

A P E C

ENERGY HANDBOOK

2012



ASIA-PACIFIC ECONOMIC COOPERATION

Energy Working Group

November 2014

Coordinating Agency:

**The Energy Data and Modelling Center
The Institute of Energy Economics, Japan**

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Preface

The APEC Energy Handbook 2012 is a handy, pocket-sized summary of key energy data and a supplement to APEC Energy Statistics 2012 which has been released in November 2014 by the APEC Secretariat in Singapore.

This handbook consists of the following parts:

1. Primary Energy Supply
2. Transformation
3. Final Energy Consumption
4. Energy Balances
5. Energy Outlook
6. Energy Indicators

The Supply part describes Total Primary Energy Supply by energy while Transformation part shows Oil refining and Power Generation. The Consumption part indicates both Final Energy Consumption of commercial energy by Sectors and by Energy. The Energy Balances part includes regional energy balance tables while Outlook part shows projected energy demand by year 2030 which was prepared by Asia Pacific Energy Research Centre as of November 2009. The Energy Indicators part contains several indicators based on Population, GDP and Energy consumption.

This handbook has been derived from the APEC Energy Database, the purpose of which is to establish a comprehensive and consistent energy database within the APEC region. This database will be used to assist in the identification of significant trends in energy supply and demand consistent with projects and priorities under the APEC Energy Working Group. It has been prepared in close cooperation with the twenty-one member economies.

Inquiries about figures and graphs in this handbook could be addressed to The Energy Data and Modelling Center, The Institute of Energy Economics, Japan.

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Regional Coverage

| | APEC 21 | APEC 20 | East Asia and Russia | Other East Asia | South-east Asia | Oceania | North America | Latin America |
|--------------------------|---------|---------|----------------------|-----------------|-----------------|---------|---------------|---------------|
| Australia | o | o | | | | o | | |
| Brunei Darussalam | o | o | | | o | | | |
| Canada | o | o | | | | | o | |
| Chile | o | o | | | | | | o |
| China | o | o | o | | | | | |
| Hong Kong, China | o | o | o | o | | | | |
| Indonesia | o | o | | | o | | | |
| Japan | o | o | o | | | | | |
| Republic of Korea | o | o | o | o | | | | |
| Malaysia | o | o | | | o | | | |
| Mexico | o | o | | | | | o | |
| New Zealand | o | o | | | | o | | |
| Papua New Guinea | o | o | | | | o | | |
| Peru | o | o | | | | | | o |
| Philippines | o | o | | | o | | | |
| Russia | o | o | o | | | | | |
| Singapore | o | o | | | o | | | |
| Chinese Taipei | o | o | o | o | | | | |
| Thailand | o | o | | | o | | | |
| United States of America | o | o | | | | | o | |
| Viet Nam | o | | | | | | | |

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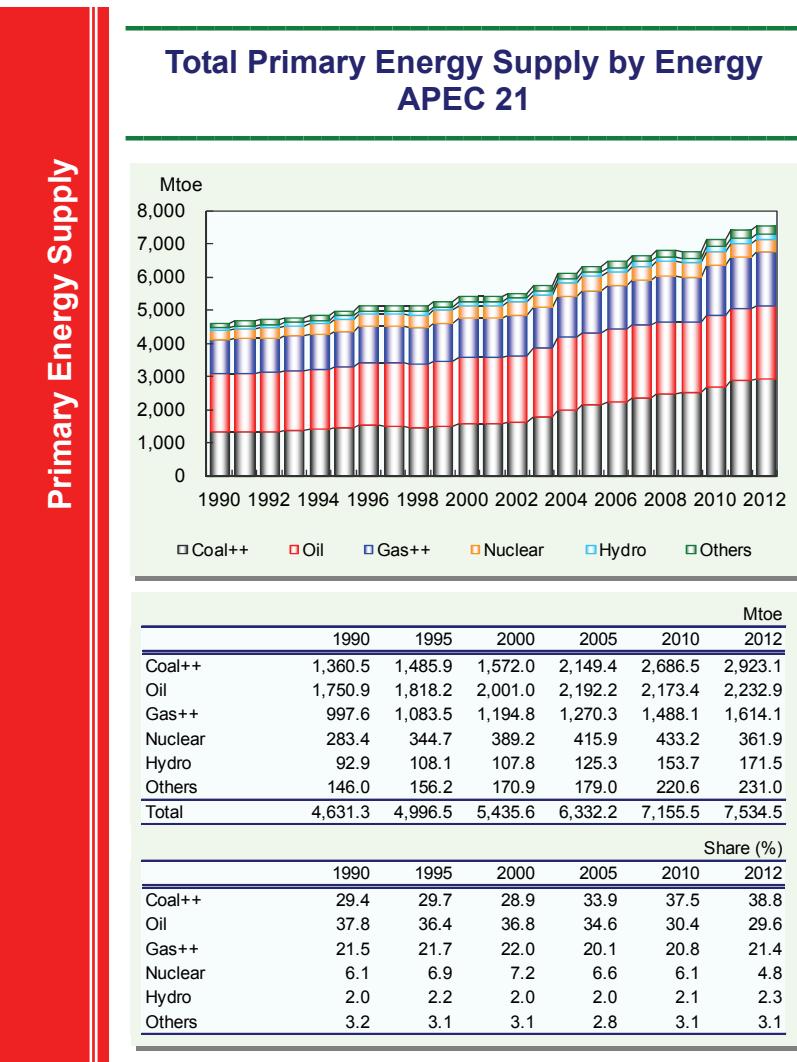
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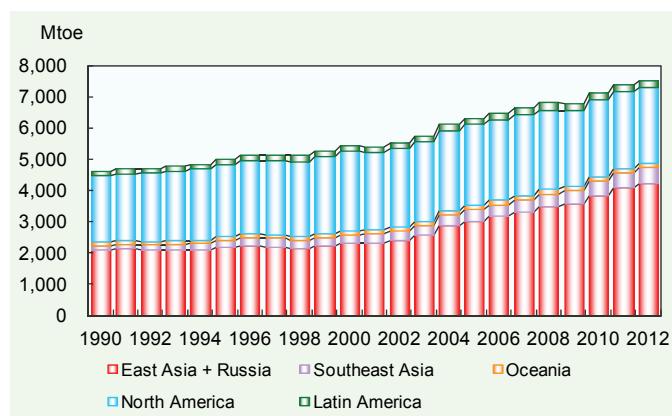
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Primary Energy Supply

Total Primary Energy Supply by Region APEC 21

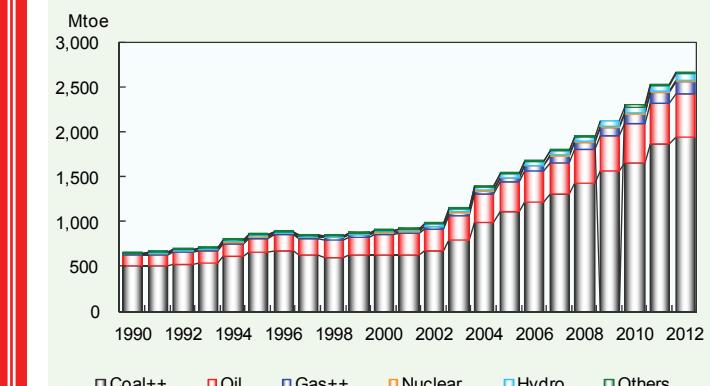


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|--------------------|---------|---------|---------|---------|---------|---------|------|
| East Asia + Russia | 2,116.7 | 2,206.8 | 2,320.1 | 3,040.9 | 3,869.4 | 4,258.9 | |
| Southeast Asia | 147.4 | 224.9 | 282.5 | 361.0 | 451.7 | 487.8 | |
| Oceania | 99.8 | 108.2 | 126.2 | 132.2 | 142.9 | 149.2 | |
| North America | 2,123.4 | 2,298.8 | 2,525.8 | 2,589.9 | 2,467.2 | 2,392.4 | |
| Latin America | 144.0 | 157.7 | 181.1 | 208.2 | 224.3 | 246.1 | |
| Total | 4,631.3 | 4,996.5 | 5,435.6 | 6,332.2 | 7,155.5 | 7,534.5 | |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Share (%) |
|--------------------|------|------|------|------|------|------|-----------|
| East Asia + Russia | 45.7 | 44.2 | 42.7 | 48.0 | 54.1 | 56.5 | |
| Southeast Asia | 3.2 | 4.5 | 5.2 | 5.7 | 6.3 | 6.5 | |
| Oceania | 2.2 | 2.2 | 2.3 | 2.1 | 2.0 | 2.0 | |
| North America | 45.8 | 46.0 | 46.5 | 40.9 | 34.5 | 31.8 | |
| Latin America | 3.1 | 3.2 | 3.3 | 3.3 | 3.1 | 3.3 | |

Primary Energy Supply

Total Primary Energy Supply by Energy China

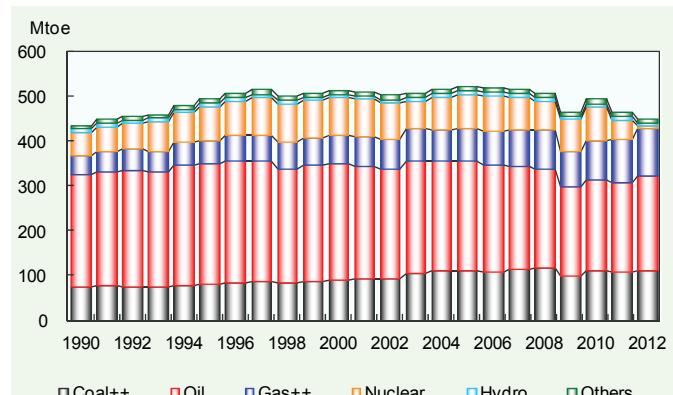


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|---------|-------|-------|-------|---------|---------|---------|------|
| Coal++ | 512.2 | 659.2 | 631.2 | 1,122.1 | 1,658.3 | 1,945.6 | |
| Oil | 114.4 | 158.5 | 224.7 | 319.1 | 438.1 | 474.5 | |
| Gas++ | 14.2 | 16.7 | 22.4 | 44.7 | 100.1 | 136.5 | |
| Nuclear | - | 3.3 | 4.4 | 13.8 | 19.3 | 25.4 | |
| Hydro | 10.9 | 16.4 | 19.1 | 34.1 | 62.1 | 75.0 | |
| Others | 2.3 | 3.8 | 3.4 | 5.5 | 21.6 | 11.4 | |
| Total | 654.0 | 858.0 | 905.2 | 1,539.4 | 2,299.4 | 2,668.4 | |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Share (%) |
|---------|------|------|------|------|------|------|-----------|
| Coal++ | 78.3 | 76.8 | 69.7 | 72.9 | 72.1 | 72.9 | |
| Oil | 17.5 | 18.5 | 24.8 | 20.7 | 19.1 | 17.8 | |
| Gas++ | 2.2 | 1.9 | 2.5 | 2.9 | 4.4 | 5.1 | |
| Nuclear | - | 0.4 | 0.5 | 0.9 | 0.8 | 1.0 | |
| Hydro | 1.7 | 1.9 | 2.1 | 2.2 | 2.7 | 2.8 | |
| Others | 0.3 | 0.4 | 0.4 | 0.4 | 0.9 | 0.4 | |

Primary Energy Supply

Total Primary Energy Supply by Energy Japan

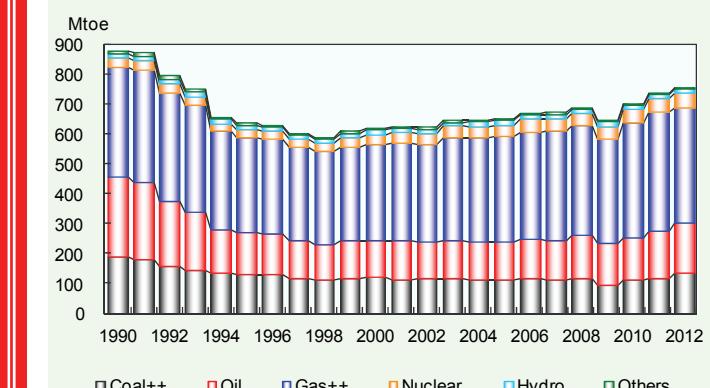


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------|-------|-------|-------|-------|-------|-------|
| Coal++ | 75.7 | 82.8 | 91.8 | 112.9 | 112.5 | 111.9 |
| Oil | 249.1 | 267.4 | 256.5 | 244.3 | 201.8 | 212.0 |
| Gas++ | 43.5 | 52.0 | 64.9 | 70.9 | 85.3 | 105.2 |
| Nuclear | 51.0 | 75.0 | 83.3 | 76.4 | 76.2 | 4.7 |
| Hydro | 7.8 | 7.1 | 7.5 | 7.0 | 7.8 | 6.9 |
| Others | 7.5 | 8.8 | 9.6 | 9.8 | 9.6 | 9.5 |
| Total | 434.6 | 493.2 | 513.6 | 521.2 | 493.2 | 450.2 |

| | Share (%) | | | | | |
|---------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Coal++ | 17.4 | 16.8 | 17.9 | 21.7 | 22.8 | 24.9 |
| Oil | 57.3 | 54.2 | 49.9 | 46.9 | 40.9 | 47.1 |
| Gas++ | 10.0 | 10.5 | 12.6 | 13.6 | 17.3 | 23.4 |
| Nuclear | 11.7 | 15.2 | 16.2 | 14.7 | 15.4 | 1.0 |
| Hydro | 1.8 | 1.4 | 1.5 | 1.4 | 1.6 | 1.5 |
| Others | 1.7 | 1.8 | 1.9 | 1.9 | 1.9 | 2.1 |

Primary Energy Supply

Total Primary Energy Supply by Energy Russia

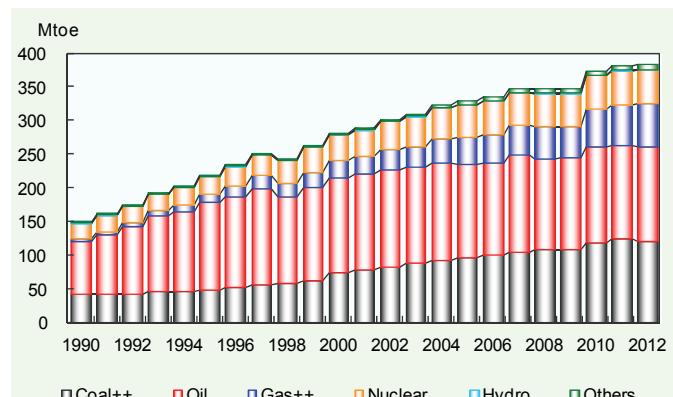


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------|-------|-------|-------|-------|-------|-------|
| Coal++ | 191.1 | 129.2 | 120.0 | 112.6 | 114.8 | 133.4 |
| Oil | 263.8 | 142.7 | 126.1 | 129.2 | 139.1 | 168.8 |
| Gas++ | 367.4 | 316.6 | 319.0 | 349.7 | 383.5 | 387.1 |
| Nuclear | 30.9 | 26.0 | 34.1 | 39.0 | 44.4 | 46.3 |
| Hydro | 14.3 | 15.1 | 14.1 | 14.9 | 14.3 | 14.3 |
| Others | 11.5 | 6.9 | 5.7 | 6.2 | 5.9 | 6.4 |
| Total | 878.9 | 636.4 | 619.0 | 651.5 | 702.1 | 756.4 |

| | Share (%) | | | | | |
|---------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Coal++ | 21.7 | 20.3 | 19.4 | 17.3 | 16.4 | 17.6 |
| Oil | 30.0 | 22.4 | 20.4 | 19.8 | 19.8 | 22.3 |
| Gas++ | 41.8 | 49.8 | 51.5 | 53.7 | 54.6 | 51.2 |
| Nuclear | 3.5 | 4.1 | 5.5 | 6.0 | 6.3 | 6.1 |
| Hydro | 1.6 | 2.4 | 2.3 | 2.3 | 2.0 | 1.9 |
| Others | 1.3 | 1.1 | 0.9 | 1.0 | 0.8 | 0.8 |

Primary Energy Supply

Total Primary Energy Supply by Energy Other East Asia

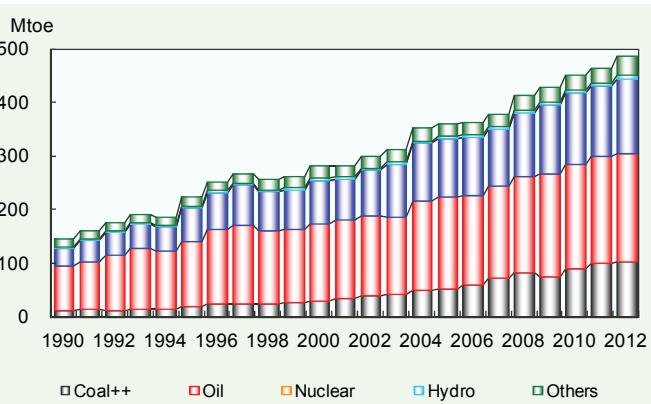


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------|-------|-------|-------|-------|-------|-------|
| Coal++ | 42.1 | 48.4 | 73.6 | 95.6 | 118.8 | 119.9 |
| Oil | 78.4 | 129.6 | 142.3 | 139.3 | 143.1 | 142.1 |
| Gas++ | 4.5 | 12.0 | 24.6 | 39.9 | 55.9 | 63.8 |
| Nuclear | 22.3 | 26.7 | 38.4 | 48.7 | 49.6 | 49.7 |
| Hydro | 1.3 | 1.0 | 1.1 | 1.0 | 0.9 | 1.1 |
| Others | 0.6 | 1.5 | 2.2 | 4.4 | 6.3 | 7.4 |
| Total | 149.2 | 219.2 | 282.2 | 328.8 | 374.7 | 384.0 |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------|------|------|------|------|------|------|
| Coal++ | 28.2 | 22.1 | 26.1 | 29.1 | 31.7 | 31.2 |
| Oil | 52.6 | 59.1 | 50.4 | 42.4 | 38.2 | 37.0 |
| Gas++ | 3.0 | 5.5 | 8.7 | 12.1 | 14.9 | 16.6 |
| Nuclear | 15.0 | 12.2 | 13.6 | 14.8 | 13.2 | 12.9 |
| Hydro | 0.8 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 |
| Others | 0.4 | 0.7 | 0.8 | 1.3 | 1.7 | 1.9 |

Primary Energy Supply

Total Primary Energy Supply by Energy Southeast Asia

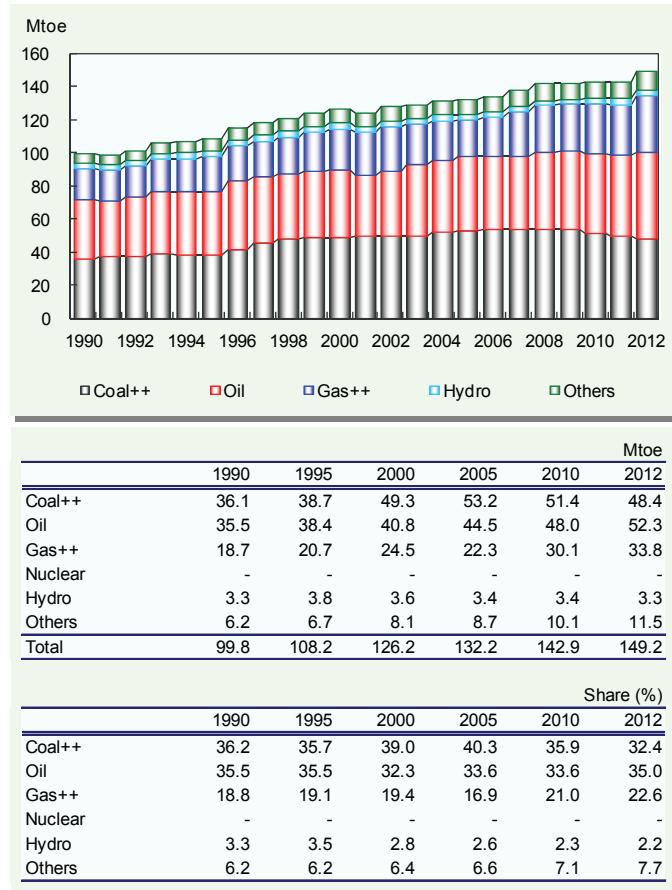


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Coal++ | 12.8 | 20.2 | 30.0 | 53.6 | 91.0 | 103.8 |
| Oil | 83.9 | 120.4 | 144.1 | 172.4 | 193.2 | 201.4 |
| Gas++ | 31.1 | 64.0 | 81.7 | 107.9 | 135.2 | 138.9 |
| Nuclear | - | - | - | - | - | - |
| Hydro | 2.7 | 3.7 | 3.9 | 4.2 | 5.6 | 8.1 |
| Others | 16.8 | 16.7 | 22.8 | 22.9 | 26.7 | 35.7 |
| Total | 147.4 | 224.9 | 282.5 | 361.0 | 451.7 | 487.8 |

| | Share (%) | | | | | |
|---------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Coal++ | 8.7 | 9.0 | 10.6 | 14.8 | 20.1 | 21.3 |
| Oil | 56.9 | 53.5 | 51.0 | 47.8 | 42.8 | 41.3 |
| Gas++ | 21.1 | 28.5 | 28.9 | 29.9 | 29.9 | 28.5 |
| Nuclear | - | - | - | - | - | - |
| Hydro | 1.8 | 1.6 | 1.4 | 1.2 | 1.2 | 1.7 |
| Others | 11.4 | 7.4 | 8.1 | 6.3 | 5.9 | 7.3 |

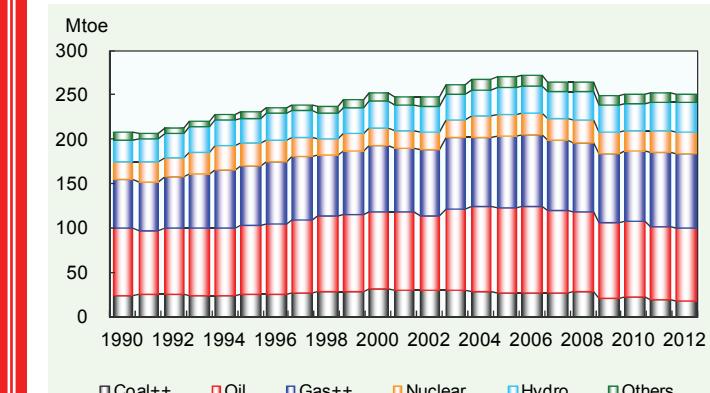
Primary Energy Supply

Total Primary Energy Supply by Energy Oceania



Primary Energy Supply

Total Primary Energy Supply by Energy Canada

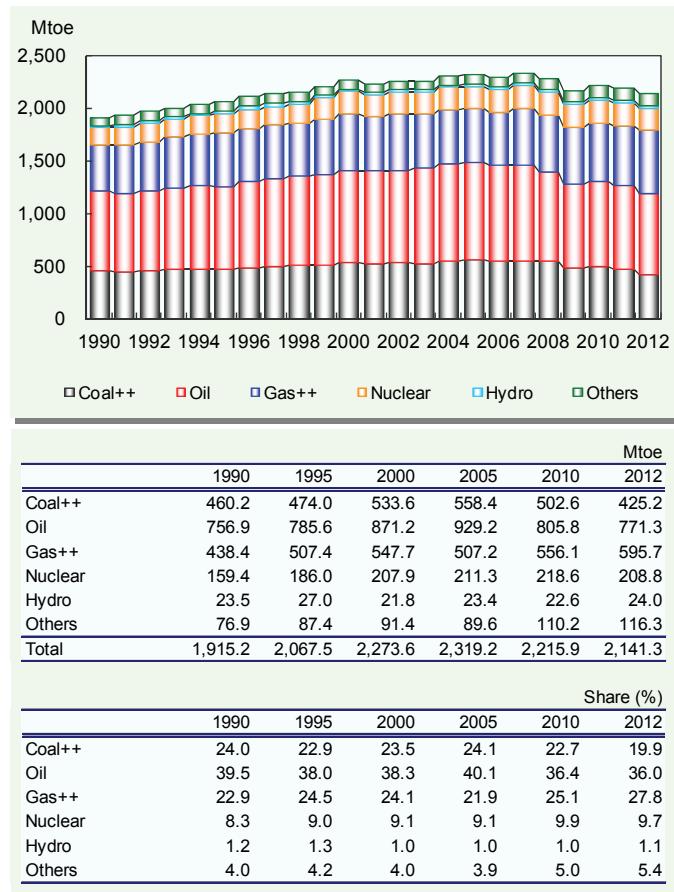


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------|-------|-------|-------|-------|-------|-------|
| Coal++ | 24.3 | 25.3 | 31.7 | 27.2 | 22.2 | 18.4 |
| Oil | 76.5 | 77.8 | 87.8 | 96.2 | 86.0 | 82.5 |
| Gas++ | 54.7 | 67.1 | 74.3 | 80.7 | 78.7 | 83.5 |
| Nuclear | 19.0 | 25.5 | 19.0 | 24.0 | 23.6 | 24.7 |
| Hydro | 25.5 | 28.9 | 30.8 | 31.1 | 30.2 | 32.7 |
| Others | 8.1 | 6.7 | 8.7 | 11.5 | 10.5 | 9.4 |
| Total | 208.2 | 231.3 | 252.2 | 270.8 | 251.3 | 251.1 |

| | Share (%) | | | | | |
|---------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Coal++ | 11.7 | 10.9 | 12.6 | 10.1 | 8.8 | 7.3 |
| Oil | 36.7 | 33.6 | 34.8 | 35.5 | 34.2 | 32.8 |
| Gas++ | 26.3 | 29.0 | 29.4 | 29.8 | 31.3 | 33.3 |
| Nuclear | 9.1 | 11.0 | 7.5 | 8.9 | 9.4 | 9.8 |
| Hydro | 12.3 | 12.5 | 12.2 | 11.5 | 12.0 | 13.0 |
| Others | 3.9 | 2.9 | 3.4 | 4.2 | 4.2 | 3.7 |

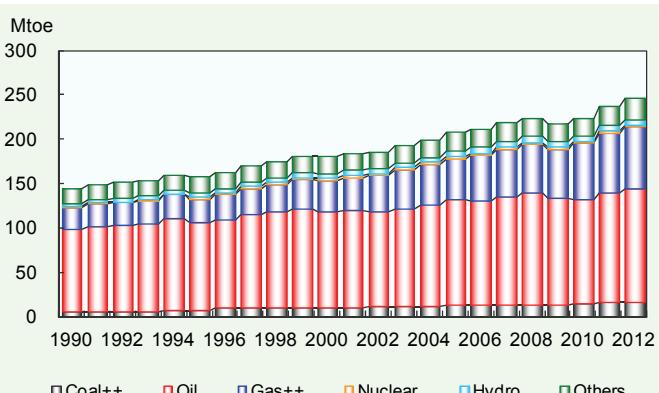
Primary Energy Supply

Total Primary Energy Supply by Energy United States of America



Primary Energy Supply

Total Primary Energy Supply by Energy Latin America

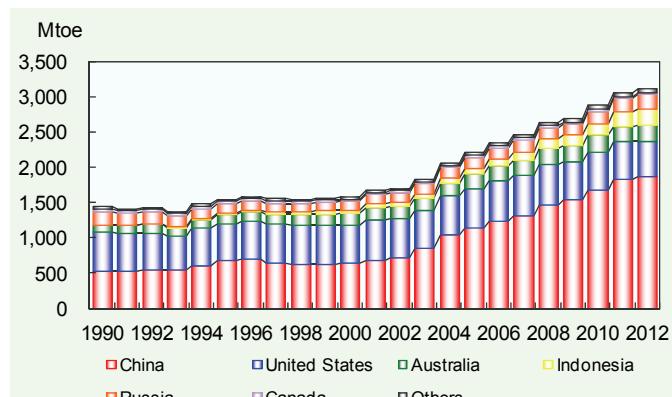


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------|-------|-------|-------|-------|-------|-------|
| Coal++ | 6.1 | 8.2 | 10.8 | 13.8 | 14.8 | 16.5 |
| Oil | 92.5 | 97.8 | 107.6 | 118.0 | 118.3 | 127.9 |
| Gas++ | 25.0 | 26.9 | 35.7 | 47.1 | 63.2 | 69.6 |
| Nuclear | 0.8 | 2.2 | 2.1 | 2.8 | 1.5 | 2.3 |
| Hydro | 3.7 | 5.1 | 5.8 | 6.2 | 6.8 | 6.3 |
| Others | 16.0 | 17.6 | 19.0 | 20.4 | 19.7 | 23.4 |
| Total | 144.0 | 157.7 | 181.1 | 208.2 | 224.3 | 246.1 |

| | Share (%) | | | | | |
|---------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Coal++ | 4.2 | 5.2 | 6.0 | 6.6 | 6.6 | 6.7 |
| Oil | 64.2 | 62.0 | 59.4 | 56.7 | 52.7 | 52.0 |
| Gas++ | 17.4 | 17.1 | 19.7 | 22.6 | 28.2 | 28.3 |
| Nuclear | 0.5 | 1.4 | 1.2 | 1.4 | 0.7 | 0.9 |
| Hydro | 2.5 | 3.2 | 3.2 | 3.0 | 3.0 | 2.6 |
| Others | 11.1 | 11.1 | 10.5 | 9.8 | 8.8 | 9.5 |

Primary Energy Supply

Indigenous Production of Coal APEC 21



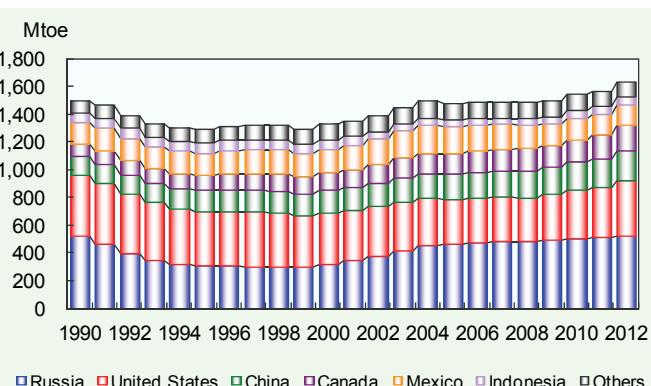
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|---------------|---------|---------|---------|---------|---------|---------|------|
| China | 540.0 | 680.4 | 649.6 | 1,143.3 | 1,691.7 | 1,869.3 | |
| United States | 542.3 | 529.8 | 536.9 | 565.3 | 531.8 | 495.5 | |
| Australia | 106.1 | 127.8 | 164.6 | 201.6 | 236.4 | 239.9 | |
| Indonesia | 5.8 | 24.0 | 44.0 | 82.8 | 161.8 | 226.9 | |
| Russia | 192.4 | 130.7 | 128.5 | 157.4 | 180.0 | 200.7 | |
| Canada | 37.9 | 40.8 | 34.4 | 32.1 | 33.8 | 33.5 | |
| Others | 27.0 | 24.4 | 25.8 | 35.8 | 45.9 | 46.7 | |
| Total | 1,451.5 | 1,557.8 | 1,583.8 | 2,218.1 | 2,881.5 | 3,112.5 | |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Share (%) |
|---------------|------|------|------|------|------|------|-----------|
| China | 37.2 | 43.7 | 41.0 | 51.5 | 58.7 | 60.1 | |
| United States | 37.4 | 34.0 | 33.9 | 25.5 | 18.5 | 15.9 | |
| Australia | 7.3 | 8.2 | 10.4 | 9.1 | 8.2 | 7.7 | |
| Indonesia | 0.4 | 1.5 | 2.8 | 3.7 | 5.6 | 7.3 | |
| Russia | 13.3 | 8.4 | 8.1 | 7.1 | 6.2 | 6.4 | |
| Canada | 2.6 | 2.6 | 2.2 | 1.4 | 1.2 | 1.1 | |
| Others | 1.9 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | |

Coal: Hard Coal, Anthracite and Lignite

Primary Energy Supply

Indigenous Production of Crude Oil APEC 21



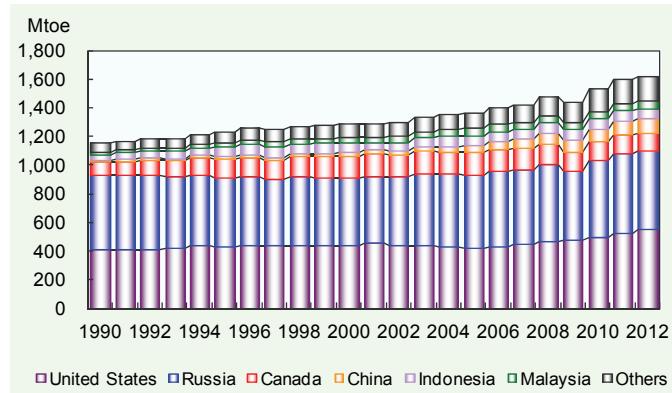
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Russia | 526.3 | 306.6 | 323.3 | 468.7 | 506.5 | 521.3 |
| United States | 432.6 | 397.9 | 365.6 | 322.6 | 346.8 | 407.5 |
| China | 138.4 | 150.0 | 163.0 | 181.4 | 203.0 | 207.5 |
| Canada | 94.1 | 113.5 | 128.4 | 147.3 | 162.7 | 185.6 |
| Mexico | 152.8 | 155.3 | 170.9 | 193.7 | 155.0 | 152.2 |
| Indonesia | 70.7 | 72.9 | 69.0 | 48.1 | 58.0 | 50.3 |
| Others | 87.3 | 98.8 | 109.4 | 115.7 | 115.5 | 109.7 |
| Total | 1,502.2 | 1,294.9 | 1,329.7 | 1,477.4 | 1,547.6 | 1,634.0 |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------------|------|------|------|------|------|------|
| Russia | 35.0 | 23.7 | 24.3 | 31.7 | 32.7 | 31.9 |
| United States | 28.8 | 30.7 | 27.5 | 21.8 | 22.4 | 24.9 |
| China | 9.2 | 11.6 | 12.3 | 12.3 | 13.1 | 12.7 |
| Canada | 6.3 | 8.8 | 9.7 | 10.0 | 10.5 | 11.4 |
| Mexico | 10.2 | 12.0 | 12.9 | 13.1 | 10.0 | 9.3 |
| Indonesia | 4.7 | 5.6 | 5.2 | 3.3 | 3.7 | 3.1 |
| Others | 5.8 | 7.6 | 8.2 | 7.8 | 7.5 | 6.7 |

Crude Oil includes NGL and condensate

Primary Energy Supply

Indigenous Production of Natural Gas APEC 21

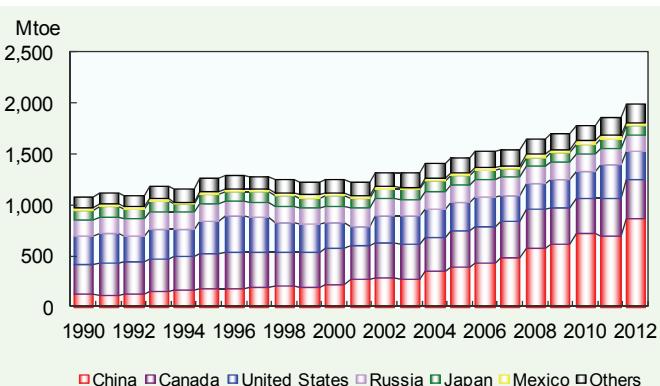


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|---------------|---------|---------|---------|---------|---------|---------|------|
| United States | 418.2 | 434.6 | 446.9 | 421.6 | 494.8 | 558.9 | |
| Russia | 516.8 | 480.6 | 470.7 | 515.8 | 540.2 | 540.8 | |
| Canada | 88.6 | 130.3 | 148.4 | 154.1 | 132.4 | 130.0 | |
| China | 14.2 | 16.7 | 25.3 | 47.4 | 88.3 | 99.8 | |
| Indonesia | 41.0 | 68.0 | 65.8 | 68.7 | 76.6 | 69.4 | |
| Malaysia | 15.4 | 24.5 | 42.3 | 55.0 | 46.6 | 51.2 | |
| Others | 62.7 | 76.1 | 93.6 | 107.8 | 155.0 | 166.9 | |
| Total | 1,157.0 | 1,230.7 | 1,293.1 | 1,370.5 | 1,533.9 | 1,616.9 | |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Share (%) |
|---------------|------|------|------|------|------|------|-----------|
| United States | 36.1 | 35.3 | 34.6 | 30.8 | 32.3 | 34.6 | |
| Russia | 44.7 | 39.0 | 36.4 | 37.6 | 35.2 | 33.4 | |
| Canada | 7.7 | 10.6 | 11.5 | 11.2 | 8.6 | 8.0 | |
| China | 1.2 | 1.4 | 2.0 | 3.5 | 5.8 | 6.2 | |
| Indonesia | 3.5 | 5.5 | 5.1 | 5.0 | 5.0 | 4.3 | |
| Malaysia | 1.3 | 2.0 | 3.3 | 4.0 | 3.0 | 3.2 | |
| Others | 5.4 | 6.2 | 7.2 | 7.9 | 10.1 | 10.3 | |

Primary Energy Supply

Indigenous Production of Hydro Power APEC 21

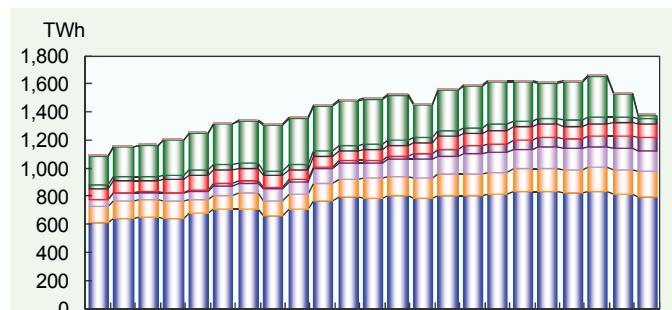


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|---------------|---------|---------|---------|---------|---------|---------|
| China | 126.7 | 190.6 | 222.4 | 397.0 | 722.2 | 872.1 |
| Canada | 296.7 | 335.9 | 358.5 | 361.9 | 351.4 | 380.5 |
| United States | 273.2 | 314.1 | 253.2 | 272.4 | 262.3 | 278.5 |
| Russia | 165.9 | 175.4 | 164.1 | 172.7 | 166.5 | 165.9 |
| Japan | 95.6 | 90.0 | 94.2 | 87.1 | 95.3 | 84.2 |
| Mexico | 23.5 | 27.5 | 33.1 | 27.7 | 37.1 | 31.9 |
| Others | 102.7 | 130.2 | 134.7 | 144.0 | 156.8 | 185.8 |
| Total | 1,084.3 | 1,263.8 | 1,260.2 | 1,462.8 | 1,791.5 | 1,998.8 |

| | Share (%) | | | | | |
|---------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| China | 11.7 | 15.1 | 17.6 | 27.1 | 40.3 | 43.6 |
| Canada | 27.4 | 26.6 | 28.4 | 24.7 | 19.6 | 19.0 |
| United States | 25.2 | 24.9 | 20.1 | 18.6 | 14.6 | 13.9 |
| Russia | 15.3 | 13.9 | 13.0 | 11.8 | 9.3 | 8.3 |
| Japan | 8.8 | 7.1 | 7.5 | 6.0 | 5.3 | 4.2 |
| Mexico | 2.2 | 2.2 | 2.6 | 1.9 | 2.1 | 1.6 |
| Others | 9.5 | 10.3 | 10.7 | 9.8 | 8.8 | 9.3 |

Primary Energy Supply

Indigenous Production of Nuclear Power APEC 21

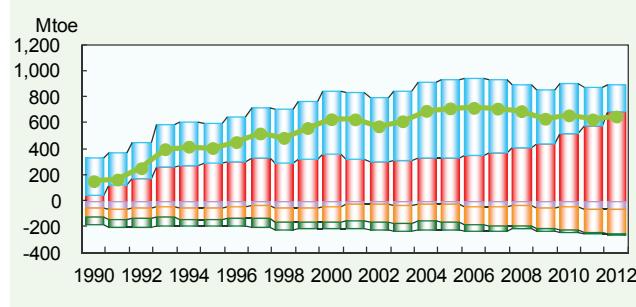


| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|----------------|---------|---------|---------|---------|---------|---------|
| United States | 611.6 | 713.8 | 797.7 | 810.7 | 838.9 | 801.1 |
| Russia | 118.3 | 99.5 | 130.7 | 149.4 | 170.4 | 177.5 |
| Korea | 52.9 | 67.0 | 109.0 | 146.8 | 148.6 | 150.3 |
| China | - | 12.8 | 16.7 | 53.1 | 73.9 | 97.4 |
| Canada | 72.9 | 97.8 | 72.8 | 92.0 | 90.7 | 94.9 |
| Chinese Taipei | 32.9 | 35.3 | 38.5 | 40.0 | 41.6 | 40.5 |
| Japan | 195.8 | 287.9 | 319.8 | 293.0 | 292.4 | 18.0 |
| Mexico | 2.9 | 8.4 | 8.2 | 10.8 | 5.9 | 8.8 |
| Total | 1,087.2 | 1,322.7 | 1,493.4 | 1,595.9 | 1,662.3 | 1,388.5 |

| | Share (%) | | | | | |
|----------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| United States | 56.3 | 54.0 | 53.4 | 50.8 | 50.5 | 57.7 |
| Russia | 10.9 | 7.5 | 8.8 | 9.4 | 10.3 | 12.8 |
| Korea | 4.9 | 5.1 | 7.3 | 9.2 | 8.9 | 10.8 |
| China | - | 1.0 | 1.1 | 3.3 | 4.4 | 7.0 |
| Canada | 6.7 | 7.4 | 4.9 | 5.8 | 5.5 | 6.8 |
| Chinese Taipei | 3.0 | 2.7 | 2.6 | 2.5 | 2.5 | 2.9 |
| Japan | 18.0 | 21.8 | 21.4 | 18.4 | 17.6 | 1.3 |
| Mexico | 0.3 | 0.6 | 0.6 | 0.7 | 0.4 | 0.6 |

Primary Energy Supply

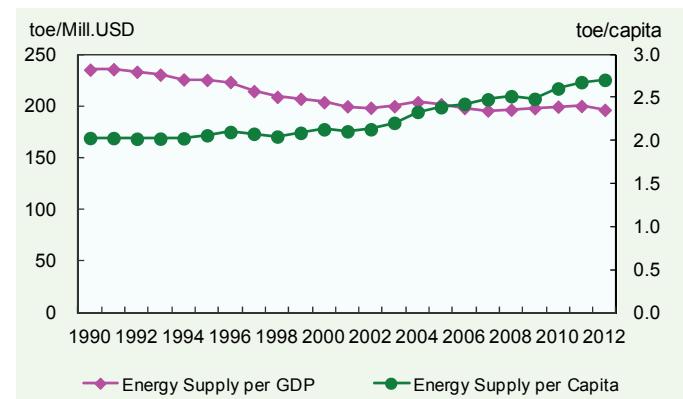
Net Import by Region APEC 21



| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|-------------------|--------|--------|--------|--------|--------|--------|
| Australia | -64.5 | -89.2 | -127.1 | -148.7 | -185.6 | -186.8 |
| Brunei Darussalam | -13.7 | -14.3 | -15.2 | -17.8 | -17.0 | -16.5 |
| Canada | -59.3 | -119.7 | -127.7 | -133.7 | -149.8 | -168.7 |
| Chile | 7.0 | 10.8 | 17.7 | 20.5 | 22.3 | 25.0 |
| China | -30.5 | -8.9 | 32.4 | 137.4 | 333.7 | 467.6 |
| Hong Kong, China | 10.8 | 14.3 | 18.2 | 23.4 | 31.4 | 28.1 |
| Indonesia | -65.9 | -85.2 | -82.4 | -73.9 | -140.7 | -182.2 |
| Japan | 371.4 | 405.7 | 420.4 | 433.1 | 406.6 | 436.0 |
| Korea | 70.1 | 134.8 | 165.7 | 175.6 | 221.0 | 228.1 |
| Malaysia | -25.8 | -28.2 | -27.3 | -28.1 | -13.9 | -8.3 |
| Mexico | -69.9 | -68.8 | -71.6 | -77.2 | -40.0 | -22.9 |
| New Zealand | 2.1 | 3.1 | 3.4 | 4.9 | 2.9 | 3.8 |
| Papua New Guinea | -3.7 | -4.0 | -2.7 | -1.0 | 0.8 | 0.8 |
| Peru | -0.6 | 1.8 | 3.3 | 2.8 | -2.8 | -2.4 |
| Philippines | 11.9 | 17.7 | 20.0 | 17.0 | 17.7 | 19.6 |
| Russia | -412.6 | -315.0 | -349.6 | -539.3 | -579.1 | -565.0 |
| Singapore | 22.9 | 31.9 | 40.3 | 50.8 | 67.1 | 73.1 |
| Chinese Taipei | 39.4 | 55.7 | 76.4 | 96.4 | 101.8 | 96.4 |
| Thailand | 18.2 | 32.6 | 34.6 | 48.2 | 53.5 | 54.1 |
| United States | 341.9 | 433.4 | 606.4 | 736.1 | 533.5 | 374.9 |
| Viet Nam | -0.2 | -4.7 | -9.8 | -17.7 | -7.8 | -8.1 |
| Total | 149.2 | 403.9 | 625.5 | 708.8 | 655.3 | 646.6 |

Primary Energy Supply

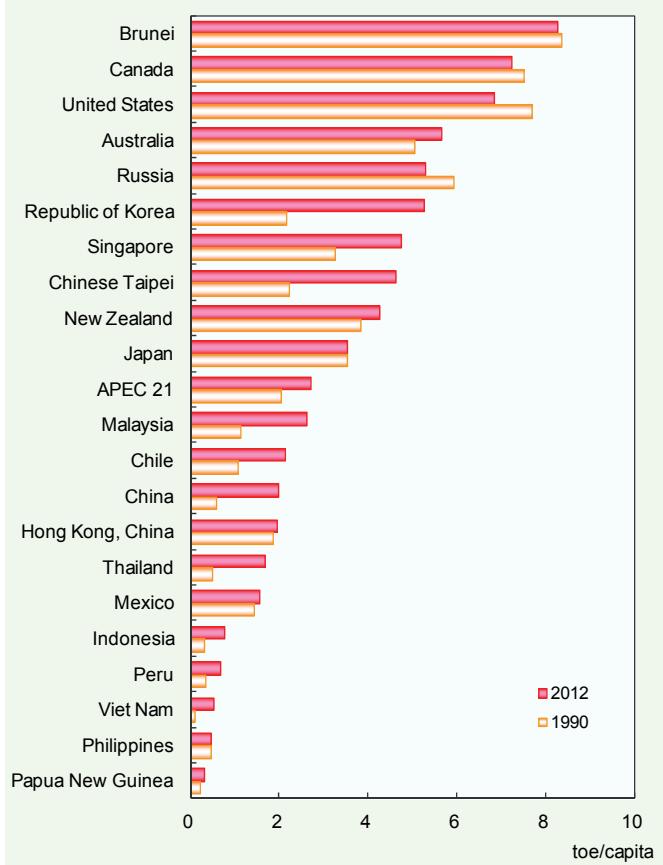
Total Primary Energy Supply per GDP & Capita APEC 21



| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|----------------------------------|--------|--------|--------|--------|--------|--------|
| Population (mill.) | 2,284 | 2,426 | 2,553 | 2,654 | 2,749 | 2,787 |
| Primary Energy Supply per Capita | 2.03 | 2.06 | 2.13 | 2.39 | 2.60 | 2.70 |
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| GDP (bill. USD) | 19,702 | 22,190 | 26,697 | 31,394 | 35,892 | 38,399 |
| Primary Energy Supply per GDP | 235.1 | 225.2 | 203.6 | 201.7 | 199.4 | 196.2 |

Primary Energy Supply

Total Primary Energy Supply per Capita
1990 – 2012 by Economy



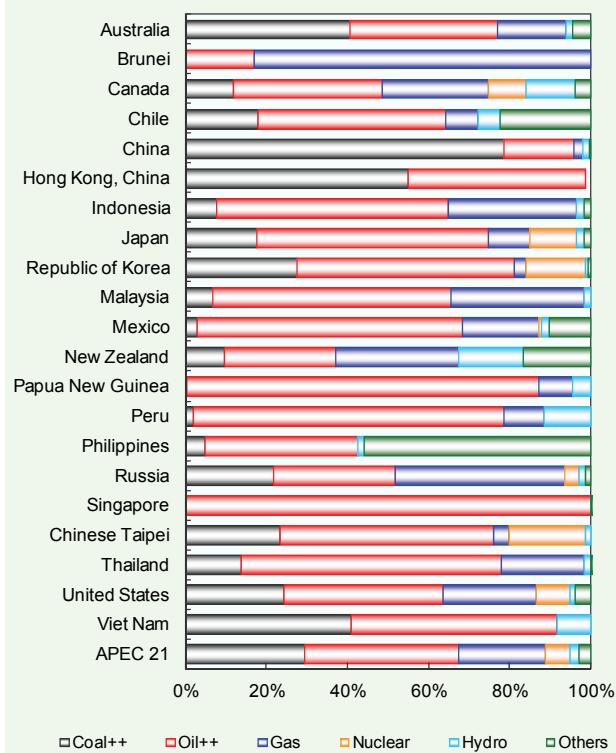
Primary Energy Supply

Total Primary Energy Supply per GDP
1990 – 2012 by Economy



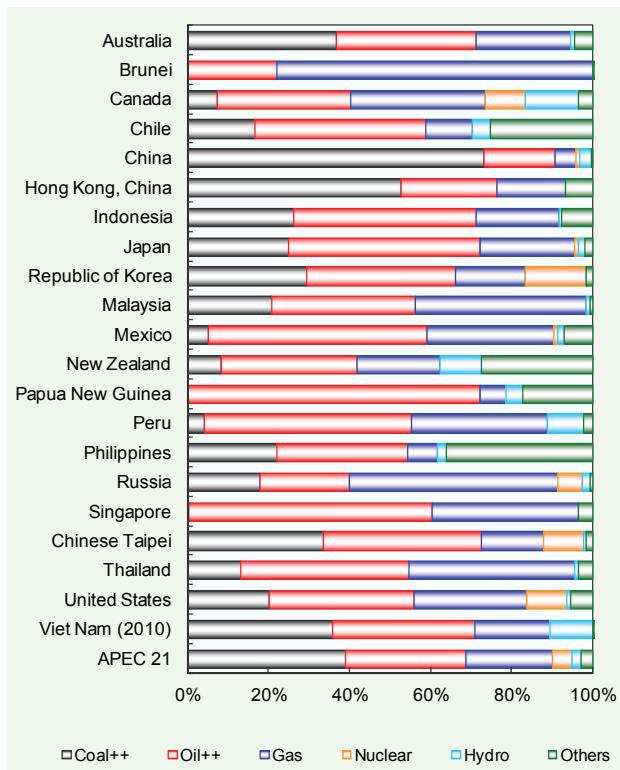
Primary Energy Supply

Primary Energy Mix by Economy 1990

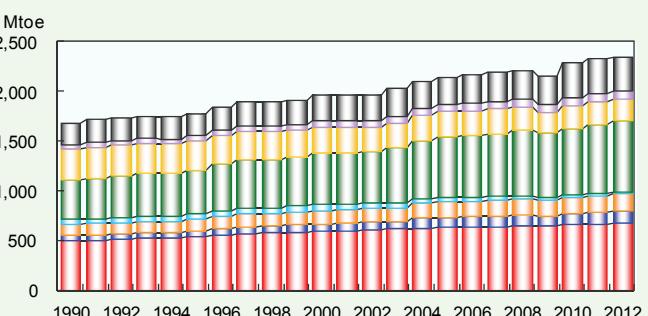


Primary Energy Supply

Primary Energy Mix by Economy
2012



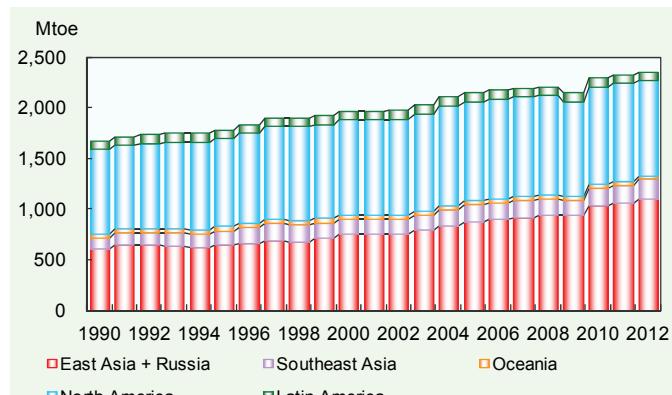
Refining of Petroleum Products by Fuel APEC 21



| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
|----------------|---------|---------|---------|---------|---------|---------|
| Mogas | 504.4 | 545.4 | 597.3 | 632.5 | 669.1 | 685.1 |
| Naphtha | 47.7 | 59.0 | 72.1 | 104.5 | 99.9 | 112.7 |
| Gas/Diesel Oil | 401.8 | 441.7 | 516.7 | 604.1 | 671.7 | 711.4 |
| Fuel Oil | 315.9 | 298.0 | 267.0 | 258.1 | 228.8 | 215.6 |
| Jet Fuel | 120.4 | 119.7 | 137.9 | 156.5 | 165.2 | 175.7 |
| Kerosene | 41.2 | 47.2 | 59.3 | 45.0 | 29.0 | 25.2 |
| LPG | 42.0 | 50.8 | 61.8 | 68.7 | 83.8 | 85.0 |
| Others | 207.5 | 221.3 | 261.5 | 280.4 | 347.9 | 344.6 |
| Total | 1,680.8 | 1,783.1 | 1,973.5 | 2,149.8 | 2,295.3 | 2,355.3 |

| | Share (%) | | | | | |
|----------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Mogas | 30.0 | 30.6 | 30.3 | 29.4 | 29.2 | 29.1 |
| Naphtha | 2.8 | 3.3 | 3.7 | 4.9 | 4.4 | 4.8 |
| Gas/Diesel Oil | 23.9 | 24.8 | 26.2 | 28.1 | 29.3 | 30.2 |
| Fuel Oil | 18.8 | 16.7 | 13.5 | 12.0 | 10.0 | 9.2 |
| Jet Fuel | 7.2 | 6.7 | 7.0 | 7.3 | 7.2 | 7.5 |
| Kerosene | 2.4 | 2.6 | 3.0 | 2.1 | 1.3 | 1.1 |
| LPG | 2.5 | 2.8 | 3.1 | 3.2 | 3.6 | 3.6 |
| Others | 12.3 | 12.4 | 13.2 | 13.0 | 15.2 | 14.6 |

Refining of Petroleum Products by Region APEC 21

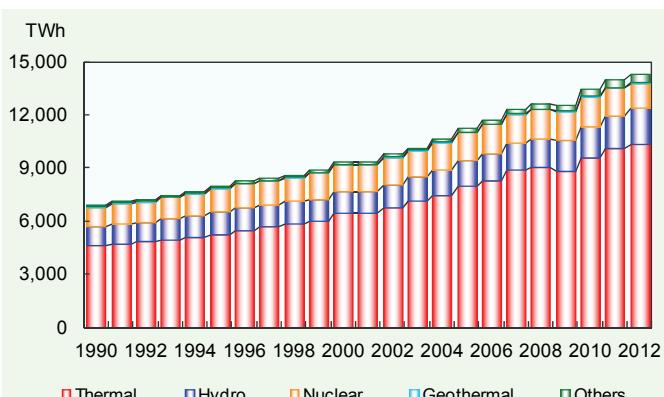


| | Mtoe | | | | | |
|--------------------|---------|---------|---------|---------|---------|---------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| East Asia + Russia | 614.4 | 647.4 | 751.6 | 877.3 | 1,035.6 | 1,108.0 |
| Southeast Asia | 109.9 | 142.6 | 152.3 | 166.9 | 170.9 | 190.2 |
| Oceania | 37.0 | 41.2 | 43.5 | 40.8 | 38.0 | 38.1 |
| North America | 840.5 | 867.7 | 943.5 | 974.5 | 964.5 | 933.0 |
| Latin America | 78.9 | 84.2 | 82.6 | 90.3 | 86.3 | 86.0 |
| Total | 1,680.8 | 1,783.1 | 1,973.5 | 2,149.8 | 2,295.3 | 2,355.3 |

| | Share (%) | | | | | |
|--------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| East Asia + Russia | 36.6 | 36.3 | 38.1 | 40.8 | 45.1 | 47.0 |
| Southeast Asia | 6.5 | 8.0 | 7.7 | 7.8 | 7.4 | 8.1 |
| Oceania | 2.2 | 2.3 | 2.2 | 1.9 | 1.7 | 1.6 |
| North America | 50.0 | 48.7 | 47.8 | 45.3 | 42.0 | 39.6 |
| Latin America | 4.7 | 4.7 | 4.2 | 4.2 | 3.8 | 3.7 |

Transformation

Electricity Power Generation by Type APEC 21

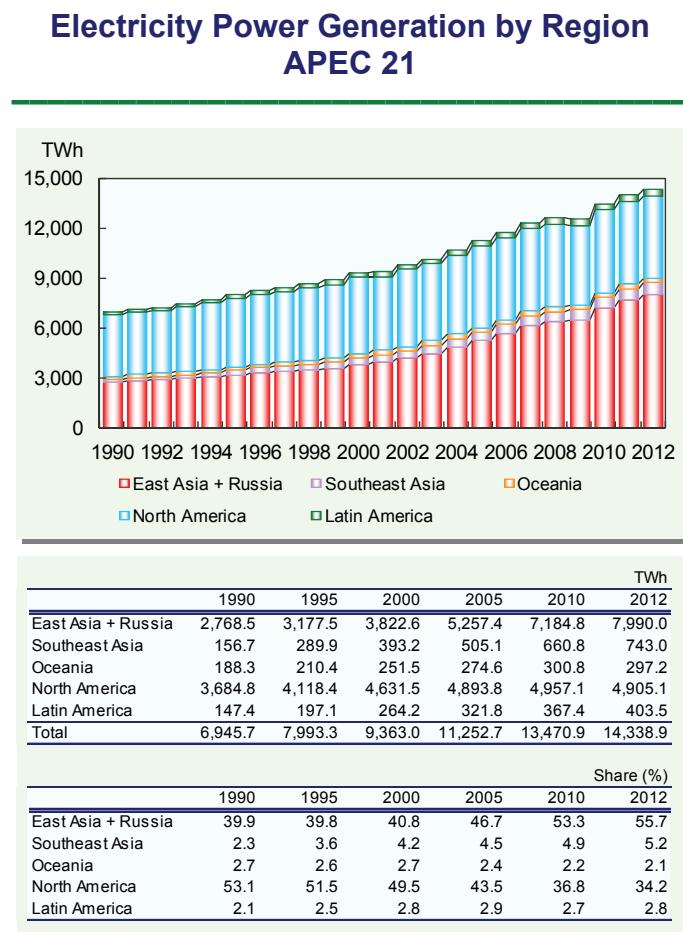


| | TWh | | | | | |
|------------|---------|---------|---------|----------|----------|----------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Thermal | 4,622.8 | 5,263.3 | 6,438.6 | 7,957.0 | 9,585.5 | 10,390.4 |
| Hydro | 1,084.3 | 1,263.8 | 1,260.2 | 1,462.8 | 1,791.5 | 1,998.8 |
| Nuclear | 1,087.2 | 1,322.7 | 1,493.4 | 1,595.9 | 1,662.3 | 1,388.5 |
| Geothermal | 31.5 | 34.1 | 43.4 | 47.5 | 53.0 | 53.4 |
| Others | 119.8 | 109.4 | 127.4 | 189.4 | 378.5 | 507.8 |
| Total | 6,945.7 | 7,993.3 | 9,363.0 | 11,252.7 | 13,470.9 | 14,338.9 |

| | Share (%) | | | | | |
|------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Thermal | 66.6 | 65.8 | 68.8 | 70.7 | 71.2 | 72.5 |
| Hydro | 15.6 | 15.8 | 13.5 | 13.0 | 13.3 | 13.9 |
| Nuclear | 15.7 | 16.5 | 16.0 | 14.2 | 12.3 | 9.7 |
| Geothermal | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 |
| Others | 1.7 | 1.4 | 1.4 | 1.7 | 2.8 | 3.5 |

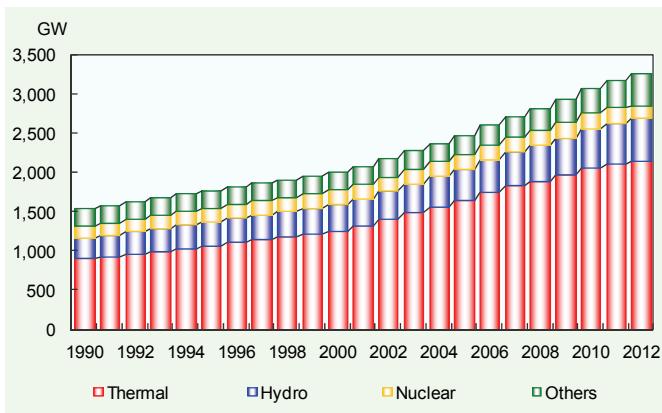
"Others" comprises power generated from renewable energy.

Transformation



Transformation

Power Generation Capacity by Type APEC 21

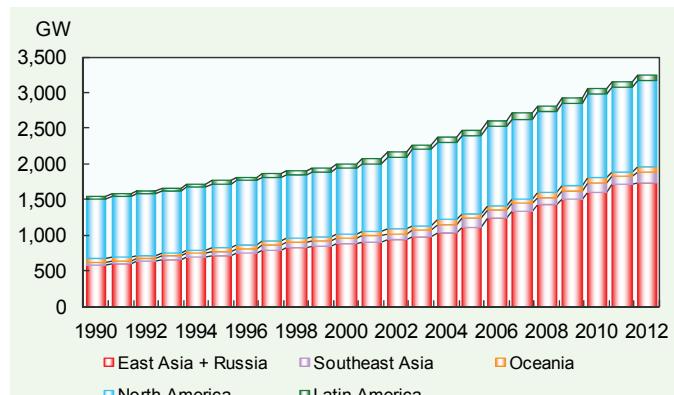


| | Share (%) | | | | | |
|---------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Thermal | 58.4 | 60.1 | 62.8 | 66.4 | 66.8 | 65.8 |
| Hydro | 17.1 | 17.4 | 17.2 | 15.9 | 16.3 | 16.6 |
| Nuclear | 10.2 | 9.8 | 8.8 | 7.8 | 6.4 | 4.7 |
| Others | 14.3 | 12.6 | 11.2 | 10.0 | 10.4 | 12.8 |

"Others" comprises power generated from renewable energy.

Transformation

Power Generation Capacity by Region APEC 21

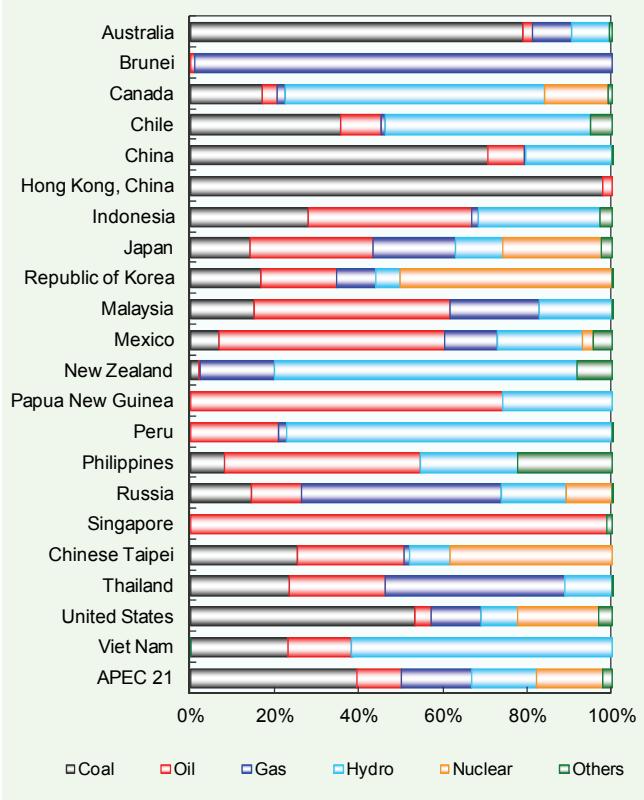


| | GW | | | | | |
|--------------------|---------|---------|---------|---------|---------|---------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| East Asia + Russia | 592.3 | 723.4 | 883.6 | 1,124.5 | 1,614.7 | 1,749.6 |
| Southeast Asia | 37.0 | 59.8 | 82.1 | 115.4 | 131.5 | 148.7 |
| Oceania | 46.1 | 50.6 | 55.1 | 58.7 | 68.0 | 69.3 |
| North America | 837.7 | 891.8 | 924.0 | 1,101.9 | 1,173.4 | 1,202.1 |
| Latin America | 35.6 | 46.0 | 56.3 | 71.3 | 86.5 | 90.0 |
| Total | 1,548.7 | 1,771.6 | 2,001.0 | 2,471.8 | 3,074.1 | 3,259.6 |

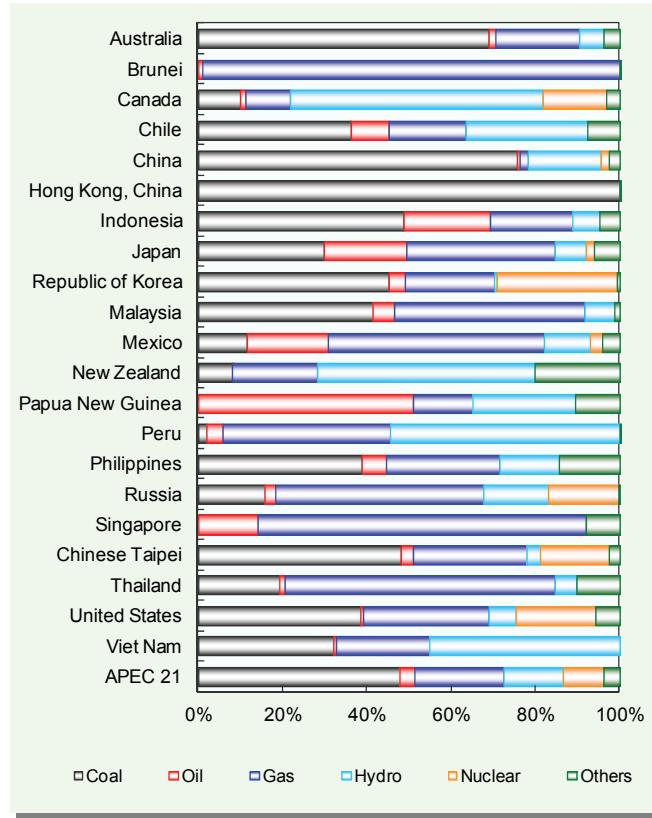
| | Share (%) | | | | | |
|--------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| East Asia + Russia | 38.2 | 40.8 | 44.2 | 45.5 | 52.5 | 53.7 |
| Southeast Asia | 2.4 | 3.4 | 4.1 | 4.7 | 4.3 | 4.6 |
| Oceania | 3.0 | 2.9 | 2.8 | 2.4 | 2.2 | 2.1 |
| North America | 54.1 | 50.3 | 46.2 | 44.6 | 38.2 | 36.9 |
| Latin America | 2.3 | 2.6 | 2.8 | 2.9 | 2.8 | 2.8 |

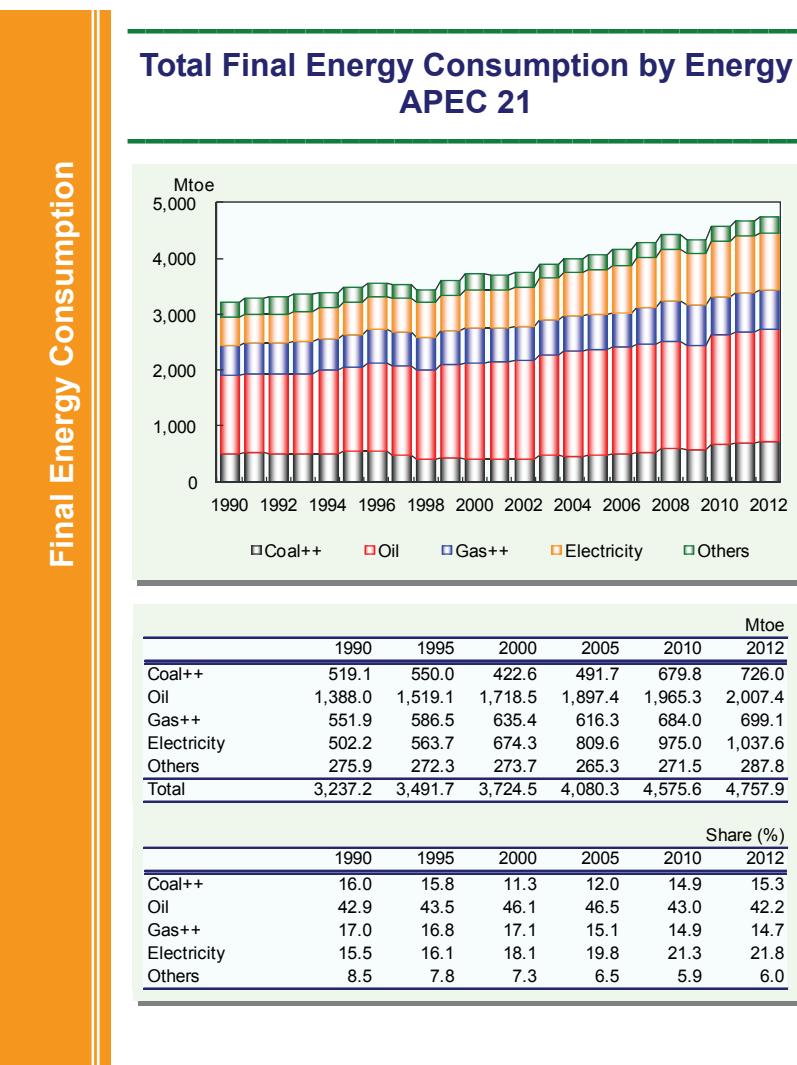
Transformation

**Electricity Power Generation by Economy
1990**



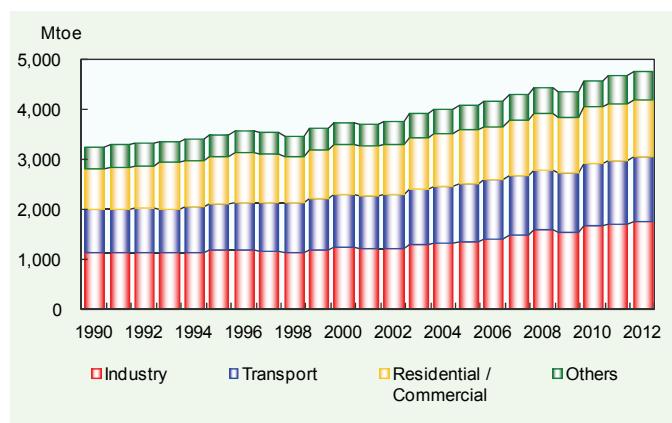
Electricity Power Generation by Economy 2012





Final Energy Consumption

Total Final Energy Consumption by Sector APEC 21

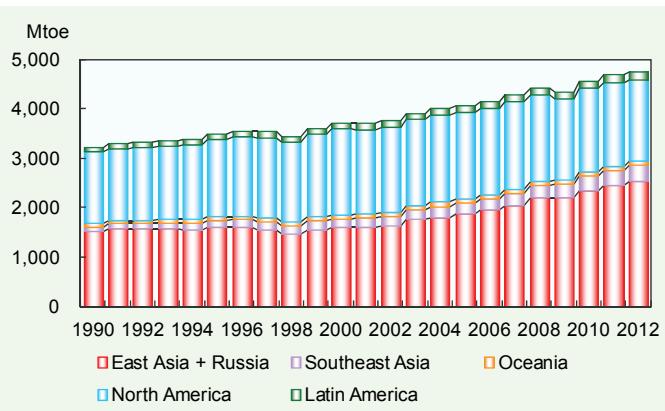


| | Mtoe | | | | | |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 1,131.6 | 1,186.2 | 1,250.2 | 1,347.7 | 1,677.7 | 1,762.7 |
| Transport | 862.4 | 927.1 | 1,044.5 | 1,167.8 | 1,235.9 | 1,283.3 |
| Residential / Commercial | 819.6 | 951.8 | 998.7 | 1,070.9 | 1,136.4 | 1,142.9 |
| Others | 423.7 | 426.6 | 431.1 | 493.8 | 525.5 | 568.9 |
| Total | 3,237.2 | 3,491.7 | 3,724.5 | 4,080.3 | 4,575.6 | 4,757.9 |

| | Share (%) | | | | | |
|--------------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 35.0 | 34.0 | 33.6 | 33.0 | 36.7 | 37.0 |
| Transport | 26.6 | 26.6 | 28.0 | 28.6 | 27.0 | 27.0 |
| Residential / Commercial | 25.3 | 27.3 | 26.8 | 26.2 | 24.8 | 24.0 |
| Others | 13.1 | 12.2 | 11.6 | 12.1 | 11.5 | 12.0 |

Final Energy Consumption

Total Final Energy Consumption by Region APEC 21

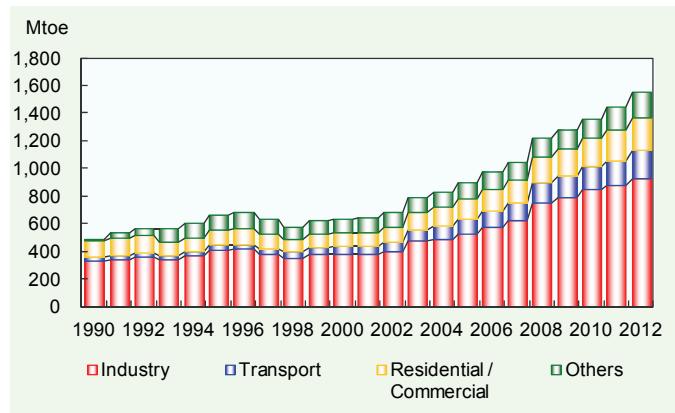


| | Mtoe | | | | | |
|--------------------|---------|---------|---------|---------|---------|---------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| East Asia + Russia | 1,521.6 | 1,611.6 | 1,606.5 | 1,877.2 | 2,352.5 | 2,551.6 |
| Southeast Asia | 96.7 | 145.2 | 174.5 | 220.7 | 285.7 | 318.2 |
| Oceania | 66.8 | 74.2 | 83.4 | 85.8 | 90.5 | 92.9 |
| North America | 1,450.4 | 1,548.4 | 1,732.2 | 1,760.5 | 1,696.9 | 1,638.6 |
| Latin America | 101.6 | 112.3 | 127.9 | 136.1 | 150.0 | 156.6 |
| Total | 3,237.2 | 3,491.7 | 3,724.5 | 4,080.3 | 4,575.6 | 4,757.9 |

| | Share (%) | | | | | |
|--------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| East Asia + Russia | 47.0 | 46.2 | 43.1 | 46.0 | 51.4 | 53.6 |
| Southeast Asia | 3.0 | 4.2 | 4.7 | 5.4 | 6.2 | 6.7 |
| Oceania | 2.1 | 2.1 | 2.2 | 2.1 | 2.0 | 2.0 |
| North America | 44.8 | 44.3 | 46.5 | 43.1 | 37.1 | 34.4 |
| Latin America | 3.1 | 3.2 | 3.4 | 3.3 | 3.3 | 3.3 |

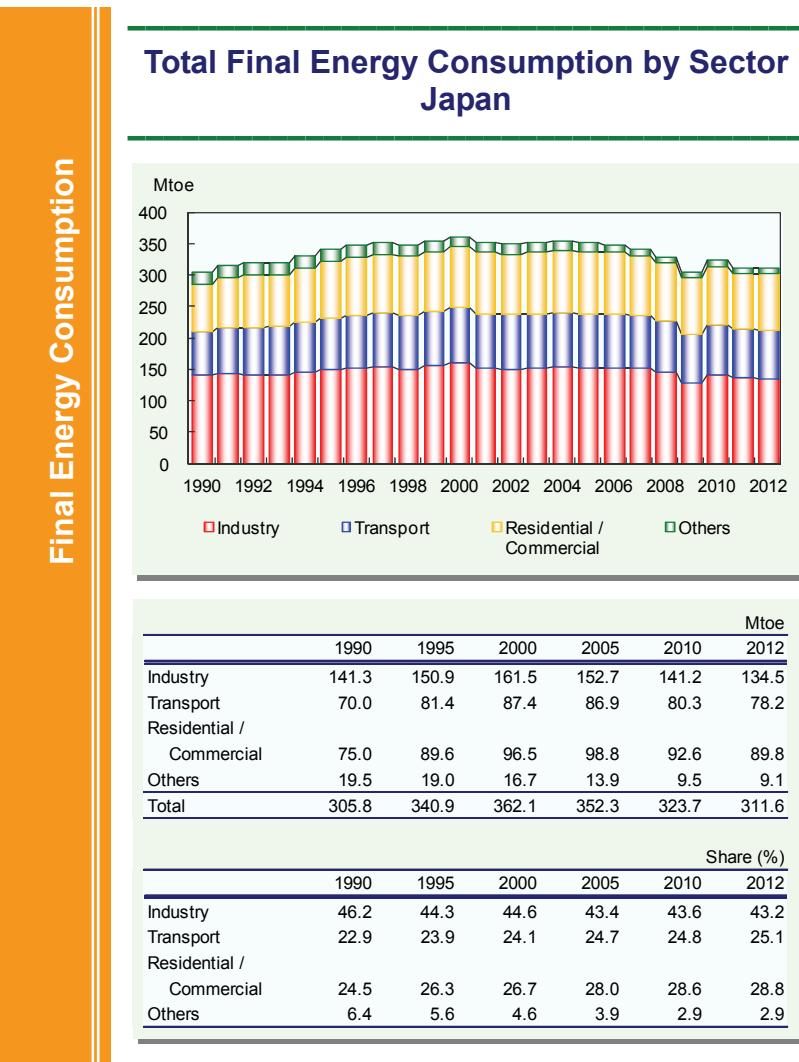
Final Energy Consumption

Total Final Energy Consumption by Sector China



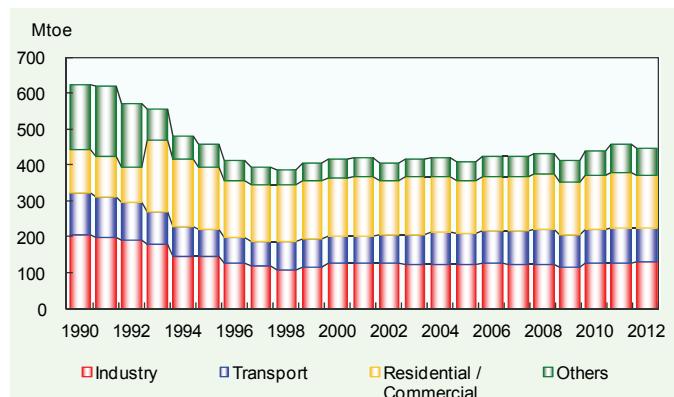
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|--------------------------|-------|-------|-------|-------|---------|---------|------|
| Industry | 329.8 | 410.0 | 379.3 | 527.9 | 848.6 | 932.0 | |
| Transport | 28.8 | 36.4 | 60.1 | 105.0 | 166.5 | 202.7 | |
| Residential / Commercial | 118.4 | 107.0 | 96.0 | 153.4 | 204.4 | 236.8 | |
| Others | 13.0 | 107.3 | 99.3 | 117.4 | 136.3 | 180.8 | |
| Total | 480.9 | 660.7 | 634.7 | 903.6 | 1,355.9 | 1,552.5 | |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Share (%) |
|--------------------------|------|------|------|------|------|------|-----------|
| Industry | 67.3 | 62.1 | 59.8 | 58.4 | 62.6 | 60.0 | |
| Transport | 5.9 | 5.5 | 9.5 | 11.6 | 12.3 | 13.1 | |
| Residential / Commercial | 24.2 | 16.2 | 15.1 | 17.0 | 15.1 | 15.3 | |
| Others | 2.6 | 16.2 | 15.6 | 13.0 | 10.1 | 11.6 | |



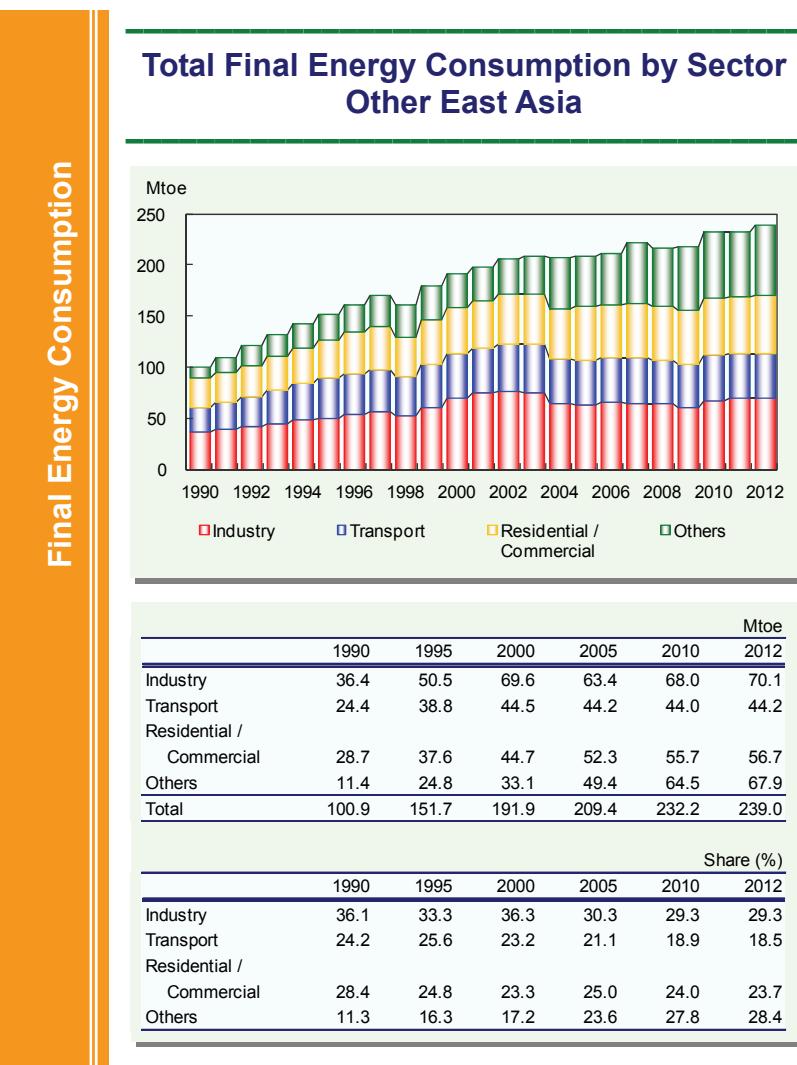
Final Energy Consumption

Total Final Energy Consumption by Sector Russia



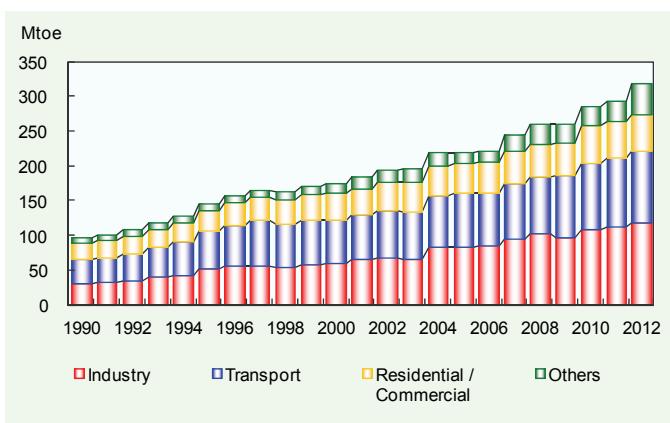
| | Mtoe | | | | | |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 208.7 | 146.7 | 128.6 | 123.7 | 126.6 | 131.4 |
| Transport | 115.9 | 76.1 | 74.5 | 88.6 | 96.5 | 93.6 |
| Residential / Commercial | 119.7 | 172.4 | 162.9 | 145.3 | 148.5 | 145.8 |
| Others | 180.7 | 63.1 | 51.9 | 54.4 | 69.1 | 77.7 |
| Total | 625.0 | 458.3 | 417.9 | 412.0 | 440.7 | 448.6 |

| | Share (%) | | | | | |
|--------------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 33.4 | 32.0 | 30.8 | 30.0 | 28.7 | 29.3 |
| Transport | 18.5 | 16.6 | 17.8 | 21.5 | 21.9 | 20.9 |
| Residential / Commercial | 19.2 | 37.6 | 39.0 | 35.3 | 33.7 | 32.5 |
| Others | 28.9 | 13.8 | 12.4 | 13.2 | 15.7 | 17.3 |



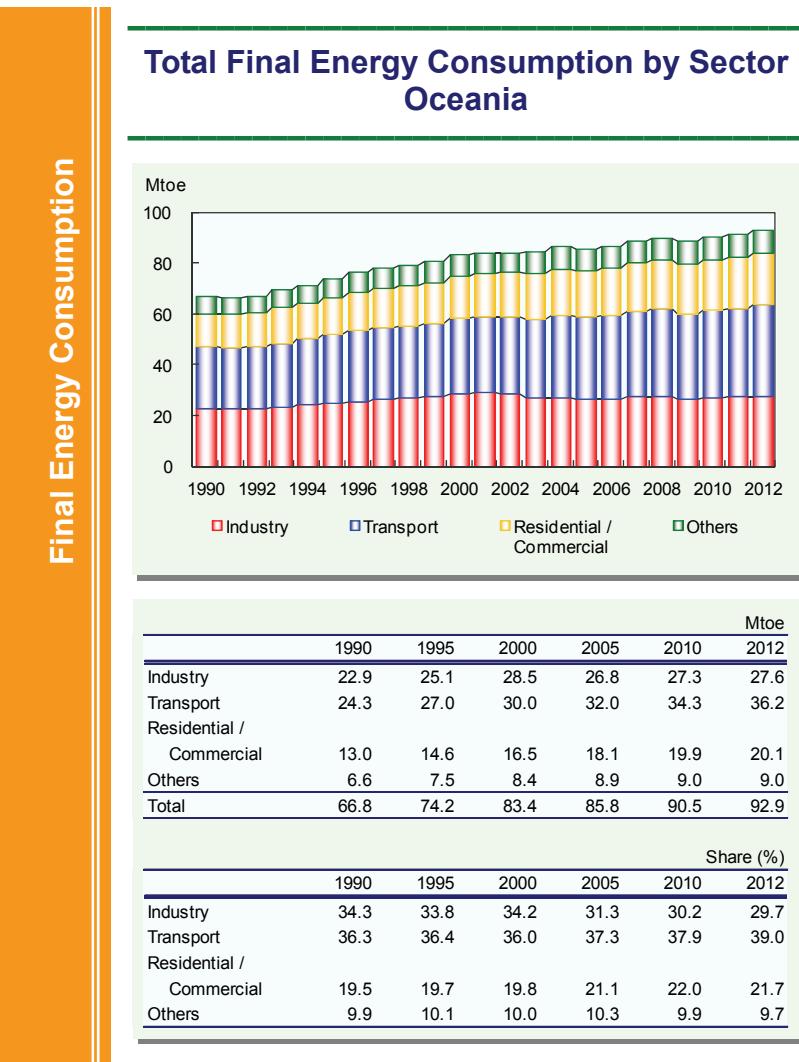
Final Energy Consumption

Total Final Energy Consumption by Sector Southeast Asia



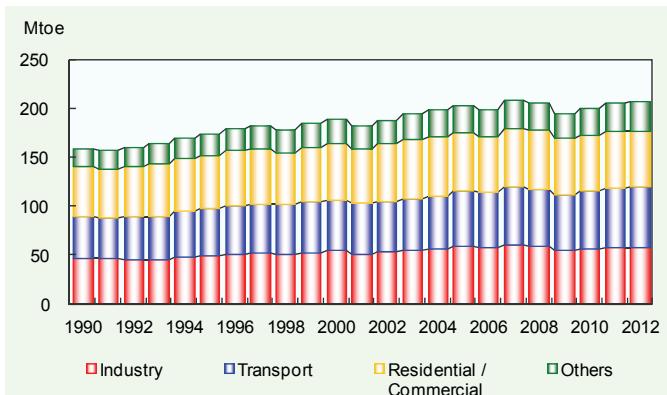
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|--------------------------|-------------|--------------|--------------|--------------|--------------|--------------|------|
| Industry | 31.4 | 52.4 | 60.7 | 84.3 | 109.5 | 118.2 | |
| Transport | 34.3 | 54.0 | 62.4 | 77.7 | 94.9 | 103.4 | |
| Residential / Commercial | 23.1 | 29.5 | 38.4 | 43.1 | 54.5 | 53.3 | |
| Others | 8.0 | 9.2 | 13.0 | 15.6 | 26.8 | 43.3 | |
| Total | 96.7 | 145.2 | 174.5 | 220.7 | 285.7 | 318.2 | |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Share (%) |
|--------------------------|------|------|------|------|------|------|-----------|
| Industry | 32.4 | 36.1 | 34.8 | 38.2 | 38.3 | 37.1 | |
| Transport | 35.5 | 37.2 | 35.7 | 35.2 | 33.2 | 32.5 | |
| Residential / Commercial | 23.8 | 20.3 | 22.0 | 19.5 | 19.1 | 16.8 | |
| Others | 8.3 | 6.4 | 7.5 | 7.1 | 9.4 | 13.6 | |



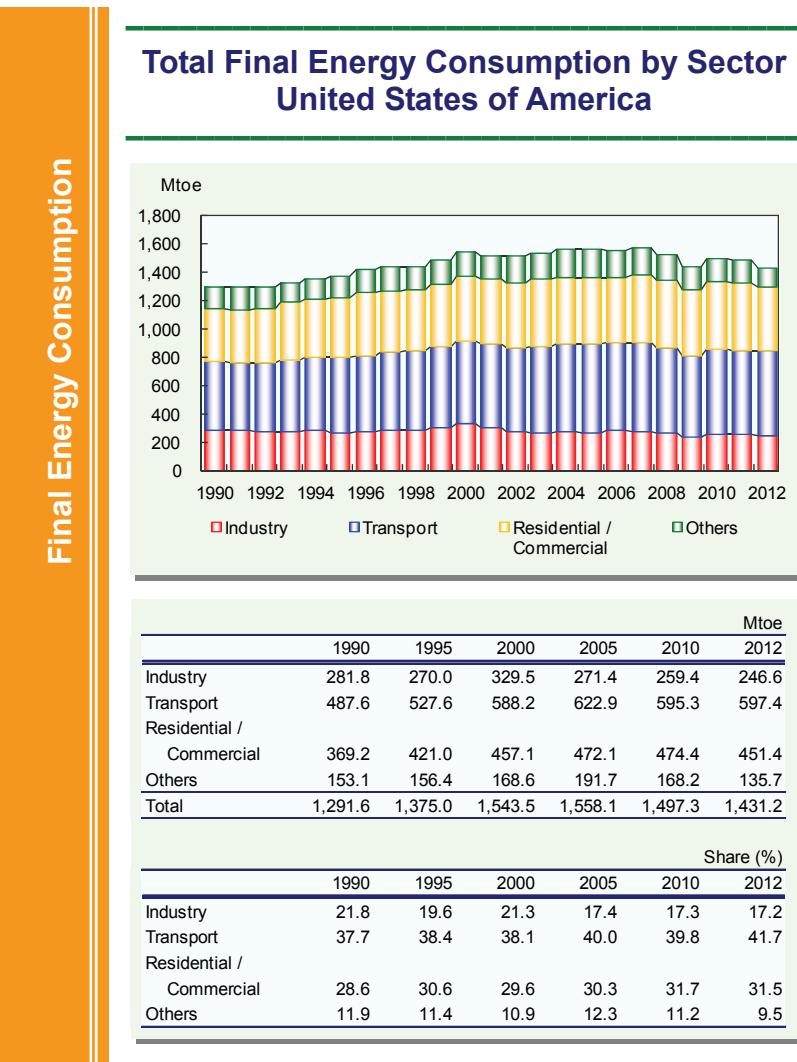
Final Energy Consumption

Total Final Energy Consumption by Sector Canada



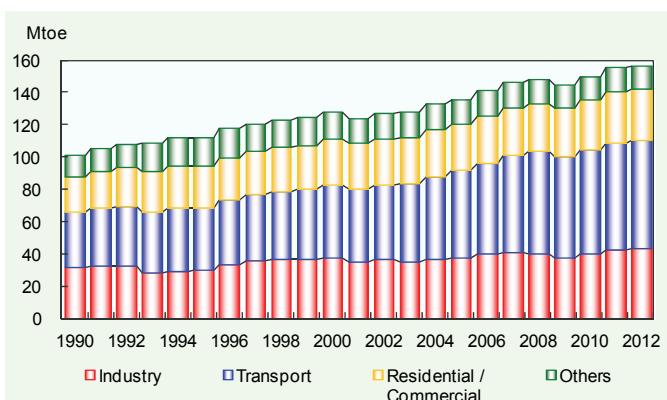
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| Industry | 47.3 | 50.1 | 54.7 | 59.7 | 57.1 | 58.7 | |
| Transport | 43.1 | 47.8 | 52.1 | 56.5 | 59.2 | 60.8 | |
| Residential / Commercial | 50.4 | 53.8 | 58.0 | 59.4 | 56.0 | 57.2 | |
| Others | 17.9 | 21.7 | 23.9 | 26.8 | 27.4 | 30.7 | |
| Total | 158.8 | 173.4 | 188.7 | 202.4 | 199.6 | 207.4 | |

| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Share (%) |
|--------------------------|------|------|------|------|------|------|-----------|
| Industry | 29.8 | 28.9 | 29.0 | 29.5 | 28.6 | 28.3 | |
| Transport | 27.2 | 27.5 | 27.6 | 27.9 | 29.6 | 29.3 | |
| Residential / Commercial | 31.8 | 31.0 | 30.7 | 29.3 | 28.0 | 27.6 | |
| Others | 11.3 | 12.5 | 12.7 | 13.2 | 13.7 | 14.8 | |



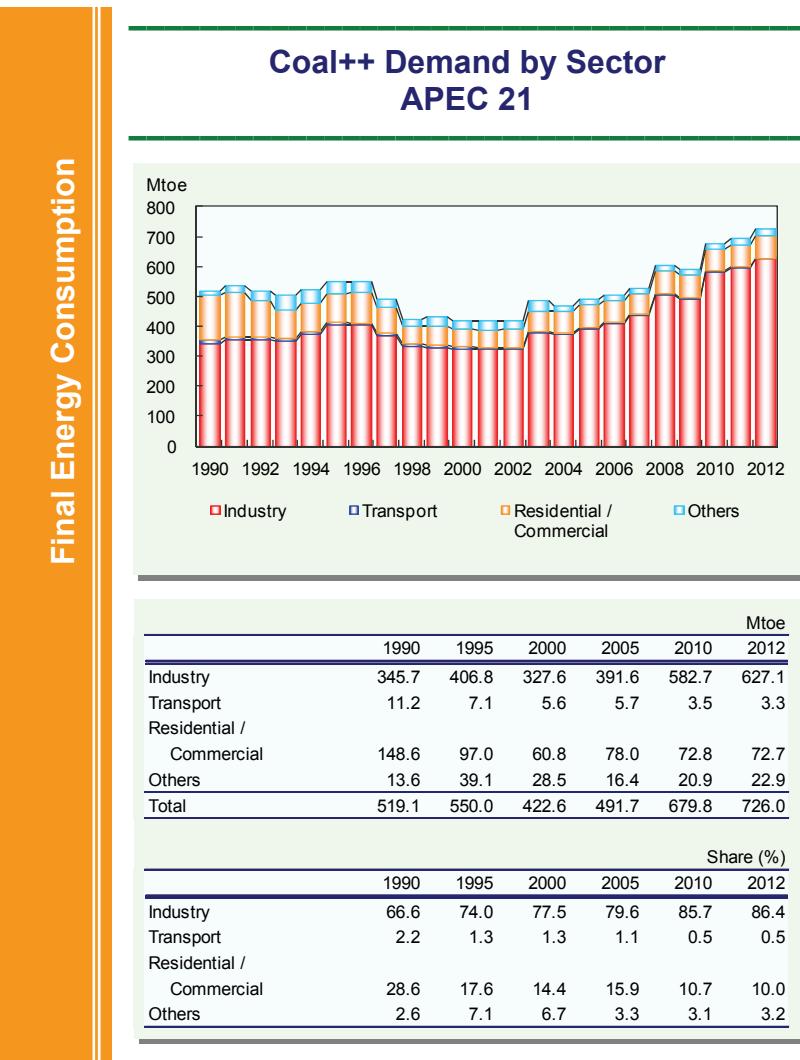
Final Energy Consumption

Total Final Energy Consumption by Sector Latin America



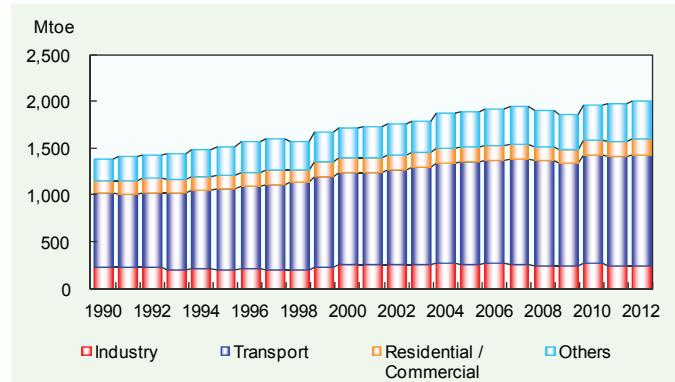
| | Mtoe | | | | | |
|--------------------------|-------|-------|-------|-------|-------|-------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 31.9 | 30.4 | 37.9 | 37.7 | 40.0 | 43.5 |
| Transport | 34.1 | 38.1 | 45.2 | 54.1 | 65.0 | 66.7 |
| Residential / Commercial | 22.1 | 26.2 | 28.6 | 28.6 | 30.3 | 31.7 |
| Others | 13.5 | 17.6 | 16.2 | 15.7 | 14.6 | 14.6 |
| Total | 101.6 | 112.3 | 127.9 | 136.1 | 150.0 | 156.6 |

| | Share (%) | | | | | |
|--------------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 31.4 | 27.1 | 29.6 | 27.7 | 26.6 | 27.8 |
| Transport | 33.5 | 33.9 | 35.4 | 39.8 | 43.4 | 42.6 |
| Residential / Commercial | 21.8 | 23.3 | 22.3 | 21.0 | 20.2 | 20.3 |
| Others | 13.3 | 15.7 | 12.7 | 11.5 | 9.8 | 9.3 |



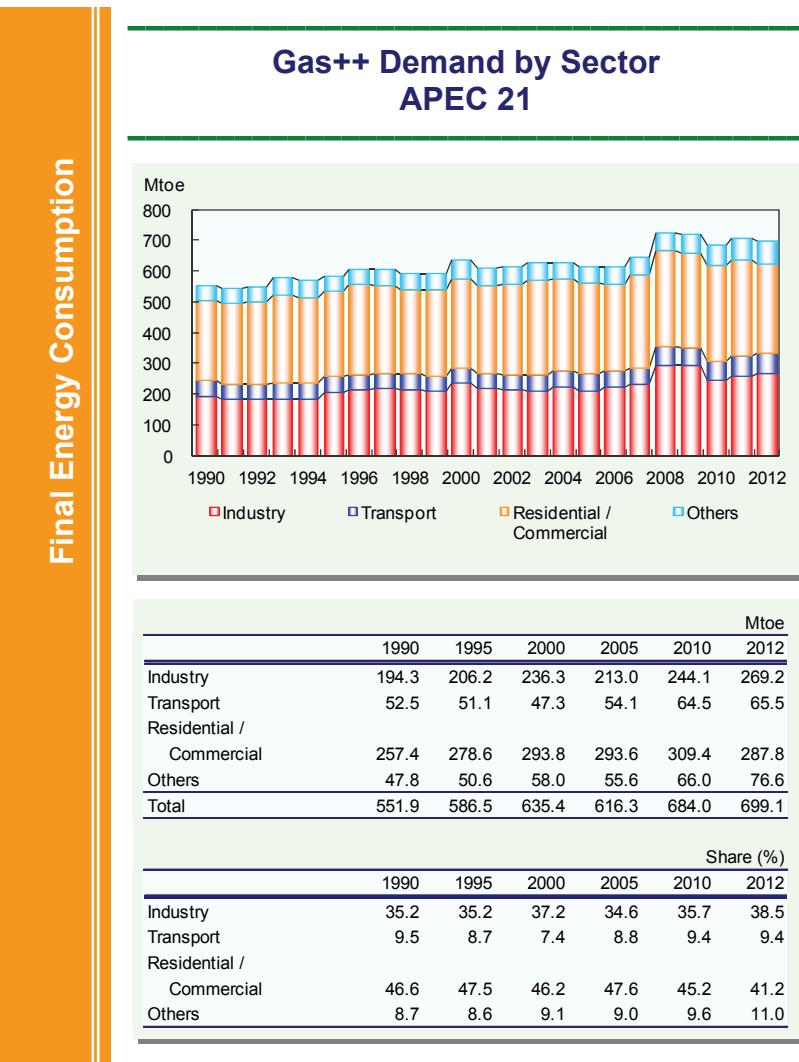
Final Energy Consumption

Oil Demand by Sector APEC 21



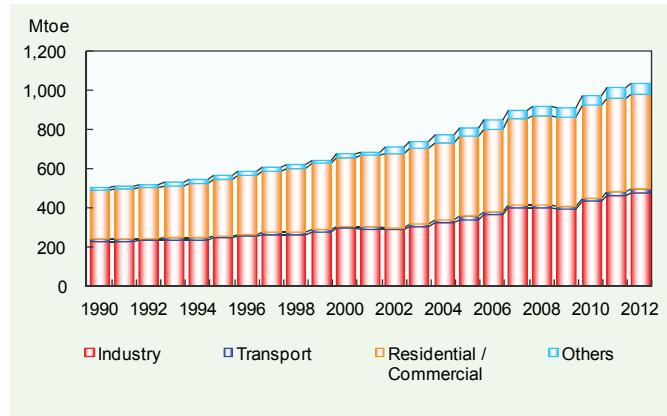
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | Mtoe |
|--------------------------|---------|---------|---------|---------|---------|---------|------|
| Industry | 237.9 | 204.9 | 256.0 | 264.4 | 275.5 | 241.7 | |
| Transport | 786.2 | 858.7 | 980.6 | 1,093.6 | 1,150.7 | 1,194.9 | |
| Residential / Commercial | 135.1 | 147.5 | 163.9 | 164.4 | 157.3 | 168.4 | |
| Others | 228.9 | 308.0 | 318.0 | 375.1 | 381.8 | 402.4 | |
| Total | 1,388.0 | 1,519.1 | 1,718.5 | 1,897.4 | 1,965.3 | 2,007.4 | |

| | Share (%) | | | | | |
|--------------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 17.1 | 13.5 | 14.9 | 13.9 | 14.0 | 12.0 |
| Transport | 56.6 | 56.5 | 57.1 | 57.6 | 58.6 | 59.5 |
| Residential / Commercial | 9.7 | 9.7 | 9.5 | 8.7 | 8.0 | 8.4 |
| Others | 16.5 | 20.3 | 18.5 | 19.8 | 19.4 | 20.0 |



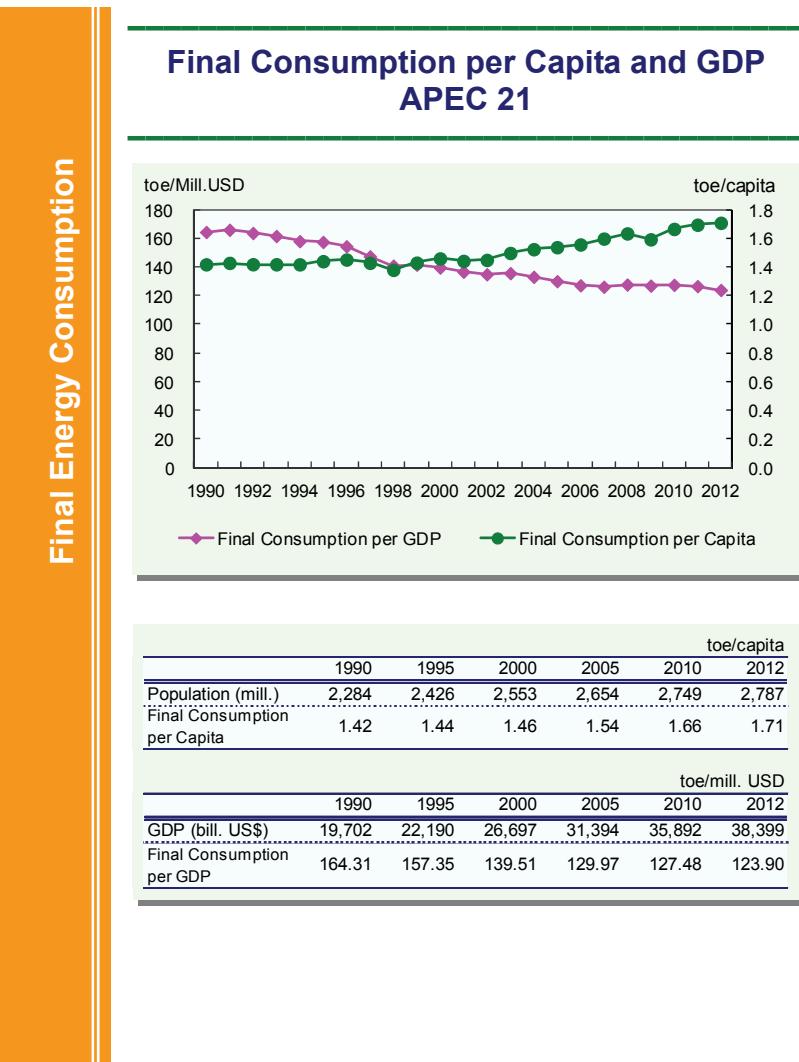
Final Energy Consumption

Electricity Demand by Sector APEC 21

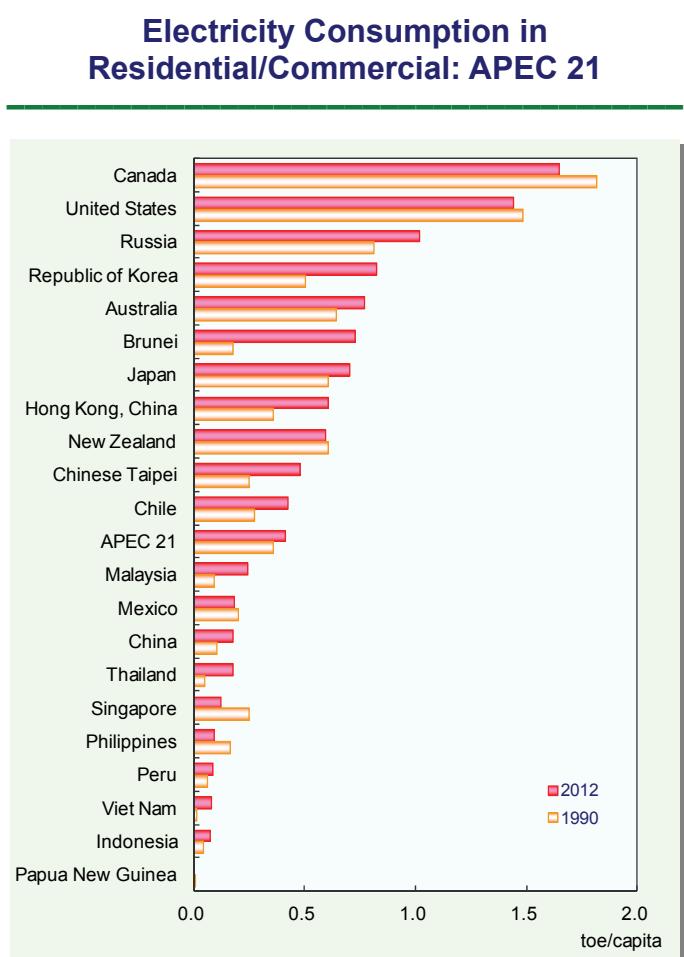


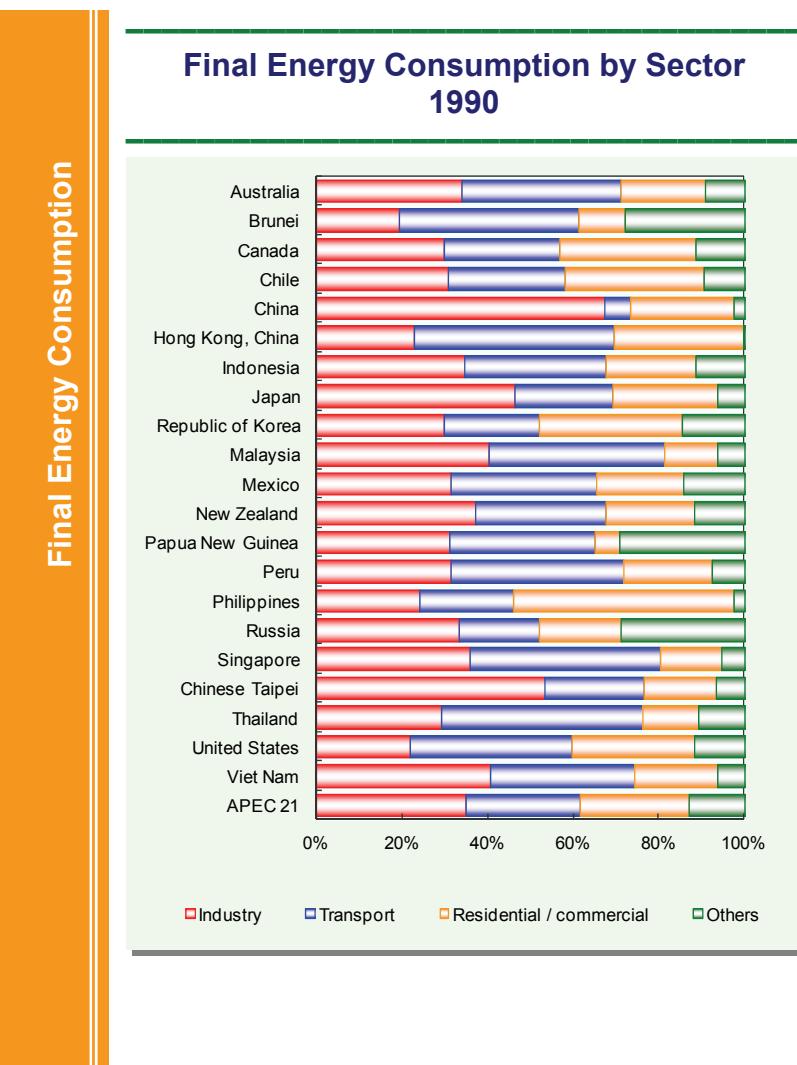
| | Mtoe | | | | | |
|--------------------------|-------|-------|-------|-------|-------|---------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 229.7 | 246.0 | 293.3 | 341.2 | 432.3 | 476.6 |
| Transport | 12.6 | 10.1 | 10.9 | 14.5 | 17.2 | 19.6 |
| Residential / Commercial | 246.8 | 291.6 | 352.6 | 412.1 | 474.3 | 482.9 |
| Others | 13.1 | 16.0 | 17.5 | 41.9 | 51.1 | 58.5 |
| Total | 502.2 | 563.7 | 674.3 | 809.6 | 975.0 | 1,037.6 |

| | Share (%) | | | | | |
|--------------------------|-----------|------|------|------|------|------|
| | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 |
| Industry | 45.7 | 43.6 | 43.5 | 42.1 | 44.3 | 45.9 |
| Transport | 2.5 | 1.8 | 1.6 | 1.8 | 1.8 | 1.9 |
| Residential / Commercial | 49.1 | 51.7 | 52.3 | 50.9 | 48.6 | 46.5 |
| Others | 2.6 | 2.8 | 2.6 | 5.2 | 5.2 | 5.6 |



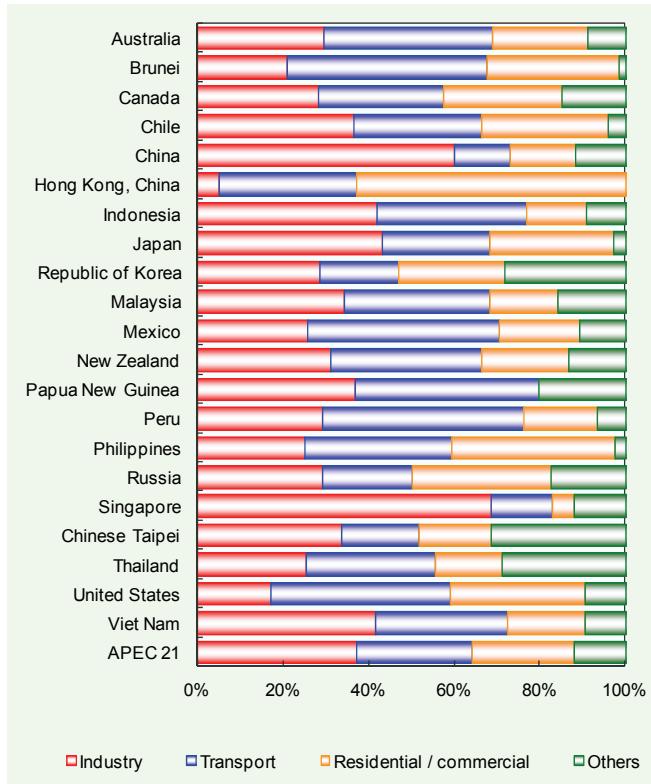
Final Energy Consumption

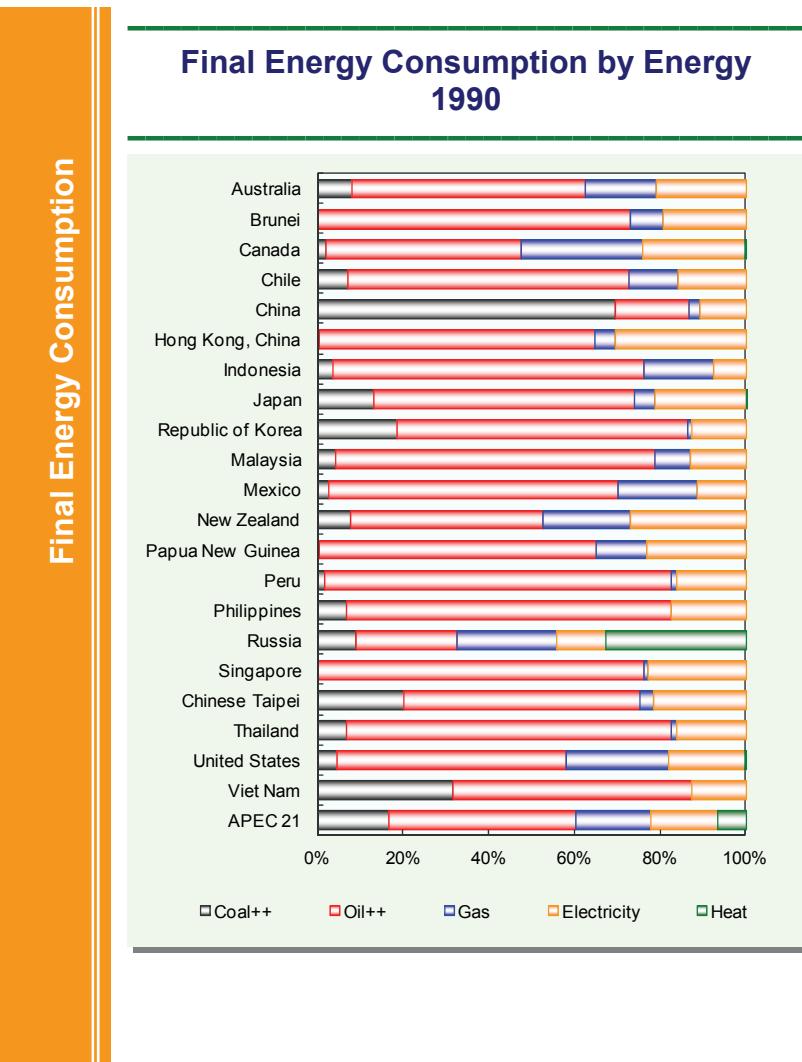




Final Energy Consumption

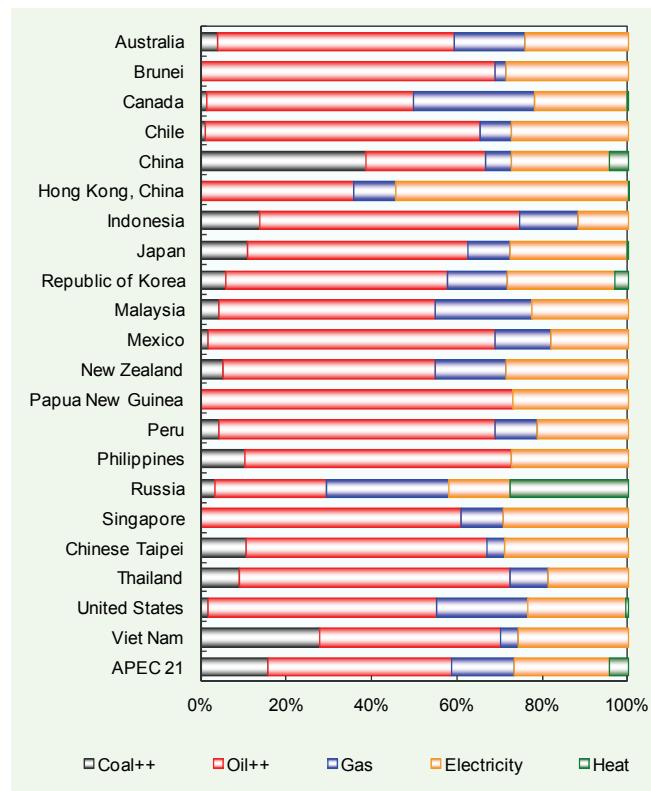
**Final Energy Consumption by Sector
2012**





Final Energy Consumption

**Final Energy Consumption by Energy
2012**



Energy Balances

APEC 21, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|------------|---------------|----------------|--------------------|
| 1 Indigenous Production | 3,112,539 | - | 1,634,016 | - |
| 2 Import | 442,100 | 9,637 | 1,326,741 | 479,915 |
| 3 Export | -568,042 | -4,306 | -524,598 | -509,540 |
| 4 International Marine Bunkers | - | - | - | -86,190 |
| 5 International Aviation Bunkers | - | - | - | -71,308 |
| 6 Stock Change | -69,272 | 446 | -10,906 | -5,222 |
| 7 Total Primary Energy Supply | 2,917,325 | 5,777 | 2,425,254 | -192,345 |
| 8 Transfers | - | - | -68,636 | 88,805 |
| 9 Main Activity Peoducer | -1,539,184 | -7,365 | -12,988 | -67,119 |
| 10 Autoproducers | -178,146 | -33,766 | -810 | -31,251 |
| 11 Gas Processing | -6,347 | -371 | 803 | -2,494 |
| 12 Petroleum Refineries | - | - | -2,362,632 | 2,355,262 |
| 13 Coal Transformation | -441,095 | 200,468 | - | -893 |
| 14 Other Transformation | - | - | 45,545 | -64,390 |
| 15 Loss & Own Use | -56,935 | -16,611 | -10,829 | -89,708 |
| 16 Discrepancy | -101,169 | -16,576 | -5,840 | 1,620 |
| 17 Total Final Energy Consumption | 594,449 | 131,557 | 9,867 | 1,997,485 |
| 18 Industry Sector | 502,015 | 125,119 | 239 | 241,413 |
| 19 Transport Sector | 3,315 | 1 | - | 1,194,885 |
| 20 Other Sector | 89,118 | 6,438 | 52 | 260,667 |
| 20.1 Residential & Commercial | 66,808 | 5,874 | - | 168,366 |
| 20.2 Agriculture | 9,825 | 391 | 10 | 51,742 |
| 20.3 Other | 12,485 | 173 | 42 | 40,558 |
| 21 Non-energy | - | - | 9,576 | 300,520 |

Australia, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|----------|---------------|----------------|--------------------|
| 1 Indigenous Production | 239,898 | - | 23,007 | - |
| 2 Import | - | 24 | 24,086 | 18,167 |
| 3 Export | -194,620 | - | -14,625 | -2,317 |
| 4 International Marine Bunkers | - | - | - | -859 |
| 5 International Aviation Bunkers | - | - | - | -3,183 |
| 6 Stock Change | 1,957 | -359 | 289 | -149 |
| 7 Total Primary Energy Supply | 47,235 | -335 | 32,758 | 11,658 |
| 8 Transfers | - | - | 272 | 4,006 |
| 9 Main Activity Peoducer | -42,156 | -33 | - | -207 |
| 10 Autoproducers | - | -69 | - | -659 |
| 11 Gas Processing | - | - | - | -6 |
| 12 Petroleum Refineries | - | - | -33,154 | 31,229 |
| 13 Coal Transformation | -3,221 | 1,655 | - | - |
| 14 Other Transformation | - | - | 324 | - |
| 15 Loss & Own Use | - | -550 | -58 | -3,758 |
| 16 Discrepancy | 123 | 134 | -127 | -954 |
| 17 Total Final Energy Consumption | 1,981 | 802 | 14 | 41,309 |
| 18 Industry Sector | 1,827 | 783 | 14 | 3,992 |
| 19 Transport Sector | 148 | - | - | 30,185 |
| 20 Other Sector | 6 | 19 | - | 2,960 |
| 20.1 Residential & Commercial | 6 | 19 | - | 934 |
| 20.2 Agriculture | - | - | - | 2,026 |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | - | 4,172 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|----------|----------|----------------------------|---------|-------------|---------|------------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 1,616,904 | 171,524 | 361,860 | 65,283 | 165,224 | - | - | 7,127,349 |
| 362,270 | - | - | - | 1,354 | 9,454 | - | 2,631,470 |
| -367,211 | - | - | - | -1,040 | -10,167 | - | -1,984,903 |
| - | - | - | - | - | - | - | -86,190 |
| - | - | - | - | - | - | - | -71,308 |
| 2,099 | - | - | - | 211 | - | - | 83,067 |
| 1,614,061 | 171,524 | 361,860 | 65,283 | 165,326 | -713 | - | 7,533,351 |
| - | - | - | - | - | - | - | 20,168 |
| -603,191 | -167,648 | -361,860 | -59,866 | -20,619 | 1,129,172 | 118,442 | -1,592,227 |
| -125,755 | -3,876 | - | -2,467 | -33,283 | 103,896 | 134,160 | -171,298 |
| -10,558 | - | - | - | - | - | - | -18,966 |
| - | - | - | - | - | - | - | -7,370 |
| -63 | - | - | - | - | - | - | -241,582 |
| -2,574 | - | - | - | -37,918 | - | - | -59,337 |
| -172,786 | - | 0 | - | -207 | -193,161 | -45,639 | -585,877 |
| -36 | 0 | - | -0 | 4,193 | -1,629 | 428 | -119,009 |
| 699,099 | - | - | 2,949 | 77,493 | 1,037,564 | 207,390 | 4,757,852 |
| 269,156 | - | - | 276 | 44,056 | 476,612 | 103,807 | 1,762,692 |
| 65,503 | - | - | - | - | 19,586 | - | 1,283,290 |
| 293,682 | - | - | 2,673 | 33,437 | 541,365 | 103,583 | 1,331,016 |
| 287,832 | - | - | 2,647 | 32,841 | 482,900 | 95,680 | 1,142,949 |
| 2,706 | - | - | 26 | 590 | 16,391 | 5,235 | 86,916 |
| 3,144 | - | - | 0 | 6 | 42,074 | 2,668 | 101,150 |
| 70,758 | - | - | - | - | - | - | 380,854 |

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|----------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 47,302 | 1,206 | - | 927 | 5,061 | - | - | 317,402 |
| 4,997 | - | - | - | - | - | - | 47,273 |
| -22,516 | - | - | - | - | - | - | -234,078 |
| - | - | - | - | - | - | - | -859 |
| - | - | - | - | - | - | - | -3,183 |
| - | - | - | - | - | - | - | 1,739 |
| 29,782 | 1,206 | - | 927 | 5,061 | - | - | 128,293 |
| - | - | - | - | - | - | - | 4,278 |
| -8,484 | -1,206 | - | -527 | -181 | 19,803 | - | -32,993 |
| -2,602 | - | - | -128 | -496 | 1,601 | - | -2,352 |
| -255 | - | - | - | - | - | - | -261 |
| - | - | - | - | - | - | - | -1,925 |
| -62 | - | - | - | - | - | - | -1,628 |
| - | - | - | - | -324 | - | - | -0 |
| -6,215 | - | - | - | - | -3,402 | - | -13,982 |
| 199 | - | - | - | 0 | 0 | - | -625 |
| 12,364 | - | - | 272 | 4,060 | 18,002 | - | 78,805 |
| 6,941 | - | - | - | 2,686 | 6,876 | - | 23,120 |
| 475 | - | - | - | - | 350 | - | 31,158 |
| 4,298 | - | - | 272 | 1,374 | 10,776 | - | 19,704 |
| 4,295 | - | - | 272 | 1,374 | 10,577 | - | 17,477 |
| 3 | - | - | - | - | 199 | - | 2,227 |
| - | - | - | - | - | - | - | - |
| 650 | - | - | - | - | - | - | 4,822 |

Energy Balances

Brunei Darussalam, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|------|---------------|----------------|--------------------|
| 1 Indigenous Production | - | - | 8,448 | - |
| 2 Import | - | - | 8 | 377 |
| 3 Export | - | - | -7,896 | -77 |
| 4 International Marine Bunkers | - | - | - | - |
| 5 International Aviation Bunkers | - | - | - | -85 |
| 6 Stock Change | - | - | -31 | 6 |
| 7 Total Primary Energy Supply | - | - | 530 | 220 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | - | - | - | -11 |
| 10 Autoproducers | - | - | - | - |
| 11 Gas Processing | - | - | - | 17 |
| 12 Petroleum Refineries | - | - | -513 | 438 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | - | - |
| 15 Loss & Own Use | - | - | - | -12 |
| 16 Discrepancy | - | - | -17 | 13 |
| 17 Total Final Energy Consumption | - | - | - | 666 |
| 18 Industry Sector | - | - | - | 185 |
| 19 Transport Sector | - | - | - | 451 |
| 20 Other Sector | - | - | - | 17 |
| 20.1 Residential & Commercial | - | - | - | 17 |
| 20.2 Agriculture | - | - | - | 0 |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | - | 14 |

Canada, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|---------|---------------|----------------|--------------------|
| 1 Indigenous Production | 33,541 | - | 185,582 | - |
| 2 Import | 5,403 | 223 | 36,541 | 12,722 |
| 3 Export | -20,513 | -275 | -128,180 | -23,383 |
| 4 International Marine Bunkers | - | - | - | -492 |
| 5 International Aviation Bunkers | - | - | - | -1,004 |
| 6 Stock Change | 80 | -93 | 640 | 38 |
| 7 Total Primary Energy Supply | 18,509 | -146 | 94,583 | -12,118 |
| 8 Transfers | - | - | -5,835 | 20,074 |
| 9 Main Activity Peoducer | -14,393 | - | - | -1,224 |
| 10 Autoproducers | -1 | - | - | -533 |
| 11 Gas Processing | - | - | 803 | - |
| 12 Petroleum Refineries | - | - | -96,373 | 97,177 |
| 13 Coal Transformation | -2,505 | 1,100 | - | - |
| 14 Other Transformation | - | - | 1,763 | - |
| 15 Loss & Own Use | - | - | - | -8,276 |
| 16 Discrepancy | -199 | 247 | 5,059 | 1,228 |
| 17 Total Final Energy Consumption | 1,412 | 1,202 | - | 96,327 |
| 18 Industry Sector | 1,396 | 1,202 | - | 7,519 |
| 19 Transport Sector | - | - | - | 57,961 |
| 20 Other Sector | 16 | - | - | 8,343 |
| 20.1 Residential & Commercial | 16 | - | - | 5,232 |
| 20.2 Agriculture | - | - | - | 3,111 |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | - | 22,504 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 11,568 | - | - | 0 | - | - | - | 20,016 |
| - | - | - | - | - | - | - | 384 |
| -8,899 | - | - | - | - | - | - | -16,872 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -85 |
| -12 | - | - | - | - | - | - | -37 |
| 2,656 | - | - | 0 | - | - | - | 3,406 |
| - | - | - | - | - | - | - | - |
| -1,107 | - | - | -0 | - | 303 | - | -815 |
| -217 | - | - | - | - | 35 | - | -182 |
| -256 | - | - | - | - | - | - | -239 |
| - | - | - | - | - | - | - | -74 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| -1,064 | - | - | - | - | -62 | - | -1,138 |
| 13 | - | - | - | - | -0 | - | 9 |
| 26 | - | - | - | - | 276 | - | 968 |
| - | - | - | - | - | 18 | - | 203 |
| - | - | - | - | - | - | - | 451 |
| 26 | - | - | - | - | 258 | - | 300 |
| 26 | - | - | - | - | 258 | - | 300 |
| - | - | - | - | - | - | - | 0 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 14 |

| Unit: ktoe | | | | | | | |
|---------------------|---------|---------|----------------------------|--------|-------------|------|----------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 129,952 | 32,724 | 24,721 | 1,004 | 12,199 | - | - | 419,723 |
| 26,077 | - | - | - | 883 | 936 | - | 82,785 |
| -73,524 | - | - | - | -679 | -4,976 | - | -251,532 |
| - | - | - | - | - | - | - | -492 |
| - | - | - | - | - | - | - | -1,004 |
| 1,003 | - | - | - | - | - | - | 1,668 |
| 83,507 | 32,724 | 24,721 | 1,004 | 12,403 | -4,040 | - | 251,148 |
| - | - | - | - | - | - | - | 14,239 |
| -11,113 | -29,969 | -24,721 | -1,003 | -10 | 49,641 | 513 | -32,279 |
| -3,197 | -2,755 | - | -0 | -2,168 | 4,912 | 50 | -3,692 |
| -2,312 | - | - | - | - | - | - | -1,509 |
| - | - | - | - | - | - | - | 805 |
| - | - | - | - | - | - | - | -1,405 |
| -902 | - | - | - | -1,763 | - | - | -901 |
| -14,312 | - | - | - | -1 | -7,357 | - | -29,947 |
| 4,577 | - | - | 0 | -0 | 9 | 27 | 10,948 |
| 56,250 | - | - | - | 8,461 | 43,165 | 591 | 207,406 |
| 25,926 | - | - | - | 5,921 | 16,127 | 590 | 58,682 |
| 2,478 | - | - | - | - | 361 | - | 60,800 |
| 24,378 | - | - | - | 2,540 | 26,677 | 0 | 61,954 |
| 23,571 | - | - | - | 2,539 | 25,890 | 0 | 57,248 |
| 807 | - | - | - | 0 | 788 | - | 4,706 |
| - | - | - | - | - | - | - | - |
| 3,467 | - | - | - | - | - | - | 25,971 |

Energy Balances

Chile, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|--------|---------------|----------------|--------------------|
| 1 Indigenous Production | 295 | - | 531 | - |
| 2 Import | 5,912 | 38 | 8,850 | 7,730 |
| 3 Export | - | - | - | -874 |
| 4 International Marine Bunkers | - | - | - | -166 |
| 5 International Aviation Bunkers | - | - | - | -712 |
| 6 Stock Change | -113 | 32 | 125 | 124 |
| 7 Total Primary Energy Supply | 6,094 | 69 | 9,507 | 6,102 |
| 8 Transfers | - | - | 1,079 | -1,040 |
| 9 Main Activity Peoducer | -5,671 | - | - | -1,195 |
| 10 Autoproducers | - | - | - | -613 |
| 11 Gas Processing | - | - | - | -15 |
| 12 Petroleum Refineries | - | - | -10,677 | 9,260 |
| 13 Coal Transformation | -457 | 190 | - | - |
| 14 Other Transformation | - | - | 11 | -11 |
| 15 Loss & Own Use | - | -237 | - | -331 |
| 16 Discrepancy | 212 | -8 | 80 | 431 |
| 17 Total Final Energy Consumption | 178 | 14 | - | 12,589 |
| 18 Industry Sector | 175 | 14 | - | 2,946 |
| 19 Transport Sector | - | - | - | 7,391 |
| 20 Other Sector | 2 | - | - | 1,769 |
| 20.1 Residential & Commercial | - | - | - | 1,490 |
| 20.2 Agriculture | - | - | - | - |
| 20.3 Other | 2 | - | - | 278 |
| 21 Non Energy | - | - | - | 483 |

China, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|-----------|---------------|----------------|--------------------|
| 1 Indigenous Production | 1,869,264 | - | 207,478 | - |
| 2 Import | 145,914 | 52 | 271,027 | 50,028 |
| 3 Export | -5,193 | -694 | -2,432 | -26,876 |
| 4 International Marine Bunkers | - | - | - | -1,497 |
| 5 International Aviation Bunkers | - | - | - | -2,642 |
| 6 Stock Change | -65,233 | 1,487 | -9,226 | -11,335 |
| 7 Total Primary Energy Supply | 1,944,753 | 845 | 466,847 | 7,678 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | -848,015 | -1,387 | -109 | -3,573 |
| 10 Autoproducers | -138,795 | -23,464 | -14 | -3,636 |
| 11 Gas Processing | -4,378 | -371 | - | - |
| 12 Petroleum Refineries | - | - | -459,335 | 495,153 |
| 13 Coal Transformation | -313,770 | 130,731 | - | - |
| 14 Other Transformation | - | - | - | -52,696 |
| 15 Loss & Own Use | -55,521 | -6,217 | -5,826 | -4,836 |
| 16 Discrepancy | -74,191 | -12,756 | -641 | -1,731 |
| 17 Total Final Energy Consumption | 510,084 | 87,381 | 923 | 436,360 |
| 18 Industry Sector | 424,511 | 82,372 | 191 | 95,373 |
| 19 Transport Sector | 3,168 | 1 | - | 178,442 |
| 20 Other Sector | 82,405 | 5,008 | - | 99,859 |
| 20.1 Residential & Commercial | 60,372 | 4,445 | - | 52,577 |
| 20.2 Agriculture | 9,664 | 391 | - | 15,717 |
| 20.3 Other | 12,368 | 173 | - | 31,584 |
| 21 Non Energy | - | - | 731 | 62,686 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|--------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 1,030 | 1,734 | - | 54 | 9,410 | - | - | 13,053 |
| 3,293 | - | - | - | 10 | - | - | 25,831 |
| - | - | - | - | - | - | - | -874 |
| - | - | - | - | - | - | - | -166 |
| - | - | - | - | - | - | - | -712 |
| -36 | - | - | - | 52 | - | - | 80 |
| 4,286 | 1,734 | - | 54 | 9,367 | - | - | 37,213 |
| - | - | - | - | - | - | - | 39 |
| -2,336 | -1,718 | - | -33 | -170 | 5,502 | - | -5,622 |
| -74 | -15 | - | -2 | -3,531 | 497 | - | -3,738 |
| 19 | - | - | - | - | - | - | 4 |
| - | - | - | - | - | - | - | -1,417 |
| - | - | - | - | - | - | - | -267 |
| - | - | - | - | -303 | - | - | -304 |
| -263 | - | - | - | - | -698 | - | -1,528 |
| -192 | - | - | - | 0 | 50 | - | 573 |
| 1,441 | - | - | 18 | 5,363 | 5,351 | - | 24,954 |
| 625 | - | - | 2 | 1,682 | 3,625 | - | 9,069 |
| 29 | - | - | - | - | 41 | - | 7,461 |
| 532 | - | - | 17 | 3,681 | 1,685 | - | 7,685 |
| 532 | - | - | 17 | 3,681 | 1,673 | - | 7,393 |
| - | - | - | - | - | - | - | - |
| 0 | - | - | - | - | 11 | - | 292 |
| 255 | - | - | - | - | - | - | 738 |

| Unit: ktoe | | | | | | | |
|---------------------|---------|---------|----------------------------|--------|-------------|---------|-----------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 99,759 | 75,001 | 25,381 | 8,254 | 4,025 | - | - | 2,289,163 |
| 39,430 | - | - | - | - | 591 | - | 507,042 |
| -2,691 | - | - | - | - | -1,518 | - | -39,403 |
| - | - | - | - | - | - | - | -1,497 |
| - | - | - | - | - | - | - | -2,642 |
| - | - | - | - | - | - | - | -84,307 |
| 136,498 | 75,001 | 25,381 | 8,254 | 4,025 | -927 | - | 2,668,356 |
| - | - | - | - | - | - | - | - |
| -19,942 | -75,001 | -25,381 | -8,254 | -4,016 | 386,368 | 44,575 | -554,735 |
| -4,583 | - | - | - | - | 42,561 | 36,404 | -91,526 |
| 493 | - | - | - | - | - | - | -4,255 |
| - | - | - | - | - | - | - | 35,818 |
| - | - | - | - | - | - | - | -183,038 |
| - | - | - | - | - | - | - | -52,696 |
| -19,894 | - | - | - | - | -73,499 | -10,740 | -176,534 |
| -159 | - | - | - | -9 | -44 | 599 | -88,932 |
| 92,414 | - | - | - | - | 354,460 | 70,837 | 1,552,458 |
| 37,799 | - | - | - | - | 243,330 | 48,465 | 932,042 |
| 13,260 | - | - | - | - | 7,872 | - | 202,742 |
| 34,849 | - | - | - | - | 103,257 | 22,372 | 347,750 |
| 31,729 | - | - | - | - | 68,030 | 19,686 | 236,838 |
| 60 | - | - | - | - | 8,708 | 27 | 34,567 |
| 3,061 | - | - | - | - | 26,519 | 2,660 | 76,345 |
| 6,506 | - | - | - | - | - | - | 69,923 |

Energy Balances

Hong Kong, China, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|--------|---------------|----------------|--------------------|
| 1 Indigenous Production | - | - | - | - |
| 2 Import | 7,779 | - | - | 17,851 |
| 3 Export | -0 | - | - | -810 |
| 4 International Marine Bunkers | - | - | - | -8,448 |
| 5 International Aviation Bunkers | - | - | - | -5,589 |
| 6 Stock Change | 491 | - | - | 230 |
| 7 Total Primary Energy Supply | 7,288 | - | - | 3,234 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | -7,288 | - | - | -190 |
| 10 Autoproducers | - | - | - | - |
| 11 Gas Processing | - | - | - | -333 |
| 12 Petroleum Refineries | - | - | -5 | 5 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | 5 | - |
| 15 Loss & Own Use | - | - | - | - |
| 16 Discrepancy | 0 | - | - | -298 |
| 17 Total Final Energy Consumption | 0 | - | - | 2,418 |
| 18 Industry Sector | 0 | - | - | 102 |
| 19 Transport Sector | - | - | - | 2,110 |
| 20 Other Sector | - | - | - | 206 |
| 20.1 Residential & Commercial | - | - | - | 206 |
| 20.2 Agriculture | - | - | - | - |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | - | - |

Indonesia, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|----------|---------------|----------------|--------------------|
| 1 Indigenous Production | 226,909 | - | 50,330 | - |
| 2 Import | 46 | - | 14,672 | 31,182 |
| 3 Export | -178,782 | - | -17,633 | -310 |
| 4 International Marine Bunkers | - | - | - | - |
| 5 International Aviation Bunkers | - | - | - | - |
| 6 Stock Change | 128 | - | 1,833 | 3,025 |
| 7 Total Primary Energy Supply | 48,300 | - | 49,201 | 33,897 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | -31,056 | - | - | -7,113 |
| 10 Autoproducers | - | - | - | - |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -54,270 | 53,865 |
| 13 Coal Transformation | -21 | 17 | - | - |
| 14 Other Transformation | - | - | 5,990 | -3,608 |
| 15 Loss & Own Use | - | - | - | - |
| 16 Discrepancy | -0 | - | -921 | 391 |
| 17 Total Final Energy Consumption | 17,223 | 17 | - | 77,432 |
| 18 Industry Sector | 17,223 | 17 | - | 17,576 |
| 19 Transport Sector | - | - | - | 44,597 |
| 20 Other Sector | - | - | - | 11,177 |
| 20.1 Residential & Commercial | - | - | - | 7,666 |
| 20.2 Agriculture | - | - | - | - |
| 20.3 Other | - | - | - | 3,511 |
| 21 Non Energy | - | - | - | 4,083 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|--------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| - | - | - | - | 1 | 66 | - | 67 |
| 2,374 | - | - | - | 7 | 1,015 | - | 29,027 |
| - | - | - | - | -3 | -158 | - | -971 |
| - | - | - | - | - | - | - | -8,448 |
| - | - | - | - | - | - | - | -5,589 |
| - | - | - | - | - | - | - | 261 |
| 2,374 | - | - | 1 | 69 | 857 | - | 13,823 |
| - | - | - | - | - | - | - | - |
| -1,697 | - | - | -0 | - | 3,333 | - | -5,842 |
| - | - | - | -1 | -13 | 4 | 4 | -5 |
| 333 | - | - | - | - | - | - | -0 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | -23 | - | - | -18 |
| -333 | - | - | - | - | -489 | - | -823 |
| -0 | - | - | -0 | 0 | 0 | - | -298 |
| 677 | - | - | - | 34 | 3,704 | 4 | 6,837 |
| 26 | - | - | - | - | 224 | - | 352 |
| - | - | - | - | - | 65 | - | 2,175 |
| 651 | - | - | - | 34 | 3,416 | 4 | 4,311 |
| 651 | - | - | - | 34 | 3,416 | 4 | 4,311 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|----------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 69,435 | 1,101 | - | 8,099 | 5,990 | - | - | 361,863 |
| - | - | - | - | - | 257 | - | 46,156 |
| -31,676 | - | - | - | - | - | - | -228,400 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 4,986 |
| 37,760 | 1,101 | - | 8,099 | 5,990 | 257 | - | 184,604 |
| - | - | - | - | - | - | - | - |
| -10,511 | -1,101 | - | -8,099 | - | 16,861 | - | -41,019 |
| - | - | - | - | - | - | - | - |
| -3,727 | - | - | - | - | - | - | -3,727 |
| - | - | - | - | - | - | - | -405 |
| - | - | - | - | - | - | - | -4 |
| - | - | - | - | -5,990 | - | - | -3,608 |
| -5,771 | - | - | - | - | -2,132 | - | -7,902 |
| -219 | - | - | - | - | -23 | - | -773 |
| 17,532 | - | - | - | - | 14,963 | - | 127,168 |
| 13,288 | - | - | - | - | 5,175 | - | 53,279 |
| 19 | - | - | - | - | 9 | - | 44,625 |
| 247 | - | - | - | - | 9,779 | - | 21,202 |
| 247 | - | - | - | - | 9,779 | - | 17,691 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 3,511 |
| 3,979 | - | - | - | - | - | - | 8,062 |

Energy Balances

Japan, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|---------|---------------|----------------|--------------------|
| 1 Indigenous Production | 675 | - | 689 | - |
| 2 Import | 112,229 | 514 | 183,458 | 51,123 |
| 3 Export | - | -988 | - | -12,822 |
| 4 International Marine Bunkers | - | - | - | -4,278 |
| 5 International Aviation Bunkers | - | - | - | -6,415 |
| 6 Stock Change | 562 | - | 128 | 154 |
| 7 Total Primary Energy Supply | 112,341 | -474 | 184,275 | 27,762 |
| 8 Transfers | - | - | -369 | 303 |
| 9 Main Activity Peoducer | -48,982 | -3,985 | -12,879 | -21,178 |
| 10 Autoproducers | -10,938 | -2,610 | - | -11,412 |
| 11 Gas Processing | - | - | - | -1,325 |
| 12 Petroleum Refineries | - | - | -171,005 | 171,831 |
| 13 Coal Transformation | -35,887 | 33,378 | - | -893 |
| 14 Other Transformation | - | - | - | - |
| 15 Loss & Own Use | -555 | -2,991 | - | -10,695 |
| 16 Discrepancy | -1,326 | -4,663 | -23 | 5,837 |
| 17 Total Final Energy Consumption | 14,654 | 18,656 | - | 160,230 |
| 18 Industry Sector | 14,654 | 18,061 | - | 50,061 |
| 19 Transport Sector | - | - | - | 76,340 |
| 20 Other Sector | - | 595 | - | 29,982 |
| 20.1 Residential & Commercial | - | 595 | - | 25,136 |
| 20.2 Agriculture | - | - | - | 3,328 |
| 20.3 Other | - | - | - | 1,517 |
| 21 Non Energy | - | - | - | 3,849 |

Republic of Korea, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|---------|---------------|----------------|--------------------|
| 1 Indigenous Production | 932 | - | 658 | - |
| 2 Import | 75,318 | 253 | 131,062 | 37,435 |
| 3 Export | - | - | -356 | -58,465 |
| 4 International Marine Bunkers | - | - | - | -8,524 |
| 5 International Aviation Bunkers | - | - | - | -4,050 |
| 6 Stock Change | 59 | - | -928 | 318 |
| 7 Total Primary Energy Supply | 76,309 | 253 | 130,436 | -33,285 |
| 8 Transfers | - | - | 259 | -733 |
| 9 Main Activity Peoducer | -47,148 | -812 | - | -3,759 |
| 10 Autoproducers | -3,114 | -2,897 | - | -2,061 |
| 11 Gas Processing | - | - | - | -725 |
| 12 Petroleum Refineries | - | - | -137,830 | 135,497 |
| 13 Coal Transformation | -22,377 | 10,905 | - | - |
| 14 Other Transformation | - | - | 8,420 | -7,836 |
| 15 Loss & Own Use | - | -2,897 | -12 | -4,960 |
| 16 Discrepancy | 825 | 218 | -1,273 | 2,595 |
| 17 Total Final Energy Consumption | 4,495 | 4,769 | - | 84,734 |
| 18 Industry Sector | 4,495 | 3,954 | - | 4,145 |
| 19 Transport Sector | - | - | - | 28,935 |
| 20 Other Sector | - | 816 | - | 8,695 |
| 20.1 Residential & Commercial | - | 816 | - | 5,629 |
| 20.2 Agriculture | - | - | - | 1,166 |
| 20.3 Other | - | - | - | 1,900 |
| 21 Non Energy | - | - | - | 42,959 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 2,767 | 6,865 | 4,689 | 3,931 | 5,527 | - | - | 25,142 |
| 102,497 | - | - | - | - | - | - | 449,822 |
| - | - | - | - | - | - | - | -13,810 |
| - | - | - | - | - | - | - | -4,278 |
| - | - | - | - | - | - | - | -6,415 |
| -16 | - | - | - | - | - | - | 296 |
| 105,248 | 6,865 | 4,689 | 3,931 | 5,527 | - | - | 450,164 |
| - | - | - | - | - | - | - | -66 |
| -69,997 | -6,174 | -4,689 | -2,326 | -708 | 71,819 | 606 | -98,492 |
| -3,939 | -691 | - | -1,251 | -7,793 | 23,822 | 177 | -14,635 |
| 1,244 | - | - | - | - | - | - | -81 |
| - | - | - | - | - | - | - | 826 |
| - | - | - | - | - | - | - | -3,402 |
| - | - | - | - | - | - | - | - |
| -4,954 | - | - | - | - | -10,716 | - | -29,911 |
| 3,240 | 0 | - | 0 | 4,408 | -223 | -73 | 7,178 |
| 30,841 | - | - | 355 | 1,434 | 84,702 | 710 | 311,582 |
| 16,104 | - | - | - | 1,412 | 34,246 | - | 134,538 |
| 93 | - | - | - | - | 1,737 | - | 78,169 |
| 14,644 | - | - | 355 | 22 | 48,719 | 710 | 95,026 |
| 14,644 | - | - | 355 | 22 | 48,410 | 634 | 89,796 |
| - | - | - | - | - | 309 | 76 | 3,713 |
| - | - | - | - | - | - | - | 1,517 |
| - | - | - | - | - | - | - | 3,849 |

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|-------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 391 | 341 | 39,175 | 265 | 4,277 | - | - | 46,040 |
| 42,853 | - | - | - | - | - | - | 286,922 |
| - | - | - | - | - | - | - | -58,820 |
| - | - | - | - | - | - | - | -8,524 |
| - | - | - | - | - | - | - | -4,050 |
| 1,746 | - | - | - | - | - | - | 1,194 |
| 44,990 | 341 | 39,175 | 265 | 4,277 | - | - | 262,763 |
| - | - | - | - | - | - | - | -474 |
| -21,543 | -341 | -39,175 | -156 | -131 | 42,998 | 1,844 | -68,223 |
| -676 | - | - | -18 | -1,157 | 2,662 | 3,399 | -3,861 |
| 563 | - | - | - | - | - | - | -163 |
| - | - | - | - | - | - | - | -2,332 |
| - | - | - | - | - | - | - | -11,472 |
| - | - | - | - | -303 | - | - | 281 |
| -237 | - | - | - | - | -4,598 | -143 | -12,847 |
| -194 | - | - | -0 | 48 | 339 | -126 | 2,430 |
| 22,904 | - | - | 92 | 2,735 | 41,401 | 4,974 | 166,103 |
| 9,292 | - | - | 2 | 1,890 | 21,555 | 2,128 | 47,461 |
| 1,149 | - | - | - | - | 194 | - | 30,277 |
| 12,463 | - | - | 89 | 845 | 19,652 | 2,846 | 45,406 |
| 12,457 | - | - | 82 | 813 | 18,614 | 2,846 | 41,257 |
| 5 | - | - | 7 | 29 | 826 | - | 2,033 |
| - | - | - | - | 3 | 213 | - | 2,116 |
| - | - | - | - | - | - | - | 42,959 |

Energy Balances

Malaysia, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|---------|---------------|----------------|--------------------|
| 1 Indigenous Production | 1,860 | - | 31,321 | - |
| 2 Import | 14,220 | - | 10,003 | 12,725 |
| 3 Export | -232 | - | -12,086 | -13,967 |
| 4 International Marine Bunkers | - | - | - | -57 |
| 5 International Aviation Bunkers | - | - | - | -2,017 |
| 6 Stock Change | 52 | - | 967 | 282 |
| 7 Total Primary Energy Supply | 15,796 | - | 30,204 | -3,034 |
| 8 Transfers | - | - | -2,206 | 2,036 |
| 9 Main Activity Peoducer | -14,138 | - | - | -1,361 |
| 10 Autoproducers | - | - | - | - |
| 11 Gas Processing | - | - | - | 715 |
| 12 Petroleum Refineries | - | - | -27,749 | 26,147 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | 99 | - |
| 15 Loss & Own Use | - | - | - | -1,753 |
| 16 Discrepancy | 86 | - | -348 | -34 |
| 17 Total Final Energy Consumption | 1,744 | - | - | 22,716 |
| 18 Industry Sector | 1,744 | - | - | 4,528 |
| 19 Transport Sector | - | - | - | 14,835 |
| 20 Other Sector | - | - | - | 2,614 |
| 20.1 Residential & Commercial | - | - | - | 1,591 |
| 20.2 Agriculture | - | - | - | 937 |
| 20.3 Other | - | - | - | 86 |
| 21 Non Energy | - | - | - | 739 |

Mexico, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|--------|---------------|----------------|--------------------|
| 1 Indigenous Production | 7,529 | - | 152,190 | - |
| 2 Import | 4,128 | 248 | 485 | 32,388 |
| 3 Export | -151 | - | -70,781 | -7,384 |
| 4 International Marine Bunkers | - | - | - | -930 |
| 5 International Aviation Bunkers | - | - | - | -2,901 |
| 6 Stock Change | -2,322 | 32 | -286 | -775 |
| 7 Total Primary Energy Supply | 9,183 | 279 | 81,608 | 20,398 |
| 8 Transfers | - | - | -7,590 | 8,775 |
| 9 Main Activity Peoducer | -8,070 | - | - | -10,473 |
| 10 Autoproducers | -36 | -87 | - | -1,371 |
| 11 Gas Processing | - | - | - | -822 |
| 12 Petroleum Refineries | - | - | -70,990 | 67,206 |
| 13 Coal Transformation | -1,949 | 1,338 | - | - |
| 14 Other Transformation | - | - | 225 | -239 |
| 15 Loss & Own Use | - | -59 | - | -5,364 |
| 16 Discrepancy | 1,002 | 145 | -3,253 | -4,314 |
| 17 Total Final Energy Consumption | 129 | 1,617 | - | 73,796 |
| 18 Industry Sector | 129 | 1,617 | - | 5,912 |
| 19 Transport Sector | - | - | - | 52,297 |
| 20 Other Sector | - | - | - | 11,122 |
| 20.1 Residential & Commercial | - | - | - | 8,068 |
| 20.2 Agriculture | - | - | - | 3,053 |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | - | 4,464 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 51,157 | 796 | - | 4 | 745 | - | - | 85,883 |
| 7,819 | - | - | - | - | 9 | - | 44,775 |
| -26,755 | - | - | - | -25 | -1 | - | -53,067 |
| - | - | - | - | - | - | - | -57 |
| - | - | - | - | - | - | - | -2,017 |
| - | - | - | - | -94 | - | - | 1,102 |
| 32,222 | 796 | - | 4 | 626 | 7 | - | 76,621 |
| - | - | - | - | - | - | - | -170 |
| -11,465 | -796 | - | -4 | -346 | 11,025 | - | -17,084 |
| -1,723 | - | - | - | -180 | 529 | - | -1,375 |
| -7,756 | - | - | - | - | - | - | -7,041 |
| - | - | - | - | - | - | - | -1,603 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | -99 | - | - | - |
| -1,129 | - | - | - | - | -995 | - | -3,876 |
| -2 | - | - | - | - | -556 | - | -853 |
| 10,147 | - | - | - | - | 10,011 | - | 44,619 |
| 4,530 | - | - | - | - | 4,509 | - | 15,310 |
| 291 | - | - | - | - | 21 | - | 15,146 |
| 23 | - | - | - | - | 5,481 | - | 8,119 |
| 23 | - | - | - | - | 5,451 | - | 7,066 |
| - | - | - | - | - | 30 | - | 967 |
| - | - | - | - | - | - | - | 86 |
| 5,304 | - | - | - | - | - | - | 6,043 |

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 40,357 | 2,740 | 2,285 | 5,475 | 8,423 | - | - | 218,999 |
| 18,615 | - | - | - | - | 201 | - | 56,065 |
| -68 | - | - | - | - | -566 | - | -78,950 |
| - | - | - | - | - | - | - | -930 |
| - | - | - | - | - | - | - | -2,901 |
| -417 | - | - | - | - | - | - | -3,768 |
| 58,487 | 2,740 | 2,285 | 5,475 | 8,423 | -365 | - | 188,514 |
| - | - | - | - | - | - | - | 1,186 |
| -22,863 | -2,693 | -2,285 | -5,153 | - | 22,506 | - | -29,032 |
| -3,415 | -46 | - | -169 | -1,312 | 2,766 | - | -3,670 |
| 569 | - | - | - | - | - | - | -253 |
| - | - | - | - | - | - | - | -3,784 |
| - | - | - | - | - | - | - | -611 |
| - | - | - | - | - | - | - | -14 |
| -18,187 | - | - | - | - | -5,377 | - | -28,987 |
| -147 | - | - | -0 | -0 | 233 | - | -6,335 |
| 14,445 | - | - | 153 | 7,111 | 19,763 | - | 117,015 |
| 10,324 | - | - | 7 | 979 | 11,228 | - | 30,197 |
| 16 | - | - | - | - | 97 | - | 52,411 |
| 1,005 | - | - | 146 | 6,132 | 8,438 | - | 26,844 |
| 1,005 | - | - | 146 | 6,132 | 6,464 | - | 21,816 |
| - | - | - | - | - | 930 | - | 3,984 |
| - | - | - | - | - | 1,044 | - | 1,044 |
| 3,099 | - | - | - | - | - | - | 7,564 |

Energy Balances

New Zealand, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|--------|---------------|----------------|--------------------|
| 1 Indigenous Production | 2,875 | - | 2,121 | - |
| 2 Import | 83 | - | 5,618 | 1,792 |
| 3 Export | -1,576 | - | -1,838 | -288 |
| 4 International Marine Bunkers | - | - | - | -374 |
| 5 International Aviation Bunkers | - | - | - | -824 |
| 6 Stock Change | 135 | - | 151 | -5 |
| 7 Total Primary Energy Supply | 1,517 | - | 6,052 | 300 |
| 8 Transfers | - | - | -181 | 189 |
| 9 Main Activity Peoducer | -665 | - | - | -1 |
| 10 Autoproducers | -7 | -172 | - | - |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -5,799 | 5,816 |
| 13 Coal Transformation | -418 | 260 | - | - |
| 14 Other Transformation | - | - | 6 | - |
| 15 Loss & Own Use | -1 | -50 | - | -365 |
| 16 Discrepancy | 102 | 0 | -77 | -160 |
| 17 Total Final Energy Consumption | 529 | 38 | - | 5,778 |
| 18 Industry Sector | 404 | 38 | - | 364 |
| 19 Transport Sector | - | - | - | 4,537 |
| 20 Other Sector | 125 | - | - | 627 |
| 20.1 Residential & Commercial | 42 | - | - | 194 |
| 20.2 Agriculture | 83 | - | - | 336 |
| 20.3 Other | - | - | - | 97 |
| 21 Non Energy | - | - | - | 250 |

Papua New Guinea, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|------|---------------|----------------|--------------------|
| 1 Indigenous Production | - | - | 756 | - |
| 2 Import | - | - | 1,111 | 921 |
| 3 Export | - | - | -755 | -525 |
| 4 International Marine Bunkers | - | - | - | - |
| 5 International Aviation Bunkers | - | - | - | - |
| 6 Stock Change | - | - | -44 | 35 |
| 7 Total Primary Energy Supply | - | - | 1,069 | 431 |
| 8 Transfers | - | - | - | 0 |
| 9 Main Activity Peoducer | - | - | - | -99 |
| 10 Autoproducers | - | - | - | -500 |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -1,063 | 1,051 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | - | - |
| 15 Loss & Own Use | - | - | - | - |
| 16 Discrepancy | - | - | -6 | 0 |
| 17 Total Final Energy Consumption | - | - | - | 884 |
| 18 Industry Sector | - | - | - | 199 |
| 19 Transport Sector | - | - | - | 517 |
| 20 Other Sector | - | - | - | 167 |
| 20.1 Residential & Commercial | - | - | - | - |
| 20.2 Agriculture | - | - | - | - |
| 20.3 Other | - | - | - | 167 |
| 21 Non Energy | - | - | - | - |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|--------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 3,799 | 1,969 | - | 3,976 | 1,202 | - | - | 15,942 |
| - | - | - | - | 2 | - | - | 7,495 |
| - | - | - | - | - | - | - | -3,702 |
| - | - | - | - | - | - | - | -374 |
| - | - | - | - | - | - | - | -824 |
| 42 | - | - | - | - | - | - | 322 |
| 3,841 | 1,969 | - | 3,976 | 1,204 | - | - | 18,859 |
| - | - | - | - | - | - | - | 7 |
| -1,531 | -1,968 | - | -3,697 | -43 | 3,692 | - | -4,213 |
| -37 | -1 | - | -33 | -116 | 117 | 26 | -222 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 16 |
| -0 | - | - | - | - | - | - | -159 |
| - | - | - | - | -6 | - | - | -0 |
| -222 | - | - | - | - | -430 | -26 | -1,093 |
| -121 | -0 | - | 0 | 0 | -57 | - | -313 |
| 1,928 | - | - | 247 | 1,040 | 3,323 | - | 12,883 |
| 907 | - | - | 159 | 899 | 1,218 | - | 3,989 |
| 1 | - | - | - | - | 5 | - | 4,543 |
| 338 | - | - | 88 | 141 | 2,100 | - | 3,420 |
| 305 | - | - | 69 | 141 | 1,885 | - | 2,636 |
| 34 | - | - | 19 | - | 145 | - | 617 |
| - | - | - | - | - | 70 | - | 167 |
| 682 | - | - | - | - | - | - | 932 |

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|--------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 137 | 86 | - | 363 | - | - | - | 1,341 |
| - | - | - | - | - | - | - | 2,033 |
| - | - | - | - | - | - | - | -1,280 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -9 |
| 137 | 86 | - | 363 | - | - | - | 2,085 |
| - | - | - | - | - | - | - | 0 |
| - | -55 | - | - | - | 84 | - | -70 |
| -123 | -31 | - | -363 | - | 264 | - | -752 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -12 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| -6 | - | - | - | - | -23 | - | -29 |
| -7 | - | - | - | - | -0 | - | -13 |
| - | - | - | - | - | 325 | - | 1,209 |
| - | - | - | - | - | 246 | - | 445 |
| - | - | - | - | - | - | - | 517 |
| - | - | - | - | - | 80 | - | 247 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 80 | - | 247 |
| - | - | - | - | - | - | - | - |

Energy Balances

Peru, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|------|---------------|----------------|--------------------|
| 1 Indigenous Production | 148 | - | 6,900 | - |
| 2 Import | 455 | 1 | 4,582 | 2,750 |
| 3 Export | -89 | -27 | -788 | -4,352 |
| 4 International Marine Bunkers | - | - | - | - |
| 5 International Aviation Bunkers | - | - | - | - |
| 6 Stock Change | 333 | 26 | 180 | 1,059 |
| 7 Total Primary Energy Supply | 847 | 0 | 10,874 | -544 |
| 8 Transfers | - | - | -1,346 | 1,337 |
| 9 Main Activity Peoducer | -162 | - | - | -211 |
| 10 Autoproducers | -145 | - | - | -212 |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -9,754 | 9,538 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | 216 | - |
| 15 Loss & Own Use | - | - | - | -277 |
| 16 Discrepancy | 33 | 0 | 9 | -114 |
| 17 Total Final Energy Consumption | 574 | 0 | - | 9,517 |
| 18 Industry Sector | 572 | 0 | - | 1,284 |
| 19 Transport Sector | - | - | - | 6,314 |
| 20 Other Sector | 2 | - | - | 1,215 |
| 20.1 Residential & Commercial | - | - | - | 1,036 |
| 20.2 Agriculture | 2 | - | - | 42 |
| 20.3 Other | - | - | - | 138 |
| 21 Non Energy | - | - | - | 704 |

Philippines, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|--------|---------------|----------------|--------------------|
| 1 Indigenous Production | 3,879 | - | 220 | - |
| 2 Import | 6,278 | - | 8,872 | 6,755 |
| 3 Export | -1,675 | - | -141 | -626 |
| 4 International Marine Bunkers | - | - | - | -181 |
| 5 International Aviation Bunkers | - | - | - | -1,082 |
| 6 Stock Change | 834 | - | 82 | -74 |
| 7 Total Primary Energy Supply | 9,316 | - | 9,033 | 4,793 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | -6,300 | - | - | -971 |
| 10 Autoproducers | - | - | - | - |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -8,402 | 8,227 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | 122 | - |
| 15 Loss & Own Use | - | - | - | - |
| 16 Discrepancy | -1,118 | - | -754 | -493 |
| 17 Total Final Energy Consumption | 1,897 | - | - | 11,556 |
| 18 Industry Sector | 1,784 | - | - | 1,275 |
| 19 Transport Sector | - | - | - | 8,097 |
| 20 Other Sector | 113 | - | - | 2,051 |
| 20.1 Residential & Commercial | - | - | - | 1,868 |
| 20.2 Agriculture | - | - | - | 28 |
| 20.3 Other | 113 | - | - | 154 |
| 21 Non Energy | - | - | - | 133 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 11,992 | 1,836 | - | 9 | 348 | - | - | 21,233 |
| - | - | - | - | 282 | 0 | - | 8,070 |
| -5,167 | - | - | - | -25 | - | - | -10,447 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | -127 | - | - | 1,471 |
| 6,826 | 1,836 | - | 9 | 476 | 0 | - | 20,327 |
| - | - | - | - | - | - | - | -10 |
| -3,728 | -1,794 | - | -2 | -74 | 3,212 | - | -2,759 |
| -201 | -42 | - | - | -119 | 220 | - | -499 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -215 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | -282 | - | - | -66 |
| -1,269 | - | - | - | - | -315 | - | -1,861 |
| -201 | - | - | -0 | -3 | -1 | - | -275 |
| 1,427 | - | - | 7 | - | 3,117 | - | 14,642 |
| 759 | - | - | - | - | 1,649 | - | 4,264 |
| 558 | - | - | - | - | 0 | - | 6,873 |
| 109 | - | - | 7 | - | 1,468 | - | 2,801 |
| 109 | - | - | 7 | - | 1,378 | - | 2,530 |
| - | - | - | 0 | - | 64 | - | 108 |
| - | - | - | 0 | - | 25 | - | 163 |
| - | - | - | - | - | - | - | 704 |

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 3,159 | 882 | - | 8,822 | 6,473 | - | - | 23,435 |
| - | - | - | - | 168 | - | - | 22,074 |
| - | - | - | - | - | - | - | -2,442 |
| - | - | - | - | - | - | - | -181 |
| - | - | - | - | - | - | - | -1,082 |
| - | - | - | - | 22 | - | - | 865 |
| 3,159 | 882 | - | 8,822 | 6,664 | - | - | 42,668 |
| - | - | - | - | - | - | - | - |
| -3,015 | -882 | - | -8,822 | -89 | 6,271 | - | -13,808 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -175 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | -1,619 | - | - | -1,497 |
| -135 | - | - | - | - | -460 | - | -596 |
| -8 | - | - | - | -0 | -719 | - | -3,092 |
| 1 | - | - | - | 4,956 | 5,092 | - | 23,502 |
| - | - | - | - | 1,060 | 1,726 | - | 5,845 |
| 1 | - | - | - | - | 10 | - | 8,108 |
| - | - | - | - | 3,896 | 3,356 | - | 9,416 |
| - | - | - | - | 3,893 | 3,223 | - | 8,984 |
| - | - | - | - | 0 | 117 | - | 146 |
| - | - | - | - | 3 | 16 | - | 286 |
| - | - | - | - | - | - | - | 133 |

Energy Balances

Russia, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|---------|---------------|----------------|--------------------|
| 1 Indigenous Production | 200,719 | - | 521,255 | - |
| 2 Import | 17,875 | 390 | 840 | 1,723 |
| 3 Export | -83,542 | -1,632 | -241,151 | -105,551 |
| 4 International Marine Bunkers | - | - | - | -1,795 |
| 5 International Aviation Bunkers | - | - | - | -6,605 |
| 6 Stock Change | -382 | - | 475 | -348 |
| 7 Total Primary Energy Supply | 134,669 | -1,242 | 281,420 | -112,576 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | -52,553 | - | - | -7,176 |
| 10 Autoproducers | -17,580 | -2,822 | -796 | -8,659 |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -275,606 | 258,009 |
| 13 Coal Transformation | -41,026 | 12,538 | - | - |
| 14 Other Transformation | - | - | - | - |
| 15 Loss & Own Use | -652 | -991 | -4,933 | -12,200 |
| 16 Discrepancy | -17,094 | 5 | 0 | -297 |
| 17 Total Final Energy Consumption | 5,763 | 7,488 | 85 | 117,102 |
| 18 Industry Sector | 1,594 | 7,488 | 33 | 11,259 |
| 19 Transport Sector | - | - | - | 58,694 |
| 20 Other Sector | 4,169 | - | 52 | 12,351 |
| 20.1 Residential & Commercial | 4,110 | - | - | 8,462 |
| 20.2 Agriculture | 58 | - | 10 | 3,078 |
| 20.3 Other | 2 | - | 42 | 810 |
| 21 Non Energy | - | - | - | 34,797 |

Singapore, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|------|---------------|----------------|--------------------|
| 1 Indigenous Production | - | - | - | - |
| 2 Import | 25 | 0 | 50,430 | 97,842 |
| 3 Export | -0 | -0 | -8 | -84,303 |
| 4 International Marine Bunkers | - | - | - | -41,996 |
| 5 International Aviation Bunkers | - | - | - | -6,847 |
| 6 Stock Change | - | - | - | - |
| 7 Total Primary Energy Supply | 25 | 0 | 50,422 | -35,306 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | - | - | - | -1,278 |
| 10 Autoproducers | - | - | - | -58 |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -50,430 | 44,230 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | - | - |
| 15 Loss & Own Use | - | - | - | - |
| 16 Discrepancy | -25 | -0 | 8 | -0 |
| 17 Total Final Energy Consumption | - | - | - | 7,588 |
| 18 Industry Sector | - | - | - | 6,043 |
| 19 Transport Sector | - | - | - | 1,545 |
| 20 Other Sector | - | - | - | - |
| 20.1 Residential & Commercial | - | - | - | - |
| 20.2 Agriculture | - | - | - | - |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | - | - |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|---------|---------|----------------------------|--------|-------------|---------|-----------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 540,793 | 14,267 | 46,290 | 411 | 7,699 | - | - | 1,331,435 |
| 6,606 | - | - | - | 2 | 229 | - | 27,665 |
| -158,822 | - | - | - | -307 | -1,646 | - | -592,651 |
| - | - | - | - | - | - | - | -1,795 |
| - | - | - | - | - | - | - | -6,605 |
| -1,459 | - | - | - | 39 | - | - | -1,675 |
| 387,119 | 14,267 | 46,290 | 411 | 7,434 | -1,417 | - | 756,374 |
| - | - | - | - | - | - | - | - |
| -153,018 | -14,179 | -46,290 | -411 | - | 86,183 | 58,942 | -128,502 |
| -88,318 | -88 | - | - | -4,430 | 5,778 | 94,100 | -22,815 |
| -0 | - | - | - | - | - | - | -0 |
| - | - | - | - | - | - | - | -17,597 |
| - | - | - | - | - | - | - | -28,488 |
| -1,673 | - | - | - | - | - | - | -1,673 |
| -16,047 | - | - | - | -206 | -26,878 | -29,305 | -91,211 |
| 0 | - | - | - | -146 | -1 | 1 | -17,532 |
| 128,064 | - | - | - | 2,653 | 63,665 | 123,738 | 448,556 |
| 34,076 | - | - | - | 404 | 29,120 | 47,459 | 131,434 |
| 27,020 | - | - | - | - | 7,916 | - | 93,630 |
| 35,267 | - | - | - | 2,248 | 26,629 | 76,279 | 156,995 |
| 34,660 | - | - | - | 2,097 | 25,290 | 71,138 | 145,758 |
| 606 | - | - | - | 151 | 1,314 | 5,132 | 10,349 |
| 1 | - | - | - | 0 | 25 | 8 | 889 |
| 31,700 | - | - | - | - | - | - | 66,497 |

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| - | - | - | - | 886 | - | - | 886 |
| 9,158 | - | - | - | - | - | - | 157,455 |
| -0 | - | - | - | - | - | - | -84,311 |
| - | - | - | - | - | - | - | -41,998 |
| - | - | - | - | - | - | - | -6,847 |
| - | - | - | - | - | - | - | - |
| 9,157 | - | - | - | 886 | - | - | 25,184 |
| - | - | - | - | - | - | - | - |
| -7,110 | - | - | - | -602 | 3,887 | - | -5,104 |
| -375 | - | - | - | -284 | 148 | - | -568 |
| -1 | - | - | - | - | - | - | -1 |
| - | - | - | - | - | - | - | -6,200 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | -374 | - | -374 |
| -415 | - | - | - | - | 0 | - | -432 |
| 1,256 | - | - | - | - | 3,661 | - | 12,505 |
| 1,095 | - | - | - | - | 1,457 | - | 8,595 |
| 22 | - | - | - | - | 206 | - | 1,773 |
| 139 | - | - | - | - | 1,998 | - | 2,137 |
| 57 | - | - | - | - | 571 | - | 628 |
| - | - | - | - | - | - | - | - |
| 82 | - | - | - | - | 1,427 | - | 1,509 |
| - | - | - | - | - | - | - | - |

Energy Balances

Chinese Taipei, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|---------|---------------|----------------|--------------------|
| 1 Indigenous Production | - | - | 10 | - |
| 2 Import | 35,642 | 156 | 46,603 | 14,469 |
| 3 Export | - | -76 | - | -16,366 |
| 4 International Marine Bunkers | - | - | - | -1,182 |
| 5 International Aviation Bunkers | - | - | - | -2,075 |
| 6 Stock Change | 350 | - | 461 | -181 |
| 7 Total Primary Energy Supply | 35,993 | 81 | 47,074 | -5,335 |
| 8 Transfers | - | - | - | -901 |
| 9 Main Activity Peoducer | -19,816 | - | - | -1,380 |
| 10 Autoproducers | -5,091 | -672 | - | -843 |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -47,354 | 47,476 |
| 13 Coal Transformation | -5,206 | 3,052 | - | - |
| 14 Other Transformation | - | - | - | - |
| 15 Loss & Own Use | - | -945 | - | -1,642 |
| 16 Discrepancy | -577 | 104 | 280 | -175 |
| 17 Total Final Energy Consumption | 5,302 | 1,619 | - | 37,200 |
| 18 Industry Sector | 5,302 | 1,619 | - | 2,856 |
| 19 Transport Sector | - | - | - | 11,683 |
| 20 Other Sector | - | - | - | 2,403 |
| 20.1 Residential & Commercial | - | - | - | 2,064 |
| 20.2 Agriculture | - | - | - | 3 |
| 20.3 Other | - | - | - | 336 |
| 21 Non Energy | - | - | - | 20,259 |

Thailand, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|--------|---------------|----------------|--------------------|
| 1 Indigenous Production | 4,798 | - | 17,497 | - |
| 2 Import | 4,720 | 7,030 | 45,074 | 2,908 |
| 3 Export | -2 | -5 | -2,423 | -13,808 |
| 4 International Marine Bunkers | - | - | - | - |
| 5 International Aviation Bunkers | - | - | - | -3,937 |
| 6 Stock Change | -1,208 | -766 | 201 | 318 |
| 7 Total Primary Energy Supply | 8,308 | 6,259 | 60,349 | -14,520 |
| 8 Transfers | - | - | -4,106 | 4,106 |
| 9 Main Activity Peoducer | -6,935 | -957 | - | -808 |
| 10 Autoproducers | - | - | - | - |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -50,530 | 51,409 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | 1,153 | - |
| 15 Loss & Own Use | - | - | - | - |
| 16 Discrepancy | -31 | -1 | -196 | 1 |
| 17 Total Final Energy Consumption | 1,342 | 5,301 | 6,670 | 40,488 |
| 18 Industry Sector | 1,342 | 5,301 | - | 3,841 |
| 19 Transport Sector | - | - | - | 20,062 |
| 20 Other Sector | - | - | - | 7,381 |
| 20.1 Residential & Commercial | - | - | - | 3,590 |
| 20.2 Agriculture | - | - | - | 3,791 |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | 6,670 | 9,204 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 354 | 740 | 10,544 | 230 | 1,731 | - | - | 13,610 |
| 15,935 | - | - | - | - | - | - | 112,807 |
| - | - | - | - | - | - | - | -16,442 |
| - | - | - | - | - | - | - | -1,182 |
| - | - | - | - | - | - | - | -2,075 |
| 108 | - | - | - | - | - | - | 739 |
| 16,397 | 740 | 10,544 | 230 | 1,731 | - | - | 107,457 |
| - | - | - | - | - | - | - | -901 |
| -11,542 | -740 | -10,544 | -122 | - | 18,516 | - | -25,629 |
| -81 | - | - | -5 | -1,626 | 3,018 | - | -5,300 |
| -635 | - | - | - | - | - | - | -635 |
| - | - | - | - | - | - | - | 122 |
| - | - | - | - | - | - | - | -2,155 |
| - | - | - | - | - | - | - | - |
| -712 | - | - | - | - | -1,760 | - | -5,059 |
| -766 | 0 | - | -0 | -105 | -636 | - | -1,877 |
| 2,661 | - | - | 103 | - | 19,138 | - | 66,023 |
| 1,441 | - | - | - | - | 11,043 | - | 22,262 |
| - | - | - | - | - | 106 | - | 11,789 |
| 1,220 | - | - | 103 | - | 7,989 | - | 11,714 |
| 1,220 | - | - | 103 | - | 7,756 | - | 11,142 |
| - | - | - | - | - | 154 | - | 157 |
| - | - | - | - | - | 79 | - | 415 |
| - | - | - | - | - | - | - | 20,259 |

| Unit: ktoe | | | | | | | |
|---------------------|-------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 35,757 | 743 | - | 41 | 2,295 | - | - | 61,131 |
| 9,901 | - | - | - | - | 888 | - | 70,521 |
| - | - | - | - | - | -164 | - | -16,403 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -3,937 |
| - | - | - | - | - | - | - | -1,455 |
| 45,658 | 743 | - | 41 | 2,295 | 724 | - | 109,857 |
| - | - | - | - | - | - | - | - |
| -24,164 | -743 | - | -41 | - | 14,729 | - | -18,619 |
| - | - | - | - | -2,295 | - | - | -2,295 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 879 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 1,153 |
| -14,791 | - | - | - | - | -1,582 | - | -16,372 |
| -0 | - | - | 0 | - | -0 | - | -227 |
| 6,703 | - | - | 0 | - | 13,871 | - | 74,376 |
| 2,659 | - | - | - | - | 5,732 | - | 18,875 |
| 2,480 | - | - | - | - | 9 | - | 22,552 |
| 1 | - | - | 0 | - | 8,131 | - | 15,513 |
| 1 | - | - | 0 | - | 7,992 | - | 11,583 |
| - | - | - | - | - | 33 | - | 3,824 |
| - | - | - | - | - | 106 | - | 106 |
| 1,563 | - | - | - | - | - | - | 17,436 |

Energy Balances

United States of America, 2012

| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|----------|---------------|----------------|--------------------|
| 1 Indigenous Production | 495,485 | - | 407,505 | - |
| 2 Import | 5,109 | 709 | 483,420 | 68,288 |
| 3 Export | -73,147 | -609 | -13,863 | -134,714 |
| 4 International Marine Bunkers | - | - | - | -15,409 |
| 5 International Aviation Bunkers | - | - | - | -21,342 |
| 6 Stock Change | -2,390 | 87 | -4,586 | 1,966 |
| 7 Total Primary Energy Supply | 425,057 | 187 | 872,477 | -101,211 |
| 8 Transfers | - | - | -48,613 | 50,653 |
| 9 Main Activity Peoducer | -379,729 | -191 | - | -5,085 |
| 10 Autoproducers | -2,440 | -973 | - | -697 |
| 11 Gas Processing | -1,969 | - | - | - |
| 12 Petroleum Refineries | - | - | -845,260 | 835,783 |
| 13 Coal Transformation | -14,258 | 5,304 | - | - |
| 14 Other Transformation | - | - | 27,212 | - |
| 15 Loss & Own Use | -206 | -1,674 | - | -35,238 |
| 16 Discrepancy | -8,991 | -0 | -3,640 | -306 |
| 17 Total Final Energy Consumption | 17,464 | 2,653 | 2,175 | 743,899 |
| 18 Industry Sector | 16,563 | 2,653 | - | 20,342 |
| 19 Transport Sector | - | - | - | 579,191 |
| 20 Other Sector | 902 | - | - | 55,708 |
| 20.1 Residential & Commercial | 902 | - | - | 41,055 |
| 20.2 Agriculture | - | - | - | 14,654 |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | 2,175 | 88,658 |

Viet Nam, 2012

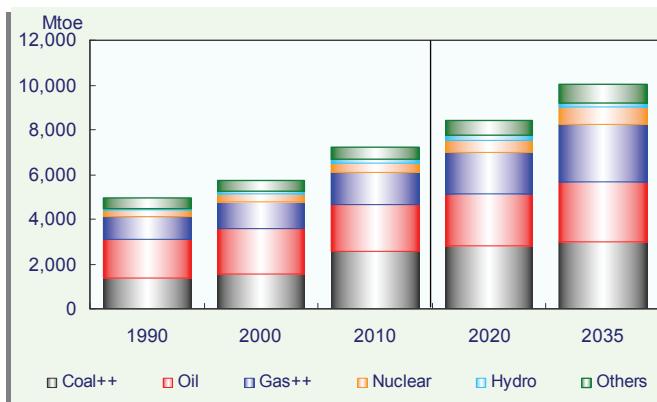
| | Coal | Coal Products | Crude Oil, NGL | Petroleum Products |
|-----------------------------------|--------|---------------|----------------|--------------------|
| 1 Indigenous Production | 23,734 | - | 17,518 | - |
| 2 Import | 963 | - | - | 10,738 |
| 3 Export | -8,521 | - | -9,643 | -1,720 |
| 4 International Marine Bunkers | - | - | - | - |
| 5 International Aviation Bunkers | - | - | - | - |
| 6 Stock Change | -392 | - | -1,340 | 91 |
| 7 Total Primary Energy Supply | 15,785 | - | 6,534 | 9,109 |
| 8 Transfers | - | - | - | - |
| 9 Main Activity Peoducer | -6,106 | - | - | -126 |
| 10 Autoproducers | - | - | - | - |
| 11 Gas Processing | - | - | - | - |
| 12 Petroleum Refineries | - | - | -6,534 | 5,914 |
| 13 Coal Transformation | - | - | - | - |
| 14 Other Transformation | - | - | - | - |
| 15 Loss & Own Use | - | - | - | - |
| 16 Discrepancy | -0 | - | - | 0 |
| 17 Total Final Energy Consumption | 9,673 | - | - | 14,896 |
| 18 Industry Sector | 8,299 | - | - | 1,611 |
| 19 Transport Sector | - | - | - | 10,701 |
| 20 Other Sector | 1,379 | - | - | 2,020 |
| 20.1 Residential & Commercial | 1,361 | - | - | 1,549 |
| 20.2 Agriculture | 18 | - | - | 471 |
| 20.3 Other | - | - | - | - |
| 21 Non Energy | - | - | - | 565 |

Energy Balances

| Unit: ktoe | | | | | | | |
|---------------------|---------|----------|----------------------------|---------|-------------|--------|-----------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 558,941 | 23,952 | 208,774 | 23,418 | 88,864 | - | - | 1,806,939 |
| 72,715 | - | - | - | - | 5,096 | - | 635,337 |
| -37,093 | - | - | - | - | -1,032 | - | -260,456 |
| - | - | - | - | - | - | - | -15,409 |
| - | - | - | - | - | - | - | -21,342 |
| 1,141 | - | - | - | - | - | - | -3,782 |
| 595,704 | 23,952 | 208,774 | 23,418 | 88,864 | 4,065 | - | 2,141,286 |
| - | - | - | - | - | - | - | 2,040 |
| -211,211 | -23,746 | -208,774 | -21,217 | -14,248 | 352,324 | 11,961 | -499,916 |
| -16,196 | -206 | - | -498 | -7,764 | 14,963 | - | -13,811 |
| 1,163 | - | - | - | - | - | - | -806 |
| - | - | - | - | - | - | - | -9,477 |
| - | - | - | - | - | - | - | -8,953 |
| - | - | - | - | -27,205 | - | - | 7 |
| -67,246 | - | - | - | - | -50,843 | -5,425 | -160,632 |
| -5,633 | -0 | - | 0 | 0 | - | 0 | -18,571 |
| 296,580 | - | - | 1,703 | 39,647 | 320,508 | 6,536 | 1,431,166 |
| 101,926 | - | - | 106 | 27,122 | 72,748 | 5,165 | 246,625 |
| 17,610 | - | - | - | - | 588 | - | 597,390 |
| 163,491 | - | - | 1,597 | 12,524 | 247,171 | 1,372 | 482,765 |
| 162,301 | - | - | 1,597 | 12,115 | 232,066 | 1,372 | 451,406 |
| 1,191 | - | - | - | 409 | 2,646 | - | 18,899 |
| - | - | - | - | - | 12,459 | - | 12,459 |
| 13,552 | - | - | - | - | - | - | 104,385 |

| Unit: ktoe | | | | | | | |
|---------------------|--------|---------|----------------------------|--------|-------------|------|---------|
| Natural Gas, LNG | Hydro | Nuclear | Geothermal, Solar, etc. | Others | Electricity | Heat | Total |
| 8,253 | 4,541 | - | - | - | - | - | 54,046 |
| - | - | - | - | - | 230 | - | 11,932 |
| - | - | - | - | - | -105 | - | -19,990 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -1,641 |
| 8,253 | 4,541 | - | - | - | 125 | - | 44,347 |
| - | - | - | - | - | - | - | - |
| -6,815 | -4,541 | - | - | - | 10,114 | - | -7,475 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | -620 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | -1,173 | - | -1,173 |
| -0 | - | - | - | - | -0 | - | -0 |
| 1,438 | - | - | - | - | 9,065 | - | 35,078 |
| 1,438 | - | - | - | - | 4,758 | - | 16,106 |
| - | - | - | - | - | - | - | 10,701 |
| - | - | - | - | - | 4,307 | - | 7,707 |
| - | - | - | - | - | 4,179 | - | 7,089 |
| - | - | - | - | - | 128 | - | 617 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 565 |

Primary Energy Supply Outlook by Energy

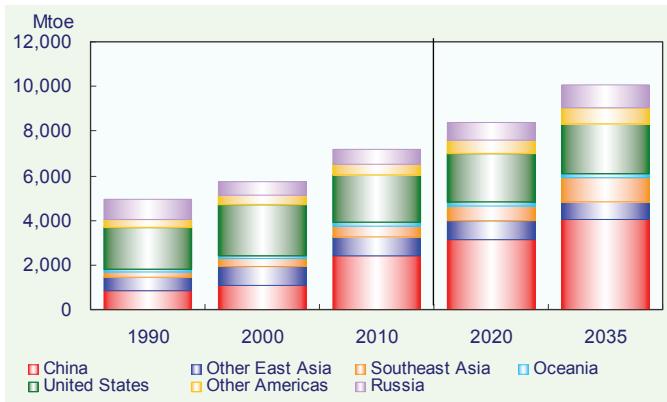


| | 1990 | 2000 | 2010 | 2020 | 2035 |
|---------|-------|-------|-------|-------|--------|
| Coal++ | 1,377 | 1,574 | 2,571 | 2,800 | 2,988 |
| Oil | 1,754 | 2,006 | 2,113 | 2,363 | 2,678 |
| Gas++ | 996 | 1,182 | 1,397 | 1,795 | 2,569 |
| Nuclear | 286 | 390 | 431 | 577 | 753 |
| Hydro | 92 | 107 | 158 | 210 | 232 |
| Others | 428 | 468 | 526 | 651 | 818 |
| Total | 4,932 | 5,727 | 7,198 | 8,400 | 10,043 |

| | 1990 | 2000 | 2010 | 2020 | 2035 |
|---------|------|------|------|------|------|
| Coal++ | 27.9 | 27.5 | 35.7 | 33.3 | 29.7 |
| Oil | 35.6 | 35.0 | 29.3 | 28.1 | 26.7 |
| Gas++ | 20.2 | 20.6 | 19.4 | 21.4 | 25.6 |
| Nuclear | 5.8 | 6.8 | 6.0 | 6.9 | 7.5 |
| Hydro | 1.9 | 1.9 | 2.2 | 2.5 | 2.3 |
| Others | 8.7 | 8.2 | 7.3 | 7.7 | 8.1 |

By Asia Pacific Energy Research Centre, February 2013.

Primary Energy Supply Outlook by Region



| | 1990 | 2000 | 2010 | 2020 | 2035 | Mtoe |
|-----------------|-------|-------|-------|-------|--------|-----------|
| China | 863 | 1,095 | 2,397 | 3,142 | 4,027 | |
| Other East Asia | 589 | 806 | 850 | 852 | 814 | |
| Southeast Asia | 232 | 374 | 513 | 666 | 1,039 | |
| Oceania | 100 | 126 | 146 | 164 | 181 | |
| United States | 1,915 | 2,273 | 2,143 | 2,178 | 2,249 | |
| Other Americas | 354 | 433 | 481 | 580 | 724 | |
| Russia | 879 | 619 | 669 | 819 | 1,009 | |
| APEC 21 | 4,933 | 5,727 | 7,198 | 8,400 | 10,043 | |
| | 1990 | 2000 | 2010 | 2020 | 2035 | Share (%) |
| China | 17.5 | 19.1 | 33.3 | 37.4 | 40.1 | |
| Other East Asia | 11.9 | 14.1 | 11.8 | 10.1 | 8.1 | |
| Southeast Asia | 4.7 | 6.5 | 7.1 | 7.9 | 10.3 | |
| Oceania | 2.0 | 2.2 | 2.0 | 1.9 | 1.8 | |
| United States | 38.8 | 39.7 | 29.8 | 25.9 | 22.4 | |
| Other Americas | 7.2 | 7.6 | 6.7 | 6.9 | 7.2 | |
| Russia | 17.8 | 10.8 | 9.3 | 9.7 | 10.0 | |

Other East Asia includes Hong Kong, China; Japan; Republic of Korea and Chinese Taipei.
Other Americas includes Canada, Chile, Mexico, and Peru. Southeast Asia includes Viet Nam.

Selected Energy Indicators APEC Region

| | Population | | | Real GDP | | | Real GDP | |
|--------------------------|------------|-------|-------|--|---------|---------|---|---------|
| | Millions | | | Billions of 2010 Price and 2010 USD | | | Billions of 2010 Price and 2010 PPP | |
| | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | 1990 | 2000 |
| APEC 21 | 2,284 | 2,553 | 2,787 | 19,702 | 26,697 | 38,399 | 22,416 | 31,232 |
| East Asia and Russia | 1,328 | 1,465 | 1,559 | 6,048 | 8,451 | 14,404 | 6,258 | 10,181 |
| China | 1,135 | 1,263 | 1,351 | 847 | 2,189 | 6,978 | 1,730 | 4,470 |
| Hong Kong, China | 5.7 | 6.7 | 7.2 | 104.1 | 153.4 | 243.3 | 151.0 | 222.4 |
| Japan | 123.5 | 126.9 | 127.6 | 4,552.9 | 5,093.0 | 5,549.7 | 3,581.3 | 4,006.1 |
| Republic of Korea | 42.9 | 47.0 | 50.0 | 377.1 | 710.0 | 1,160.8 | 517.9 | 975.2 |
| Russia | 148.3 | 146.6 | 143.2 | 1,413.9 | 951.6 | 1,644.6 | 2,711.9 | 1,825.1 |
| Chinese Taipei | 20.4 | 22.3 | 23.3 | 166.9 | 305.5 | 471.8 | 277.6 | 508.1 |
| Southeast Asia | 318.7 | 376.7 | 445.3 | 666.8 | 1,063.0 | 1,911.9 | 1,653 | 2,595 |
| Brunei Darussalam | 0.3 | 0.3 | 0.4 | 8.7 | 10.8 | 12.9 | 19.4 | 24.2 |
| Indonesia | 178.6 | 208.9 | 246.9 | 281.7 | 425.8 | 802.5 | 752.5 | 1,137.7 |
| Malaysia | 18.2 | 23.4 | 29.2 | 79.4 | 157.8 | 274.9 | 181.4 | 360.3 |
| Philippines | 61.9 | 77.7 | 96.7 | 94.5 | 125.3 | 220.9 | 243.6 | 323.1 |
| Singapore | 3.0 | 4.0 | 5.3 | 67.6 | 134.5 | 257.0 | 102.2 | 203.4 |
| Thailand | 56.6 | 62.3 | 66.8 | 135.0 | 208.7 | 343.6 | 353.4 | 546.5 |
| Viet Nam | 66.0 | 77.6 | 88.8 | 29.5 | 61.1 | 129.6 | 97.2 | 201.7 |
| Oceania | 24.6 | 28.4 | 34.3 | 723.6 | 1,000.0 | 1,421.1 | 543.8 | 751.2 |
| Australia | 17.1 | 19.2 | 22.7 | 636.2 | 881.6 | 1,259.7 | 460.5 | 638.1 |
| New Zealand | 3.3 | 3.9 | 4.4 | 83.1 | 111.8 | 150.3 | 76.7 | 103.3 |
| Papua New Guinea | 4.2 | 5.4 | 7.2 | 4.4 | 6.5 | 11.2 | 6.6 | 9.8 |
| North America | 277.4 | 312.9 | 348.6 | 10,062 | 14,054 | 17,341 | 9,903 | 13,843 |
| Canada | 27.8 | 30.8 | 34.8 | 1,008.2 | 1,336.6 | 1,683.2 | 849.0 | 1,125.6 |
| United States of America | 249.6 | 282.2 | 313.9 | 9,054 | 12,717 | 15,658 | 9,054 | 12,717 |
| Latin America | 121.1 | 145.3 | 168.3 | 758.1 | 1,116.2 | 1,547.4 | 1,250.4 | 1,834.4 |
| Chile | 13.2 | 15.5 | 17.5 | 80.2 | 149.2 | 242.7 | 115.3 | 214.4 |
| Mexico | 86.1 | 103.9 | 120.8 | 619.5 | 880.9 | 1,137.2 | 1,023.2 | 1,454.9 |
| Peru | 21.8 | 26.0 | 30.0 | 58.4 | 86.2 | 167.5 | 111.8 | 165.1 |

Energy Indicators

| | Energy Indigenous Production | | | Net Import | | | Total Primary Energy Supply | | | |
|---------|------------------------------|---------|---------|------------|--------|---------|-----------------------------|---------|---------|-----|
| | Mtoe | | | Mtoe | | | Mtoe | | | |
| 2012 | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | |
| 50,277 | 4,634 | 4,876 | 7,121 | 149.2 | 625.5 | 646.6 | 4,631 | 5,436 | 7,527 | |
| 21,346 | 814 | 1,016 | 2,374 | 461.3 | 713.2 | 1,256.2 | 1,238 | 1,701 | 3,503 | |
| 14,249 | 705.8 | 865.5 | 2,289.2 | -30.5 | 32.4 | 467.6 | 654.0 | 905.2 | 2,668.4 | CHN |
| 352.7 | 0.0 | 0.0 | 0.1 | 10.8 | 18.2 | 28.1 | 10.6 | 15.1 | 13.8 | HKG |
| 4,365.4 | 74.7 | 105.0 | 25.1 | 371.4 | 420.4 | 436.0 | 434.6 | 513.6 | 450.2 | JPN |
| 1,594.3 | 22.6 | 34.4 | 46.0 | 70.1 | 165.7 | 228.1 | 93.1 | 188.2 | 262.8 | KOR |
| 3,154.3 | 1,292.8 | 977.8 | 1,331.4 | -412.6 | -349.6 | -565.0 | 878.9 | 619.0 | 756.4 | RUS |
| 784.7 | 10.7 | 11.5 | 13.6 | 39.4 | 76.4 | 96.4 | 45.5 | 79.0 | 107.5 | TWN |
| 4,659 | 210.9 | 325.1 | 547.2 | -52.4 | 29.9 | -60.1 | 142.0 | 267.6 | 436.4 | |
| 29.0 | 15.9 | 17.3 | 20.0 | -13.7 | -15.2 | -16.5 | 2.1 | 2.1 | 3.4 | BRN |
| 2,143.9 | 119.4 | 184.0 | 355.9 | -65.9 | -82.4 | -182.2 | 53.3 | 101.2 | 178.6 | IDN |
| 627.9 | 46.4 | 75.6 | 85.9 | -25.8 | -27.3 | -8.3 | 20.4 | 47.7 | 76.6 | MYS |
| 569.5 | 17.2 | 19.6 | 23.4 | 11.9 | 20.0 | 19.6 | 28.3 | 39.0 | 42.7 | PHL |
| 388.7 | 0.0 | 0.1 | 0.9 | 22.9 | 40.3 | 73.1 | 9.9 | 17.2 | 25.2 | SGP |
| 899.7 | 11.9 | 28.6 | 61.1 | 18.2 | 34.6 | 54.1 | 27.9 | 60.4 | 109.9 | THA |
| 427.7 | 5.8 | 25.8 | 54.0 | -0.2 | -9.8 | -8.1 | 5.4 | 14.8 | 44.3 | VNM |
| 1,067.3 | 173.5 | 251.6 | 334.7 | -66.1 | -126.5 | -182.3 | 99.8 | 126.2 | 149.2 | |
| 911.8 | 157.5 | 233.6 | 317.4 | -64.5 | -127.1 | -186.8 | 86.2 | 108.1 | 128.3 | AUS |
| 138.8 | 11.4 | 14.2 | 15.9 | 2.1 | 3.4 | 3.8 | 12.7 | 17.0 | 18.9 | NZL |
| 16.7 | 4.6 | 3.9 | 1.3 | -3.7 | -2.7 | 0.8 | 0.9 | 1.1 | 2.1 | PNG |
| 17,075 | 1,926 | 2,041 | 2,227 | 282.6 | 478.7 | 206.1 | 2,123 | 2,526 | 2,392 | |
| 1,417.5 | 273.4 | 373.5 | 419.7 | -59.3 | -127.7 | -168.7 | 208.2 | 252.2 | 251.1 | CAN |
| 15,658 | 1,652.7 | 1,667.5 | 1,806.9 | 341.9 | 606.4 | 374.9 | 1,915.2 | 2,273.6 | 2,141.3 | USA |
| 2,548.0 | 210.8 | 238.5 | 253.3 | -63.4 | -50.6 | -0.3 | 144.0 | 181.1 | 246.1 | |
| 348.8 | 7.9 | 8.6 | 13.1 | 7.0 | 17.7 | 25.0 | 14.0 | 25.2 | 37.2 | CHL |
| 1,878.2 | 194.7 | 222.1 | 219.0 | -69.9 | -71.6 | -22.9 | 122.5 | 144.9 | 188.5 | MEX |
| 320.9 | 8.2 | 7.8 | 21.2 | -0.6 | 3.3 | -2.4 | 7.5 | 11.0 | 20.3 | PER |

Note: * excluding Viet Nam.

Energy Indicators

| | Total Final Energy Consumption | | | Final Consumption of Electricity | | | Total Primary Energy Supply | |
|--------------------------|--------------------------------|---------|---------|----------------------------------|---------|---------|-----------------------------|------|
| | Mtoe | | | TWh | | | toe / Person | |
| | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | 1990 | 2000 |
| APEC 21 | 3,237 | 3,724 | 4,758 | 5,840 | 7,841 | 12,065 | 2.03 | 2.13 |
| East Asia and Russia | 896.6 | 1,188.6 | 2,103.0 | 1,543.4 | 2,477.4 | 5,853.5 | 0.93 | 1.16 |
| China | 489.9 | 634.7 | 1,552.5 | 606.4 | 1,053.7 | 4,121.6 | 0.58 | 0.72 |
| Hong Kong, China | 6.7 | 11.2 | 6.8 | 23.8 | 36.3 | 43.1 | 1.87 | 2.26 |
| Japan | 305.8 | 362.1 | 311.6 | 744.8 | 964.1 | 984.9 | 3.52 | 4.05 |
| Republic of Korea | 64.9 | 127.1 | 166.1 | 94.4 | 263.1 | 481.4 | 2.17 | 4.00 |
| Russia | 625.0 | 417.9 | 448.6 | 826.6 | 608.5 | 740.3 | 5.93 | 4.22 |
| Chinese Taipei | 29.3 | 53.6 | 66.0 | 74.0 | 160.1 | 222.5 | 2.23 | 3.55 |
| Southeast Asia | 92.5 | 162.6 | 283.1 | 125.2 | 326.2 | 556.7 | 0.45 | 0.71 |
| Brunei Darussalam | 0.4 | 0.7 | 1.0 | 1.0 | 2.5 | 3.2 | 8.36 | 6.30 |
| Indonesia | 34.0 | 63.6 | 127.2 | 30.5 | 108.9 | 174.0 | 0.30 | 0.48 |
| Malaysia | 13.1 | 29.7 | 44.6 | 19.9 | 61.2 | 116.4 | 1.12 | 2.04 |
| Philippines | 19.5 | 23.5 | 23.5 | 21.2 | 36.6 | 59.2 | 0.46 | 0.50 |
| Singapore | 5.3 | 6.4 | 12.5 | 14.2 | 29.1 | 42.6 | 3.25 | 4.28 |
| Thailand | 20.2 | 38.7 | 74.4 | 38.3 | 87.9 | 161.3 | 0.49 | 0.97 |
| Viet Nam | 4.2 | 11.9 | 35.1 | 6.2 | 22.4 | 105.4 | 0.08 | 0.19 |
| Oceania | 66.8 | 83.4 | 92.9 | 159.1 | 209.3 | 251.8 | 4.06 | 4.45 |
| Australia | 56.5 | 69.6 | 78.8 | 129.2 | 172.7 | 209.3 | 5.05 | 5.64 |
| New Zealand | 9.7 | 12.9 | 12.9 | 28.2 | 34.3 | 38.6 | 3.82 | 4.40 |
| Papua New Guinea | 0.6 | 0.9 | 1.2 | 1.7 | 2.3 | 3.8 | 0.21 | 0.21 |
| North America | 1,450.4 | 1,732.2 | 1,638.6 | 3,051.6 | 3,981.0 | 4,228.8 | 7.65 | 8.07 |
| Canada | 158.8 | 188.7 | 207.4 | 418.0 | 481.5 | 501.9 | 7.49 | 8.20 |
| United States of America | 1,291.6 | 1,543.5 | 1,431.2 | 2,633.6 | 3,499.5 | 3,726.8 | 7.67 | 8.06 |
| Latin America | 101.6 | 127.9 | 156.6 | 127.5 | 216.3 | 328.3 | 1.19 | 1.25 |
| Chile | 11.1 | 20.4 | 25.0 | 15.5 | 36.8 | 62.2 | 1.06 | 1.63 |
| Mexico | 84.3 | 98.3 | 117.0 | 100.2 | 162.2 | 229.8 | 1.42 | 1.40 |
| Peru | 6.2 | 9.2 | 14.6 | 11.8 | 17.3 | 36.2 | 0.35 | 0.42 |

Energy Indicators

| | Total Primary Energy Supply per Real GDP | | | Total Primary Energy Supply per Real GDP | | | Total Final Energy Consumption per Capita | | | |
|------|--|-------|-------|--|-------|-------|---|------|------|-----|
| | toe / Million 2010 USD | | | toe / Million 2010 PPP | | | toe / Person | | | |
| 2012 | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | |
| 2.70 | 235.1 | 203.6 | 196.0 | 206.6 | 174.0 | 147.6 | 1.42 | 1.46 | 1.71 | |
| 2.25 | 204.7 | 201.3 | 243.2 | 190.5 | 159.3 | 159.1 | 0.68 | 0.81 | 1.35 | |
| 1.98 | 771.9 | 413.5 | 382.4 | 378.0 | 202.5 | 187.3 | 0.43 | 0.50 | 1.15 | CHN |
| 1.93 | 102.2 | 98.4 | 56.8 | 70.5 | 67.9 | 39.2 | 1.17 | 1.68 | 0.96 | HKG |
| 3.53 | 95.5 | 100.8 | 81.1 | 121.4 | 128.2 | 103.1 | 2.48 | 2.85 | 2.44 | JPN |
| 5.25 | 246.9 | 265.0 | 226.4 | 179.8 | 193.0 | 164.8 | 1.51 | 2.70 | 3.32 | KOR |
| 5.28 | 621.6 | 650.5 | 459.9 | 324.1 | 339.2 | 239.8 | 4.21 | 2.85 | 3.13 | RUS |
| 4.61 | 272.5 | 258.5 | 227.7 | 163.8 | 155.5 | 136.9 | 1.44 | 2.40 | 2.83 | TWN |
| 0.98 | 212.9 | 251.8 | 228.2 | 85.9 | 103.1 | 93.7 | 0.29 | 0.43 | 0.64 | |
| 8.26 | 248.0 | 193.5 | 263.7 | 110.6 | 86.2 | 117.6 | 1.64 | 2.24 | 2.35 | BRN |
| 0.72 | 189.1 | 237.7 | 222.6 | 70.8 | 89.0 | 83.3 | 0.19 | 0.30 | 0.52 | IDN |
| 2.62 | 257.4 | 302.5 | 278.7 | 112.7 | 132.4 | 122.0 | 0.72 | 1.27 | 1.53 | MYS |
| 0.44 | 299.5 | 310.9 | 193.1 | 116.2 | 120.6 | 74.9 | 0.31 | 0.30 | 0.24 | PHL |
| 4.74 | 146.4 | 128.2 | 98.0 | 96.8 | 84.7 | 64.8 | 1.75 | 1.59 | 2.35 | SGP |
| 1.64 | 206.8 | 289.2 | 319.7 | 79.0 | 110.5 | 122.1 | 0.36 | 0.62 | 1.11 | THA |
| 0.50 | 183.8 | 242.7 | 342.1 | 55.7 | 73.6 | 103.7 | 0.06 | 0.15 | 0.40 | VNM |
| 4.35 | 137.9 | 126.2 | 105.0 | 183.5 | 168.0 | 139.8 | 2.72 | 2.94 | 2.71 | |
| 5.65 | 135.5 | 122.6 | 101.8 | 187.2 | 169.4 | 140.7 | 3.31 | 3.63 | 3.47 | AUS |
| 4.25 | 153.0 | 151.7 | 125.5 | 165.7 | 164.3 | 135.9 | 2.92 | 3.35 | 2.91 | NZL |
| 0.29 | 197.8 | 171.7 | 186.8 | 131.9 | 114.5 | 124.5 | 0.15 | 0.16 | 0.17 | PNG |
| 6.86 | 211.0 | 179.7 | 138.0 | 214.4 | 182.5 | 140.1 | 5.23 | 5.54 | 4.70 | |
| 7.23 | 206.5 | 188.7 | 149.2 | 245.2 | 224.1 | 177.2 | 5.71 | 6.13 | 5.97 | CAN |
| 6.82 | 211.5 | 178.8 | 136.8 | 211.5 | 178.8 | 136.8 | 5.17 | 5.47 | 4.56 | USA |
| 1.46 | 190.0 | 162.3 | 159.0 | 115.2 | 98.7 | 96.6 | 0.84 | 0.88 | 0.93 | |
| 2.13 | 174.6 | 168.7 | 153.4 | 121.5 | 117.4 | 106.7 | 0.84 | 1.32 | 1.43 | CHL |
| 1.56 | 197.7 | 164.5 | 165.8 | 119.7 | 99.6 | 100.4 | 0.98 | 0.95 | 0.97 | MEX |
| 0.68 | 129.1 | 128.2 | 121.3 | 67.4 | 66.9 | 63.3 | 0.29 | 0.35 | 0.49 | PER |

Energy Indicators

| | Energy Related CO ₂ Emission | | | CO ₂ Emission per Capita | | |
|--------------------------|---|---------|---------|-------------------------------------|-------|-------|
| | Mt-C | | | t-C / Person | | |
| | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 |
| APEC 20 | 3,399.3 | 3,912.8 | 5,443.5 | 1.488 | 1.533 | 1.953 |
| East Asia and Russia | 971.2 | 1,344.9 | 2,786.0 | 0.732 | 0.918 | 1.787 |
| China | 581.5 | 847.6 | 2,222.4 | 0.512 | 0.671 | 1.645 |
| Hong Kong, China | 8.9 | 8.5 | 11.8 | 1.565 | 1.278 | 1.649 |
| Japan | 288.6 | 317.5 | 330.5 | 2.336 | 2.502 | 2.591 |
| Republic of Korea | 62.4 | 113.1 | 151.7 | 1.455 | 2.406 | 3.034 |
| Russia | 619.2 | 361.3 | 399.2 | 4.176 | 2.465 | 2.788 |
| Chinese Taipei | 29.9 | 58.2 | 69.5 | 1.464 | 2.614 | 2.982 |
| Southeast Asia | 91.7 | 175.2 | 296.3 | 0.288 | 0.465 | 0.665 |
| Brunei Darussalam | 1.5 | 1.8 | 2.2 | 5.805 | 5.507 | 5.451 |
| Indonesia | 37.3 | 73.0 | 140.2 | 0.209 | 0.349 | 0.568 |
| Malaysia | 16.0 | 32.7 | 54.2 | 0.880 | 1.395 | 1.854 |
| Philippines | 9.8 | 17.5 | 21.1 | 0.158 | 0.225 | 0.218 |
| Singapore | 5.3 | 9.1 | 13.1 | 1.751 | 2.248 | 2.463 |
| Thailand | 21.8 | 41.1 | 65.4 | 0.385 | 0.659 | 0.979 |
| Viet Nam | 4.7 | 12.0 | 34.8 | 0.071 | 0.155 | 0.392 |
| Oceania | 75.2 | 95.4 | 110.7 | 3.065 | 3.361 | 3.225 |
| Australia | 68.4 | 86.6 | 100.8 | 4.009 | 4.524 | 4.435 |
| New Zealand | 6.2 | 7.9 | 8.6 | 1.864 | 2.057 | 1.936 |
| Papua New Guinea | 0.6 | 0.8 | 1.3 | 0.152 | 0.155 | 0.187 |
| North America | 1,553.0 | 1,808.9 | 1,663.4 | 5.598 | 5.780 | 4.771 |
| Canada | 114.3 | 140.9 | 141.4 | 4.112 | 4.579 | 4.069 |
| United States of America | 1,438.7 | 1,668.0 | 1,521.9 | 5.763 | 5.911 | 4.849 |
| Latin America | 84.2 | 115.1 | 153.2 | 0.696 | 0.792 | 0.910 |
| Chile | 8.0 | 13.3 | 21.9 | 0.606 | 0.860 | 1.254 |
| Mexico | 70.8 | 94.4 | 118.3 | 0.823 | 0.908 | 0.979 |
| Peru | 5.4 | 7.5 | 13.0 | 0.248 | 0.287 | 0.432 |

Energy Indicators

| CO ₂ Emission per Real GDP | | | CO ₂ Emission per Real GDP | | | CO ₂ Emission per Total Primary Energy Supply | | | | |
|---------------------------------------|-------|-------|---------------------------------------|-------|-------|--|-------|-------|-----|--|
| kt-C / Billions of 2010 USD | | | kt-C / Billions of 2010 PPP | | | t-C / toe | | | | |
| 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | 1990 | 2000 | 2012 | | |
| 172.5 | 146.6 | 141.8 | 151.6 | 125.3 | 108.3 | 0.734 | 0.720 | 0.723 | | |
| 160.6 | 159.1 | 193.4 | 155.2 | 132.1 | 130.5 | 0.785 | 0.791 | 0.795 | | |
| 686.3 | 387.2 | 318.5 | 336.1 | 189.6 | 156.0 | 0.889 | 0.936 | 0.833 | CHN | |
| 85.8 | 55.5 | 48.5 | 59.2 | 38.3 | 33.5 | 0.839 | 0.564 | 0.854 | HKG | |
| 63.4 | 62.3 | 59.6 | 80.6 | 79.2 | 75.7 | 0.664 | 0.618 | 0.734 | JPN | |
| 165.4 | 159.3 | 130.7 | 120.4 | 116.0 | 95.2 | 0.670 | 0.601 | 0.577 | KOR | |
| 437.9 | 379.7 | 242.8 | 228.3 | 198.0 | 126.6 | 0.705 | 0.584 | 0.528 | RUS | |
| 179.0 | 190.6 | 147.3 | 107.6 | 114.6 | 88.6 | 0.657 | 0.737 | 0.647 | TWN | |
| 137.6 | 164.8 | 155.0 | 55.5 | 67.5 | 63.6 | 0.646 | 0.654 | 0.679 | | |
| 172.3 | 169.1 | 174.0 | 76.8 | 75.4 | 77.6 | 0.695 | 0.874 | 0.660 | BRN | |
| 132.4 | 171.4 | 174.8 | 49.6 | 64.2 | 65.4 | 0.700 | 0.721 | 0.785 | IDN | |
| 201.9 | 207.2 | 197.2 | 88.4 | 90.7 | 86.3 | 0.784 | 0.685 | 0.707 | MYS | |
| 103.7 | 139.4 | 95.5 | 40.2 | 54.1 | 37.1 | 0.346 | 0.448 | 0.495 | PHL | |
| 79.0 | 67.3 | 50.9 | 52.2 | 44.5 | 33.7 | 0.539 | 0.525 | 0.520 | SGP | |
| 161.2 | 196.9 | 190.3 | 61.6 | 75.2 | 72.7 | 0.780 | 0.681 | 0.595 | THA | |
| 158.2 | 196.6 | 268.3 | 47.9 | 59.6 | 81.3 | 0.861 | 0.810 | 0.784 | VNM | |
| 104.0 | 95.4 | 77.9 | 138.4 | 127.0 | 103.7 | 0.754 | 0.756 | 0.742 | | |
| 107.5 | 98.3 | 80.0 | 148.6 | 135.8 | 110.5 | 0.794 | 0.801 | 0.786 | AUS | |
| 74.7 | 70.9 | 57.1 | 80.9 | 76.8 | 61.8 | 0.489 | 0.468 | 0.455 | NZL | |
| 144.2 | 127.4 | 119.9 | 96.1 | 84.9 | 79.9 | 0.729 | 0.742 | 0.642 | PNG | |
| 154.3 | 128.7 | 95.9 | 156.8 | 130.7 | 97.4 | 0.731 | 0.716 | 0.695 | | |
| 113.3 | 105.4 | 84.0 | 134.6 | 125.2 | 99.8 | 0.549 | 0.559 | 0.563 | CAN | |
| 158.9 | 131.2 | 97.2 | 158.9 | 131.2 | 97.2 | 0.751 | 0.734 | 0.711 | USA | |
| 111.1 | 103.1 | 99.0 | 67.4 | 62.7 | 60.1 | 0.585 | 0.635 | 0.622 | | |
| 99.8 | 89.1 | 90.2 | 69.4 | 62.0 | 62.8 | 0.572 | 0.528 | 0.588 | CHL | |
| 114.3 | 107.1 | 104.0 | 69.2 | 64.9 | 63.0 | 0.578 | 0.651 | 0.628 | MEX | |
| 92.7 | 86.5 | 77.3 | 48.4 | 45.2 | 40.4 | 0.718 | 0.675 | 0.637 | PER | |

Glossary

General note

For editing convenience the definition for some items with “++” mark are different with the publication of APEC Energy Statistics. In the Energy Balance sector the definition for all item are the same as the publication of APEC Energy Statistics.

Energies

Coal++

Defined as coal in narrow sense (all primary coal such as hard coal, lignite and brown coal) plus coal products (all fuels derived from coal including patent fuel, coke oven coke, gas coke, briquettes, coke oven gas and blast furnace gas).

Coal

Coal includes all primary coal, such as hard coal, lignite and brown coal.

Coal Products

Coal Products includes all fuels derived from coal including patent fuel, coke oven coke, gas coke, briquettes, coke oven gas, blast furnace gas and gas works gas.

Oil

Defined as crude oil (which comprises crude oil, refinery feedstocks and natural gas liquids and Natural LPG) plus petroleum products.

Crude Oil

Crude Oil comprises crude oil, refinery feedstocks and natural gas liquids.

Petroleum Products

Total of all petroleum products, such as LPG, naphtha, MOGAS(including AVGAS), jet fuel, kerosene, diesel oil, fuel oil, refinery gas and other petroleum products.

Mogas

Mogas is light hydrocarbon oil for use in internal engines such as motor vehicles. Motor gasoline is distilled between 35 °C and 215 °C and treated by reforming, catalytic cracking or blending with aromatic fraction to reach a sufficiently high octane number (≥ 80 RON).

Naphtha

Naphtha includes light or medium oils, a cut covering the end of the motor spirit and the beginning of the kerosene range. Naphtha distills between 30 °C and 210 °C.

Jet Fuel

Jet fuel comprises both gasoline and kerosene type jet fuels meeting

specifications for use in aviation turbine power units.

Gasoline type: This includes all light hydrocarbon oils, distilling between 100 °C and 250 °C. It distills at least 20 percent in volume at 143 °C.

Kerosene type: This medium oil with same distillation characteristics and flash point as kerosene, with a maximum aromatic content of 22 percent in volume, and treated to give a kinematic viscosity of less than 18cST at -20 °C (and a freezing point below -47 °C), octane number varying from 80 to 145 RON.

Kerosene

Kerosene comprises refined petroleum distillate intermediate in volatility between gasoline and gas/diesel oil. It is a medium oil distilling between 150 °C and 300 °C, which distills at least 65 percent in volume at 250 °C. Its specific gravity is in the region of 0.80 and the flash point is above 38 °C.

Diesel Oil

Diesel oil includes heavy gas oils. Gas oils are obtained from the lowest fraction from atmospheric distillation of crude oil, while heavy gas oils obtained by vacuum redistillation of the residual from atmospheric distillation.

Fuel Oil

Fuel oil defines oils that make up the distillation residue. It comprises all residual fuel oils (including those obtained by blending). Its kinematic viscosity is above 10 cSt at 80 °C. The flash point is always above 50 °C. and the density is always more than 0.90.

LPG

LPG is the light hydrocarbon fraction of the paraffin series, derived from refinery processes and from crude oil stabilization plants comprising propane (C_3H_8) and butane (C_4H_{10}) or a mixture of these two hydrocarbon.

Others

The category, "Other petroleum products", groups together white spirit and SBP, lubricants, bitumen, paraffin waxes, refining gas and others (tar, sulfur, grease).

Gas++

Defined as natural gas and LNG.

Natural Gas

Natural gas consists mainly of methane occurring naturally in underground deposits associated with crude oil or gas recovered from coal mines (colliery gas). Sewage gas is also included.

LNG

LNG is liquefied natural gas.

Glossary

| | |
|---|--|
| Hydro | The primary equivalent is calculated with an efficiency of 100%. |
| Nuclear | The primary equivalent is calculated with an efficiency of 33%. |
| Others | Defined as sum of geothermal power, wind, tide, photovoltaic power, biomass, etc. However, for Indonesia, Peru, Chinese Taipei, Thailand and Vietnam, non-commercial biomass was not included to keep historical consistency. The primary equivalent is calculated with an efficiency of 100% except for of geothermal power, which assumed efficiency is 10%. |
| Sectors | |
| Indigenous Production | |
| Quantities of fuels extracted within the economy. | |
| Net Imports | Defined as imports minus exports. |
| Total Primary Energy Supply (TPES) | Defined as indigenous production plus imports minus exports minus international marine and aviation bunkers plus or minus stock change. |
| Refining | Petroleum refineries shows the transformation of crude oil, NGL and condensate to petroleum products. The production of synthetic petrol from natural gas is also included. |
| Power Generation | Gross electricity (including power stations' own use) produced from thermal, hydro, nuclear, geothermal and other power plants of public utilities and auto-producers. An auto-producer is an establishment which, in addition to its main activities, generates electricity wholly or partially for its own use, such as industries, railways, refineries, etc. |
| Total Final Energy Consumption | Defined as industry plus transport plus residential and commercial plus others sector. |
| Industry | Consumption of the industry sector is specified in the following sub-sectors (energy use for transport by industry is not included here but reported under transport): - Iron and steel industry - Chemical industry - Non-ferrous metals basic industries - Non-metallic mineral products such as glass, ceramic, cement, etc. |

- Transport equipment
- Machinery. Fabricated metal products, machinery and equipment other than transport equipment
- Mining (excluding fuels) and quarrying
- Food processing, beverages and tobacco
- Pulp, paper and printing
- Wood and wood products (other than pulp and paper)
- Construction
- Textiles and leather
- Collection, purification and distribution of water
- Non-specified (any manufacturing industry not included above)

Transport

Consumption of the transport sector covers all transport activity regardless of the economic sector to which it is contributing, and is divided into the following sub-sectors:

- Domestic Air transport
- Road transport
- Railways
- Internal navigation (including small craft and coastal vessels not purchasing their bunker requirements under international marine bunker contracts).

Residential and Commercial

Defined as residential plus commercial.

*Residential shows all consumption by households

*Commercial shows consumption of the commercial and public sectors.

Others

Agriculture and non-energy use are included.

