9.79
(Max)	44.88	39.08	34.91	31.36	20.54	32.42	30.10	29.72	27.04	27.28	25.90	18.13	18.13	18.13	9.79
-Feb (Min)	44.92	40.13	35.77	32.37	21.11	33.27	29.99	29.99	27.04	25.26	23.55	18.13	18.13	18.13	9.79
(WT.AVG)	45.10	40.16	35.80	32.38	21.11	33.29	30.10	30.10	27.04	26.97	25.30	18.13	18.13	18.13	9.79
(Max)	45.97	40.20	35.84	32.39	21.12	33.34	30.38	30.38	27.04	28.91	28.29	18.13	18.13	18.13	9.79
-Mar (Min)	47.19	42.11	37.30	33.91	22.02	34.80	29.96	29.55	27.04	26.85	25.14	18.13	18.13	18.13	9.79
(WT.AVG)	47.29	42.15	37.34	33.91	22.02	34.82	30.00	30.05	27.04	28.24	26.30	18.13	18.13	18.13	9.79
(Max)	47.96	42.29	37.47	33.91	22.02	34.95	30.12	30.30	27.04	30.50	29.17	18.13	18.13	18.13	9.79
-Apr (Min)	48.62	43.41	38.51	35.11	22.68	36.01	29.99	29.49	27.04	27.25	25.81	18.13	18.13	18.13	9.79
(WT.AVG)	48.71	43.44	38.54	35.12	22.68	36.03	30.03	30.04	27.04	28.97	26.98	18.13	18.13	18.13	9.79
(Max)	49.22	43.51	38.62	35.12	22.69	36.12	30.22	30.29	27.04	31.43	30.09	18.13	18.13	18.13	9.79
-May (Min)	48.48	43.09	38.19	34.79	22.47	35.69	29.99	29.99	27.04	27.20	25.64	18.13	18.13	18.13	9.79
(WT.AVG)	48.61	43.12	38.21	34.79	22.47	35.70	29.99	29.99	27.04	28.70	26.73	18.13	18.13	18.13	9.79
(Max)	49.22	43.29	38.33	34.79	22.47	35.83	30.00	30.00	27.04	31.09	29.76	18.13	18.13	18.13	9.79
-Jun (Min)	47.81	42.41	37.51	34.11	22.22	35.01	29.99	29.99	27.04	27.27	25.84	18.13	18.13	18.13	9.79
(WT.AVG)	47.97	42.41	37.51	34.11	22.22	35.01	30.01	30.01	27.04	28.92	26.92	18.13	18.13	18.13	9.79
(Max)	48.61	42.41	37.53	34.11	22.22	35.03	30.10	30.10	27.04	31.39	30.06	18.13	18.13	18.13	9.79
-Jul (Min)	48.43	43.02	38.12	34.68	22.52	35.62	29.99	29.99	27.04	27.27	25.90	18.13	21.13	18.13	9.79
(WT.AVG)	48.59	43.03	38.12	34.68	22.52	35.62	30.02	30.02	27.04	28.91	27.39	18.13	21.13	18.13	9.79
(Max)	49.22	43.06	38.16	34.68	22.52	35.66	30.08	30.08	27.04	31.38	30.67	18.13	21.13	18.13	9.79
-Aug (Min)	46.16	40.90	37.07	33.05	21.95	34.55	29.51	29.51	27.04	27.22	25.68	18.13	21.13	18.13	9.79
(WT.AVG)	46.33	40.92	37.09	33.05	21.95	34.56	29.52	29.52	27.04	28.76	26.79	18.13	21.13	18.13	9.79
(Max)	46.90	40.94	37.16	33.05	21.95	34.66	29.58	29.58	27.04	31.16	29.83	18.13	21.13	18.13	9.79
-Sep (Min)	40.24	36.18	36.23	32.06	21.81	33.24	27.96	27.96	27.04	27.28	25.90	18.13	21.13	18.13	9.79
(WT.AVG)	40.39	36.28	36.35	32.06	21.81	33.30	28.00	28.00	27.04	29.22	27.21	18.13	21.13	18.13	9.79
(Max)	41.06	36.34	36.50	32.06	21.81	33.47	28.05	28.05	27.04	31.75	30.41	18.13	21.13	18.13	9.79
-Oct (Min)	40.00	35.97	35.97	31.95	21.69	32.94	27.57	27.57	27.04	27.28	25.90	18.13	24.13	18.13	9.79
(WT.AVG)	40.14	36.01	36.08	31.95	21.69	33.00	27.79	27.79	27.04	29.44	27.41	18.13	24.13	18.13	9.79
(Max)	40.90	36.06	36.30	31.95	21.69	33.27	27.83	27.83	27.04	32.00	30.66	18.13	24.13	18.13	9.79
-Nov (Min)	39.40	35.25	34.09	31.23	21.18	32.22	28.70	28.70	27.04	27.28	25.90	18.13	24.13	18.13	9.79
(WT.AVG)	39.51	35.29	34.13	31.23	21.18	32.24	28.86	28.86	27.04	29.99	27.97	18.13	24.13	18.13	9.79
(Max)	40.21	35.49	34.43	31.23	21.18	32.63	28.95	28.95	27.04	32.38	31.04	18.13	24.13	18.13	9.79
-Dec (Min)	38.93	34.69	34.20	30.66	20.78	31.66	29.12	29.12	27.04	27.28	25.90	18.13	24.13	18.13	9.79
(WT.AVG)	39.02	34.73	34.23	30.66	20.78	31.67	29.12	29.12	27.04	29.86	27.80	18.13	24.13	18.13	9.79
(Max)	39.61	34.98	34.52	30.66	20.78	32.03	29.12	29.12	27.04	32.52	31.19	18.13	24.13	18.13	9.79

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG		
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile (Baht/L)
			(E10)	(E20)									
2012 (Min)	46.27	41.94	37.94	34.34	22.22	35.88	30.41	27.04	29.72	28.12	18.13	28.71	20.65
(WT.AVG)	46.42	41.96	37.96	34.35	22.23	35.94	30.42	27.04	31.33	29.41	18.13	28.71	20.76
(Max)	47.19	42.01	38.01	34.36	22.23	36.00	30.51	27.04	33.33	32.10	18.13	28.71	20.86
-Jan (Min)	41.65	37.62	36.34	33.59	22.02	34.59	30.45	27.04	30.53	28.81	18.13	27.13	18.88
(WT.AVG)	41.79	37.65	36.36	33.59	22.02	34.60	30.46	27.04	32.00	30.01	18.13	27.13	18.88
(Max)	42.54	37.72	36.44	33.59	22.02	34.74	30.51	27.04	33.83	32.50	18.13	27.13	18.88
-Feb (Min)	43.79	39.80	38.52	35.77	22.85	36.77	31.31	27.04	31.04	29.33	18.13	27.13	18.88
(WT.AVG)	43.94	39.81	38.53	35.77	22.85	36.78	31.31	27.04	32.67	30.63	18.13	27.13	19.26
(Max)	44.72	39.84	38.56	35.77	22.85	36.81	31.31	27.04	34.69	33.35	18.13	27.13	19.63
-Mar (Min)	45.82	41.85	40.02	37.27	23.87	38.27	32.12	27.04	31.45	29.73	18.13	27.13	19.63
(WT.AVG)	45.97	41.85	40.02	37.27	23.87	38.27	32.12	27.04	33.08	31.04	18.13	27.13	20.00
(Max)	46.77	41.87	40.04	37.27	23.87	38.29	32.14	27.04	35.09	33.76	18.13	27.13	20.38
-Apr (Min)	47.16	43.21	40.33	37.58	23.98	38.14	31.99	27.04	31.44	29.72	18.13	30.13	20.38
(WT.AVG)	47.31	43.21	40.33	37.58	23.98	38.56	32.06	27.04	33.07	31.03	18.13	30.13	20.76
(Max)	48.13	43.21	40.33	37.58	23.98	38.58	32.43	27.04	35.08	33.75	18.13	30.13	21.13
-May (Min)	45.85	41.90	38.40	35.49	22.73	36.47	30.51	27.04	30.38	28.67	18.13	30.13	21.13
(WT.AVG)	46.00	41.90	38.40	35.49	22.73	36.64	30.54	27.04	32.01	29.97	18.13	30.13	21.13
(Max)	46.82	41.96	38.47	35.49	22.73	36.72	30.70	27.04	34.03	32.70	18.13	30.13	21.13
-Jun (Min)	44.34	40.39	36.32	32.95	20.72	34.63	29.58	27.04	28.52	26.88	18.13	27.89	21.13
(WT.AVG)	44.50	40.39	36.37	32.95	20.72	34.63	29.58	27.04	30.15	28.16	18.13	27.89	21.13
(Max)	45.31	40.39	36.38	32.95	20.72	34.63	29.75	27.04	32.18	30.85	18.13	27.89	21.13
-Jul (Min)	45.90	41.81	37.11	33.46	21.36	35.36	29.74	27.04	28.48	26.77	18.13	24.86	21.13
(WT.AVG)	46.03	41.86	37.14	33.46	21.36	35.38	29.74	27.04	30.11	28.07	18.13	24.86	21.13
(Max)	46.75	41.99	37.25	33.46	21.36	35.50	29.86	27.04	32.12	30.79	18.13	24.86	21.13
-Aug (Min)	48.08	43.45	38.25	34.71	22.47	36.11	29.89	27.04	29.81	28.06	18.13	29.56	21.13
(WT.AVG)	48.22	43.53	38.31	34.74	22.50	36.16	29.89	27.04	31.44	29.37	18.13	29.56	21.26
(Max)	48.95	43.67	38.40	34.77	22.53	36.27	30.07	27.04	33.47	32.10	18.13	29.56	21.38
-Sep (Min)	47.94	43.07	37.63	34.20	21.99	35.18	29.93	27.04	30.27	28.56	18.13	30.13	21.38
(WT.AVG)	48.09	43.08	37.67	34.21	21.99	35.21	29.95	27.04	31.90	29.86	18.13	30.13	21.38
(Max)	48.89	43.14	37.72	34.22	21.99	35.27	29.99	27.04	33.92	32.59	18.13	30.13	21.38
-Oct (Min)	48.22	43.35	37.71	33.27	21.88	35.26	29.79	27.04	29.15	27.44	18.13	30.13	21.38
(WT.AVG)	48.37	43.36	37.71	33.35	21.89	35.26	29.79	27.04	30.75	28.72	18.13	30.13	21.38
(Max)	49.19	43.37	37.72	33.43	21.89	35.27	29.81	27.04	32.72	31.39	18.13	30.13	21.38
-Nov (Min)	47.96	43.37	37.14	31.69	21.30	34.69	29.79	27.04	27.80	27.46	18.13	30.13	21.38
(WT.AVG)	48.11	43.38	37.16	31.69	21.30	34.70	29.79	27.04	29.42	28.75	18.13	30.13	21.38
(Max)	48.91	43.39	37.19	31.69	21.30	34.74	29.79	27.04	31.44	31.43	18.13	30.13	21.38
-Dec (Min)	48.48	43.46	37.54	32.09	21.51	35.09	29.79	27.04	27.71	26.00	18.13	30.13	21.38
(WT.AVG)	48.67	43.47	37.55	32.09	21.51	35.10	29.79	27.04	29.34	27.31	18.13	30.13	21.38
(Max)	49.32	43.51	37.59	32.09	21.51	35.14	29.79	27.04	31.36	30.03	18.13	30.13	21.38



APPENDIX I

CHAPTER
บทที่

8

Air Pollution Emission
in The Energy Sector

การปล่อยมลพิษทางอากาศในภาคพลังงาน

Table 8.1-1M
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	7,091	5,462	4,831	17,384
Feb	6,577	5,179	4,737	16,493
Mar	7,265	5,415	5,249	17,929
Apr	7,120	5,512	4,901	17,532
May	6,741	5,476	5,580	17,798
Jun	6,086	5,311	5,400	16,798
Jul	5,905	5,142	5,745	16,791
Aug	6,166	5,099	5,720	16,985
Sep	5,929	5,253	5,395	16,577
Oct	6,337	5,334	5,541	17,212
Nov	6,219	4,681	4,930	15,830
Dec	6,980	4,291	4,594	15,864
YTD	78,416	62,154	62,624	203,195
2009				
Jan	7,181	4,972	4,384	16,537
Feb	6,149	4,502	4,804	15,456
Mar	6,916	4,948	5,637	17,501
Apr	6,667	5,606	5,204	17,477
May	6,960	5,451	5,688	18,099
Jun	6,350	5,804	5,680	17,833
Jul	6,498	5,636	5,629	17,763
Aug	6,433	5,266	5,787	17,485
Sep	6,234	5,307	5,831	17,373
Oct	6,619	4,732	6,031	17,383
Nov	6,436	4,929	5,772	17,137
Dec	7,313	5,248	5,597	18,158
YTD	79,756	62,401	66,045	208,202
2010				
Jan	6,745	5,122	5,655	17,522
Feb	6,616	4,652	5,764	17,032
Mar	7,239	5,776	6,382	19,397
Apr	6,667	5,680	6,139	18,485
May	6,781	5,728	6,659	19,168
Jun	6,597	5,495	6,629	18,721
Jul	6,764	5,345	6,494	18,603
Aug	6,468	5,397	6,437	18,302
Sep	6,320	5,245	6,458	18,024
Oct	6,437	5,250	6,560	18,248
Nov	6,871	5,378	6,284	18,532
Dec	7,189	4,788	6,372	18,348
YTD	80,694	63,856	75,833	220,383

Table 8.1-1M (Cont.)
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2011				
Jan	7,066	5,653	5,846	18,564
Feb	6,615	5,246	5,747	17,608
Mar	7,368	5,887	6,532	19,787
Apr	7,150	5,615	6,046	18,810
May	7,243	5,761	6,755	19,760
Jun	7,129	5,551	6,597	19,278
Jul	7,024	5,664	6,479	19,167
Aug	7,030	5,703	6,731	19,464
Sep	6,845	5,525	6,291	18,661
Oct	6,706	5,470	5,878	18,055
Nov	6,658	4,686	5,715	17,059
Dec	7,693	4,573	5,903	18,169
YTD	84,528	65,334	74,520	224,382
2012				
Jan	7,413	5,168	6,165	18,746
Feb	7,267	4,785	6,311	18,363
Mar	7,788	5,422	6,987	20,198
Apr	7,488	5,862	6,261	19,611
May	7,968	5,842	7,008	20,818
Jun	7,456	5,363	7,000	19,819
Jul	7,346	5,612	7,229	20,187
Aug	7,365	5,941	6,930	20,236
Sep	6,923	5,863	6,794	19,581
Oct	7,419	6,166	7,216	20,800
Nov	7,615	5,806	7,250	20,671
Dec	7,965	5,793	6,981	20,738
YTD	90,013	67,623	82,132	239,769
Growth Rate (%)				
2008	-7.3	7.9	7.5	1.4
2009	1.7	0.4	5.5	2.5
2010	1.2	2.3	14.8	5.9
2011	4.8	2.3	-1.7	1.8
2012	6.5	3.5	10.2	6.9

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-2M
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2008					
Jan	7,026	4,736	4,071	1,552	17,384
Feb	6,729	4,416	3,913	1,436	16,493
Mar	7,408	4,809	4,141	1,572	17,929
Apr	7,165	4,630	4,228	1,509	17,532
May	7,677	4,491	4,128	1,503	17,798
Jun	7,220	4,074	4,132	1,372	16,798
Jul	7,325	3,890	4,226	1,351	16,791
Aug	7,435	4,105	4,056	1,390	16,985
Sep	7,237	3,974	4,017	1,348	16,577
Oct	7,466	4,306	4,006	1,434	17,212
Nov	6,531	4,267	3,624	1,409	15,830
Dec	5,942	4,841	3,520	1,562	15,864
YTD	85,160	52,538	48,060	17,438	203,195
2009					
Jan	6,169	5,059	3,712	1,598	16,537
Feb	6,128	4,331	3,631	1,365	15,456
Mar	7,155	4,927	3,893	1,526	17,501
Apr	6,909	4,742	4,351	1,476	17,477
May	7,294	4,950	4,314	1,540	18,099
Jun	7,353	4,488	4,563	1,429	17,833
Jul	7,335	4,601	4,358	1,469	17,763
Aug	7,191	4,550	4,283	1,461	17,485
Sep	7,175	4,388	4,386	1,424	17,373
Oct	7,143	4,615	4,132	1,493	17,383
Nov	6,755	4,554	4,358	1,470	17,137
Dec	6,624	5,175	4,705	1,655	18,158
YTD	83,231	56,380	50,685	17,906	208,202
2010					
Jan	7,190	4,786	3,990	1,557	17,522
Feb	6,911	4,707	3,907	1,508	17,032
Mar	7,796	5,101	4,852	1,647	19,397
Apr	7,639	4,743	4,578	1,526	18,485
May	8,130	4,825	4,653	1,560	19,168
Jun	7,740	4,726	4,732	1,524	18,721
Jul	7,521	4,789	4,729	1,563	18,603
Aug	7,657	4,610	4,527	1,509	18,302
Sep	7,372	4,535	4,642	1,476	18,024
Oct	7,698	4,629	4,411	1,510	18,248
Nov	7,262	4,943	4,728	1,599	18,532
Dec	7,051	5,192	4,425	1,681	18,348
YTD	89,965	57,587	54,173	18,658	220,383

Table 8.1-2M (Cont.)
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2011					
Jan	7,302	4,989	4,620	1,653	18,564
Feb	6,861	4,663	4,564	1,520	17,608
Mar	7,763	5,205	5,100	1,718	19,787
Apr	7,310	5,034	4,800	1,667	18,810
May	8,027	5,145	4,892	1,695	19,760
Jun	7,628	5,007	4,996	1,647	19,278
Jul	7,793	4,819	4,929	1,626	19,167
Aug	7,696	4,899	5,199	1,671	19,464
Sep	7,244	4,748	5,050	1,620	18,661
Oct	7,074	4,641	4,732	1,608	18,055
Nov	6,677	4,661	4,115	1,605	17,059
Dec	6,441	5,403	4,481	1,845	18,169
YTD	87,816	59,215	57,477	19,873	224,382
2012					
Jan	7,311	5,222	4,442	1,772	18,746
Feb	7,043	5,149	4,437	1,734	18,363
Mar	8,119	5,517	4,669	1,894	20,198
Apr	7,867	5,172	4,767	1,806	19,611
May	8,363	5,432	5,129	1,894	20,818
Jun	8,038	5,212	4,761	1,809	19,819
Jul	7,996	5,126	5,266	1,799	20,187
Aug	8,066	5,168	5,169	1,832	20,236
Sep	8,013	4,882	4,954	1,731	19,581
Oct	8,505	5,211	5,244	1,841	20,800
Nov	8,290	5,400	5,119	1,863	20,671
Dec	8,123	5,655	5,007	1,953	20,738
YTD	95,734	63,145	58,963	21,927	239,769
Growth Rate (%)					
2008	1.3	-5.5	9.8	2.5	1.4
2009	-2.3	7.3	5.5	2.7	2.5
2010	8.1	2.1	6.9	4.2	5.9
2011	-2.4	2.8	6.1	6.5	1.8
2012	9.0	6.6	2.6	10.3	6.9

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-3M
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	112	2,890	4,024	7,026
Feb	101	2,684	3,944	6,729
Mar	131	2,881	4,396	7,408
Apr	157	2,963	4,045	7,165
May	107	2,891	4,680	7,677
Jun	86	2,609	4,525	7,220
Jul	90	2,497	4,738	7,325
Aug	94	2,611	4,729	7,435
Sep	86	2,767	4,384	7,237
Oct	85	2,839	4,542	7,466
Nov	77	2,455	3,999	6,531
Dec	84	2,223	3,635	5,942
YTD	1,211	32,310	51,639	85,160
2009				
Jan	46	2,776	3,347	6,169
Feb	42	2,295	3,791	6,128
Mar	43	2,649	4,464	7,155
Apr	40	2,740	4,129	6,909
May	43	2,718	4,533	7,294
Jun	43	2,829	4,481	7,353
Jul	44	2,850	4,442	7,335
Aug	44	2,579	4,568	7,191
Sep	45	2,558	4,571	7,175
Oct	57	2,394	4,692	7,143
Nov	44	2,249	4,462	6,755
Dec	52	2,296	4,277	6,624
YTD	543	30,932	51,757	83,231
2010				
Jan	67	2,796	4,326	7,190
Feb	70	2,407	4,433	6,911
Mar	91	2,857	4,848	7,796
Apr	70	2,792	4,777	7,639
May	71	2,840	5,218	8,130
Jun	66	2,527	5,146	7,740
Jul	79	2,447	4,995	7,521
Aug	68	2,692	4,897	7,657
Sep	63	2,398	4,911	7,372
Oct	62	2,624	5,012	7,698
Nov	65	2,486	4,711	7,262
Dec	61	2,275	4,714	7,051
YTD	833	31,143	57,989	89,965

Table 8.1-3M (Cont.)
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2011				
Jan	109	2,972	4,221	7,302
Feb	123	2,557	4,181	6,861
Mar	122	2,982	4,659	7,763
Apr	113	2,885	4,312	7,310
May	106	3,052	4,869	8,027
Jun	133	2,813	4,682	7,628
Jul	164	3,091	4,538	7,793
Aug	124	2,819	4,753	7,696
Sep	132	2,783	4,329	7,244
Oct	125	2,920	4,029	7,074
Nov	90	2,544	4,043	6,677
Dec	106	2,334	4,000	6,441
YTD	1,447	33,753	52,616	87,816
2012				
Jan	112	3,053	4,147	7,311
Feb	100	2,622	4,321	7,043
Mar	102	3,120	4,897	8,119
Apr	139	3,476	4,251	7,867
May	191	3,314	4,858	8,363
Jun	127	2,993	4,919	8,038
Jul	121	2,780	5,095	7,996
Aug	109	3,206	4,752	8,066
Sep	96	3,260	4,658	8,013
Oct	112	3,370	5,023	8,505
Nov	102	3,088	5,100	8,290
Dec	93	3,138	4,892	8,123
YTD	1,402	37,419	56,912	95,734
Growth Rate (%)				
2008	-59.0	3.3	3.6	1.3
2009	-55.1	-4.3	0.2	-2.3
2010	53.3	0.7	12.0	8.1
2011	73.8	8.4	-9.3	-2.4
2012	-3.1	10.9	8.2	9.0

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-4M
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	4,662		74	4,736
Feb	4,337		79	4,416
Mar	4,716		93	4,809
Apr	4,531		99	4,630
May	4,377		113	4,491
Jun	3,949		126	4,074
Jul	3,740		150	3,890
Aug	3,939		165	4,105
Sep	3,803		171	3,974
Oct	4,114		192	4,306
Nov	4,078		189	4,267
Dec	4,646		195	4,841
YTD	50,891		1,647	52,538
2009				
Jan	4,848		211	5,059
Feb	4,115		216	4,331
Mar	4,678		249	4,927
Apr	4,522		220	4,742
May	4,709		241	4,950
Jun	4,241		247	4,488
Jul	4,344		257	4,601
Aug	4,280		270	4,550
Sep	4,125		263	4,388
Oct	4,337		278	4,615
Nov	4,276		278	4,554
Dec	4,872		302	5,175
YTD	53,347		3,033	56,380
2010				
Jan	4,508		278	4,786
Feb	4,428		279	4,707
Mar	4,784		317	5,101
Apr	4,455		288	4,743
May	4,524		302	4,825
Jun	4,411		316	4,726
Jul	4,466		324	4,789
Aug	4,284		326	4,610
Sep	4,203		332	4,535
Oct	4,281		348	4,629
Nov	4,586		357	4,943
Dec	4,812		379	5,192
YTD	53,742		3,845	57,587

Table 8.1-4M (Cont.)
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2011				
Jan	4,615		374	4,989
Feb	4,288		375	4,663
Mar	4,789		417	5,205
Apr	4,658		376	5,034
May	4,716		429	5,145
Jun	4,578		430	5,007
Jul	4,382		437	4,819
Aug	4,452		447	4,899
Sep	4,315		434	4,748
Oct	4,242		400	4,641
Nov	4,317		344	4,661
Dec	4,964		439	5,403
YTD	54,314		4,901	59,215
2012				
Jan	4,740		482	5,222
Feb	4,683		466	5,149
Mar	5,014		503	5,517
Apr	4,718		454	5,172
May	4,930		502	5,432
Jun	4,722		489	5,212
Jul	4,636		490	5,126
Aug	4,658		510	5,168
Sep	4,386		496	4,882
Oct	4,697		514	5,211
Nov	4,890		510	5,400
Dec	5,153		503	5,655
YTD	57,226		5,919	63,145
Growth Rate (%)				
2008	-7.6		229.4	-5.5
2009	4.8		84.2	7.3
2010	0.7		26.8	2.1
2011	1.1		27.5	2.8
2012	5.4		20.8	6.6

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-5M
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	765	2,572	733	4,071
Feb	703	2,495	715	3,913
Mar	846	2,534	760	4,141
Apr	923	2,548	757	4,228
May	754	2,586	788	4,128
Jun	680	2,703	750	4,132
Jul	724	2,645	857	4,226
Aug	742	2,488	826	4,056
Sep	692	2,486	840	4,017
Oct	705	2,494	807	4,006
Nov	655	2,226	742	3,624
Dec	687	2,068	764	3,520
YTD	8,877	29,844	9,338	48,060
2009				
Jan	689	2,196	827	3,712
Feb	626	2,207	798	3,631
Mar	669	2,300	924	3,893
Apr	630	2,866	855	4,351
May	667	2,733	914	4,314
Jun	636	2,975	951	4,563
Jul	642	2,787	930	4,358
Aug	648	2,687	949	4,283
Sep	640	2,749	997	4,386
Oct	733	2,338	1,061	4,132
Nov	646	2,680	1,032	4,358
Dec	734	2,952	1,018	4,705
YTD	7,960	31,469	11,256	50,685
2010				
Jan	613	2,326	1,051	3,990
Feb	611	2,245	1,051	3,907
Mar	716	2,919	1,217	4,852
Apr	616	2,888	1,074	4,578
May	626	2,888	1,139	4,653
Jun	597	2,968	1,167	4,732
Jul	657	2,897	1,175	4,729
Aug	607	2,705	1,214	4,527
Sep	578	2,847	1,216	4,642
Oct	584	2,627	1,200	4,411
Nov	621	2,892	1,215	4,728
Dec	634	2,512	1,278	4,425
YTD	7,462	32,713	13,998	54,173

Table 8.1-5M (Cont.)
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2011				
Jan	688	2,681	1,251	4,620
Feb	684	2,689	1,192	4,564
Mar	739	2,905	1,456	5,100
Apr	713	2,730	1,357	4,800
May	726	2,709	1,457	4,892
Jun	772	2,738	1,486	4,996
Jul	852	2,572	1,504	4,929
Aug	783	2,884	1,532	5,199
Sep	779	2,742	1,528	5,050
Oct	732	2,550	1,449	4,732
Nov	646	2,142	1,327	4,115
Dec	778	2,239	1,464	4,481
YTD	8,893	31,582	17,003	57,477
2012				
Jan	790	2,115	1,536	4,442
Feb	750	2,163	1,524	4,437
Mar	779	2,303	1,587	4,669
Apr	826	2,385	1,557	4,767
May	953	2,528	1,648	5,129
Jun	798	2,371	1,592	4,761
Jul	790	2,832	1,644	5,266
Aug	766	2,735	1,668	5,169
Sep	710	2,604	1,640	4,954
Oct	769	2,796	1,679	5,244
Nov	761	2,718	1,641	5,119
Dec	766	2,654	1,586	5,007
YTD	9,458	30,204	19,301	58,963
Growth Rate (%)				
2008	-6.9	13.3	18.5	9.8
2009	-10.3	5.4	20.5	5.5
2010	-6.3	4.0	24.4	6.9
2011	19.2	-3.5	21.5	6.1
2012	6.4	-4.4	13.5	2.6

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-6M
CO₂ Emission in Other Economics Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	1,552			1,552
Feb	1,436			1,436
Mar	1,572			1,572
Apr	1,509			1,509
May	1,503			1,503
Jun	1,372			1,372
Jul	1,351			1,351
Aug	1,390			1,390
Sep	1,348			1,348
Oct	1,434			1,434
Nov	1,409			1,409
Dec	1,562			1,562
YTD	17,438			17,438
2009				
Jan	1,598			1,598
Feb	1,365			1,365
Mar	1,526			1,526
Apr	1,476			1,476
May	1,540			1,540
Jun	1,429			1,429
Jul	1,469			1,469
Aug	1,461			1,461
Sep	1,424			1,424
Oct	1,493			1,493
Nov	1,470			1,470
Dec	1,655			1,655
YTD	17,906			17,906
2010				
Jan	1,557			1,557
Feb	1,508			1,508
Mar	1,647			1,647
Apr	1,526			1,526
May	1,560			1,560
Jun	1,524			1,524
Jul	1,563			1,563
Aug	1,509			1,509
Sep	1,476			1,476
Oct	1,510			1,510
Nov	1,599			1,599
Dec	1,681			1,681
YTD	18,658			18,658

Table 8.1-6M (Cont.)
CO₂ Emission in Other Economics Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2011				
Jan	1,653			1,653
Feb	1,520			1,520
Mar	1,718			1,718
Apr	1,667			1,667
May	1,695			1,695
Jun	1,647			1,647
Jul	1,626			1,626
Aug	1,671			1,671
Sep	1,620			1,620
Oct	1,608			1,608
Nov	1,605			1,605
Dec	1,845			1,845
YTD	19,873			19,873
2012				
Jan	1,772			1,772
Feb	1,734			1,734
Mar	1,894			1,894
Apr	1,806			1,806
May	1,894			1,894
Jun	1,809			1,809
Jul	1,799			1,799
Aug	1,832			1,832
Sep	1,731			1,731
Oct	1,841			1,841
Nov	1,863			1,863
Dec	1,953			1,953
YTD	21,927			21,927
Growth Rate (%)				
2008	2.5			2.5
2009	2.7			2.7
2010	4.2			4.2
2011	6.5			6.5
2012	10.3			10.3

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy





APPENDIX II

ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย	ตันเทียบเท่า น้ำมันดิบ/ ล้านหน่วย	เมกะจูล/ หน่วย	พันบีทียู/ หน่วย	TYPE (UNIT)
	kcal/UNIT	toe/10 ⁶ UNIT	MJ/UNIT	10 ³ Btu/UNIT	
พลังงานเชิงพาณิชย์					COMMERCIAL ENERGY
1. น้ำมันดิบ (ลิตร)	8680	860.00	36.33	34.44	1. CRUDE OIL (litre)
2. คอนเดนเสท (ลิตร)	7900	782.72	33.07	31.35	2. CONDENSATE (litre)
3. ก๊าซธรรมชาติ					3. NATURAL GAS
3.1 ชื้น (ลูกบาศก์ฟุต)	248	24.57	1.04	0.98	3.1 WET (scf.)
3.2 แห้ง (ลูกบาศก์ฟุต)	244	24.18	1.02	0.97	3.2 DRY (scf.)
4. ผลิตภัณฑ์ปิโตรเลียม					4. PETROLEUM PRODUCTS
4.1 ก๊าซปิโตรเลียมเหลว (ลิตร)	6360	630.14	26.62	25.24	4.1 LPG (litre)
4.2 น้ำมันเบนซิน (ลิตร)	7520	745.07	31.48	29.84	4.2 GASOLINE (litre)
4.3 น้ำมันเครื่องบิน (ลิตร)	8250	817.40	34.53	32.74	4.3 JET FUEL (litre)
4.4 น้ำมันก๊าด (ลิตร)	8250	817.40	34.53	32.74	4.4 KEROSENE (litre)
4.5 น้ำมันดีเซล (ลิตร)	8700	861.98	36.42	34.52	4.5 DIESEL (litre)
4.6 น้ำมันเตา (ลิตร)	9500	941.24	39.77	37.70	4.6 FUEL OIL (litre)
4.7 ยางมะตอย (ลิตร)	9840	974.93	41.19	39.05	4.7 BITUMEN (litre)
4.8 ปิโตรเลียมโค้ก (กก.)	8400	832.26	35.16	33.33	4.8 PETROLEUM COKE (litre)
5. ไฟฟ้า (กิโลวัตต์ชั่วโมง)	860	85.21	3.60	3.41	5. ELECTRICITY (kWh)
6. ไฟฟ้าพลังน้ำ (กิโลวัตต์ชั่วโมง)	2236	221.54	9.36	8.87	6. HYDROELECTRIC (kWh)
7. พลังงานความร้อนใต้พิภพ (กิโลวัตต์ชั่วโมง)	9500	941.24	39.77	37.70	7. GEOTHERMAL (kWh)
8. ถ่านหินนำเข้า (กก.)	6300	624.19	26.37	25.00	8. COAL IMPORT (kg.)
9. ถ่านโค้ก (กก.)	6600	653.92	27.63	26.19	9. COKE (kg.)
10. แอนทราไซต์ (กก.)	7500	743.09	31.40	29.76	10. ANTHRACITE (kg.)
11. อีเทน (กก.)	11203	1110.05	46.89	44.45	11. ETHANE (kg.)
12. โพรเพน (กก.)	11256	1115.34	47.11	44.67	12. PROPANE (kg.)
13. ลิกไนต์					13. LIGNITE
13.1 ลี้ (กก.)	4400	435.94	18.42	17.46	13.1 LI (kg.)
13.2 กระบี่ (กก.)	2600	257.60	10.88	10.32	13.2 KRABI (kg.)
13.3 แม่เมาะ (กก.)	2500	247.70	10.47	9.92	13.3 MAE MOH (kg.)
13.4 แจ็คคอน (กก.)	3610	357.67	15.11	14.32	13.4 CHAE KHON (kg.)

ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย kcal/UNIT	ตันเทียบเท่า น้ำมันดิบ/ ล้านหน่วย toe/10 ⁶ UNIT	เมกะจูล/ หน่วย MJ/UNIT	พันบีทียู/ หน่วย 10 ³ Btu/ UNIT	TYPE (UNIT)
พลังงานใหม่และหมุนเวียน					NEW & RENEWABLE ENERGY
1. ฟืน (กก.)	3820	378.48	15.99	15.16	1. FUEL WOOD (kg.)
2. ถ่าน (กก.)	6900	683.64	28.88	27.38	2. CHARCOAL (kg.)
3. แกลบ (กก.)	3440	340.83	14.40	13.65	3. PADDY HUSK (kg.)
4. กากอ้อย (กก.)	1800	178.34	7.53	7.14	4. BAGASSE (kg.)
5. ขยะ (กก.)	1160	114.93	4.86	4.60	5. GARBAGE (kg.)
6. ไม้เลื่อย (กก.)	2600	257.60	10.88	10.32	6. SAW DUST (kg.)
7. วัสดุเหลือใช้ ทางการเกษตร (กก.)	3030	300.21	12.68	12.02	7. AGRICULTURAL WASTE (kg.)
8. ก๊าซชีวภาพ (ลูกบาศก์เมตร)	5000	495.39	20.93	19.84	8. BIOGAS (m ³)

หน่วยทั่วไป GENERAL		
1 กิโลแคลอรี (kcal)	= 4186	จูล (joules)
	= 3.968	บีทียู (Btu)
1 ตันเทียบเท่าน้ำมันดิบ (toe)	= 10.093	จิกะแคลอรี (Gcal)
	= 42.244	จิกะจูล (GJ)
	= 40.047 x 10 ⁶	บีทียู (Btu)
1 บาร์เรล (barrel)	= 158.99	ลิตร (litres)
1 ลูกบาศก์เมตรของไม้ (cu.m. of solid wood)	= 600	กิโลกรัม (kg.)
1 ลูกบาศก์เมตรของถ่าน (kg. of charcoal)	= 250	กิโลกรัม (kg.)
5 กิโลกรัมของฟืน (kg. of fuel wood)	= 1 กิโลกรัมของถ่าน (kg. of charcoal product)	
1 ลิตรของก๊าซปิโตรเลียมเหลว (litre of LPG)	= 0.54	กิโลกรัม (kg.)

ที่มา : รายงานพลังงานของประเทศไทยรายปี กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน

Appendix II Abbreviations of the Sources Statistics

Abbreviation	Full Name	ชื่อไทย
%S	Percentage of Sulphur Contain	ร้อยละของกำมะถัน
AVG	Average	เฉลี่ย
BBL/D	Barrels per Day	บาร์เรลต่อวัน
BCP	Bangchak Petroleum Public Company Limited	บริษัทบางจากปิโตรเลียม จำกัด (มหาชน)
CNG	Compressed Natural Gas	ก๊าซธรรมชาติที่ใช้เป็นเชื้อเพลิงสำหรับยานยนต์
DEDP	Small Hydro From Kere Tan	โรงไฟฟ้าพลังน้ำคีร์ธาร
DEDE	Department of Alternative Energy Development and Efficiency	กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน
DMF	Department of Mineral Fuels	กรมเชื้อเพลิงธรรมชาติ
DOEB	Department of Energy Business	กรมธุรกิจพลังงาน
EGAT	Electricity Generating Authority of Thailand	การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
ELEC.	Electricity	ไฟฟ้า
EPPO	Energy Policy and Planning Office	สำนักงานนโยบายและแผนพลังงาน
ESSO	Esso (Thailand) Public Company Limited	บริษัทเอสโซ่ (ประเทศไทย) จำกัด (มหาชน)
FO	Fuel Oil	น้ำมันเตา
GSP	Gas Separation Plant	โรงแยกก๊าซ
GWh	Gigawatt-hours	ล้านกิโลวัตต์ชั่วโมง
HSD	High Speed Diesel	ดีเซลหมุนเร็ว
IPP	Independent Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายใหญ่
IRPC	Integrated Refinery & Petrochemical Complex Public Company Limited	บริษัท ไออาร์พีซี จำกัด (มหาชน)
J.P.	Jet Fuel	น้ำมันเครื่องบิน
JDA	Joint Development Area	พื้นที่พัฒนาร่วมระหว่างไทยกับมาเลเซีย
KBD	1,000 Barrels/Day	พันบาร์เรลต่อวัน
ktoe	1,000 Tons of Crude Oil Equivalent	พันตันเทียบเท่าน้ำมันดิบ
kWh	Kilowatt-hours	กิโลวัตต์ชั่วโมง
LPG	Liquefied Petroleum Gas	ก๊าซปิโตรเลียมเหลว
LPG (Car)	Liquefied Petroleum Gas for Automobiles	ก๊าซปิโตรเลียมเหลวที่ใช้ในรถยนต์
LSD	Low Speed Diesel	ดีเซลหมุนช้า
M.Litres	Million litres	ล้านลิตร
MEA	Metropolitan Electricity Authority	การไฟฟ้านครหลวง
MMSCFD	Million Standard Cubic Feet per Day	ล้านลูกบาศก์ฟุตต่อวัน
MW	Mega Watt	เมกะวัตต์
NAP	Naptha	แนฟทา
Nap.& Oths	Naphtha and Others	น้ำมันแนฟทาและอื่นๆ
NG	Natural Gas	ก๊าซธรรมชาติ
NGL	Natural Gas Liquid	ก๊าซไฮโดรคาร์บอนเหลว
NGV	Natural Gas for Vehicles	ก๊าซธรรมชาติสำหรับยานยนต์
PEA	Provincial Electricity Authority	การไฟฟ้าส่วนภูมิภาค
Pet.	Petroleum	น้ำมันสำเร็จรูป
PTTAR	PTT Aromatics and Refining Public Company Limited	บริษัท ปตท. อะโรมาติกส์และกลั่น จำกัด (มหาชน)
REGCO	Rayong Electricity Generating Company Limited	บริษัท ผลิตไฟฟ้าระยอง จำกัด
RPC	Rayong Purifier Public Company Limited	บริษัท ระยองเพียวริฟายเออร์ จำกัด (มหาชน)
SPP	Small Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายเล็ก
SPRC	Star Petroleum Refining Company Limited	บริษัทสตาร์ปิโตรเลียม รีไฟน์นิ่ง จำกัด
TOC	Thai Oil Public Company Limited	บริษัทไทยออยล์ จำกัด (มหาชน)
IRPC	IRPC Public Company Limited	บริษัทไออาร์พีซี จำกัด (มหาชน)
UGR91	Regular Gasoline 91	เบนซินธรรมดา 91
ULG95	Premium Gasoline 95	เบนซินพิเศษ 95
VAT	Value Added Tax	ภาษีมูลค่าเพิ่ม
WT.AVG	Weighted Average	ค่าเฉลี่ยถ่วงน้ำหนัก
YTD	Year to Date	ข้อมูลตั้งแต่วันที่ 1 มกราคมปีนั้นๆ ถึงวันที่ออกรายงาน

รายชื่อผู้จัดทำรายงานสถิติพลังงานของประเทศไทย ปี 2556

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