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Table 19. Forecasts of annual average economic growth, 2004-2030

| <i>Forecast</i> | <i>Average annual percentage growth</i> | | | |
|--------------------|---|------------------|------------------|------------------|
| | <i>2004-2010</i> | <i>2010-2015</i> | <i>2015-2020</i> | <i>2020-2030</i> |
| <i>AEO2005</i> | 3.2 | 3.1 | 3.0 | NA |
| <i>AEO2006</i> | | | | |
| <i>Reference</i> | 3.3 | 3.0 | 3.1 | 2.8 |
| <i>Low growth</i> | 2.6 | 2.3 | 2.7 | 2.4 |
| <i>High growth</i> | 3.9 | 3.5 | 3.4 | 3.7 |
| <i>GII</i> | 3.2 | 3.0 | 3.0 | 2.8 |
| <i>OMB</i> | 3.3 | NA | NA | NA |
| <i>CBO</i> | 3.3 | 2.6 | NA | NA |
| <i>Blue Chip</i> | 3.3 | 3.2 | NA | NA |
| <i>INFORUM</i> | 2.9 | 2.5 | 2.6 | NA |
| <i>EEA</i> | 2.8 | 2.8 | 2.8 | 2.8 |
| <i>EVA</i> | 3.2 | NA | NA | NA |

NA = not available.

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**Table 20. Forecasts of world oil prices, 2010-2030
 (2004 dollars per barrel)**

| <i>Forecast</i> | 2010 | 2015 | 2020 | 2025 | 2030 |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|
| <i>AEO2005 (reference case)</i> | 27.18 | 28.97 | 30.88 | 32.95 | NA |
| <i>AEO2006</i> | | | | | |
| <i>Reference</i> | 47.29 | 47.79 | 50.70 | 54.08 | 56.97 |
| <i>High price</i> | 62.65 | 76.30 | 85.06 | 90.27 | 95.71 |
| <i>Low price</i> | 40.29 | 33.78 | 33.99 | 34.44 | 33.73 |
| <i>GII</i> | 37.82 | 34.06 | 31.53 | 33.50 | 34.50 |
| <i>Altos</i> | 27.58 | 31.14 | 34.02 | 37.89 | 40.03 |
| <i>IEA (reference)</i> | 35.00 | 36.00 | 37.00 | 38.00 | 39.00 |
| <i>IEA (deferred investment)</i> | 41.00 | 43.50 | 46.00 | 49.00 | 52.00 |
| <i>PEL</i> | 47.84 | 47.84 | 49.80 | 50.77 | NA |
| <i>PIRA</i> | 44.10 | 49.95 | 63.35 | NA | NA |
| <i>EEA</i> | 46.74 | 43.85 | 42.79 | 41.76 | NA |
| <i>DB</i> | 31.75 | 31.75 | 31.75 | 31.75 | 31.75 |
| <i>SEER</i> | 29.54 | 31.00 | 32.00 | 34.18 | 36.50 |
| <i>Delphi</i> | NA | 52.50 | 57.50 | 62.50 | 72.50 |

NA = not available.

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Table 21. Forecasts of average annual growth rates for energy consumption, 2004-2030 (percent)

| <i>Energy use</i> | <i>History</i> | <i>Projections</i> | |
|---------------------------|------------------|--------------------|------------|
| | <i>1980-2004</i> | <i>AEO2006</i> | <i>GII</i> |
| <i>Petroleum*</i> | 0.9 | 1.2 | 1.3 |
| <i>Natural gas*</i> | 0.2 | 0.7 | 0.9 |
| <i>Coal*</i> | -1.5 | 2.0 | -0.4 |
| <i>Electricity</i> | 2.2 | 1.6 | 1.5 |
| <i>Delivered energy</i> | 0.7 | 1.1 | 1.1 |
| <i>Electricity losses</i> | 1.9 | 1.2 | 0.9 |
| <i>Primary energy</i> | 1.0 | 1.2 | 1.1 |

**Excludes consumption by electricity generators in the electric power sector; includes consumption for end-use combined heat and power generation.*

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Table 22. Comparison of electricity forecasts, 2015 and 2030 (billion kilowatthours, except where noted)

| Projection | 2004 | AEO2006 | | | Other forecasts | | | | |
|---|--------------|--------------|---------------------|----------------------|-----------------|--------------|--------------|--------------|--------------|
| | | Reference | Low economic growth | High economic growth | GII | EVA | EEA | SEER | PIRA |
| 2015 | | | | | | | | | |
| Average end-use price (2003 cents per kilowatthour) | 7.6 | 7.1 | 6.9 | 7.3 | 7.6 | NA | NA | NA | NA |
| Residential | 8.9 | 8.3 | 8.1 | 8.5 | 8.8 | 9.0 | NA | NA | NA |
| Commercial | 8.0 | 7.4 | 7.2 | 7.6 | 8.2 | 8.0 | NA | NA | NA |
| Industrial | 5.3 | 5.1 | 4.9 | 5.3 | 5.2 | 5.8 | NA | NA | NA |
| Net energy for load, including CHP | 3,614 | 4,813 | 4,642 | 4,984 | 4,663 | 4,966 | 4,970 | 4,875 | 4,658 |
| Coal | 1,977 | 2,277 | 2,245 | 2,360 | 2,217 | 2,267 | 2,281 | 2,211 | 2,293 |
| Oil | 136 | 120 | 116 | 126 | 56 | 37 | 96 | 126 | 90 |
| Natural gas ^a | 326 | 1,018 | 929 | 1,069 | 1,080 | 1,286 | 1,323 | 1,238 | 1,004 |
| Nuclear | 789 | 829 | 807 | 840 | 814 | 842 | 811 | 826 | 819 |
| Hydroelectric/other ^b | 349 | 482 | 469 | 495 | 496 | 521 | 381 | 457 | 452 |
| Nonutility sales to grid ^c | 26 | 62 | 57 | 70 | NA | NA | 41 | NA | NA |
| Net imports | 11 | 23 | 19 | 25 | 17 | 13 | 38 | 17 | 22 |
| Electricity sales | 3,567 | 4,300 | 4,147 | 4,449 | 4,239 | 4,638 | 4,456 | NA | NA |
| Residential | 1,293 | 1,576 | 1,539 | 1,613 | 1,593 | 1,697 | 1,575 | NA | NA |
| Commercial/other ^d | 1,253 | 1,620 | 1,583 | 1,650 | 1,493 | 1,718 | 1,602 | NA | NA |
| Industrial | 1,021 | 1,103 | 1,024 | 1,185 | 1,153 | 1,225 | 1,278 | NA | NA |
| Capability, including CHP (gigawatts)^e | 965 | 1,002 | 977 | 1,026 | 1,008 | 1,055 | 1,046 | NA | NA |
| Coal | 314 | 326 | 323 | 336 | 331 | 338 | 331 | NA | NA |
| Oil and natural gas | 433 | 439 | 422 | 451 | 429 | 487 | 478 | NA | NA |
| Nuclear | 100 | 104 | 101 | 105 | 101 | 105 | 102 | NA | NA |
| Hydroelectric/other | 118 | 133 | 131 | 134 | 147 | 125 | 136 | NA | NA |
| 2030 | | | | | | | | | |
| Average end-use price (2002 cents per kilowatthour) | 7.6 | 7.5 | 7.2 | 7.8 | 7.4 | NA | NA | NA | NA |
| Residential | 8.9 | 8.5 | 8.2 | 8.8 | 8.5 | NA | NA | NA | NA |
| Commercial | 8.0 | 7.8 | 7.4 | 8.2 | 8.0 | NA | NA | NA | NA |
| Industrial | 5.3 | 5.4 | 5.2 | 5.7 | 5.0 | NA | NA | NA | NA |
| Net energy for load, including CHP | 3,614 | 6,119 | 5,496 | 6,748 | 5,828 | NA | NA | 6,237 | NA |
| Coal | 1,977 | 3,381 | 2,835 | 3,897 | 3,032 | NA | NA | 3,221 | NA |
| Oil | 136 | 131 | 121 | 138 | 27 | NA | NA | 127 | NA |
| Natural gas ^a | 326 | 993 | 1,010 | 990 | 1,453 | NA | NA | 1,407 | NA |
| Nuclear | 789 | 871 | 856 | 871 | 774 | NA | NA | 926 | NA |
| Hydroelectric/other ^b | 349 | 550 | 517 | 609 | 542 | NA | NA | 528 | NA |
| Nonutility sales to grid ^c | 26 | 179 | 143 | 229 | NA | NA | NA | NA | NA |
| Net imports | 11 | 14 | 13 | 15 | 12 | NA | NA | 28 | NA |
| Electricity sales | 3,567 | 5,341 | 4,828 | 5,854 | 5,289 | NA | NA | NA | NA |
| Residential | 1,293 | 1,897 | 1,759 | 2,036 | 2,001 | NA | NA | NA | NA |
| Commercial/other ^d | 1,253 | 2,182 | 1,997 | 2,366 | 1,926 | NA | NA | NA | NA |
| Industrial | 1,021 | 1,262 | 1,073 | 1,453 | 1,362 | NA | NA | NA | NA |
| Capability, including CHP (gigawatts)^e | 965 | 1,248 | 1,134 | 1,362 | 1,209 | NA | NA | NA | NA |
| Coal | 314 | 481 | 405 | 555 | 449 | NA | NA | NA | NA |
| Oil and natural gas | 433 | 513 | 483 | 545 | 501 | NA | NA | NA | NA |
| Nuclear | 100 | 109 | 107 | 109 | 101 | NA | NA | NA | NA |
| Hydroelectric/other | 118 | 145 | 139 | 154 | 158 | NA | NA | NA | NA |

^aIncludes supplemental gaseous fuels. ^b"Other" includes conventional hydroelectric, pumped storage, geothermal, wood, wood waste, municipal waste, other biomass, solar and wind power, plus a small quantity of petroleum coke. ^cFor AEO2006, includes only net sales from combined heat and power plants. ^d"Other" includes sales of electricity to government, railways, and street lighting authorities. ^eEIA capacity is net summer capability, including combined heat and power plants. GII capacity is nameplate, excluding cogeneration plants. CHP = combined heat and power. NA = not available.

Sources: **2004 and AEO2006:** AEO2006 National Energy Modeling System, runs AEO2006.D111905A (reference case), LM2006.D113005A (low economic growth case), and HM2006.D112505B (high economic growth case). **GII:** Global Insight, Inc., *Summer 2005 U.S. Energy Outlook* (August 2005). **EVA:** Energy Ventures Analysis, Inc., *FUELCAST: Long-Term Outlook* (August 2005). **EEA:** Energy and Environmental Analysis, Inc., *EEA's Compass Service Base Case* (October 2005). **SEER:** Strategic Energy and Economic Research, Inc., *2005 Energy Outlook* (October 2005). **PIRA:** PIRA Energy Group (October 2005).

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Table 23. Comparison of natural gas forecasts, 2015, 2025, and 2030 (trillion cubic feet, except where noted)

| Projection | 2004 | AEO2006 reference case | Other forecasts | | | | | | |
|---|-------|------------------------------|--------------------|--------------------|--------------------|-------------------|-------|-------|-------|
| | | | GII ^a | EEA ^b | EVA | PIRA | DB | SEER | Altos |
| 2015 | | | | | | | | | |
| Dry gas production^c | 18.46 | 20.36 | 19.19 | 21.12 | 18.64 ^d | 17.61 | 21.38 | 19.68 | 20.74 |
| Net imports | 3.40 | 5.10 | 6.80 | 7.11 | 9.67 | 7.33 | 4.30 | 7.86 | 7.92 |
| Pipeline | 2.81 | 2.05 ^e | 2.17 | 2.82 | 4.78 | 3.28 | 1.75 | 3.00 | 1.82 |
| LNG | 0.59 | 3.05 | 4.63 | 4.29 | 4.89 | 4.05 | 2.55 | 4.85 | 6.10 |
| Consumption | 22.41 | 25.91 | 26.16 | 27.98 | 28.32 | 25.32 | 25.67 | 28.18 | NA |
| Residential | 4.88 | 5.36 | 5.15 | 5.49 | 5.33 | 5.24 | 5.53 | 5.45 | 5.41 |
| Commercial | 3.00 | 3.36 | 3.09 | 3.35 | 3.41 | 3.53 | 3.53 | 3.28 | 3.54 |
| Industrial ^f | 7.41 | 8.08 | 7.57 ^g | 6.98 ^h | 7.99 ⁱ | 6.61 ^j | 8.17 | 7.83 | 7.53 |
| Electricity generators ^k | 5.32 | 7.14 | 8.44 ^l | 10.08 ^m | 9.42 | 8.01 ⁿ | 6.63 | 9.61 | 9.30 |
| Other ^o | 1.80 | 1.97 | 1.92 | 2.08 | 2.17 ^p | 1.95 | 1.81 | 2.01 | NA |
| Lower 48 wellhead price (2004 dollars per thousand cubic feet) | 5.49 | 4.52 | 4.73 | 5.91 | 5.53 | 5.55 ^q | 5.03 | 4.65 | 4.15 |
| End-use prices (2004 dollars per thousand cubic feet) | | | | | | | | | |
| Residential | 10.72 | 10.11 | 9.21 | 9.33 | NA | NA | NA | 9.68 | NA |
| Commercial | 9.38 | 8.37 | 8.11 | 8.57 | NA | NA | NA | 7.97 | NA |
| Industrial ^f | 6.29 | 5.32 | 6.09 ^r | 6.81 | NA | NA | NA | 5.75 | NA |
| Electricity generators ^k | 6.07 | 5.21 | 5.13 | 6.62 | NA | NA | NA | 5.32 | NA |
| 2025 | | | | | | | | | |
| Dry gas production^c | 18.46 | 21.16 | 20.46 | 21.38 | 19.27 ^d | NA | 18.95 | 21.53 | 25.77 |
| Net imports | 3.40 | 5.37 | 8.64 | 8.89 | 11.80 | NA | 8.19 | 8.47 | 7.69 |
| Pipeline | 2.81 | 1.24 ^e | 1.61 | 1.81 | 3.64 | NA | 4.75 | 1.90 | 0.70 |
| LNG | 0.59 | 4.13 | 7.03 | 7.07 | 8.16 | NA | 3.44 | 6.57 | 6.99 |
| Consumption | 22.41 | 26.99 | 29.28 | 30.33 | 31.08 | NA | 27.74 | 30.44 | NA |
| Residential | 4.88 | 5.57 | 5.61 | 5.88 | 5.44 | NA | 6.11 | 5.89 | 6.09 |
| Commercial | 3.00 | 3.77 | 3.34 | 3.56 | 3.76 | NA | 3.99 | 3.49 | 4.19 |
| Industrial ^f | 7.41 | 8.51 | 8.14 ^s | 7.64 ^h | 8.95 ^t | NA | 9.03 | 8.37 | 7.73 |
| Electricity generators ^k | 5.32 | 7.05 | 10.10 ^l | 11.14 ^m | 10.55 | NA | 6.97 | 10.50 | 11.37 |
| Other ^o | 1.80 | 2.08 | 2.09 | 2.12 | 2.38 ^p | NA | 1.64 | 2.19 | NA |
| Lower 48 wellhead price (2003 dollars per thousand cubic feet) | 5.49 | 5.43 | 4.52 | 6.45 | 6.07 | NA | 5.03 | 5.13 | 5.67 |
| End-use prices (2003 dollars per thousand cubic feet) | | | | | | | | | |
| Residential | 10.72 | 11.10 | 8.82 | 9.71 | NA | NA | NA | 9.92 | NA |
| Commercial | 9.38 | 9.11 | 7.73 | 8.99 | NA | NA | NA | 8.30 | NA |
| Industrial ^f | 6.29 | 6.18 | 5.81 ^r | 7.22 | NA | NA | NA | 6.07 | NA |
| Electricity generators ^o | 6.07 | 6.02 | 4.90 | 6.86 | NA | NA | NA | 5.61 | NA |
| 2030 | | | | | | | | | |
| Dry gas production^c | 18.46 | 20.83 | 21.40 | NA | 18.96 ^d | NA | 18.95 | 21.70 | 28.13 |
| Net imports | 3.40 | 5.57 | 9.06 | NA | 13.30 | NA | 9.86 | 9.33 | 7.92 |
| Pipeline | 2.81 | 1.22 ^e | 1.37 | NA | 2.80 | NA | 1.75 | 1.00 | 0.20 |
| LNG | 0.59 | 4.36 | 7.68 | NA | 10.50 | NA | 8.11 | 8.33 | 7.72 |
| Consumption | 22.41 | 26.86 | 30.64 | NA | 32.39 | NA | 28.81 | 31.56 | NA |
| Residential | 4.88 | 5.64 | 5.84 | NA | 5.49 | NA | 6.42 | 6.12 | 6.48 |
| Commercial | 3.00 | 3.99 | 3.48 | NA | 3.96 | NA | 4.20 | 3.63 | 4.56 |
| Industrial ^f | 7.41 | 8.81 | 8.48 ^s | NA | 9.45 ^t | NA | 9.49 | 8.73 | 7.85 |
| Electricity generators ^k | 5.32 | 6.38 | 10.67 ^l | NA | 11.01 | NA | 7.14 | 10.85 | 12.54 |
| Other ^o | 1.80 | 2.04 | 2.17 | NA | 2.48 ^p | NA | 1.56 | 2.24 | NA |
| Lower 48 wellhead price (2004 dollars per thousand cubic feet) | 5.49 | 5.92 | 4.65 | NA | 6.52 | NA | 5.02 | 5.42 | 6.30 |
| End-use prices (2004 dollars per thousand cubic feet) | | | | | | | | | |
| Residential | 10.72 | 11.67 | 8.86 | NA | NA | NA | NA | 10.16 | NA |
| Commercial | 9.38 | 9.58 | 7.79 | NA | NA | NA | NA | 8.60 | NA |
| Industrial ^f | 6.29 | 6.65 | 5.90 ^r | NA | NA | NA | NA | 6.37 | NA |
| Electricity generators ^k | 6.07 | 6.41 | 5.02 | NA | NA | NA | NA | 5.92 | NA |

NA = not available.

^aFebruary 2005 (previously DRI-WEFA). Conversion factors: 1,000 cubic feet = 1.027 million Btu for production, 1.028 million Btu for end-use consumption, 1.019 million Btu for electric power. ^bThe EEA projection shows a cyclical price trend; forecast values for an isolated year may be misleading. ^cDoes not include supplemental fuels. ^dIncludes supplemental fuels. ^eIncludes LNG imports into Florida via the Bahamas. ^fIncludes consumption for industrial combined heat and power (CHP) plants and a small number of electricity-only plants; excludes consumption by nonutility generators. ^gExcludes gas used in cogeneration or other nonutility generation. ^hIncludes natural gas consumed in cogeneration. ⁱIncludes transportation fuel consumed in natural gas vehicles. ^jExcludes gas demand for nonutility generation. ^kIncludes consumption of energy by electricity-only and CHP plants whose primary business is to sell electricity, or electricity and heat, to the public; includes electric utilities, small power producers, and exempt wholesale generators. ^lIncludes gas used in cogeneration or other nonutility generation. ^mIncludes independent power producers; excludes cogenerators. ⁿEquals the sum of natural gas demand for nonutility generation (NUG) and for utility generation. ^oIncludes lease, plant, and pipeline fuel and fuel consumed in natural gas vehicles. ^pIncludes lease, plant, and pipeline fuel. ^qHenry Hub daily cash price for natural gas, in 2004 dollars per thousand cubic feet. ^rOn-system sales or system gas (i.e., does not include gas delivered for the account of others).

Sources: **2004 and AEO2006:** AEO2006 National Energy Modeling System, run AEO2006.D111905A (reference case). **GII:** Global Insight, Inc., *Summer 2005 U.S. Energy Outlook* (August 2005). **EEA:** Energy and Environmental Analysis, Inc., *EEA's Compass Service Base Case* (October 2005). **EVA:** Energy Ventures Analysis, Inc., *FUELCAST: Long-Term Outlook* (August 2005). **PIRA:** PIRA Energy Group (October 2005). **DB:** Deutsche Bank AG, e-mail from Adam Sieminski on October 31, 2005. **SEER:** Strategic Energy and Economic Research, Inc., *2005 Energy Outlook* (October 2005). **Altos:** Altos Partners North American Regional Gas Model (NARG) Long-Term Base Case (October 7, 2005).

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Table 24. Comparison of petroleum forecasts, 2015 and 2030 (million barrels per day, except where noted)

| Projection | 2004 | AEO2006 | | | Other forecasts | | | |
|---|--------------|--------------|--------------|--------------|-----------------|--------------|--------------|--------------|
| | | Reference | Low price | High price | GII | DB | EVA | PIRA |
| 2015 | | | | | | | | |
| Crude oil and NGL production | 7.23 | 7.72 | 7.34 | 6.49 | 6.56 | NA | 7.88 | 7.61 |
| Crude oil | 5.42 | 5.84 | 5.02 | 4.98 | NA | 4.99 | 5.99 | 5.76 |
| Natural gas liquids | 1.81 | 1.88 | 2.32 | 1.51 | NA | NA | 1.89 | 1.85 |
| Total net imports | 12.11 | 13.23 | 15.08 | 15.31 | NA | 14.37 | 14.06 | 11.87 |
| Crude oil | 10.06 | 10.47 | 11.28 | NA | NA | 11.74 | 11.06 | 9.65 |
| Petroleum products | 2.05 | 2.76 | 3.79 | NA | NA | 2.63 | 3.00 | 2.22 |
| Petroleum demand | 20.76 | 23.53 | 23.71 | 23.43 | NA | 23.01 | 24.48 | 22.21 |
| Motor gasoline | 9.10 | 10.63 | 10.69 | 10.39 | NA | 9.14 | 11.07 | 9.85 |
| Jet fuel | 1.63 | 2.06 | 1.98 | 1.88 | NA | 2.11 | 2.09 | 2.03 |
| Distillate fuel | 4.06 | 4.91 | 4.60 | 4.81 | NA | 4.83 | 5.05 | 4.72 |
| Residual fuel | 0.87 | 0.73 | 0.71 | 0.83 | NA | 0.72 | 0.83 | 0.66 |
| Other | 5.10 | 5.20 | 5.74 | 5.51 | NA | 6.21 | 5.44 | 4.95 |
| Import share of product supplied (percent) | 58 | 56 | 64 | 65 | NA | 62 | 57 | 53 |
| 2030 | | | | | | | | |
| Crude oil and NGL production | 7.23 | 6.44 | 7.17 | 4.78 | 4.70 | NA | 6.41 | 6.85 |
| Crude oil | 5.42 | 4.57 | 4.59 | 3.69 | NA | NA | 4.49 | 4.96 |
| Natural gas liquids | 1.81 | 1.87 | 2.58 | 1.09 | NA | NA | 1.92 | 1.89 |
| Total net imports | 12.11 | 17.24 | 19.69 | 21.13 | NA | NA | 20.21 | 13.28 |
| Crude oil | 10.06 | 13.51 | 13.01 | NA | NA | NA | 15.51 | 11.24 |
| Petroleum products | 2.05 | 3.73 | 6.67 | NA | NA | NA | 4.70 | 2.04 |
| Petroleum demand | 20.76 | 27.57 | 28.24 | 27.74 | NA | NA | 29.57 | 25.17 |
| Motor gasoline | 9.10 | 12.49 | 12.59 | 12.25 | NA | NA | 13.68 | 10.96 |
| Jet fuel | 1.63 | 2.31 | 2.89 | 2.29 | NA | NA | 2.33 | 2.09 |
| Distillate fuel | 4.06 | 6.09 | 5.31 | 5.81 | NA | NA | 6.29 | 5.99 |
| Residual fuel | 0.87 | 0.78 | 0.64 | 0.91 | NA | NA | 1.01 | 0.70 |
| Other | 5.10 | 5.89 | 6.80 | 6.49 | NA | NA | 6.26 | 5.44 |
| Import share of product supplied (percent) | 58 | 62 | 70 | 76 | NA | NA | 68 | 53 |

NA = Not available.

Sources: **2004 and AEO2006:** AEO2006 National Energy Modeling System, runs AEO2006.D111905A (reference case), LP2006.D113005A (low price case), and HP2006.D120105A (high price case). **GII:** Global Insight, Inc., *Summer 2005 U.S. Energy Outlook* (August 2005). **DB:** Deutsche Bank AG, e-mail from Adam Sieminski on October 31, 2005. **EVA:** Energy Ventures Analysis, Inc., *FUELCAST: Long-Term Outlook* (August 2005). **PIRA:** PIRA Energy Group (October 2005).

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Table 25. Comparison of coal forecasts, 2015, 2025, and 2030 (million short tons, except where noted)

| Projection | 2004 | AEO2006 | | | Other forecasts | | |
|--|--------------|--------------|---------------------|----------------------|-----------------|--------------------|--------------------|
| | | Reference | Low economic growth | High economic growth | PIRA | EVA | GII |
| 2015 | | | | | | | |
| Production | 1,125 | 1,272 | 1,251 | 1,318 | 1,250 | 1,234 | 1,149 |
| Consumption by sector | | | | | | | |
| Electric power | 1,015 | 1,161 | 1,145 | 1,199 | 1,171 | 1,140 | 1,071 |
| Coke plants | 24 | 22 | 21 | 23 | NA | 29 | 19 |
| Coal-to-liquids | 0 | 22 | 19 | 27 | NA | NA | NA |
| Industrial/other | 65 | 71 | 69 | 72 | 88 ^a | 65 | 66 |
| Total | 1,104 | 1,276 | 1,254 | 1,321 | 1,259 | 1,234 | 1,156 |
| Net coal exports | 20.7 | -4.8 | -4.8 | -4.8 | -8.0 | -17.3 | -7.7 |
| Exports | 48.0 | 22.0 | 22.0 | 22.0 | NA | 28.0 | 28.6 |
| Imports | 27.3 | 26.7 | 26.7 | 26.8 | NA | 45.3 | 36.3 |
| Minemouth price | | | | | | | |
| (2004 dollars per short ton) | 20.07 | 20.39 | 20.04 | 20.67 | NA | 19.69 ^b | 17.82 ^d |
| (2004 dollars per million Btu) | 0.98 | 1.01 | 0.99 | 1.02 | NA | 0.99 ^c | 0.86 ^d |
| Average delivered price to electricity generators | | | | | | | |
| (2004 dollars per short ton) | 27.43 | 28.12 | 27.74 | 28.50 | NA | 29.45 ^b | 28.17 ^e |
| (2004 dollars per million Btu) | 1.36 | 1.40 | 1.39 | 1.42 | NA | 1.48 ^b | 1.36 |
| 2025 | | | | | | | |
| Production | 1,125 | 1,530 | 1,394 | 1,710 | NA | 1,404 | 1,296 |
| Consumption by sector | | | | | | | |
| Electric power | 1,015 | 1,354 | 1,248 | 1,486 | NA | 1,329 | 1,226 |
| Coke plants | 24 | 21 | 19 | 23 | NA | 26 | 16 |
| Coal-to-liquids | 0 | 146 | 115 | 192 | NA | NA | NA |
| Industrial/other | 65 | 71 | 68 | 73 | NA | 60 | 67 |
| Total | 1,104 | 1,592 | 1,450 | 1,774 | NA | 1,415 | 1,309 |
| Net coal exports | 20.7 | -62.8 | -57.9 | -65.5 | NA | -29.2 | -15.1 |
| Exports | 48.0 | 19.6 | 19.6 | 18.4 | NA | 30.1 | 23.4 |
| Imports | 27.3 | 82.4 | 77.4 | 84.0 | NA | 59.3 | 38.5 |
| Minemouth price | | | | | | | |
| (2004 dollars per short ton) | 20.07 | 20.63 | 19.40 | 21.73 | NA | 20.15 ^b | 16.12 ^d |
| (2004 dollars per million Btu) | 0.98 | 1.03 | 0.98 | 1.09 | NA | 1.02 ^c | 0.78 ^d |
| Average delivered price to electricity generators | | | | | | | |
| (2004 dollars per short ton) | 27.43 | 29.02 | 27.48 | 30.87 | NA | 30.12 ^b | 25.84 ^e |
| (2004 dollars per million Btu) | 1.36 | 1.44 | 1.37 | 1.52 | NA | 1.53 ^b | 1.25 |
| 2030 | | | | | | | |
| Production | 1,125 | 1,703 | 1,497 | 1,936 | NA | NA | 1,395 |
| Consumption by sector | | | | | | | |
| Electric power | 1,015 | 1,502 | 1,331 | 1,680 | NA | NA | 1,330 |
| Coke plants | 24 | 21 | 19 | 23 | NA | NA | 14 |
| Coal-to-liquids | 0 | 190 | 153 | 247 | NA | NA | NA |
| Industrial/other | 65 | 72 | 68 | 75 | NA | NA | 67 |
| Total | 1,104 | 1,784 | 1,571 | 2,025 | NA | NA | 1,411 |
| Net coal exports | 20.7 | -82.7 | -69.3 | -89.0 | NA | NA | -18.7 |
| Exports | 48.0 | 16.7 | 16.4 | 16.8 | NA | NA | 22.3 |
| Imports | 27.3 | 99.4 | 85.7 | 105.8 | NA | NA | 41.0 |
| Minemouth price | | | | | | | |
| (2004 dollars per short ton) | 20.07 | 21.73 | 19.91 | 23.05 | NA | NA | 15.65 ^d |
| (2004 dollars per million Btu) | 0.98 | 1.09 | 1.00 | 1.15 | NA | NA | 0.76 ^d |
| Average delivered price to electricity generators | | | | | | | |
| (2004 dollars per short ton) | 27.43 | 30.58 | 28.28 | 32.79 | NA | NA | 25.23 ^e |
| (2004 dollars per million Btu) | 1.36 | 1.51 | 1.41 | 1.61 | NA | NA | 1.22 |

Btu = British thermal unit. NA = Not available.

^aIncludes coal consumed at coke plants.

^bThe average coal price is a weighted average of the projected spot market price for the electric power sector only and was converted from 2005 dollars to 2004 dollars to be consistent with AEO2006.

^cEstimated by dividing the minemouth price in dollars per short ton by the average heat content of coal delivered to the electric power sector.

^dThe minemouth prices are average prices for the electric power sector only and are calculated as a weighted average from Census region prices.

^eCalculated by multiplying the delivered price of coal to the electric power sector in dollars per million Btu by the average heat content of coal delivered to the electric power sector.

Sources: **2004 and AEO2006:** AEO2006 National Energy Modeling System, runs AEO2006.D111905A (reference case), LM2006.D113005A (low economic growth case), and HM2006.D112505B (high economic growth case). **PIRA:** PIRA Energy Group (October 2005). **EVA:** Energy Ventures Analysis, Inc., *FUELCAST: Long-Term Outlook* (August 2005). **GII:** Global Insight, Inc., *U.S. Energy Outlook* (Summer 2005).

Report #:DOE/EIA-0383(2006)
 Release date full report: February 2006
 Next release date full report: February 2007

Table 25. Comparison of coal forecasts, 2015, 2025, and 2030 (continued)
 (million short tons, except where noted)

| Projection | 2004 | AEO2006 | | | Other forecasts | | |
|--|--------------|--------------|---------------------|----------------------|-----------------|-----------|--------------------|
| | | Reference | Low economic growth | High economic growth | PIRA | EVA | GII |
| | | 2030 | | | | | |
| Production | 1,125 | 1,703 | 1,497 | 1,936 | NA | NA | 1,395 |
| Consumption by sector | | | | | | | |
| Electric power | 1,015 | 1,502 | 1,331 | 1,680 | NA | NA | 1,330 |
| Coke plants | 24 | 21 | 19 | 23 | NA | NA | 14 |
| Coal-to-liquids | 0 | 190 | 153 | 247 | NA | NA | NA |
| Industrial/other | 65 | 72 | 68 | 75 | NA | NA | 67 |
| Total | 1,104 | 1,784 | 1,571 | 2,025 | NA | NA | 1,411 |
| Net coal exports | 20.7 | -82.7 | -69.3 | -89.0 | NA | NA | -18.7 |
| Exports | 48.0 | 16.7 | 16.4 | 16.8 | NA | NA | 22.3 |
| Imports | 27.3 | 99.4 | 85.7 | 105.8 | NA | NA | 41.0 |
| Minemouth price | | | | | | | |
| (2004 dollars per short ton) | 20.07 | 21.73 | 19.91 | 23.05 | NA | NA | 15.65 ^d |
| (2004 dollars per million Btu) | 0.98 | 1.09 | 1.00 | 1.15 | NA | NA | 0.76 ^d |
| Average delivered price to electricity generators | | | | | | | |
| (2004 dollars per short ton) | 27.43 | 30.58 | 28.28 | 32.79 | NA | NA | 25.23 ^e |
| (2004 dollars per million Btu) | 1.36 | 1.51 | 1.41 | 1.61 | NA | NA | 1.22 |

Btu = British thermal unit. NA = Not available.

^aIncludes coal consumed at coke plants.

^bThe average coal price is a weighted average of the projected spot market price for the electric power sector only and was converted from 2005 dollars to 2004 dollars to be consistent with AEO2006.

^cEstimated by dividing the minemouth price in dollars per short ton by the average heat content of coal delivered to the electric power sector.

^dThe minemouth prices are average prices for the electric power sector only and are calculated as a weighted average from Census region prices.

^eCalculated by multiplying the delivered price of coal to the electric power sector in dollars per million Btu by the average heat content of coal delivered to the electric power sector.

Sources: **2004 and AEO2006:** AEO2006 National Energy Modeling System, runs AEO2006.D111905A (reference case), LM2006.D113005A (low economic growth case), and HM2006.D112505B (high economic growth case). **PIRA:** PIRA Energy Group (October 2005). **EVA:** Energy Ventures Analysis, Inc., *FUELCAST: Long-Term Outlook* (August 2005). **GII:** Global Insight, Inc., *U.S. Energy Outlook* (Summer 2005).