

日本のLPガス統計

February 2019

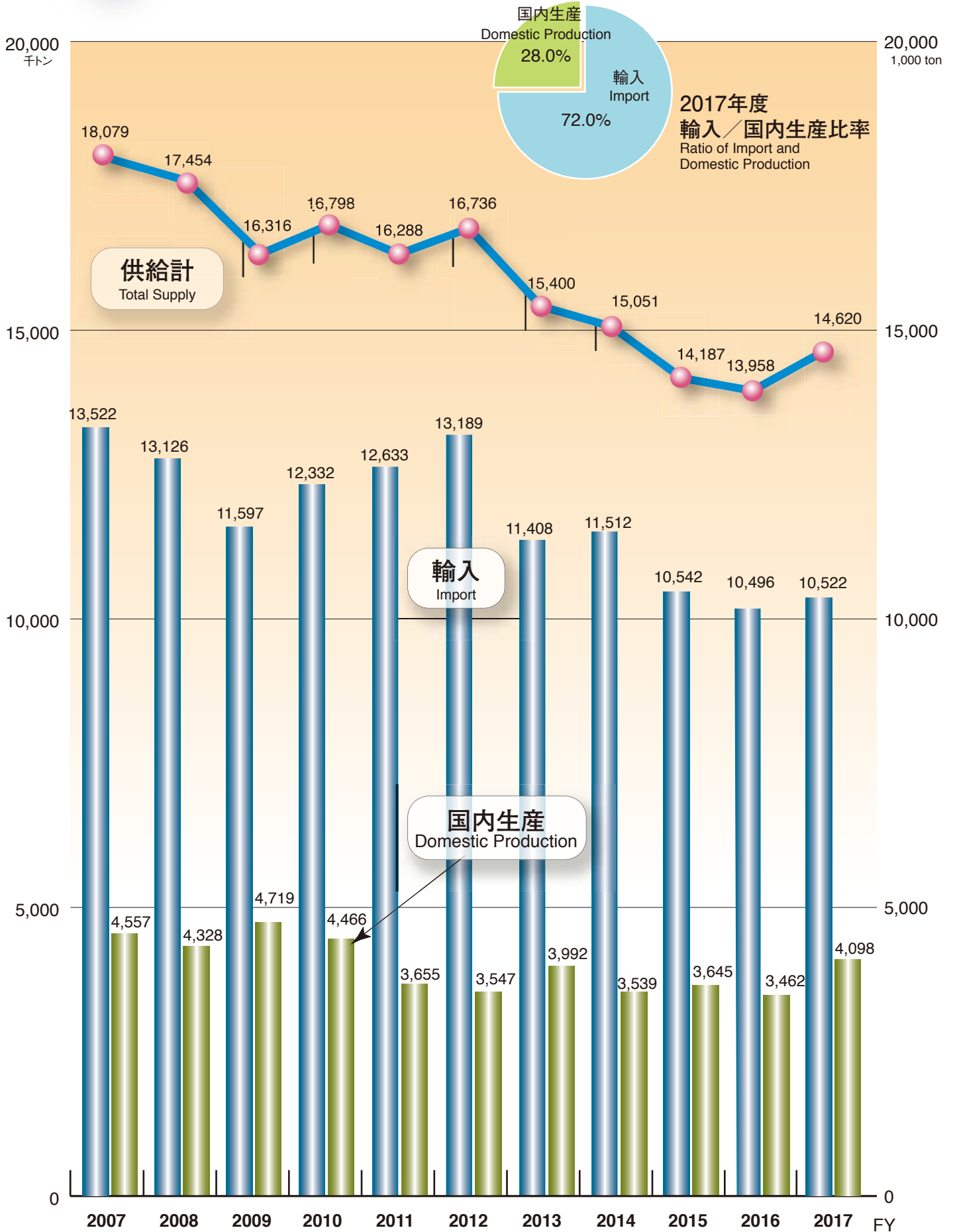
Statistical Data in Japan

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供給の推移

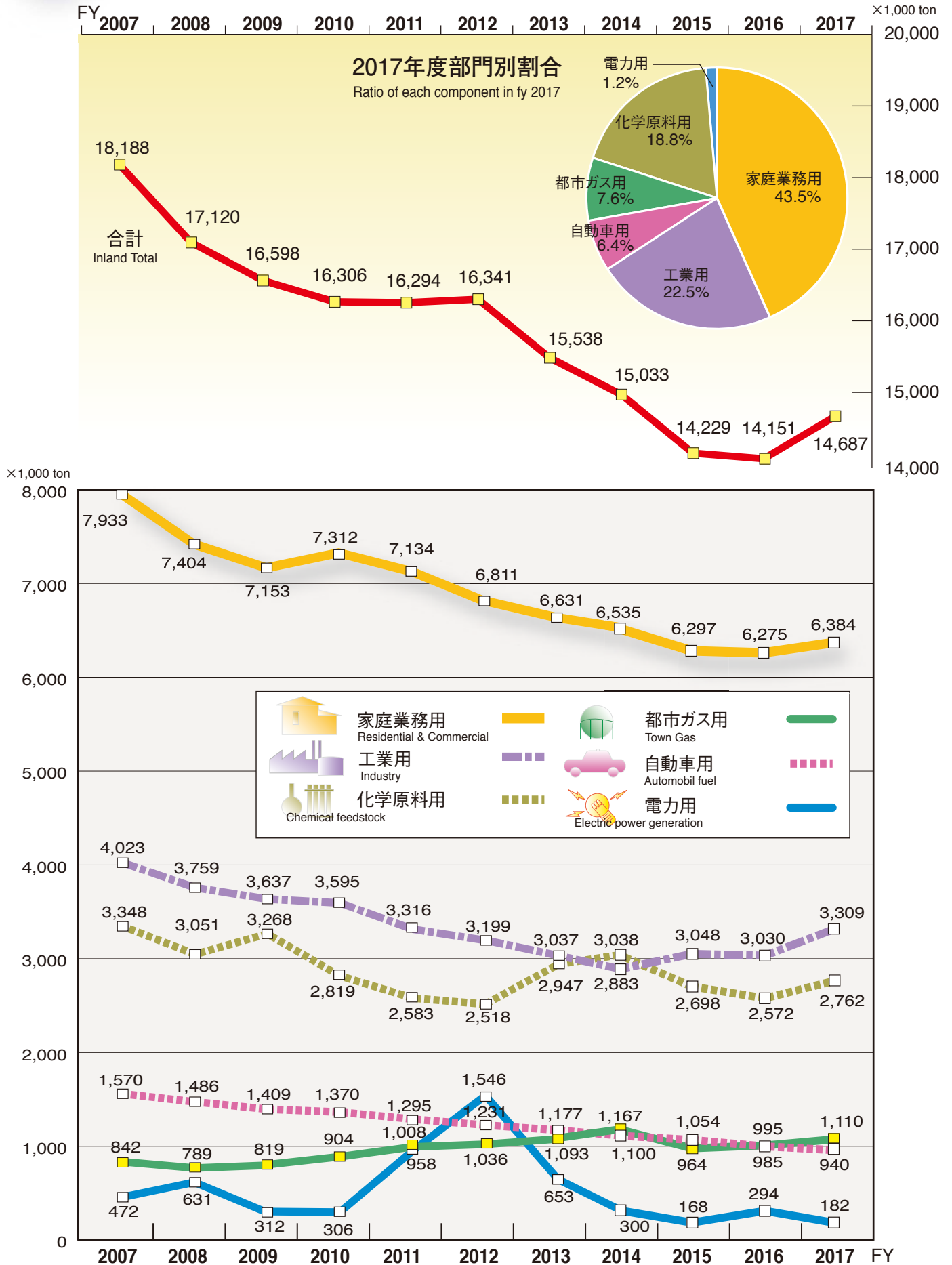
Trends in LP Gas Supply Patterns



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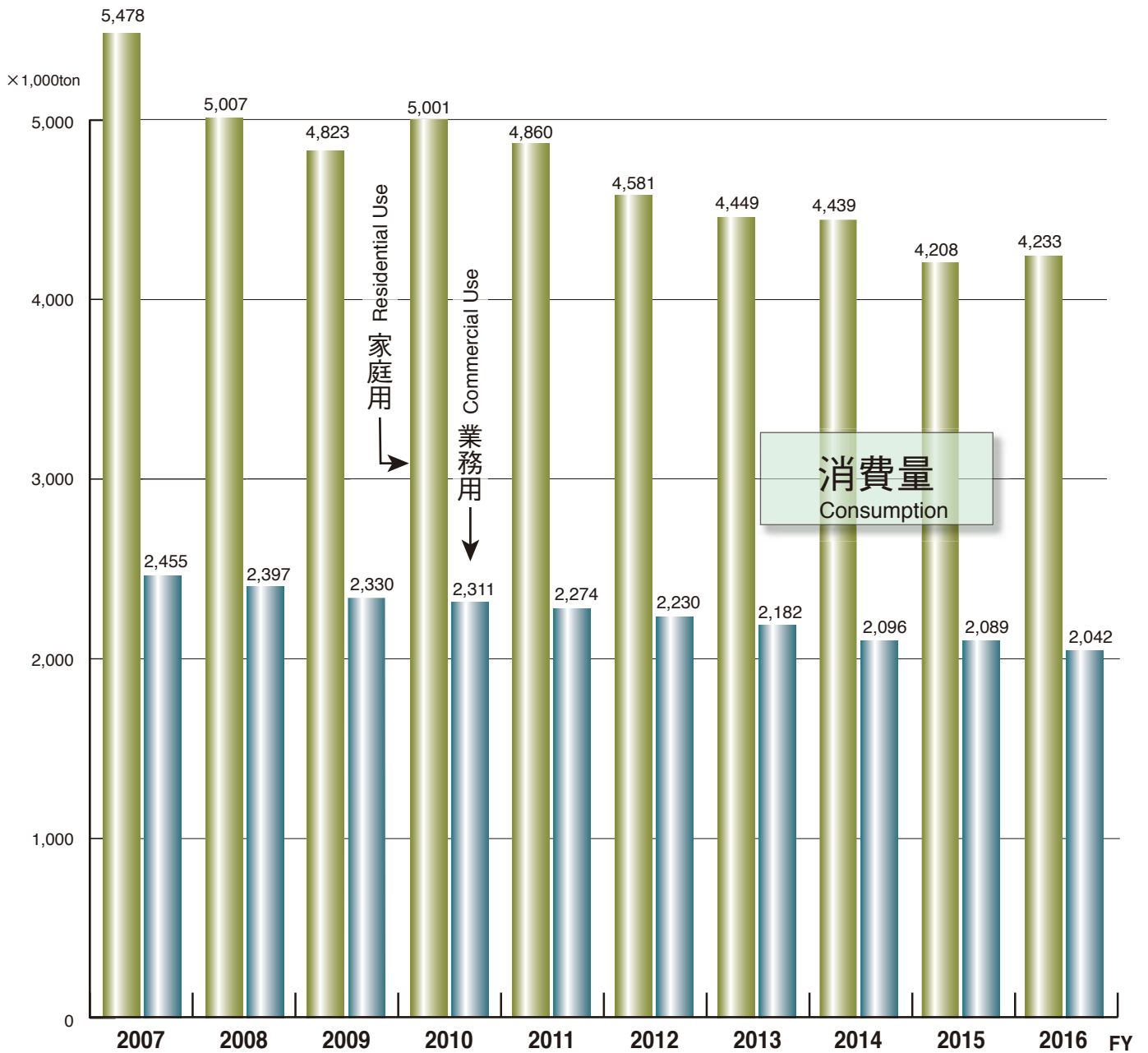
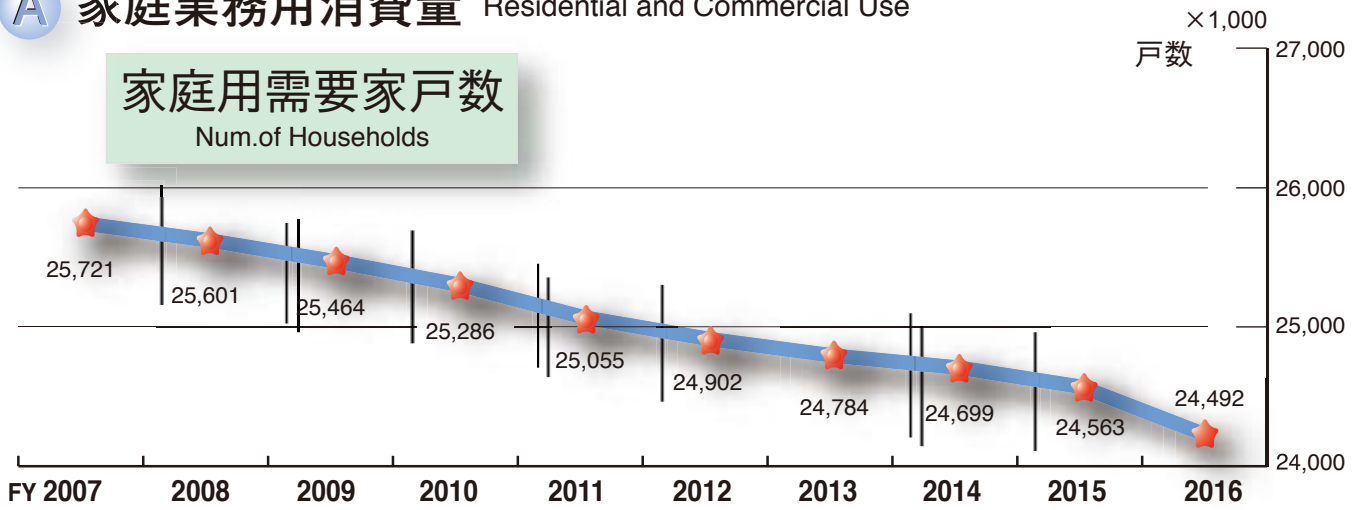
部門別需要の推移

Trends in LP Gas Demand Components



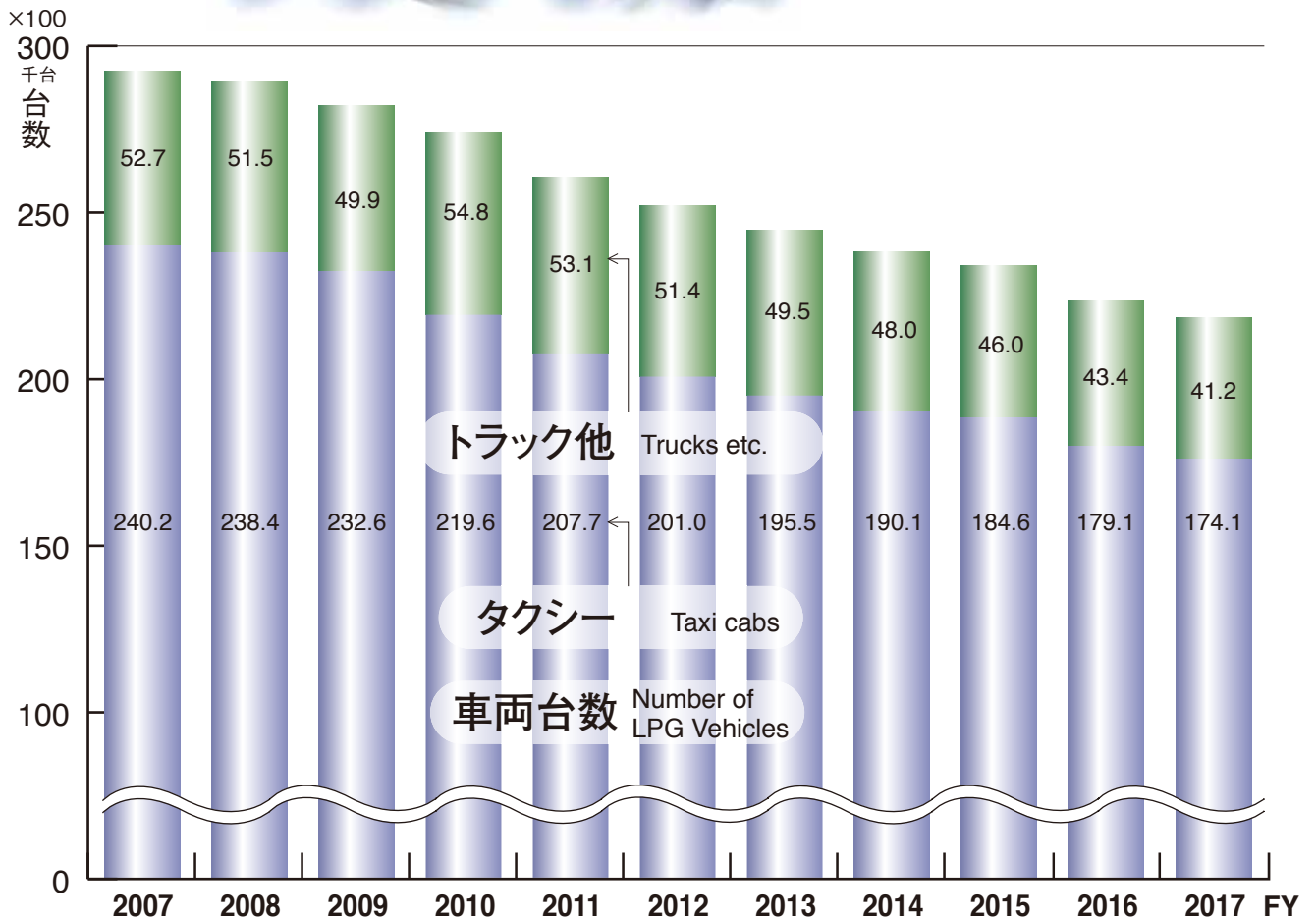
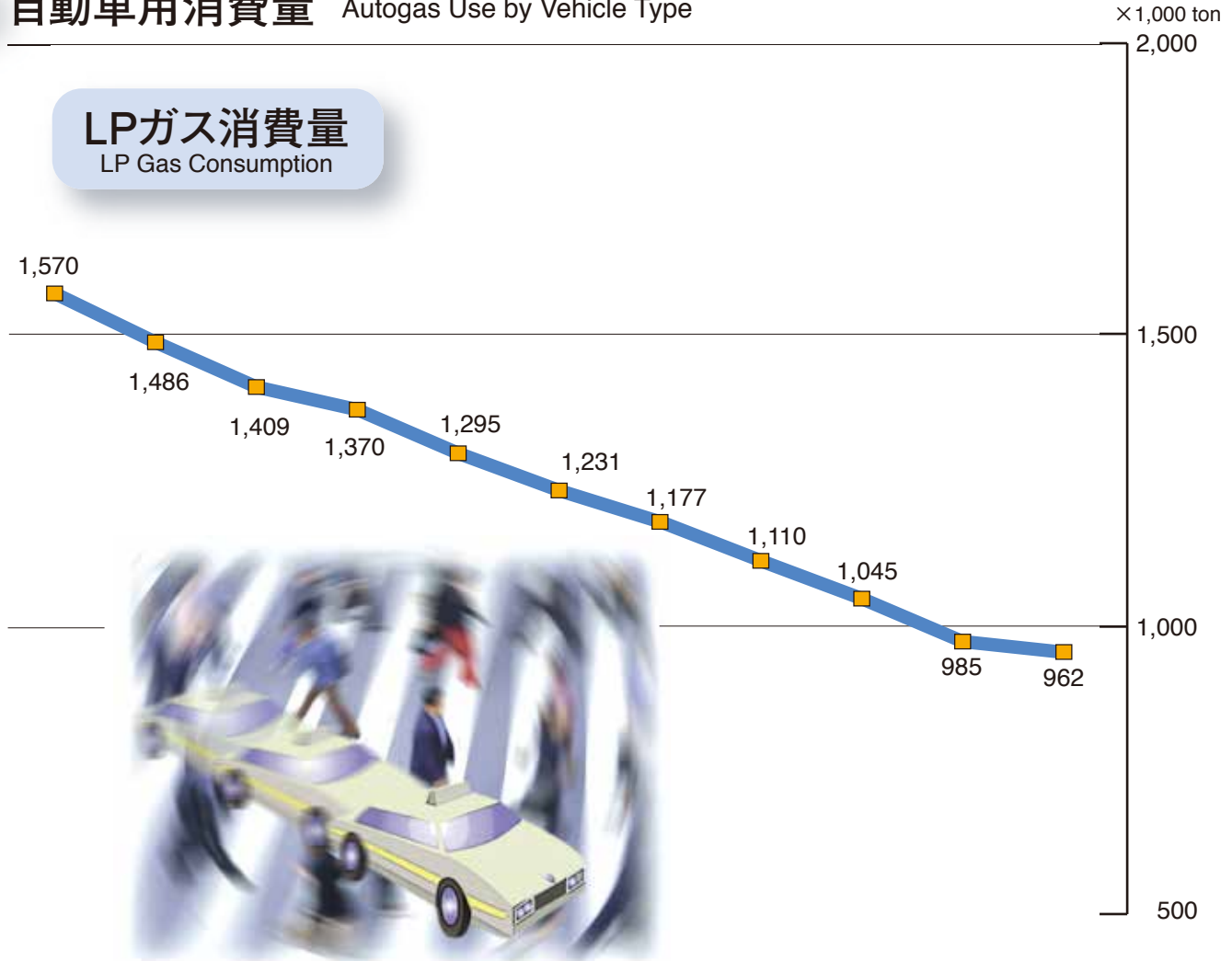
③ 形態別需要の推移 Consumption Trends by Each Category

A 家庭業務用消費量 Residential and Commercial Use



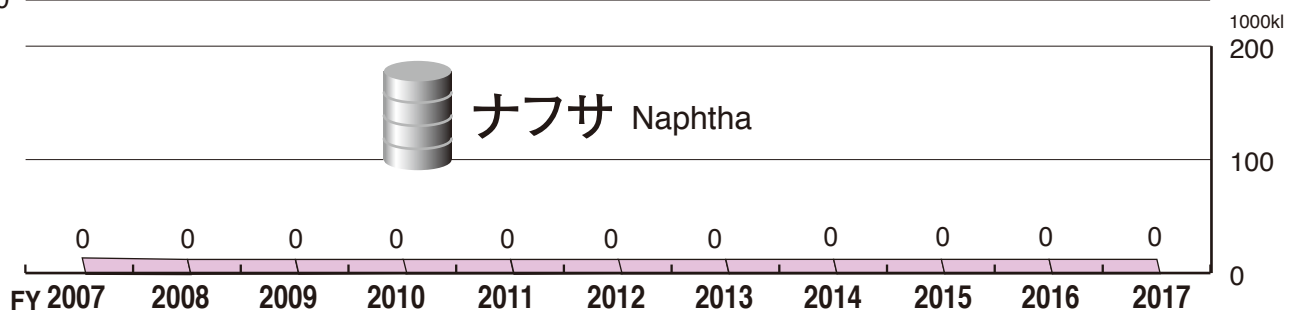
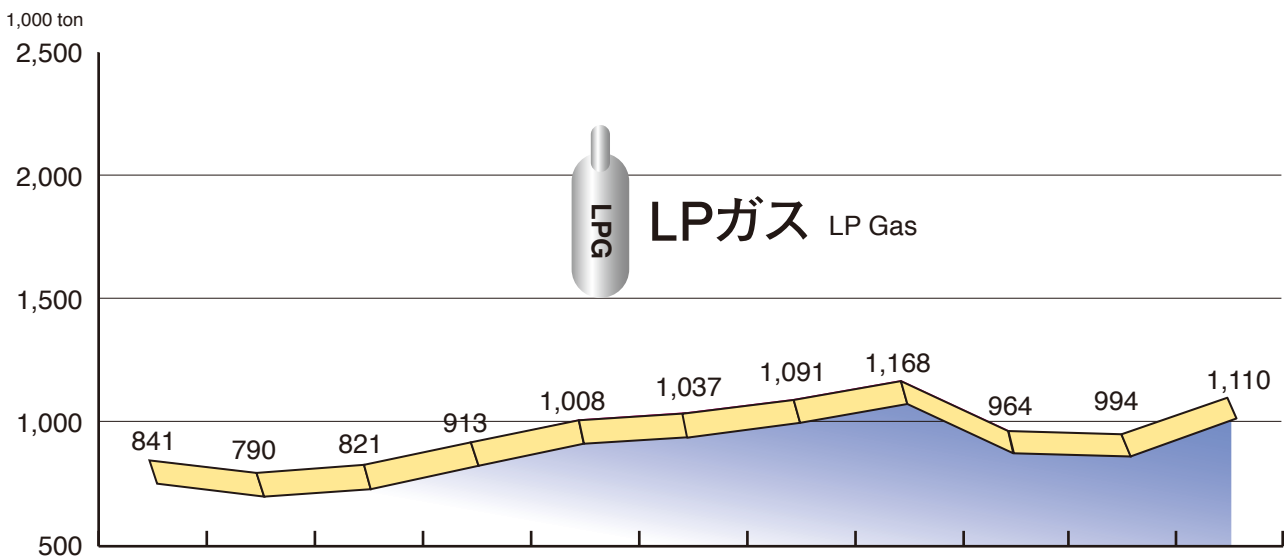
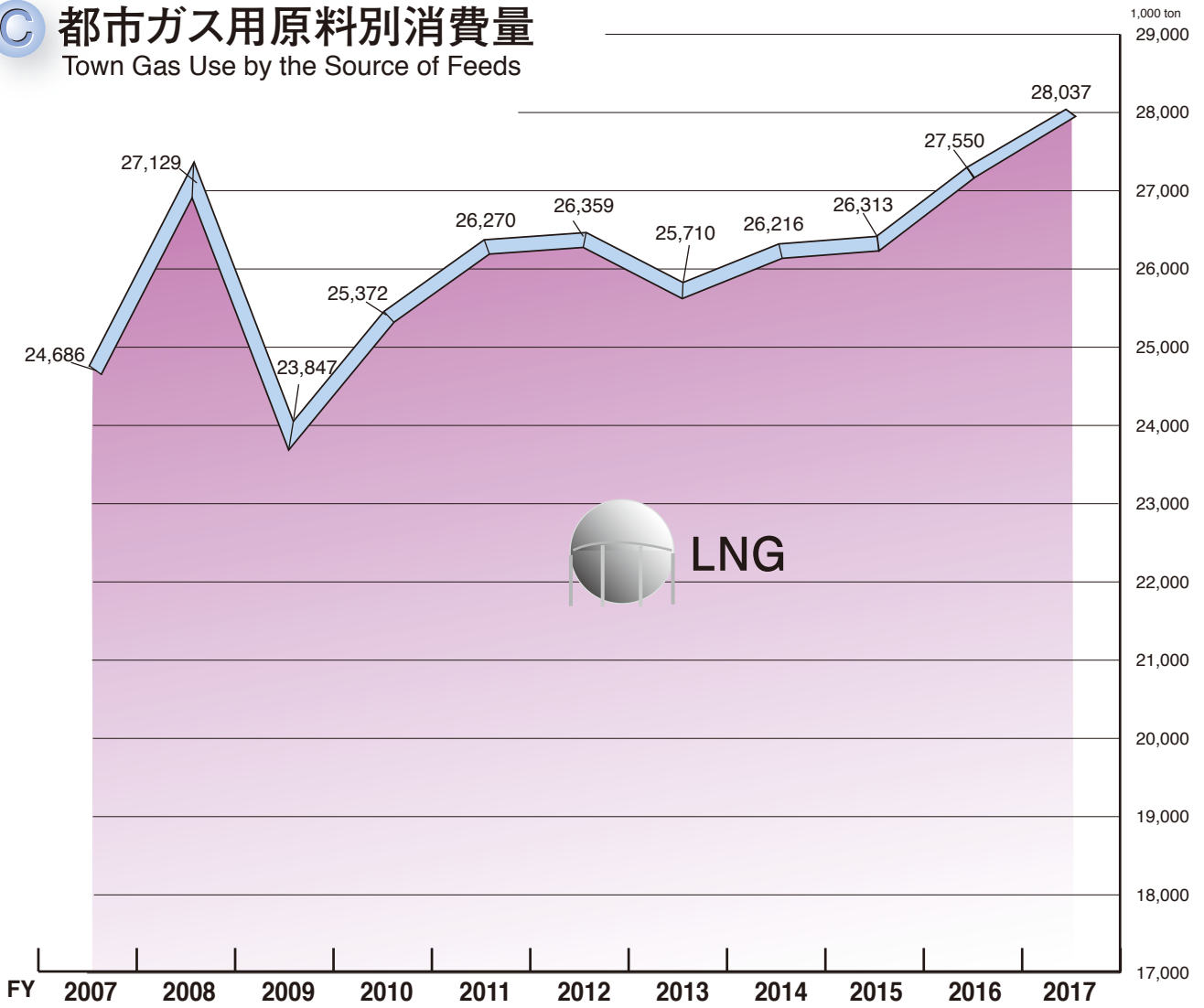
B 自動車用消費量 Autogas Use by Vehicle Type

LPガス消費量
LP Gas Consumption



C 都市ガス用原料別消費量

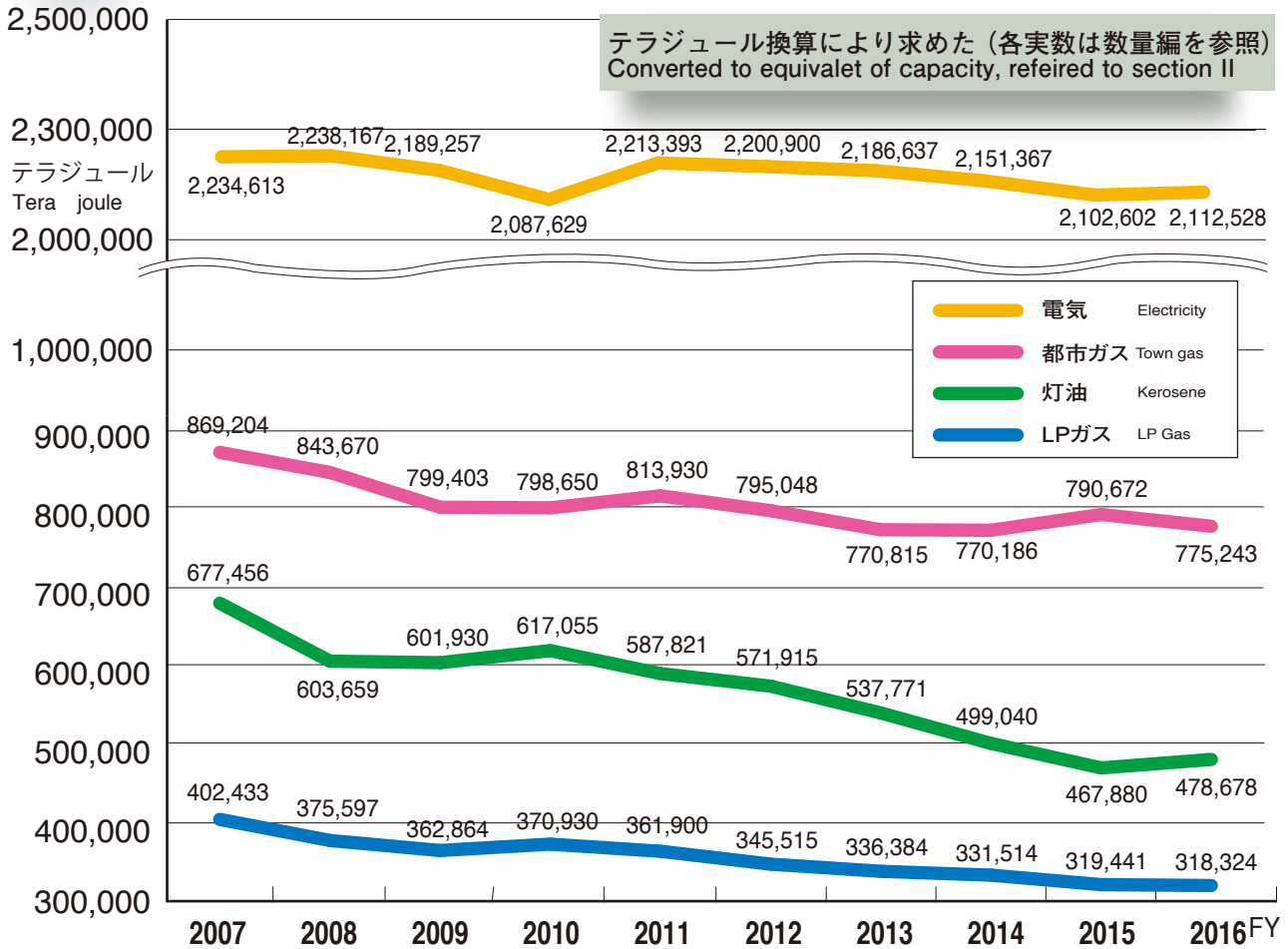
Town Gas Use by the Source of Feeds



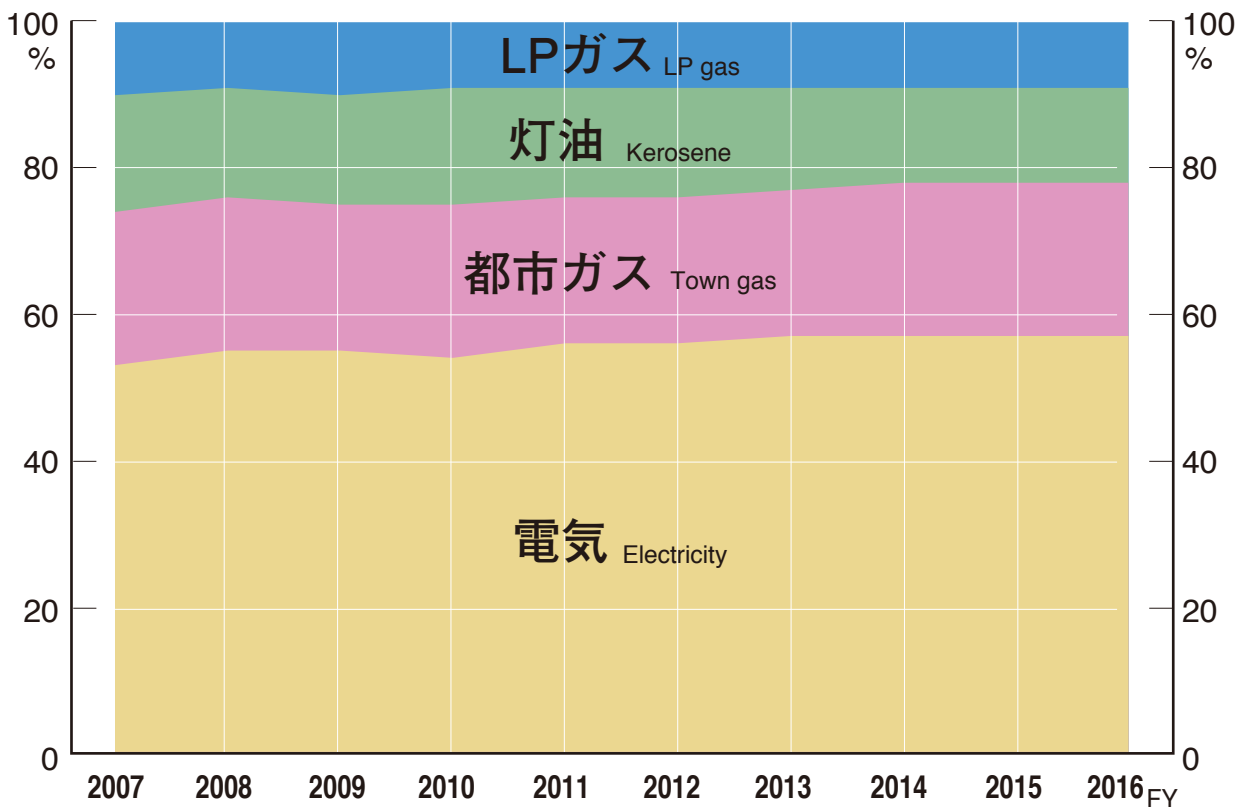
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民生部門エネルギー需要

Residential & Commercial Energy Demand by Energy Sources



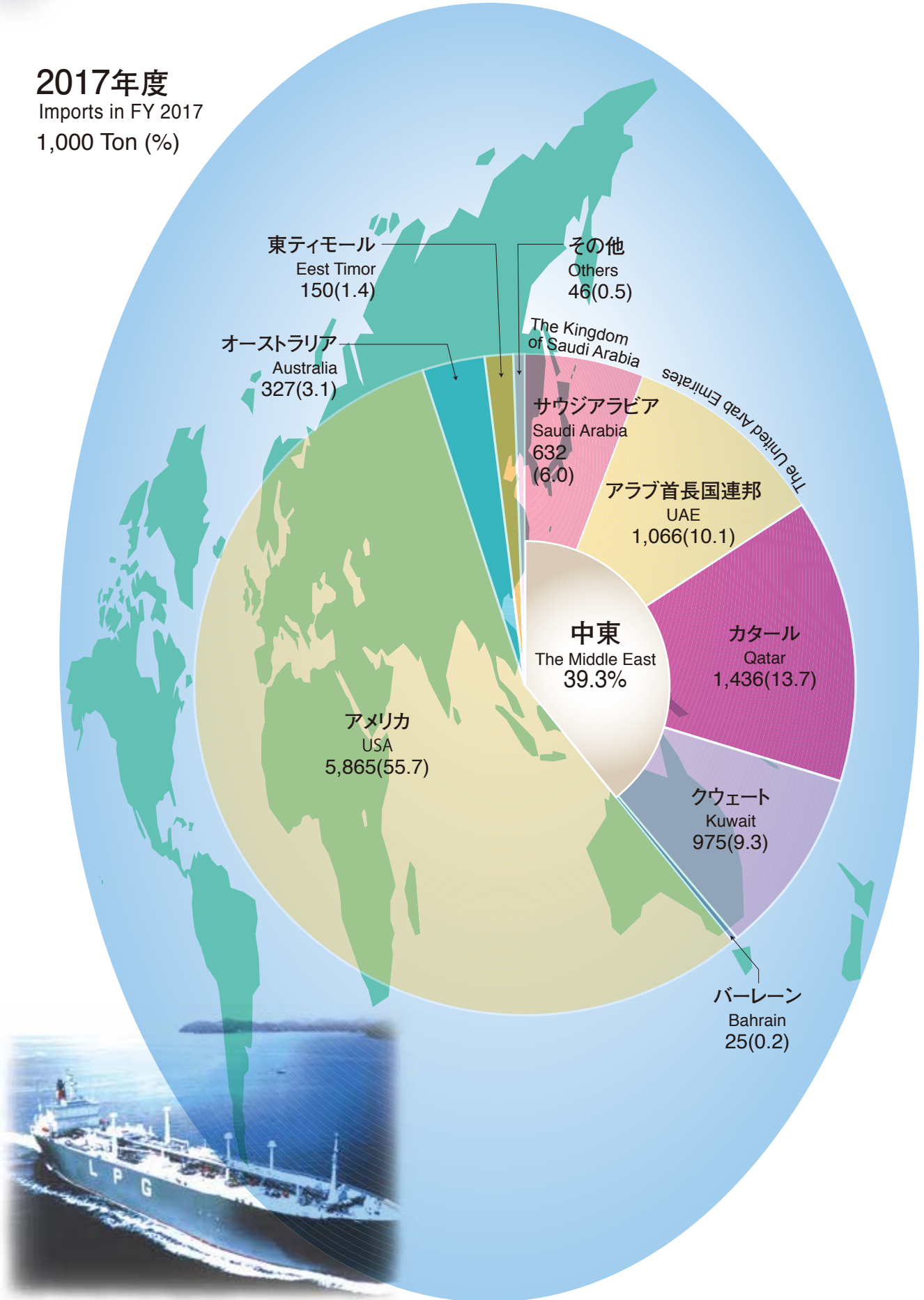
構成比の推移 Ratio of each component



5 日本の輸入相手国

LP Gas Imports by Country

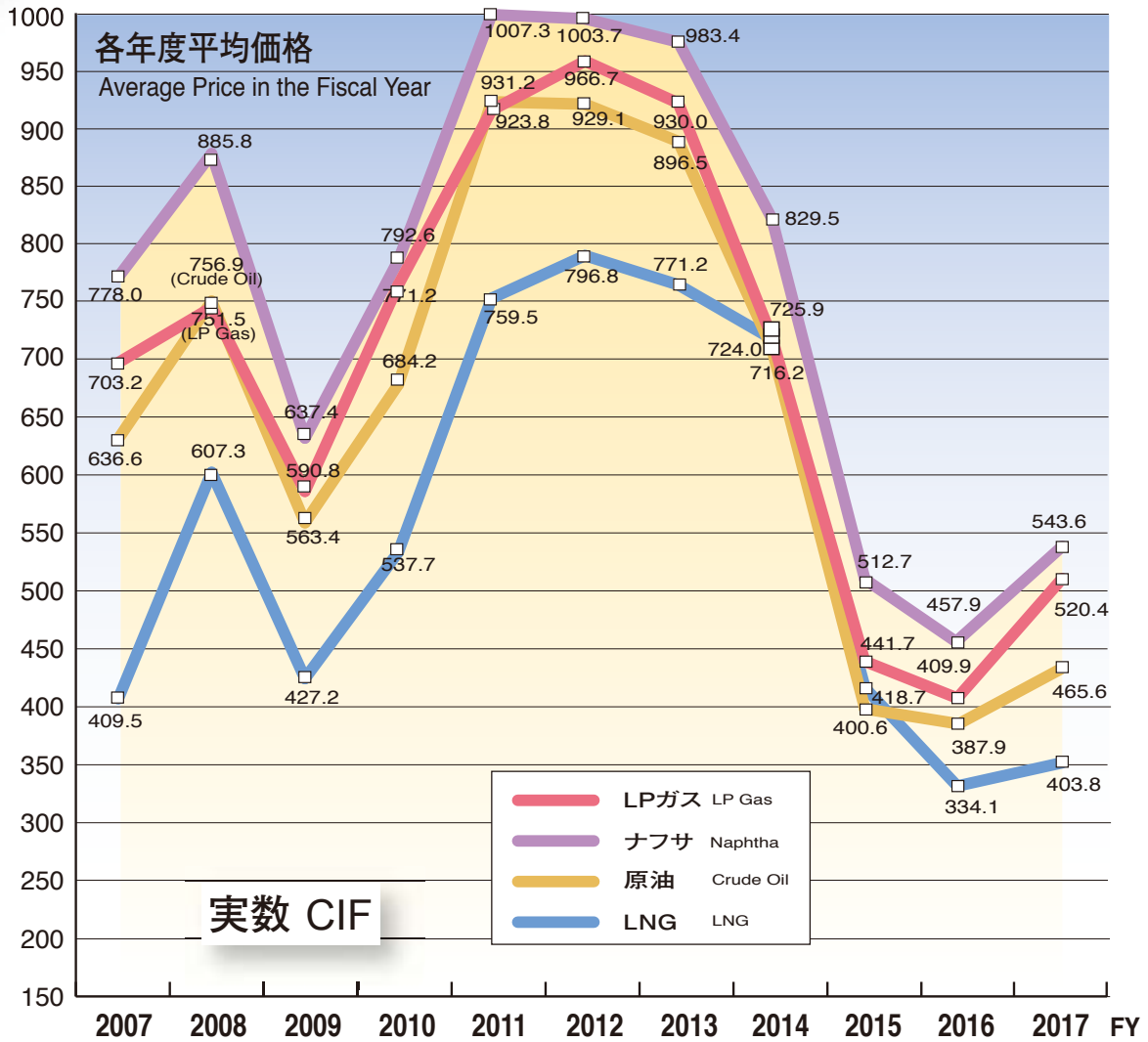
2017年度
Imports in FY 2017
1,000 Ton (%)



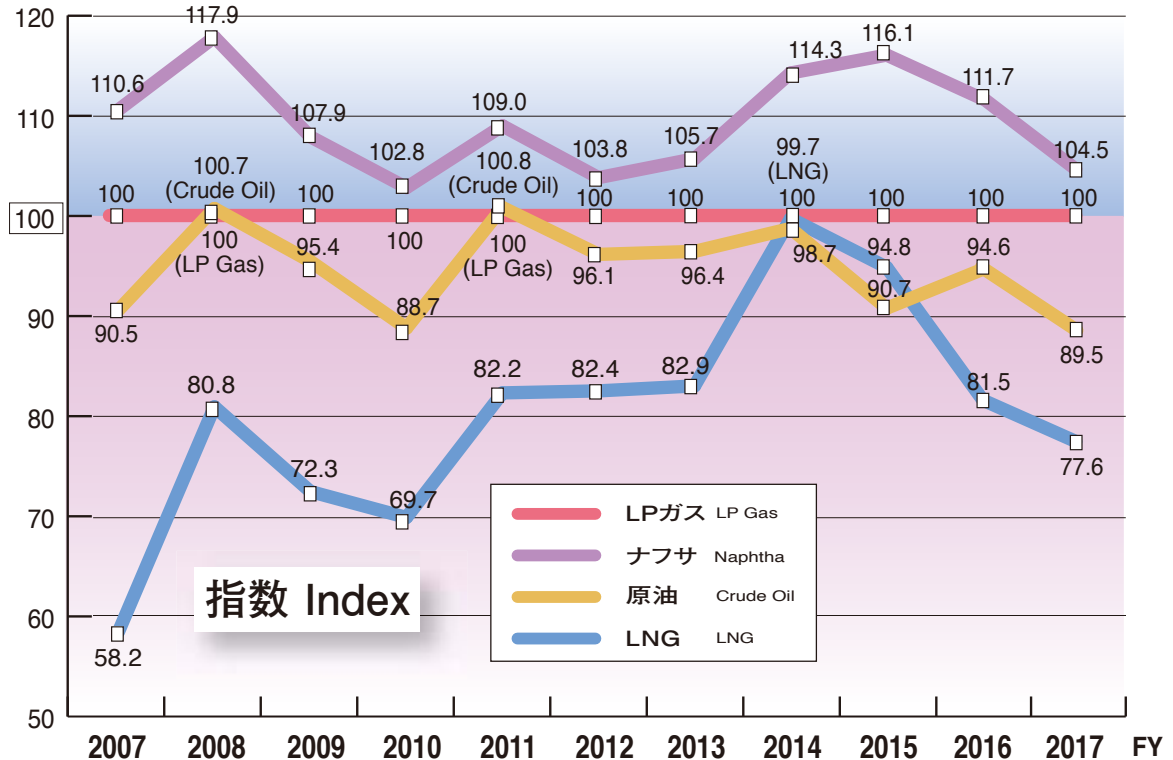
6 輸入エネルギー価格のトレンド

Price Trends of the Imported Energy

LPG換算 CIF \$/ton



INDEX:LPG=100

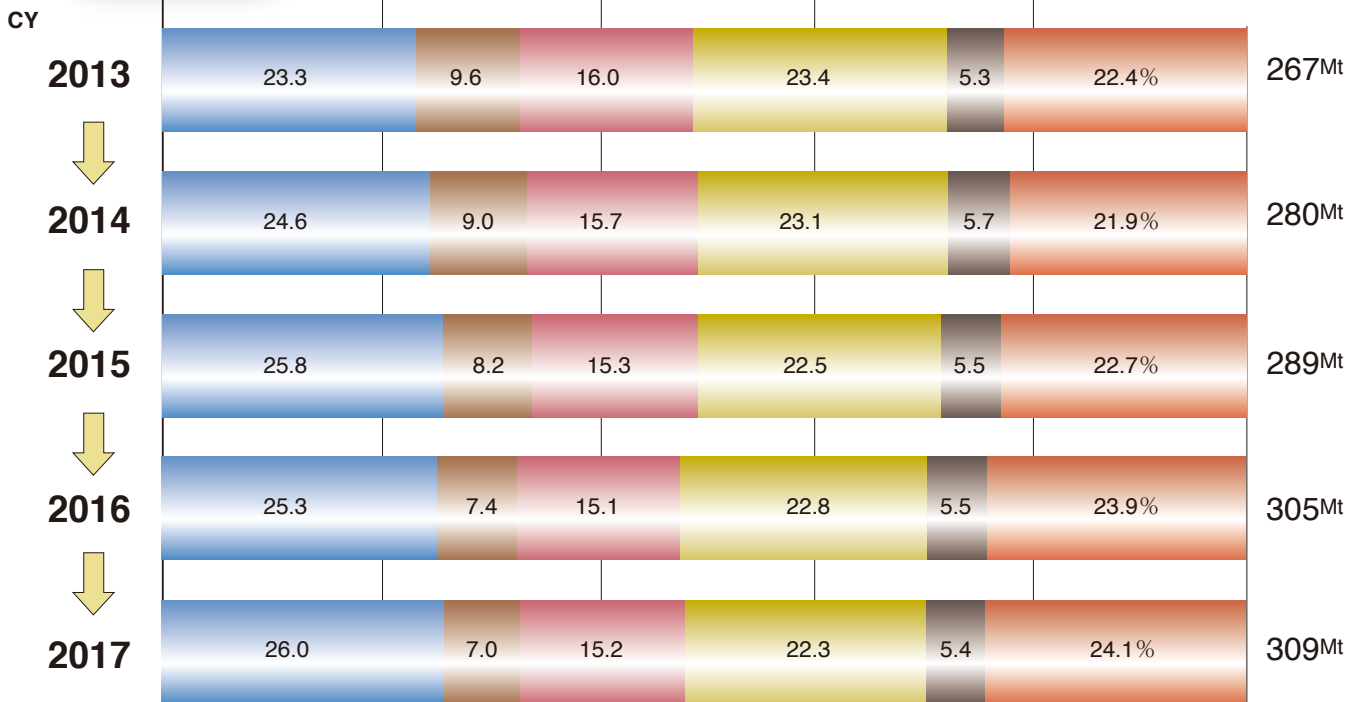


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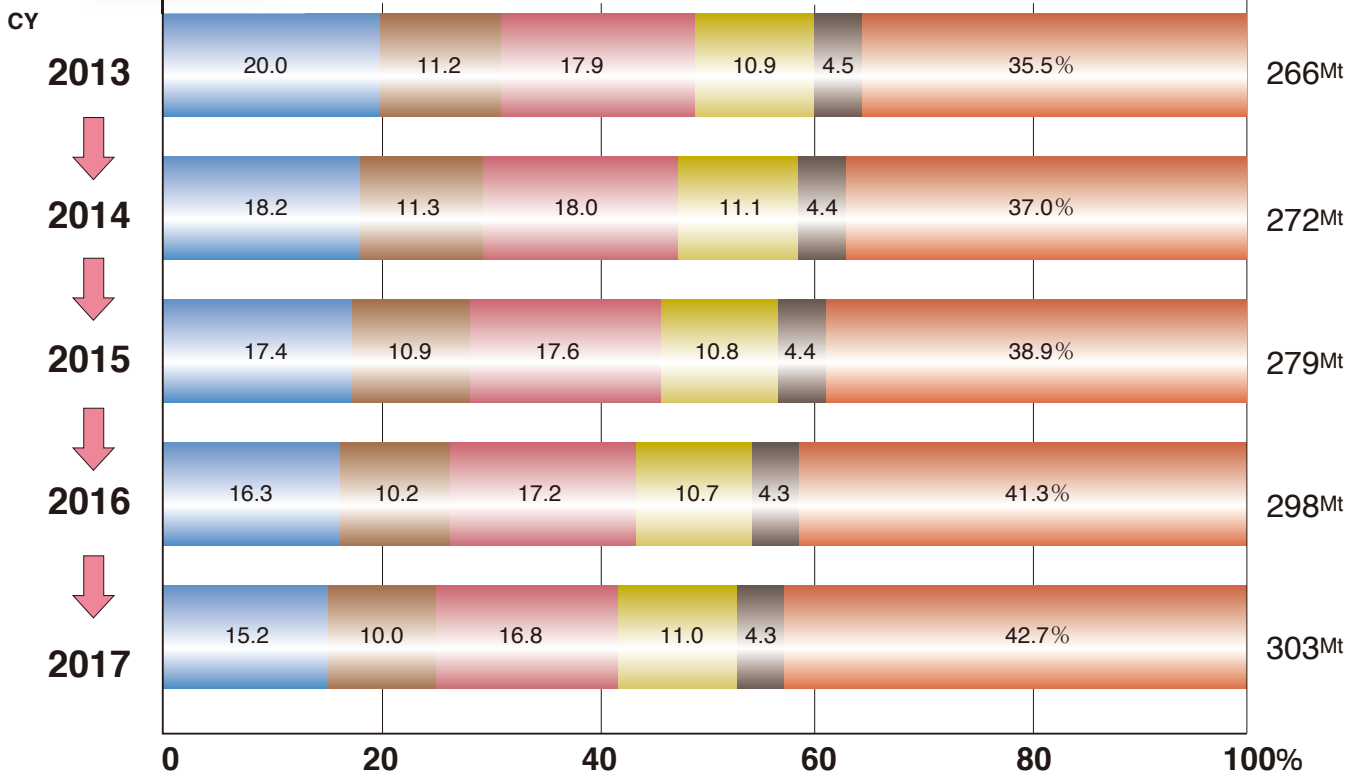
世界の地域別生産消費

World LP Gas Production and Consumption

生産量
Production



消費量
Consumption



The World LPG Association Statistical Review of Global LPG 2017

① 供給の推移

1. Trends in LP Gas Supply Patterns

| 単位:千トン 年度 1,000 ton in FY | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 国内生産 Domestic Production | 4,557 | 4,328 | 4,719 | 4,466 | 3,655 | 3,547 | 3,992 | 3,539 | 3,645 | 3,462 | 4,098 |
| 輸入 Import | 13,522 | 13,126 | 11,597 | 12,332 | 12,633 | 13,189 | 11,408 | 11,512 | 10,542 | 10,496 | 10,522 |
| 合計 Total Supply | 18,079 | 17,454 | 16,316 | 16,798 | 16,288 | 16,736 | 15,400 | 15,051 | 14,187 | 13,958 | 14,620 |

(注)天然ガスからの生産を含む
Including LP gas from Natural gas plants

② 部門別需要の推移

2. Trends in LP Gas Demand Components

| ×1,000 ton in FY | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 家庭業務用 Residential & Commercial | 7,933 | 7,404 | 7,153 | 7,312 | 7,134 | 6,811 | 6,631 | 6,535 | 6,297 | 6,275 | 6,384 |
| 工業用 Industry | 4,023 | 3,759 | 3,637 | 3,595 | 3,316 | 3,199 | 3,037 | 2,883 | 3,048 | 3,030 | 3,309 |
| 自動車用 Automobil fuel | 1,570 | 1,486 | 1,409 | 1,370 | 1,295 | 1,231 | 1,177 | 1,110 | 1,054 | 985 | 940 |
| 都市ガス用 Town Gas | 842 | 789 | 819 | 904 | 1,008 | 1,036 | 1,093 | 1,167 | 964 | 995 | 1,110 |
| 化学原料用 Chemical feedstock | 3,348 | 3,051 | 3,268 | 2,819 | 2,583 | 2,518 | 2,947 | 3,038 | 2,698 | 2,572 | 2,762 |
| 電力用 Electric power generation | 472 | 631 | 312 | 306 | 958 | 1,546 | 653 | 300 | 168 | 294 | 182 |
| 国内需要計 Inland Total | 18,188 | 17,120 | 16,598 | 16,306 | 16,294 | 16,341 | 15,538 | 15,033 | 14,229 | 14,151 | 14,687 |
| 輸出 Export | 120 | 141 | 199 | 160 | 60 | 201 | 36 | 48 | 51 | 147 | 92 |
| 需要合計 Total Demand | 18,308 | 17,261 | 16,797 | 16,466 | 16,354 | 16,542 | 15,574 | 15,081 | 14,280 | 14,298 | 14,779 |

③ 形態別需要の推移

3. Consumption Trends by Each Category

A 家庭業務用消費量

A. Residential and Commercial Use

| in FY | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 家庭用消費量 Residential Consumption | 5,478 | 5,007 | 4,823 | 5,001 | 4,860 | 4,581 | 4,449 | 4,439 | 4,208 | 4,233 | 4,300 |
| 業務用消費量 Commercial Consumption | 2,455 | 2,397 | 2,330 | 2,311 | 2,274 | 2,230 | 2,182 | 2,096 | 2,089 | 2,042 | 2,106 |
| 家庭業務合計 Total Consumption (1,000 ton) | 7,933 | 7,404 | 7,153 | 7,312 | 7,134 | 6,811 | 6,631 | 6,535 | 6,297 | 6,275 | 6,406 |
| 家庭用需要家戸数 Num.of Households (x1,000) | 25,721 | 25,601 | 25,464 | 25,286 | 25,055 | 24,902 | 24,784 | 24,699 | 24,563 | 24,492 | 24,410 |

B 自動車用消費量

B. Autogas Use by Vehicle Type

| 年度 in FY | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| タクシー・ハイヤー 台数 Num. of Taxi cabs (x1,000) | 240.2 | 238.4 | 232.6 | 219.6 | 207.7 | 201.0 | 195.5 | 190.1 | 184.6 | 179.1 | 174.1 |
| LPガス消費量 LP gas Consumption (1,000 ton) | 1,266 | 1,236 | 1,207 | 1,143 | 1,077 | 1,004 | 953 | 990 | 895 | 865 | 863 |
| トラック他 台数 Num. of Trucks etc. (x1,000) | 52.7 | 51.5 | 49.9 | 54.8 | 53.1 | 51.4 | 49.5 | 48.0 | 46.0 | 43.4 | 41.2 |
| LPガス消費量 LP gas Consumption (1,000 ton) | 304 | 250 | 202 | 227 | 218 | 227 | 224 | 120 | 150 | 120 | 99 |
| 合計 台数 Total Vehicles (x1,000) | 292.9 | 289.9 | 282.5 | 274.4 | 260.8 | 252.4 | 245.0 | 238.1 | 230.5 | 222.5 | 215.2 |
| LPガス消費量 Total LPG Consumption (1,000 ton) | 1,570 | 1,486 | 1,409 | 1,370 | 1,295 | 1,231 | 1,177 | 1,110 | 1,045 | 985 | 962 |

C 都市ガス用原料別消費量

C. Town Gas Use by the Source of Feeds

| FY | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| LPガス LP Gas 1,000 ton | 841 | 790 | 821 | 913 | 1,008 | 1,037 | 1,091 | 1,168 | 964 | 994 | 1,110 |
| 天然ガス LNG 1,000 ton | 24,686 | 27,129 | 23,847 | 25,372 | 26,270 | 26,359 | 25,710 | 26,216 | 26,313 | 27,550 | 28,037 |
| 石炭・コークス Coal / Cokes 1,000 ton | — | — | — | — | — | — | — | — | — | — | — |
| ナフサ Naphtha 1,000 kl | — | — | — | — | — | — | — | — | — | — | — |

4 民生用エネルギー需要

4. Residential & Commercial Energy Demand by Energy Sources

| FY | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 電気 % | 53.4 | 55.1 | 55.4 | 56.2 | 55.6 | 56.3 | 57.1 | 57.3 | 57.1 | 57.4 |
| Electricity Million kwh | 620,726 | 621,713 | 608,127 | 635,452 | 614,831 | 611,361 | 607,399 | 597,602 | 584,056 | 586,813 |
| 灯油 % | 16.2 | 14.9 | 15.2 | 15.1 | 14.8 | 14.6 | 14.0 | 13.3 | 12.7 | 13.0 |
| Kerosene 1,000kl | 18,442 | 16,437 | 16,390 | 16,799 | 16,002 | 15,569 | 14,736 | 13,674 | 12,821 | 13,067 |
| 都市ガス % | 20.8 | 20.8 | 20.2 | 19.6 | 20.5 | 20.3 | 20.1 | 20.5 | 21.5 | 21.0 |
| Town Gas Million m ³ | 19,402 | 18,832 | 17,844 | 17,827 | 18,168 | 17,747 | 18,640 | 18,620 | 19,169 | 18,784 |
| LPガス % | 9.6 | 9.2 | 9.2 | 9.1 | 9.1 | 8.8 | 8.8 | 8.9 | 8.7 | 8.6 |
| LP Gas 1,000ton | 7,933 | 7,404 | 7,153 | 7,312 | 7,134 | 6,811 | 6,631 | 6,535 | 6,297 | 6,275 |

【出所】 電気 経済産業省「総合エネルギー統計」
Sources Electricity : Energy balance in Japan, METI

(注) %は熱量(J)比より算出

灯油 経済産業省「総合エネルギー統計」
Kerosene : Energy balance in Japan, METI

都市ガス 経済産業省「総合エネルギー統計」
Town Gas : Energy balance in Japan, METI

LPガス 経済産業省「石油製品需要」
LP Gas : Petroleum Supply Plan, METI

5 日本の輸入相手国

5. LP Gas Imports by Country

| 2017年度輸入量 FY2017 | 千トン | % | |
|------------------|---------------|--------------|---------------------------------|
| サウジアラビア | 632 | 6.0 | The Kingdom of Saudi Arabia |
| アラブ首長国連邦 | 1,066 | 10.1 | The United Arab Emirates |
| カタール | 1,436 | 13.7 | Qatar |
| クウェート | 975 | 9.3 | Kuwait |
| バーレーン | 25 | 0.2 | Bahrain |
| 中東 合計 | 4,134 | 39.3 | Total in the Middle East |
| アメリカ | 5,865 | 55.7 | United States of America |
| オーストラリア | 327 | 3.1 | Australia |
| 東ティモール | 150 | 1.4 | East Timor |
| その他 | 46 | 0.5 | Others |
| 総計 | 10,522 | 100.0 | Grand Total |

1,000 ton

6 輸入エネルギー価格のトレンド

6. Price Trends of the Imported Energies

| \$/ ton | FY 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|
| LPガス LP Gas | 703.2 (100) | 751.5 (100) | 590.8 (100) | 771.2 (100) | 923.8 (100) | 966.7 (100) | 930.0 (100) | 725.9 (100) | 441.7 (100) | 409.9 (100) | 520.4 (100) |
| ナフサ Naphtha | 778.0 (110.6) | 885.8 (117.9) | 637.4 (107.9) | 792.6 (102.8) | 1007.3 (109.0) | 1003.7 (103.8) | 983.4 (105.7) | 829.5 (114.3) | 512.7 (116.1) | 457.9 (111.7) | 543.6 (104.5) |
| 原油 Crude Oil | 636.6 (90.5) | 756.9 (100.7) | 563.4 (95.4) | 684.2 (88.7) | 931.2 (100.8) | 929.1 (96.1) | 896.5 (96.4) | 716.2 (98.7) | 400.6 (90.7) | 387.9 (94.6) | 465.6 (89.5) |
| LNG LNG | 409.5 (58.2) | 607.3 (80.8) | 427.2 (72.3) | 537.7 (69.7) | 759.5 (82.2) | 796.8 (82.4) | 771.2 (82.9) | 724.0 (99.7) | 418.7 (94.8) | 334.1 (81.5) | 403.8 (77.6) |

各年度平均、LPG 熱量換算\$/トン、()内はLPガスを100とした指数
Converted to the equivalent of LP Gas heat capacity, (Index; LPG=100)

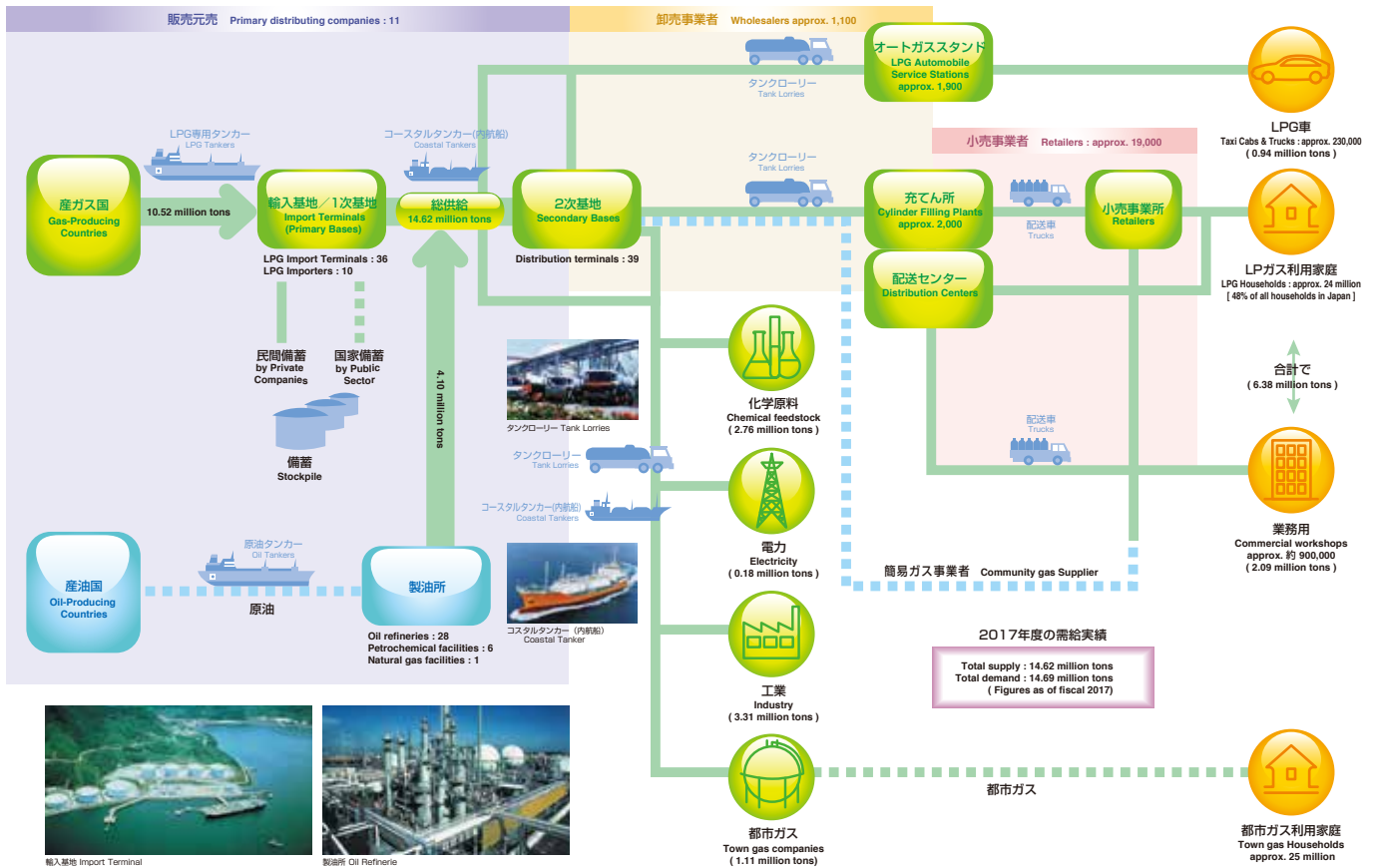
7 世界の地域別生産と消費

1,000ton

7. World LP Gas Production and Consumption

| Production | 生産量 | | | | | | 消費量 | | | | | | Consumption | |
|----------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|------------------------|
| | CY | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2012 | 2013 | 2014 | 2015 | 2016 | | 2017 |
| 北米 | | 55,743 | 62,090 | 68,981 | 74,806 | 77,051 | 80,270 | 49,710 | 53,244 | 49,583 | 48,706 | 48,696 | 46,186 | North America |
| 中南米 | | 25,382 | 25,427 | 25,263 | 23,692 | 22,462 | 21,681 | 28,966 | 29,895 | 30,687 | 30,531 | 30,556 | 30,336 | Central /South America |
| ヨーロッパ ユーラシア | | 41,296 | 42,643 | 43,953 | 44,171 | 45,909 | 46,930 | 44,133 | 47,492 | 48,985 | 49,110 | 51,243 | 51,006 | Europe , Eurasia |
| 中東 | | 64,301 | 62,289 | 64,612 | 65,135 | 69,371 | 68,930 | 29,758 | 28,878 | 30,168 | 30,059 | 31,882 | 33,310 | Middle East |
| アフリカ | | 14,229 | 14,094 | 15,877 | 15,820 | 16,781 | 16,575 | 11,643 | 12,009 | 12,055 | 12,437 | 12,670 | 13,006 | Africa |
| アジア太平洋 | | 58,131 | 59,693 | 61,547 | 65,697 | 72,947 | 74,462 | 90,555 | 94,542 | 100,808 | 108,624 | 123,346 | 129,579 | Asia |
| 世界計 | | 259,082 | 267,236 | 280,233 | 289,321 | 304,521 | 308,848 | 254,765 | 266,061 | 272,286 | 279,467 | 298,393 | 303,423 | World Total |

Flowchart of LP Gas Distribution



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