

Appendix F

# Reference Case Projections by End-Use Sector and Region



**Table F1. Total World Delivered Energy Consumption by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	10.9	11.5	12.2	12.7	12.9	13.0	0.7
Natural Gas . . . . .	18.4	20.2	21.7	22.8	23.7	24.9	1.2
Coal . . . . .	3.5	3.7	4.0	4.0	3.9	3.8	0.3
Electricity . . . . .	14.3	17.8	20.4	22.6	24.6	26.6	2.4
Renewables . . . . .	0.5	0.7	0.7	0.7	0.7	0.7	1.2
<b>Total . . . . .</b>	<b>47.7</b>	<b>53.9</b>	<b>59.0</b>	<b>62.7</b>	<b>65.8</b>	<b>69.0</b>	<b>1.4</b>
<b>Commercial</b>							
Liquids . . . . .	5.3	5.5	5.8	5.9	6.0	6.2	0.6
Natural Gas . . . . .	6.7	7.2	7.8	8.3	8.8	9.3	1.2
Coal . . . . .	0.7	0.8	0.9	1.0	1.0	1.0	1.2
Electricity . . . . .	11.7	14.6	17.0	19.2	21.5	24.0	2.8
Renewables . . . . .	0.1	0.2	0.2	0.2	0.2	0.2	1.8
<b>Total . . . . .</b>	<b>24.5</b>	<b>28.3</b>	<b>31.7</b>	<b>34.6</b>	<b>37.5</b>	<b>40.7</b>	<b>2.0</b>
<b>Industrial</b>							
Liquids . . . . .	55.5	61.0	64.5	67.9	70.9	74.2	1.1
Natural Gas . . . . .	45.2	51.5	56.6	63.1	68.3	73.3	1.9
Coal . . . . .	35.4	39.5	45.3	50.4	55.9	62.0	2.2
Electricity . . . . .	25.3	28.6	32.2	36.1	39.9	44.3	2.2
Renewables . . . . .	2.2	2.6	2.8	2.9	3.1	3.3	1.6
<b>Total . . . . .</b>	<b>163.6</b>	<b>183.1</b>	<b>201.4</b>	<b>220.5</b>	<b>238.1</b>	<b>257.1</b>	<b>1.8</b>
<b>Transportation</b>							
Liquids . . . . .	85.9	95.4	104.1	112.9	122.7	133.8	1.7
Natural Gas . . . . .	0.8	1.0	1.1	1.2	1.3	1.3	1.8
Coal . . . . .	0.2	0.2	0.2	0.2	0.2	0.1	-2.4
Electricity . . . . .	0.8	0.9	1.0	1.1	1.2	1.2	1.7
<b>Total . . . . .</b>	<b>87.7</b>	<b>97.5</b>	<b>106.3</b>	<b>115.4</b>	<b>125.3</b>	<b>136.5</b>	<b>1.7</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	157.6	173.4	186.5	199.3	212.5	227.2	1.4
Natural Gas . . . . .	71.3	79.9	87.2	95.4	102.0	108.8	1.6
Coal . . . . .	39.7	44.2	50.4	55.6	60.9	66.8	2.0
Electricity . . . . .	52.1	61.9	70.6	79.0	87.2	96.1	2.4
Renewables . . . . .	2.9	3.5	3.7	3.9	4.1	4.3	1.5
<b>Delivered Energy . . . . .</b>	<b>323.5</b>	<b>362.9</b>	<b>398.4</b>	<b>433.2</b>	<b>466.7</b>	<b>503.3</b>	<b>1.7</b>
Electricity-Related Losses . . . . .	123.2	148.2	161.0	173.8	187.0	198.3	1.8
<b>Total . . . . .</b>	<b>446.7</b>	<b>511.1</b>	<b>559.4</b>	<b>607.0</b>	<b>653.7</b>	<b>701.6</b>	<b>1.8</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	10.6	10.5	11.0	11.3	11.6	11.6	0.4
Natural Gas . . . . .	32.2	40.7	47.1	51.6	56.5	61.6	2.5
Coal . . . . .	74.7	92.2	101.2	111.6	122.0	132.4	2.2
Nuclear . . . . .	27.5	29.8	32.5	35.7	38.1	39.7	1.4
Renewables . . . . .	30.3	36.9	39.8	42.7	46.0	49.2	1.9
<b>Total . . . . .</b>	<b>175.2</b>	<b>210.1</b>	<b>231.6</b>	<b>252.9</b>	<b>274.2</b>	<b>294.5</b>	<b>2.0</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	168.2	183.9	197.6	210.6	224.1	238.9	1.4
Natural Gas . . . . .	103.4	120.6	134.3	147.0	158.5	170.4	1.9
Coal . . . . .	114.5	136.4	151.6	167.2	182.9	199.1	2.2
Nuclear . . . . .	27.5	29.8	32.5	35.7	38.1	39.7	1.4
Renewables . . . . .	33.2	40.4	43.4	46.5	50.1	53.5	1.9
<b>Total . . . . .</b>	<b>446.7</b>	<b>511.1</b>	<b>559.4</b>	<b>607.0</b>	<b>653.7</b>	<b>701.6</b>	<b>1.8</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run AEO2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

**Table F2. Total OECD Delivered Energy Consumption by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	5.7	5.4	5.5	5.5	5.5	5.5	-0.1
Natural Gas . . . . .	12.4	12.7	13.0	13.2	13.3	13.4	0.3
Coal . . . . .	0.4	0.3	0.3	0.3	0.3	0.3	-1.4
Electricity . . . . .	9.2	10.5	11.1	11.6	12.2	12.9	1.3
Renewables . . . . .	0.5	0.6	0.6	0.6	0.6	0.7	0.9
<b>Total . . . . .</b>	<b>28.2</b>	<b>29.6</b>	<b>30.5</b>	<b>31.3</b>	<b>32.0</b>	<b>32.8</b>	<b>0.6</b>
<b>Commercial</b>							
Liquids . . . . .	3.7	3.5	3.6	3.6	3.6	3.7	0.0
Natural Gas . . . . .	5.7	5.8	6.2	6.5	6.8	7.1	0.9
Coal . . . . .	0.2	0.2	0.2	0.2	0.2	0.2	-0.6
Electricity . . . . .	8.6	10.0	10.8	11.6	12.5	13.5	1.7
Renewables . . . . .	0.1	0.2	0.2	0.2	0.2	0.2	1.2
<b>Total . . . . .</b>	<b>18.3</b>	<b>19.7</b>	<b>21.0</b>	<b>22.1</b>	<b>23.2</b>	<b>24.6</b>	<b>1.2</b>
<b>Industrial</b>							
Liquids . . . . .	28.4	27.9	28.4	28.7	29.2	30.0	0.2
Natural Gas . . . . .	20.6	22.1	22.8	24.5	25.7	26.6	1.0
Coal . . . . .	9.5	9.4	9.6	9.5	9.9	10.2	0.3
Electricity . . . . .	11.8	12.4	13.0	13.6	14.1	15.0	0.9
Renewables . . . . .	2.1	2.5	2.7	2.8	3.0	3.2	1.5
<b>Total . . . . .</b>	<b>72.4</b>	<b>74.4</b>	<b>76.5</b>	<b>79.1</b>	<b>81.9</b>	<b>84.9</b>	<b>0.6</b>
<b>Transportation</b>							
Liquids . . . . .	56.9	59.4	62.4	65.5	68.4	71.9	0.9
Natural Gas . . . . .	0.6	0.8	0.8	0.9	1.0	1.0	1.6
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.4	0.4	0.4	0.5	0.5	0.5	1.4
<b>Total . . . . .</b>	<b>57.9</b>	<b>60.5</b>	<b>63.7</b>	<b>66.9</b>	<b>69.9</b>	<b>73.4</b>	<b>0.9</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	94.6	96.2	99.9	103.3	106.8	111.1	0.6
Natural Gas . . . . .	39.3	41.4	42.9	45.2	46.7	48.1	0.8
Coal . . . . .	10.1	9.9	10.0	9.9	10.3	10.6	0.2
Electricity . . . . .	30.0	33.3	35.3	37.4	39.3	41.9	1.3
Renewables . . . . .	2.8	3.3	3.5	3.6	3.8	4.0	1.4
<b>Delivered Energy . . . . .</b>	<b>176.8</b>	<b>184.1</b>	<b>191.5</b>	<b>199.4</b>	<b>207.0</b>	<b>215.7</b>	<b>0.8</b>
Electricity-Related Losses . . . . .	62.9	70.3	73.7	75.7	78.9	82.3	1.0
<b>Total . . . . .</b>	<b>239.8</b>	<b>254.4</b>	<b>265.2</b>	<b>275.1</b>	<b>285.9</b>	<b>298.0</b>	<b>0.8</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	4.3	3.6	3.6	3.5	3.4	3.4	-0.9
Natural Gas . . . . .	13.8	18.2	21.1	22.3	23.3	24.2	2.2
Coal . . . . .	36.6	39.5	40.6	42.2	45.2	48.7	1.1
Nuclear . . . . .	23.2	24.5	25.3	26.0	26.4	27.3	0.6
Renewables . . . . .	15.1	17.8	18.4	19.0	19.9	20.7	1.2
<b>Total . . . . .</b>	<b>92.9</b>	<b>103.6</b>	<b>109.0</b>	<b>113.1</b>	<b>118.2</b>	<b>124.2</b>	<b>1.1</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	98.9	99.9	103.5	106.8	110.3	114.4	0.6
Natural Gas . . . . .	53.1	59.6	64.0	67.5	70.0	72.3	1.2
Coal . . . . .	46.6	49.4	50.7	52.1	55.5	59.3	0.9
Nuclear . . . . .	23.2	24.5	25.3	26.0	26.4	27.3	0.6
Renewables . . . . .	17.9	21.1	21.8	22.7	23.7	24.7	1.2
<b>Total . . . . .</b>	<b>239.8</b>	<b>254.4</b>	<b>265.2</b>	<b>275.1</b>	<b>285.9</b>	<b>298.0</b>	<b>0.8</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run AEO2007.D112106A, web site [www.eia.doe.gov/oiaf/aeo](http://www.eia.doe.gov/oiaf/aeo); and System for the Analysis of Global Energy Markets (2007).

**Table F3. Delivered Energy Consumption in the United States by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	1.6	1.5	1.5	1.5	1.5	1.5	-0.2
Natural Gas . . . . .	5.0	5.2	5.3	5.4	5.4	5.5	0.3
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-1.1
Electricity . . . . .	4.4	5.1	5.4	5.8	6.1	6.5	1.5
Renewables . . . . .	0.4	0.4	0.4	0.4	0.4	0.4	0.0
<b>Total . . . . .</b>	<b>11.4</b>	<b>12.2</b>	<b>12.7</b>	<b>13.2</b>	<b>13.5</b>	<b>13.8</b>	<b>0.7</b>
<b>Commercial</b>							
Liquids . . . . .	0.8	0.8	0.8	0.8	0.8	0.8	0.3
Natural Gas . . . . .	3.2	3.3	3.6	3.9	4.1	4.4	1.2
Coal . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	-0.1
Electricity . . . . .	4.2	4.8	5.3	5.8	6.4	7.0	2.0
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.0
<b>Total . . . . .</b>	<b>8.4</b>	<b>9.1</b>	<b>9.9</b>	<b>10.7</b>	<b>11.5</b>	<b>12.4</b>	<b>1.5</b>
<b>Industrial</b>							
Liquids . . . . .	10.1	9.5	9.7	9.8	10.1	10.6	0.2
Natural Gas . . . . .	8.6	9.0	9.0	9.5	9.8	10.1	0.6
Coal . . . . .	2.2	2.0	2.1	2.1	2.6	2.9	1.1
Electricity . . . . .	3.5	3.6	3.8	3.8	3.9	4.1	0.6
Renewables . . . . .	1.9	2.3	2.4	2.6	2.8	2.9	1.7
<b>Total . . . . .</b>	<b>26.2</b>	<b>26.3</b>	<b>27.0</b>	<b>27.8</b>	<b>29.2</b>	<b>30.5</b>	<b>0.6</b>
<b>Transportation</b>							
Liquids . . . . .	27.2	29.1	31.3	33.4	35.7	38.3	1.3
Natural Gas . . . . .	0.6	0.7	0.8	0.9	0.9	0.9	1.5
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	1.9
<b>Total . . . . .</b>	<b>27.9</b>	<b>29.9</b>	<b>32.1</b>	<b>34.3</b>	<b>36.6</b>	<b>39.3</b>	<b>1.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	39.7	40.9	43.3	45.5	48.0	51.1	1.0
Natural Gas . . . . .	17.4	18.2	18.8	19.6	20.3	20.8	0.7
Coal . . . . .	2.3	2.1	2.2	2.2	2.7	3.0	1.0
Electricity . . . . .	12.1	13.5	14.5	15.4	16.5	17.6	1.5
Renewables . . . . .	2.4	2.8	3.0	3.1	3.3	3.5	1.4
<b>Delivered Energy . . . . .</b>	<b>73.9</b>	<b>77.5</b>	<b>81.7</b>	<b>86.0</b>	<b>90.8</b>	<b>96.0</b>	<b>1.0</b>
Electricity-Related Losses . . . . .	26.8	29.0	30.6	32.2	33.6	35.1	1.1
<b>Total . . . . .</b>	<b>100.7</b>	<b>106.5</b>	<b>112.3</b>	<b>118.2</b>	<b>124.4</b>	<b>131.2</b>	<b>1.0</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	1.1	0.9	1.0	1.0	1.0	1.0	-0.5
Natural Gas . . . . .	5.6	6.6	7.3	7.4	6.8	6.1	0.3
Coal . . . . .	20.3	22.1	23.5	25.1	27.9	31.1	1.7
Nuclear . . . . .	8.2	8.2	8.5	9.2	9.2	9.3	0.5
Renewables . . . . .	3.6	4.7	4.9	5.0	5.1	5.2	1.4
<b>Total . . . . .</b>	<b>38.9</b>	<b>42.5</b>	<b>45.1</b>	<b>47.6</b>	<b>50.0</b>	<b>52.8</b>	<b>1.2</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	40.8	41.8	44.3	46.5	49.0	52.1	0.9
Natural Gas . . . . .	23.1	24.7	26.1	27.0	27.1	26.9	0.6
Coal . . . . .	22.6	24.2	25.6	27.3	30.6	34.1	1.6
Nuclear . . . . .	8.2	8.2	8.5	9.2	9.2	9.3	0.5
Renewables . . . . .	6.0	7.5	7.8	8.1	8.4	8.7	1.4
<b>Total . . . . .</b>	<b>100.7</b>	<b>106.5</b>	<b>112.3</b>	<b>118.2</b>	<b>124.4</b>	<b>131.2</b>	<b>1.0</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators. Includes net electricity imports.

Sources: **2004:** Based on Energy Information Administration (EIA), *Annual Energy Review 2004*, DOE/EIA-0384(2004) (Washington, DC, August 2006). **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run AEO2007.D112106A, web site www.eia.doe.gov/oi/af/aec.

**Table F4. Delivered Energy Consumption in Canada by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Natural Gas . . . . .	0.6	0.7	0.7	0.7	0.7	0.7	0.5
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-1.3
Electricity . . . . .	0.5	0.6	0.7	0.7	0.7	0.8	1.5
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>1.3</b>	<b>1.4</b>	<b>1.5</b>	<b>1.5</b>	<b>1.6</b>	<b>1.6</b>	<b>0.9</b>
<b>Commercial</b>							
Liquids . . . . .	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Natural Gas . . . . .	0.5	0.5	0.6	0.6	0.6	0.6	0.7
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.4	0.6	0.7	0.7	0.7	0.8	2.2
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>1.3</b>	<b>1.5</b>	<b>1.6</b>	<b>1.7</b>	<b>1.8</b>	<b>1.8</b>	<b>1.2</b>
<b>Industrial</b>							
Liquids . . . . .	1.5	1.5	1.6	1.6	1.6	1.6	0.2
Natural Gas . . . . .	2.0	2.6	2.7	2.9	3.2	3.5	2.1
Coal . . . . .	0.2	0.3	0.3	0.3	0.3	0.3	2.2
Electricity . . . . .	0.8	0.9	0.9	1.0	1.0	1.1	1.1
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>Total . . . . .</b>	<b>4.7</b>	<b>5.3</b>	<b>5.6</b>	<b>5.9</b>	<b>6.2</b>	<b>6.6</b>	<b>1.3</b>
<b>Transportation</b>							
Liquids . . . . .	2.3	2.3	2.3	2.4	2.4	2.4	0.3
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.6
<b>Total . . . . .</b>	<b>2.3</b>	<b>2.3</b>	<b>2.3</b>	<b>2.4</b>	<b>2.4</b>	<b>2.4</b>	<b>0.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	4.3	4.4	4.4	4.5	4.5	4.6	0.3
Natural Gas . . . . .	3.2	3.8	4.0	4.2	4.5	4.8	1.6
Coal . . . . .	0.2	0.3	0.3	0.3	0.3	0.3	2.2
Electricity . . . . .	1.8	2.0	2.2	2.4	2.5	2.6	1.5
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.6
<b>Delivered Energy . . . . .</b>	<b>9.6</b>	<b>10.5</b>	<b>11.0</b>	<b>11.5</b>	<b>12.0</b>	<b>12.5</b>	<b>1.0</b>
Electricity-Related Losses . . . . .	4.1	5.1	4.9	5.2	5.5	5.9	1.4
<b>Total . . . . .</b>	<b>13.6</b>	<b>15.5</b>	<b>15.9</b>	<b>16.7</b>	<b>17.5</b>	<b>18.4</b>	<b>1.2</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.2	0.2	0.2	0.2	0.1	0.1	-2.7
Natural Gas . . . . .	0.3	0.3	0.3	0.5	0.5	0.5	2.2
Coal . . . . .	1.0	1.3	1.2	1.3	1.4	1.5	1.4
Nuclear . . . . .	1.0	1.3	1.3	1.4	1.4	1.5	1.7
Renewables . . . . .	3.3	3.9	4.0	4.2	4.6	4.9	1.4
<b>Total . . . . .</b>	<b>5.9</b>	<b>7.1</b>	<b>7.1</b>	<b>7.6</b>	<b>8.0</b>	<b>8.5</b>	<b>1.4</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	4.5	4.6	4.6	4.7	4.7	4.7	0.2
Natural Gas . . . . .	3.5	4.1	4.3	4.7	5.0	5.3	1.7
Coal . . . . .	1.2	1.5	1.5	1.6	1.7	1.8	1.6
Nuclear . . . . .	1.0	1.3	1.3	1.4	1.4	1.5	1.7
Renewables . . . . .	3.5	4.0	4.1	4.3	4.7	5.0	1.4
<b>Total . . . . .</b>	<b>13.6</b>	<b>15.5</b>	<b>15.9</b>	<b>16.7</b>	<b>17.5</b>	<b>18.4</b>	<b>1.2</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F5. Delivered Energy Consumption in Mexico by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.3	0.3	0.4	0.5	0.5	0.5	1.9
Natural Gas . . . . .	0.0	0.1	0.1	0.1	0.1	0.1	3.8
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.2	0.3	0.3	0.4	0.4	0.5	4.2
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.5</b>	<b>0.7</b>	<b>0.8</b>	<b>1.0</b>	<b>1.1</b>	<b>1.2</b>	<b>3.1</b>
<b>Commercial</b>							
Liquids . . . . .	0.0	0.1	0.1	0.1	0.1	0.1	2.5
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.1	0.1	0.2	0.2	0.3	0.3	5.5
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.8
<b>Total . . . . .</b>	<b>0.1</b>	<b>0.2</b>	<b>0.3</b>	<b>0.3</b>	<b>0.4</b>	<b>0.5</b>	<b>4.6</b>
<b>Industrial</b>							
Liquids . . . . .	0.9	0.9	0.9	1.0	1.1	1.2	1.0
Natural Gas . . . . .	1.2	1.5	1.7	1.9	2.1	2.3	2.5
Coal . . . . .	0.1	0.1	0.2	0.2	0.3	0.3	5.3
Electricity . . . . .	0.5	0.5	0.6	0.7	0.8	0.9	2.4
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	6.1
<b>Total . . . . .</b>	<b>2.7</b>	<b>3.0</b>	<b>3.4</b>	<b>3.8</b>	<b>4.2</b>	<b>4.7</b>	<b>2.2</b>
<b>Transportation</b>							
Liquids . . . . .	1.8	2.0	2.3	2.8	3.0	3.3	2.3
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	5.7
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	1.5
<b>Total . . . . .</b>	<b>1.8</b>	<b>2.0</b>	<b>2.3</b>	<b>2.8</b>	<b>3.0</b>	<b>3.3</b>	<b>2.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	3.1	3.4	3.7	4.3	4.6	5.1	1.9
Natural Gas . . . . .	1.3	1.5	1.7	2.0	2.2	2.5	2.6
Coal . . . . .	0.1	0.1	0.2	0.2	0.3	0.3	5.3
Electricity . . . . .	0.8	0.9	1.1	1.3	1.5	1.8	3.3
Renewables . . . . .	0.0	0.0	0.1	0.1	0.1	0.1	11.3
<b>Delivered Energy . . . . .</b>	<b>5.2</b>	<b>6.0</b>	<b>6.8</b>	<b>7.8</b>	<b>8.6</b>	<b>9.6</b>	<b>2.4</b>
Electricity-Related Losses . . . . .	1.4	2.4	2.4	2.4	2.4	2.4	2.1
<b>Total . . . . .</b>	<b>6.6</b>	<b>8.3</b>	<b>9.2</b>	<b>10.2</b>	<b>11.1</b>	<b>12.1</b>	<b>2.3</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.7	0.9	0.9	0.8	0.8	0.7	-0.3
Natural Gas . . . . .	0.7	1.1	1.4	1.6	1.8	2.1	4.5
Coal . . . . .	0.3	0.5	0.6	0.6	0.6	0.6	3.3
Nuclear . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Renewables . . . . .	0.4	0.6	0.6	0.6	0.6	0.7	2.0
<b>Total . . . . .</b>	<b>2.2</b>	<b>3.3</b>	<b>3.5</b>	<b>3.7</b>	<b>4.0</b>	<b>4.2</b>	<b>2.6</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	3.8	4.3	4.6	5.1	5.3	5.8	1.6
Natural Gas . . . . .	1.9	2.7	3.1	3.6	4.0	4.6	3.4
Coal . . . . .	0.3	0.7	0.7	0.8	0.9	0.9	3.8
Nuclear . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Renewables . . . . .	0.4	0.6	0.7	0.7	0.7	0.7	2.3
<b>Total . . . . .</b>	<b>6.6</b>	<b>8.3</b>	<b>9.2</b>	<b>10.2</b>	<b>11.1</b>	<b>12.1</b>	<b>2.3</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F6. Delivered Energy Consumption in OECD Europe by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	2.8	2.7	2.7	2.7	2.6	2.6	-0.3
Natural Gas . . . . .	5.7	5.8	5.8	5.9	5.9	6.0	0.1
Coal . . . . .	0.4	0.3	0.3	0.3	0.3	0.3	-1.4
Electricity . . . . .	2.9	3.1	3.2	3.2	3.4	3.5	0.8
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.2	1.8
<b>Total . . . . .</b>	<b>11.9</b>	<b>12.0</b>	<b>12.0</b>	<b>12.1</b>	<b>12.3</b>	<b>12.5</b>	<b>0.2</b>
<b>Commercial</b>							
Liquids . . . . .	1.1	1.0	1.0	1.0	1.0	1.0	-0.4
Natural Gas . . . . .	1.6	1.6	1.6	1.7	1.7	1.7	0.3
Coal . . . . .	0.1	0.0	0.0	0.0	0.0	0.0	-1.5
Electricity . . . . .	2.5	2.7	2.8	2.9	3.0	3.2	0.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	5.4
<b>Total . . . . .</b>	<b>5.2</b>	<b>5.4</b>	<b>5.5</b>	<b>5.6</b>	<b>5.7</b>	<b>5.9</b>	<b>0.5</b>
<b>Industrial</b>							
Liquids . . . . .	9.0	9.1	9.1	9.1	9.2	9.2	0.1
Natural Gas . . . . .	7.4	7.6	7.8	8.5	8.7	8.8	0.6
Coal . . . . .	3.4	3.3	3.3	3.1	2.9	2.9	-0.6
Electricity . . . . .	4.7	4.8	5.0	5.2	5.4	5.7	0.7
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.5
<b>Total . . . . .</b>	<b>24.6</b>	<b>24.9</b>	<b>25.3</b>	<b>26.0</b>	<b>26.2</b>	<b>26.6</b>	<b>0.3</b>
<b>Transportation</b>							
Liquids . . . . .	18.2	18.3	18.5	18.8	19.0	19.2	0.2
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.3	0.3	0.3	0.4	0.4	0.4	1.6
<b>Total . . . . .</b>	<b>18.5</b>	<b>18.6</b>	<b>18.9</b>	<b>19.1</b>	<b>19.4</b>	<b>19.6</b>	<b>0.2</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	31.2	31.1	31.3	31.5	31.7	31.9	0.1
Natural Gas . . . . .	14.8	15.0	15.3	16.1	16.3	16.5	0.4
Coal . . . . .	3.8	3.6	3.7	3.4	3.2	3.2	-0.7
Electricity . . . . .	10.4	10.9	11.2	11.7	12.1	12.8	0.8
Renewables . . . . .	0.2	0.2	0.2	0.2	0.3	0.3	1.5
<b>Delivered Energy . . . . .</b>	<b>60.3</b>	<b>60.8</b>	<b>61.7</b>	<b>62.9</b>	<b>63.6</b>	<b>64.6</b>	<b>0.3</b>
Electricity-Related Losses . . . . .	20.8	23.3	24.1	23.2	23.9	24.6	0.7
<b>Total . . . . .</b>	<b>81.1</b>	<b>84.1</b>	<b>85.8</b>	<b>86.1</b>	<b>87.5</b>	<b>89.2</b>	<b>0.4</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	1.2	0.9	0.9	0.9	0.8	0.8	-1.5
Natural Gas . . . . .	4.6	6.8	8.3	8.8	10.0	11.1	3.5
Coal . . . . .	9.3	9.6	9.1	8.7	8.4	8.3	-0.4
Nuclear . . . . .	9.9	10.2	10.0	9.3	9.3	9.4	-0.2
Renewables . . . . .	6.1	6.7	7.0	7.2	7.5	7.7	0.9
<b>Total . . . . .</b>	<b>31.1</b>	<b>34.2</b>	<b>35.4</b>	<b>34.9</b>	<b>36.0</b>	<b>37.3</b>	<b>0.7</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	32.4	32.0	32.2	32.4	32.6	32.7	0.0
Natural Gas . . . . .	19.3	21.8	23.6	24.8	26.3	27.6	1.4
Coal . . . . .	13.1	13.2	12.8	12.2	11.6	11.5	-0.5
Nuclear . . . . .	9.9	10.2	10.0	9.3	9.3	9.4	-0.2
Renewables . . . . .	6.3	6.9	7.2	7.5	7.7	8.0	0.9
<b>Total . . . . .</b>	<b>81.1</b>	<b>84.1</b>	<b>85.8</b>	<b>86.1</b>	<b>87.5</b>	<b>89.2</b>	<b>0.4</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F7. Delivered Energy Consumption in Japan by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.7	0.6	0.6	0.6	0.6	0.6	-0.7
Natural Gas . . . . .	0.4	0.5	0.5	0.5	0.5	0.5	0.8
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.9	1.0	1.0	1.0	1.0	1.1	0.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.1
<b>Total . . . . .</b>	<b>1.9</b>	<b>2.1</b>	<b>2.1</b>	<b>2.1</b>	<b>2.1</b>	<b>2.2</b>	<b>0.4</b>
<b>Commercial</b>							
Liquids . . . . .	1.1	1.0	1.0	1.0	1.0	1.0	-0.3
Natural Gas . . . . .	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-0.8
Electricity . . . . .	0.9	1.1	1.1	1.1	1.2	1.2	1.3
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.1
<b>Total . . . . .</b>	<b>2.2</b>	<b>2.3</b>	<b>2.3</b>	<b>2.4</b>	<b>2.4</b>	<b>2.5</b>	<b>0.5</b>
<b>Industrial</b>							
Liquids . . . . .	4.3	4.3	4.3	4.3	4.3	4.3	0.0
Natural Gas . . . . .	0.5	0.5	0.6	0.6	0.6	0.6	1.2
Coal . . . . .	2.6	2.6	2.5	2.5	2.4	2.4	-0.2
Electricity . . . . .	1.3	1.5	1.5	1.5	1.6	1.6	0.8
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-2.5
<b>Total . . . . .</b>	<b>8.6</b>	<b>8.9</b>	<b>8.8</b>	<b>8.8</b>	<b>8.9</b>	<b>8.9</b>	<b>0.1</b>
<b>Transportation</b>							
Liquids . . . . .	4.1	4.2	4.2	4.3	4.3	4.4	0.2
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.3
<b>Total . . . . .</b>	<b>4.1</b>	<b>4.3</b>	<b>4.3</b>	<b>4.3</b>	<b>4.4</b>	<b>4.4</b>	<b>0.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	10.1	10.0	10.1	10.1	10.2	10.2	0.0
Natural Gas . . . . .	1.0	1.2	1.3	1.3	1.3	1.3	0.9
Coal . . . . .	2.6	2.6	2.5	2.5	2.4	2.4	-0.2
Electricity . . . . .	3.1	3.6	3.6	3.7	3.8	4.0	1.0
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.3
<b>Delivered Energy . . . . .</b>	<b>16.9</b>	<b>17.5</b>	<b>17.6</b>	<b>17.6</b>	<b>17.8</b>	<b>18.0</b>	<b>0.2</b>
Electricity-Related Losses . . . . .	5.7	6.0	6.6	7.0	7.2	7.5	1.0
<b>Total . . . . .</b>	<b>22.6</b>	<b>23.5</b>	<b>24.1</b>	<b>24.6</b>	<b>25.0</b>	<b>25.4</b>	<b>0.5</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.7	0.4	0.4	0.4	0.4	0.4	-1.9
Natural Gas . . . . .	2.1	2.6	2.8	2.9	3.1	3.2	1.7
Coal . . . . .	2.2	2.2	2.2	2.2	2.2	2.2	-0.1
Nuclear . . . . .	2.8	3.2	3.5	3.8	4.0	4.2	1.7
Renewables . . . . .	1.1	1.2	1.2	1.3	1.3	1.4	1.1
<b>Total . . . . .</b>	<b>8.8</b>	<b>9.6</b>	<b>10.2</b>	<b>10.7</b>	<b>11.0</b>	<b>11.4</b>	<b>1.0</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	10.9	10.5	10.5	10.5	10.6	10.7	-0.1
Natural Gas . . . . .	3.1	3.8	4.0	4.2	4.3	4.5	1.4
Coal . . . . .	4.8	4.8	4.8	4.7	4.6	4.6	-0.1
Nuclear . . . . .	2.8	3.2	3.5	3.8	4.0	4.2	1.7
Renewables . . . . .	1.1	1.3	1.3	1.4	1.4	1.5	1.0
<b>Total . . . . .</b>	<b>22.6</b>	<b>23.5</b>	<b>24.1</b>	<b>24.6</b>	<b>25.0</b>	<b>25.4</b>	<b>0.5</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F8. Delivered Energy Consumption in South Korea by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Natural Gas . . . . .	0.4	0.5	0.5	0.5	0.5	0.5	0.9
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-2.2
Electricity . . . . .	0.1	0.2	0.2	0.2	0.3	0.3	2.6
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	6.4
<b>Total . . . . .</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.0</b>	<b>1.0</b>	<b>1.1</b>
<b>Commercial</b>							
Liquids . . . . .	0.3	0.3	0.3	0.3	0.3	0.3	0.1
Natural Gas . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.7
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.3	0.5	0.6	0.6	0.6	0.7	2.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	15.5
<b>Total . . . . .</b>	<b>0.7</b>	<b>0.9</b>	<b>1.0</b>	<b>1.0</b>	<b>1.1</b>	<b>1.1</b>	<b>1.8</b>
<b>Industrial</b>							
Liquids . . . . .	2.0	2.1	2.3	2.4	2.5	2.6	1.0
Natural Gas . . . . .	0.2	0.2	0.2	0.3	0.3	0.4	1.8
Coal . . . . .	0.9	0.9	0.9	0.9	1.0	1.0	0.5
Electricity . . . . .	0.6	0.7	0.8	0.9	0.9	1.0	2.2
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	20.1
<b>Total . . . . .</b>	<b>3.7</b>	<b>3.9</b>	<b>4.2</b>	<b>4.5</b>	<b>4.7</b>	<b>4.9</b>	<b>1.2</b>
<b>Transportation</b>							
Liquids . . . . .	1.7	1.9	2.1	2.2	2.3	2.5	1.3
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.8
<b>Total . . . . .</b>	<b>1.8</b>	<b>1.9</b>	<b>2.1</b>	<b>2.2</b>	<b>2.3</b>	<b>2.5</b>	<b>1.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	4.2	4.5	4.9	5.1	5.3	5.5	1.1
Natural Gas . . . . .	0.7	0.8	0.8	0.9	1.0	1.0	1.3
Coal . . . . .	0.9	0.9	0.9	0.9	1.0	1.0	0.5
Electricity . . . . .	1.0	1.4	1.6	1.7	1.8	1.9	2.5
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	8.5
<b>Delivered Energy . . . . .</b>	<b>6.9</b>	<b>7.6</b>	<b>8.2</b>	<b>8.6</b>	<b>9.0</b>	<b>9.5</b>	<b>1.3</b>
Electricity-Related Losses . . . . .	2.1	2.1	2.6	3.1	3.4	3.9	2.4
<b>Total . . . . .</b>	<b>9.0</b>	<b>9.6</b>	<b>10.8</b>	<b>11.8</b>	<b>12.5</b>	<b>13.4</b>	<b>1.6</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.2	0.2	0.2	0.2	0.3	0.3	0.4
Natural Gas . . . . .	0.4	0.4	0.5	0.5	0.6	0.6	2.2
Coal . . . . .	1.2	1.3	1.6	1.8	1.9	2.1	2.1
Nuclear . . . . .	1.2	1.4	1.8	2.2	2.4	2.7	3.0
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	2.9
<b>Total . . . . .</b>	<b>3.1</b>	<b>3.5</b>	<b>4.2</b>	<b>4.8</b>	<b>5.2</b>	<b>5.8</b>	<b>2.4</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	4.5	4.7	5.1	5.3	5.6	5.8	1.0
Natural Gas . . . . .	1.1	1.2	1.3	1.5	1.5	1.7	1.6
Coal . . . . .	2.1	2.2	2.5	2.7	2.9	3.1	1.5
Nuclear . . . . .	1.2	1.4	1.8	2.2	2.4	2.7	3.0
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	3.2
<b>Total . . . . .</b>	<b>9.0</b>	<b>9.6</b>	<b>10.8</b>	<b>11.8</b>	<b>12.5</b>	<b>13.4</b>	<b>1.6</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F9. Delivered Energy Consumption in Australia/New Zealand by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Natural Gas . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-0.8
Electricity . . . . .	0.2	0.3	0.3	0.3	0.3	0.3	1.3
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.2
<b>Total . . . . .</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>1.0</b>
<b>Commercial</b>							
Liquids . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Natural Gas . . . . .	0.1	0.0	0.1	0.1	0.1	0.1	0.4
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-0.4
Electricity . . . . .	0.2	0.2	0.3	0.3	0.3	0.3	1.7
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	8.6
<b>Total . . . . .</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>1.4</b>
<b>Industrial</b>							
Liquids . . . . .	0.5	0.6	0.6	0.6	0.6	0.6	0.4
Natural Gas . . . . .	0.7	0.8	0.8	0.9	0.9	1.0	1.4
Coal . . . . .	0.3	0.3	0.4	0.4	0.4	0.4	2.0
Electricity . . . . .	0.4	0.4	0.5	0.5	0.5	0.6	1.3
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
<b>Total . . . . .</b>	<b>1.9</b>	<b>2.1</b>	<b>2.2</b>	<b>2.3</b>	<b>2.5</b>	<b>2.6</b>	<b>1.2</b>
<b>Transportation</b>							
Liquids . . . . .	1.5	1.5	1.6	1.7	1.8	1.9	1.0
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	7.1
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.8
<b>Total . . . . .</b>	<b>1.5</b>	<b>1.5</b>	<b>1.6</b>	<b>1.7</b>	<b>1.8</b>	<b>1.9</b>	<b>1.0</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	2.0	2.1	2.2	2.3	2.5	2.5	0.8
Natural Gas . . . . .	0.9	1.0	1.0	1.1	1.1	1.2	1.2
Coal . . . . .	0.3	0.3	0.4	0.4	0.4	0.4	1.9
Electricity . . . . .	0.8	0.9	1.0	1.1	1.1	1.2	1.4
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	1.9
<b>Delivered Energy . . . . .</b>	<b>4.0</b>	<b>4.3</b>	<b>4.6</b>	<b>4.9</b>	<b>5.2</b>	<b>5.4</b>	<b>1.1</b>
Electricity-Related Losses . . . . .	2.1	2.5	2.6	2.7	2.9	3.0	1.3
<b>Total . . . . .</b>	<b>6.2</b>	<b>6.8</b>	<b>7.2</b>	<b>7.6</b>	<b>8.0</b>	<b>8.4</b>	<b>1.2</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Natural Gas . . . . .	0.3	0.3	0.5	0.5	0.5	0.6	3.2
Coal . . . . .	2.2	2.5	2.5	2.6	2.8	2.9	1.1
Nuclear . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables . . . . .	0.5	0.6	0.6	0.6	0.7	0.7	1.3
<b>Total . . . . .</b>	<b>3.0</b>	<b>3.4</b>	<b>3.6</b>	<b>3.8</b>	<b>4.0</b>	<b>4.2</b>	<b>1.4</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	2.0	2.1	2.2	2.4	2.5	2.6	0.8
Natural Gas . . . . .	1.1	1.3	1.5	1.6	1.7	1.8	1.8
Coal . . . . .	2.4	2.8	2.8	2.9	3.2	3.3	1.2
Nuclear . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables . . . . .	0.5	0.6	0.6	0.7	0.7	0.7	1.3
<b>Total . . . . .</b>	<b>6.2</b>	<b>6.8</b>	<b>7.2</b>	<b>7.6</b>	<b>8.0</b>	<b>8.4</b>	<b>1.2</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F10. Total Non-OECD Delivered Energy Consumption by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	5.2	6.1	6.8	7.2	7.4	7.5	1.4
Natural Gas . . . . .	6.1	7.5	8.7	9.6	10.4	11.5	2.5
Coal . . . . .	3.0	3.4	3.7	3.7	3.6	3.5	0.5
Electricity . . . . .	5.1	7.3	9.3	10.9	12.3	13.7	3.9
Renewables . . . . .	0.0	0.0	0.1	0.1	0.1	0.1	6.0
<b>Total . . . . .</b>	<b>19.4</b>	<b>24.4</b>	<b>28.5</b>	<b>31.5</b>	<b>33.8</b>	<b>36.2</b>	<b>2.4</b>
<b>Commercial</b>							
Liquids . . . . .	1.6	2.0	2.2	2.3	2.4	2.5	1.8
Natural Gas . . . . .	1.1	1.4	1.6	1.8	2.0	2.2	2.7
Coal . . . . .	0.5	0.6	0.8	0.8	0.8	0.8	1.7
Electricity . . . . .	3.0	4.6	6.1	7.6	9.0	10.5	4.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	17.3
<b>Total . . . . .</b>	<b>6.2</b>	<b>8.7</b>	<b>10.8</b>	<b>12.5</b>	<b>14.3</b>	<b>16.1</b>	<b>3.7</b>
<b>Industrial</b>							
Liquids . . . . .	27.1	33.0	36.1	39.1	41.6	44.2	1.9
Natural Gas . . . . .	24.6	29.3	33.8	38.6	42.6	46.7	2.5
Coal . . . . .	25.9	30.1	35.7	41.0	46.0	51.8	2.7
Electricity . . . . .	13.5	16.2	19.2	22.5	25.8	29.3	3.0
Renewables . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	3.3
<b>Total . . . . .</b>	<b>91.2</b>	<b>108.7</b>	<b>124.9</b>	<b>141.3</b>	<b>156.2</b>	<b>172.2</b>	<b>2.5</b>
<b>Transportation</b>							
Liquids . . . . .	29.0	36.1	41.7	47.4	54.2	61.9	3.0
Natural Gas . . . . .	0.2	0.2	0.2	0.3	0.3	0.4	2.5
Coal . . . . .	0.2	0.2	0.2	0.2	0.2	0.1	-2.3
Electricity . . . . .	0.4	0.5	0.6	0.6	0.7	0.7	1.9
<b>Total . . . . .</b>	<b>29.8</b>	<b>37.0</b>	<b>42.7</b>	<b>48.5</b>	<b>55.4</b>	<b>63.1</b>	<b>2.9</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	62.9	77.2	86.7	96.0	105.7	116.1	2.4
Natural Gas . . . . .	32.0	38.5	44.4	50.2	55.3	60.7	2.5
Coal . . . . .	29.7	34.3	40.4	45.7	50.6	56.2	2.5
Electricity . . . . .	22.1	28.6	35.3	41.7	47.8	54.2	3.5
Renewables . . . . .	0.1	0.2	0.2	0.2	0.2	0.3	4.6
<b>Delivered Energy . . . . .</b>	<b>146.7</b>	<b>178.7</b>	<b>206.9</b>	<b>233.8</b>	<b>259.6</b>	<b>287.5</b>	<b>2.6</b>
Electricity-Related Losses . . . . .	60.2	77.9	87.3	98.1	108.1	116.0	2.6
<b>Total . . . . .</b>	<b>206.9</b>	<b>256.6</b>	<b>294.2</b>	<b>331.9</b>	<b>367.8</b>	<b>403.5</b>	<b>2.6</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	6.3	6.9	7.4	7.8	8.2	8.3	1.1
Natural Gas . . . . .	18.3	22.5	26.0	29.3	33.2	37.4	2.8
Coal . . . . .	38.1	52.7	60.5	69.4	76.8	83.7	3.1
Nuclear . . . . .	4.3	5.3	7.2	9.6	11.7	12.4	4.2
Renewables . . . . .	15.2	19.1	21.4	23.6	26.1	28.5	2.4
<b>Total . . . . .</b>	<b>82.3</b>	<b>106.5</b>	<b>122.6</b>	<b>139.8</b>	<b>156.0</b>	<b>170.2</b>	<b>2.8</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	69.3	84.1	94.1	103.8	113.8	124.4	2.3
Natural Gas . . . . .	50.3	61.0	70.4	79.5	88.5	98.1	2.6
Coal . . . . .	67.9	86.9	100.9	115.1	127.4	139.8	2.8
Nuclear . . . . .	4.3	5.3	7.2	9.6	11.7	12.4	4.2
Renewables . . . . .	15.3	19.3	21.6	23.9	26.3	28.8	2.5
<b>Total . . . . .</b>	<b>206.9</b>	<b>256.6</b>	<b>294.2</b>	<b>331.9</b>	<b>367.8</b>	<b>403.5</b>	<b>2.6</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F11. Delivered Energy Consumption in Russia by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.2	0.2	0.2	0.2	0.2	0.2	0.7
Natural Gas . . . . .	2.2	2.4	2.6	2.8	3.0	3.2	1.5
Coal . . . . .	0.2	0.2	0.2	0.2	0.2	0.2	-1.3
Electricity . . . . .	0.5	0.7	0.8	0.8	0.9	1.0	2.4
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>3.1</b>	<b>3.4</b>	<b>3.7</b>	<b>4.0</b>	<b>4.3</b>	<b>4.6</b>	<b>1.5</b>
<b>Commercial</b>							
Liquids . . . . .	0.1	0.1	0.1	0.0	0.0	0.0	-0.5
Natural Gas . . . . .	0.1	0.2	0.2	0.2	0.2	0.2	2.7
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-0.6
Electricity . . . . .	0.3	0.3	0.4	0.5	0.5	0.6	3.0
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.4</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.8</b>	<b>0.8</b>	<b>2.6</b>
<b>Industrial</b>							
Liquids . . . . .	2.9	2.9	3.0	3.1	3.2	3.2	0.3
Natural Gas . . . . .	8.4	8.7	9.0	9.4	9.7	10.0	0.7
Coal . . . . .	2.1	2.2	2.2	2.2	2.2	2.2	0.2
Electricity . . . . .	1.8	1.9	2.2	2.4	2.6	2.9	1.8
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.7
<b>Total . . . . .</b>	<b>15.2</b>	<b>15.7</b>	<b>16.3</b>	<b>17.1</b>	<b>17.7</b>	<b>18.2</b>	<b>0.7</b>
<b>Transportation</b>							
Liquids . . . . .	2.2	2.5	2.7	2.8	2.9	3.1	1.3
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	8.5
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.2	0.2	0.3	0.3	0.3	0.3	1.7
<b>Total . . . . .</b>	<b>2.4</b>	<b>2.7</b>	<b>2.9</b>	<b>3.0</b>	<b>3.2</b>	<b>3.4</b>	<b>1.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	5.4	5.6	5.9	6.1	6.3	6.5	0.7
Natural Gas . . . . .	10.7	11.3	11.8	12.4	12.9	13.4	0.9
Coal . . . . .	2.3	2.4	2.4	2.4	2.4	2.4	0.1
Electricity . . . . .	2.8	3.1	3.5	4.0	4.3	4.7	2.1
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.9
<b>Delivered Energy . . . . .</b>	<b>21.2</b>	<b>22.4</b>	<b>23.6</b>	<b>24.9</b>	<b>26.0</b>	<b>27.1</b>	<b>0.9</b>
Electricity-Related Losses . . . . .	8.9	10.5	11.8	12.7	14.1	14.5	1.9
<b>Total . . . . .</b>	<b>30.1</b>	<b>32.9</b>	<b>35.3</b>	<b>37.6</b>	<b>40.1</b>	<b>41.6</b>	<b>1.3</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.3	0.3	0.3	0.3	0.3	0.3	-0.2
Natural Gas . . . . .	5.7	6.6	7.4	7.8	8.4	8.8	1.7
Coal . . . . .	2.5	2.8	2.9	3.3	3.6	3.7	1.6
Nuclear . . . . .	1.5	1.7	2.2	2.7	3.5	3.7	3.5
Renewables . . . . .	1.7	2.2	2.4	2.5	2.7	2.8	2.0
<b>Total . . . . .</b>	<b>11.7</b>	<b>13.6</b>	<b>15.3</b>	<b>16.7</b>	<b>18.5</b>	<b>19.2</b>	<b>1.9</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	5.7	5.9	6.2	6.4	6.6	6.8	0.7
Natural Gas . . . . .	16.4	17.9	19.2	20.3	21.3	22.2	1.2
Coal . . . . .	4.8	5.1	5.3	5.7	6.0	6.1	0.9
Nuclear . . . . .	1.5	1.7	2.2	2.7	3.5	3.7	3.5
Renewables . . . . .	1.7	2.2	2.5	2.5	2.7	2.8	2.0
<b>Total . . . . .</b>	<b>30.1</b>	<b>32.9</b>	<b>35.3</b>	<b>37.6</b>	<b>40.1</b>	<b>41.6</b>	<b>1.3</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F12. Delivered Energy Consumption in Other Non-OECD Europe and Eurasia by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.1	0.2	0.2	0.2	0.2	0.2	0.8
Natural Gas . . . . .	1.7	1.8	1.9	2.0	2.1	2.2	1.2
Coal . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	-1.1
Electricity . . . . .	0.5	0.7	0.8	0.9	1.0	1.0	2.6
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	15.6
<b>Total . . . . .</b>	<b>2.5</b>	<b>2.8</b>	<b>3.1</b>	<b>3.2</b>	<b>3.4</b>	<b>3.6</b>	<b>1.5</b>
<b>Commercial</b>							
Liquids . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Natural Gas . . . . .	0.5	0.6	0.6	0.7	0.7	0.8	1.6
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Electricity . . . . .	0.2	0.3	0.4	0.4	0.5	0.5	3.6
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	12.8
<b>Total . . . . .</b>	<b>0.8</b>	<b>0.9</b>	<b>1.0</b>	<b>1.2</b>	<b>1.3</b>	<b>1.4</b>	<b>2.2</b>
<b>Industrial</b>							
Liquids . . . . .	1.8	1.9	2.0	2.1	2.2	2.3	1.0
Natural Gas . . . . .	3.3	3.8	4.1	4.6	4.8	5.0	1.6
Coal . . . . .	1.6	1.8	2.0	2.1	2.1	2.0	0.8
Electricity . . . . .	1.1	1.4	1.6	1.8	2.0	2.2	2.7
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.6
<b>Total . . . . .</b>	<b>7.8</b>	<b>8.9</b>	<b>9.7</b>	<b>10.6</b>	<b>11.1</b>	<b>11.5</b>	<b>1.5</b>
<b>Transportation</b>							
Liquids . . . . .	1.7	2.1	2.3	2.7	2.9	3.1	2.3
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-5.1
Electricity . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.4
<b>Total . . . . .</b>	<b>1.8</b>	<b>2.2</b>	<b>2.4</b>	<b>2.8</b>	<b>3.0</b>	<b>3.2</b>	<b>2.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	3.7	4.2	4.5	5.0	5.3	5.7	1.6
Natural Gas . . . . .	5.5	6.2	6.7	7.3	7.7	8.0	1.5
Coal . . . . .	1.8	1.9	2.1	2.2	2.2	2.1	0.7
Electricity . . . . .	1.9	2.4	2.9	3.2	3.6	3.9	2.7
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	10.8
<b>Delivered Energy . . . . .</b>	<b>12.9</b>	<b>14.8</b>	<b>16.2</b>	<b>17.8</b>	<b>18.8</b>	<b>19.7</b>	<b>1.7</b>
Electricity-Related Losses . . . . .	6.8	7.1	7.8	9.0	9.8	10.2	1.6
<b>Total . . . . .</b>	<b>19.6</b>	<b>21.9</b>	<b>24.1</b>	<b>26.8</b>	<b>28.6</b>	<b>29.9</b>	<b>1.6</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.5	0.4	0.4	0.4	0.4	0.4	-0.3
Natural Gas . . . . .	3.2	3.5	4.1	4.7	5.5	6.4	2.6
Coal . . . . .	2.4	2.6	3.1	3.4	3.4	3.5	1.4
Nuclear . . . . .	1.4	1.5	1.5	1.9	2.1	1.9	1.2
Renewables . . . . .	1.2	1.4	1.6	1.8	1.9	2.0	1.9
<b>Total . . . . .</b>	<b>8.7</b>	<b>9.5</b>	<b>10.7</b>	<b>12.3</b>	<b>13.4</b>	<b>14.1</b>	<b>1.9</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	4.2	4.7	5.0	5.4	5.7	6.1	1.5
Natural Gas . . . . .	8.7	9.7	10.7	12.0	13.2	14.4	1.9
Coal . . . . .	4.2	4.6	5.2	5.6	5.6	5.6	1.1
Nuclear . . . . .	1.4	1.5	1.5	1.9	2.1	1.9	1.2
Renewables . . . . .	1.2	1.4	1.6	1.8	1.9	2.0	2.0
<b>Total . . . . .</b>	<b>19.6</b>	<b>21.9</b>	<b>24.1</b>	<b>26.8</b>	<b>28.6</b>	<b>29.9</b>	<b>1.6</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F13. Delivered Energy Consumption in China by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.8	1.3	1.3	1.3	1.4	1.5	2.3
Natural Gas . . . . .	0.4	0.9	1.3	1.6	1.9	2.3	6.8
Coal . . . . .	2.2	2.5	2.7	2.7	2.6	2.4	0.3
Electricity . . . . .	0.9	1.6	2.3	2.9	3.6	4.2	5.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>4.4</b>	<b>6.3</b>	<b>7.5</b>	<b>8.5</b>	<b>9.4</b>	<b>10.4</b>	<b>3.4</b>
<b>Commercial</b>							
Liquids . . . . .	0.9	1.3	1.3	1.4	1.4	1.4	1.6
Natural Gas . . . . .	0.1	0.1	0.1	0.2	0.2	0.2	6.1
Coal . . . . .	0.3	0.3	0.3	0.3	0.3	0.3	0.4
Electricity . . . . .	0.5	0.9	1.4	1.9	2.4	2.9	7.1
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>1.8</b>	<b>2.6</b>	<b>3.1</b>	<b>3.7</b>	<b>4.3</b>	<b>4.9</b>	<b>4.0</b>
<b>Industrial</b>							
Liquids . . . . .	6.5	10.5	11.0	11.7	12.4	13.5	2.9
Natural Gas . . . . .	0.9	2.0	2.6	3.2	3.8	4.5	6.4
Coal . . . . .	15.6	18.6	23.1	27.3	31.4	36.5	3.3
Electricity . . . . .	5.1	6.6	8.1	9.6	11.2	12.8	3.6
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>28.1</b>	<b>37.7</b>	<b>44.8</b>	<b>51.8</b>	<b>58.9</b>	<b>67.3</b>	<b>3.4</b>
<b>Transportation</b>							
Liquids . . . . .	4.2	5.8	7.3	9.4	12.0	15.2	5.1
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.1	8.9
Coal . . . . .	0.2	0.2	0.2	0.2	0.2	0.1	-2.3
Electricity . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	2.7
<b>Total . . . . .</b>	<b>4.4</b>	<b>6.1</b>	<b>7.7</b>	<b>9.7</b>	<b>12.3</b>	<b>15.5</b>	<b>4.9</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	12.4	18.8	20.9	23.7	27.2	31.6	3.7
Natural Gas . . . . .	1.4	3.1	4.0	5.0	6.0	7.2	6.5
Coal . . . . .	18.3	21.6	26.3	30.5	34.4	39.3	3.0
Electricity . . . . .	6.6	9.2	11.8	14.5	17.3	20.1	4.4
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Delivered Energy . . . . .</b>	<b>38.7</b>	<b>52.6</b>	<b>63.1</b>	<b>73.8</b>	<b>84.9</b>	<b>98.1</b>	<b>3.6</b>
Electricity-Related Losses . . . . .	20.9	29.9	34.0	39.1	43.4	47.3	3.2
<b>Total . . . . .</b>	<b>59.6</b>	<b>82.6</b>	<b>97.1</b>	<b>112.8</b>	<b>128.3</b>	<b>145.4</b>	<b>3.5</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.7	0.5	0.6	0.6	0.7	0.5	-1.4
Natural Gas . . . . .	0.2	0.2	0.3	0.4	0.6	0.9	6.4
Coal . . . . .	22.7	33.8	39.0	45.1	50.5	55.9	3.5
Nuclear . . . . .	0.5	0.7	1.4	2.3	3.0	3.5	7.9
Renewables . . . . .	3.3	3.9	4.6	5.2	5.9	6.6	2.7
<b>Total . . . . .</b>	<b>27.4</b>	<b>39.1</b>	<b>45.8</b>	<b>53.6</b>	<b>60.7</b>	<b>67.4</b>	<b>3.5</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	13.1	19.3	21.5	24.4	27.8	32.1	3.5
Natural Gas . . . . .	1.6	3.3	4.3	5.4	6.6	8.1	6.5
Coal . . . . .	41.1	55.3	65.3	75.5	85.0	95.2	3.3
Nuclear . . . . .	0.5	0.7	1.4	2.3	3.0	3.5	7.9
Renewables . . . . .	3.3	4.0	4.6	5.3	5.9	6.6	2.7
<b>Total . . . . .</b>	<b>59.6</b>	<b>82.6</b>	<b>97.1</b>	<b>112.8</b>	<b>128.3</b>	<b>145.4</b>	<b>3.5</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F14. Delivered Energy Consumption in India by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	1.1	1.1	1.1	1.2	1.2	1.2	0.5
Natural Gas . . . . .	0.0	0.0	0.1	0.1	0.1	0.1	4.3
Coal . . . . .	0.3	0.4	0.4	0.4	0.5	0.5	2.6
Electricity . . . . .	0.4	0.7	0.9	1.0	1.1	1.2	4.0
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>1.8</b>	<b>2.2</b>	<b>2.5</b>	<b>2.7</b>	<b>2.9</b>	<b>3.0</b>	<b>2.0</b>
<b>Commercial</b>							
Liquids . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.1	—
Coal . . . . .	0.1	0.3	0.4	0.4	0.4	0.3	3.4
Electricity . . . . .	0.3	0.7	0.9	1.1	1.3	1.5	5.8
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.5</b>	<b>0.9</b>	<b>1.3</b>	<b>1.5</b>	<b>1.7</b>	<b>1.9</b>	<b>5.4</b>
<b>Industrial</b>							
Liquids . . . . .	2.3	2.5	3.0	3.4	3.8	4.2	2.3
Natural Gas . . . . .	0.7	0.9	0.9	1.2	1.6	2.0	4.2
Coal . . . . .	2.1	2.3	2.6	3.1	3.5	3.8	2.3
Electricity . . . . .	1.2	1.3	1.6	1.9	2.2	2.6	3.1
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	13.5
<b>Total . . . . .</b>	<b>6.3</b>	<b>7.0</b>	<b>8.2</b>	<b>9.6</b>	<b>11.1</b>	<b>12.6</b>	<b>2.7</b>
<b>Transportation</b>							
Liquids . . . . .	1.4	1.7	2.3	2.6	3.0	3.3	3.3
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.1	0.1	0.1	0.1	0.1	1.9
<b>Total . . . . .</b>	<b>1.5</b>	<b>1.8</b>	<b>2.4</b>	<b>2.7</b>	<b>3.1</b>	<b>3.4</b>	<b>3.3</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	4.8	5.3	6.4	7.2	8.0	8.7	2.3
Natural Gas . . . . .	0.7	0.9	1.0	1.3	1.7	2.2	4.4
Coal . . . . .	2.5	2.9	3.4	3.9	4.3	4.7	2.4
Electricity . . . . .	2.0	2.7	3.5	4.1	4.7	5.4	3.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	15.4
<b>Delivered Energy . . . . .</b>	<b>10.0</b>	<b>11.8</b>	<b>14.3</b>	<b>16.4</b>	<b>18.8</b>	<b>20.9</b>	<b>2.9</b>
Electricity-Related Losses . . . . .	5.4	6.3	7.4	8.7	9.9	11.0	2.8
<b>Total . . . . .</b>	<b>15.4</b>	<b>18.2</b>	<b>21.7</b>	<b>25.1</b>	<b>28.6</b>	<b>31.9</b>	<b>2.8</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.2	0.2	0.2	0.2	0.2	0.2	0.6
Natural Gas . . . . .	0.5	1.0	1.3	1.6	1.9	2.1	5.8
Coal . . . . .	5.6	6.4	7.3	8.4	9.4	10.5	2.4
Nuclear . . . . .	0.2	0.5	0.8	1.2	1.6	1.8	9.3
Renewables . . . . .	0.9	1.0	1.1	1.4	1.5	1.7	2.5
<b>Total . . . . .</b>	<b>7.4</b>	<b>9.0</b>	<b>10.8</b>	<b>12.7</b>	<b>14.6</b>	<b>16.4</b>	<b>3.1</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	5.0	5.5	6.6	7.4	8.2	8.9	2.2
Natural Gas . . . . .	1.2	2.0	2.3	2.9	3.6	4.3	5.0
Coal . . . . .	8.1	9.3	10.7	12.2	13.7	15.2	2.4
Nuclear . . . . .	0.2	0.5	0.8	1.2	1.6	1.8	9.3
Renewables . . . . .	0.9	1.0	1.1	1.4	1.6	1.7	2.5
<b>Total . . . . .</b>	<b>15.4</b>	<b>18.2</b>	<b>21.7</b>	<b>25.1</b>	<b>28.6</b>	<b>31.9</b>	<b>2.8</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

Table F15. Delivered Energy Consumption in Other Non-OECD Asia by End-Use Sector and Fuel, 2004-2030  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.8	0.9	1.1	1.2	1.2	1.2	1.5
Natural Gas . . . . .	0.2	0.4	0.6	0.7	0.7	0.7	4.2
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Electricity . . . . .	0.7	0.9	1.3	1.5	1.7	1.9	3.7
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>1.8</b>	<b>2.2</b>	<b>3.1</b>	<b>3.4</b>	<b>3.6</b>	<b>3.9</b>	<b>2.9</b>
<b>Commercial</b>							
Liquids . . . . .	0.2	0.2	0.3	0.3	0.3	0.4	2.6
Natural Gas . . . . .	0.2	0.2	0.3	0.3	0.3	0.3	2.9
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	3.1
Electricity . . . . .	0.5	0.8	1.0	1.2	1.4	1.6	4.4
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.9</b>	<b>1.2</b>	<b>1.5</b>	<b>1.8</b>	<b>2.0</b>	<b>2.3</b>	<b>3.8</b>
<b>Industrial</b>							
Liquids . . . . .	4.3	4.7	5.4	5.8	6.2	6.6	1.7
Natural Gas . . . . .	2.7	3.4	4.6	5.8	6.9	8.1	4.3
Coal . . . . .	2.2	2.7	2.9	3.2	3.5	3.8	2.1
Electricity . . . . .	1.3	1.6	2.0	2.4	2.8	3.2	3.5
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	9.9
<b>Total . . . . .</b>	<b>10.5</b>	<b>12.3</b>	<b>14.9</b>	<b>17.2</b>	<b>19.4</b>	<b>21.7</b>	<b>2.8</b>
<b>Transportation</b>							
Liquids . . . . .	6.2	6.9	7.7	8.5	9.4	10.6	2.1
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	3.9
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.7
<b>Total . . . . .</b>	<b>6.2</b>	<b>6.9</b>	<b>7.7</b>	<b>8.5</b>	<b>9.5</b>	<b>10.6</b>	<b>2.1</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	11.5	12.7	14.4	15.8	17.2	18.8	1.9
Natural Gas . . . . .	3.1	4.0	5.5	6.7	7.9	9.1	4.3
Coal . . . . .	2.2	2.7	3.0	3.3	3.6	3.8	2.1
Electricity . . . . .	2.6	3.2	4.2	5.1	5.9	6.8	3.8
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	12.6
<b>Delivered Energy . . . . .</b>	<b>19.4</b>	<b>22.6</b>	<b>27.1</b>	<b>30.8</b>	<b>34.6</b>	<b>38.5</b>	<b>2.7</b>
Electricity-Related Losses . . . . .	5.5	7.7	8.8	10.1	11.0	11.6	3.0
<b>Total . . . . .</b>	<b>24.9</b>	<b>30.3</b>	<b>35.9</b>	<b>40.9</b>	<b>45.6</b>	<b>50.2</b>	<b>2.7</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	1.0	1.2	1.5	1.6	1.7	1.8	2.3
Natural Gas . . . . .	3.1	4.1	4.8	5.6	6.6	7.8	3.6
Coal . . . . .	2.1	3.1	3.9	4.7	5.0	5.0	3.4
Nuclear . . . . .	0.4	0.5	0.7	0.8	0.9	0.9	3.1
Renewables . . . . .	1.5	2.1	2.2	2.4	2.7	3.0	2.7
<b>Total . . . . .</b>	<b>8.0</b>	<b>10.9</b>	<b>13.0</b>	<b>15.1</b>	<b>16.9</b>	<b>18.4</b>	<b>3.2</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	12.5	13.9	15.9	17.4	18.9	20.6	1.9
Natural Gas . . . . .	6.2	8.0	10.2	12.3	14.5	16.9	4.0
Coal . . . . .	4.3	5.8	6.9	8.0	8.5	8.8	2.8
Nuclear . . . . .	0.4	0.5	0.7	0.8	0.9	0.9	3.1
Renewables . . . . .	1.5	2.1	2.2	2.5	2.7	3.0	2.8
<b>Total . . . . .</b>	<b>24.9</b>	<b>30.3</b>	<b>35.9</b>	<b>40.9</b>	<b>45.6</b>	<b>50.2</b>	<b>2.7</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F16. Delivered Energy Consumption in the Middle East by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.9	0.9	1.0	1.0	1.1	1.1	0.8
Natural Gas . . . . .	1.1	1.1	1.3	1.4	1.5	1.6	1.6
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-1.8
Electricity . . . . .	0.7	1.0	1.2	1.3	1.4	1.5	3.1
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	1.5
<b>Total . . . . .</b>	<b>2.7</b>	<b>3.1</b>	<b>3.5</b>	<b>3.8</b>	<b>4.0</b>	<b>4.3</b>	<b>1.8</b>
<b>Commercial</b>							
Liquids . . . . .	0.2	0.2	0.2	0.2	0.3	0.3	2.4
Natural Gas . . . . .	0.1	0.2	0.2	0.2	0.3	0.3	3.0
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.4	0.5	0.6	0.7	0.9	1.1	3.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	12.4
<b>Total . . . . .</b>	<b>0.7</b>	<b>0.9</b>	<b>1.1</b>	<b>1.2</b>	<b>1.5</b>	<b>1.7</b>	<b>3.4</b>
<b>Industrial</b>							
Liquids . . . . .	3.9	4.5	5.0	5.6	6.0	6.3	1.9
Natural Gas . . . . .	4.5	5.6	6.8	8.0	8.6	9.2	2.8
Coal . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	2.7
Electricity . . . . .	0.7	0.7	0.8	0.9	1.0	1.1	1.8
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	27.4
<b>Total . . . . .</b>	<b>9.1</b>	<b>10.9</b>	<b>12.7</b>	<b>14.6</b>	<b>15.7</b>	<b>16.7</b>	<b>2.3</b>
<b>Transportation</b>							
Liquids . . . . .	4.5	6.4	6.9	7.4	8.2	9.0	2.7
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	3.0
<b>Total . . . . .</b>	<b>4.5</b>	<b>6.4</b>	<b>6.9</b>	<b>7.4</b>	<b>8.2</b>	<b>9.0</b>	<b>2.7</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	9.4	12.0	13.1	14.3	15.6	16.7	2.2
Natural Gas . . . . .	5.7	6.9	8.3	9.6	10.3	11.1	2.6
Coal . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	2.7
Electricity . . . . .	1.8	2.3	2.7	3.0	3.3	3.7	2.8
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	3.3
<b>Delivered Energy . . . . .</b>	<b>17.0</b>	<b>21.4</b>	<b>24.2</b>	<b>27.0</b>	<b>29.4</b>	<b>31.7</b>	<b>2.4</b>
Electricity-Related Losses . . . . .	4.2	4.9	5.3	5.6	6.1	6.5	1.7
<b>Total . . . . .</b>	<b>21.1</b>	<b>26.3</b>	<b>29.5</b>	<b>32.6</b>	<b>35.5</b>	<b>38.2</b>	<b>2.3</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	2.2	2.6	2.7	2.9	3.2	3.4	1.7
Natural Gas . . . . .	3.3	4.1	4.5	4.9	5.5	6.0	2.3
Coal . . . . .	0.3	0.4	0.4	0.5	0.5	0.5	1.5
Nuclear . . . . .	0.0	0.1	0.1	0.1	0.1	0.1	—
Renewables . . . . .	0.1	0.2	0.2	0.2	0.3	0.2	2.6
<b>Total . . . . .</b>	<b>6.0</b>	<b>7.3</b>	<b>7.9</b>	<b>8.6</b>	<b>9.4</b>	<b>10.2</b>	<b>2.1</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	11.6	14.6	15.9	17.2	18.7	20.1	2.1
Natural Gas . . . . .	9.0	11.0	12.8	14.6	15.8	17.1	2.5
Coal . . . . .	0.4	0.5	0.5	0.5	0.6	0.6	1.6
Nuclear . . . . .	0.0	0.1	0.1	0.1	0.1	0.1	—
Renewables . . . . .	0.1	0.2	0.2	0.2	0.3	0.3	2.7
<b>Total . . . . .</b>	<b>21.1</b>	<b>26.3</b>	<b>29.5</b>	<b>32.6</b>	<b>35.5</b>	<b>38.2</b>	<b>2.3</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site [www.eia.doe.gov/iea](http://www.eia.doe.gov/iea). **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F17. Delivered Energy Consumption in Africa by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.6	0.8	1.0	1.1	1.1	1.1	2.3
Natural Gas . . . . .	0.1	0.3	0.4	0.4	0.4	0.4	4.3
Coal . . . . .	0.1	0.2	0.2	0.2	0.2	0.2	2.7
Electricity . . . . .	0.5	0.7	0.9	1.1	1.2	1.3	3.8
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>1.3</b>	<b>2.0</b>	<b>2.5</b>	<b>2.8</b>	<b>2.9</b>	<b>3.0</b>	<b>3.2</b>
<b>Commercial</b>							
Liquids . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	2.7
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Coal . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	2.3
Electricity . . . . .	0.2	0.3	0.4	0.4	0.5	0.5	4.5
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.3</b>	<b>0.4</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.8</b>	<b>3.8</b>
<b>Industrial</b>							
Liquids . . . . .	1.6	1.8	2.1	2.4	2.5	2.5	1.8
Natural Gas . . . . .	1.3	1.6	1.9	2.2	2.6	3.0	3.3
Coal . . . . .	1.7	1.8	2.0	2.1	2.2	2.3	1.3
Electricity . . . . .	0.9	1.0	1.2	1.5	1.8	2.1	3.1
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.9
<b>Total . . . . .</b>	<b>5.5</b>	<b>6.2</b>	<b>7.2</b>	<b>8.2</b>	<b>9.1</b>	<b>9.9</b>	<b>2.3</b>
<b>Transportation</b>							
Liquids . . . . .	3.0	3.5	4.0	4.5	5.0	5.6	2.5
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	-4.2
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.1
<b>Total . . . . .</b>	<b>3.0</b>	<b>3.5</b>	<b>4.1</b>	<b>4.6</b>	<b>5.1</b>	<b>5.7</b>	<b>2.5</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	5.2	6.2	7.2	8.2	8.7	9.3	2.3
Natural Gas . . . . .	1.5	1.9	2.3	2.6	3.1	3.5	3.4
Coal . . . . .	1.8	2.0	2.3	2.4	2.6	2.6	1.4
Electricity . . . . .	1.6	2.0	2.5	3.1	3.5	3.9	3.5
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.1
<b>Delivered Energy . . . . .</b>	<b>10.1</b>	<b>12.1</b>	<b>14.3</b>	<b>16.2</b>	<b>17.8</b>	<b>19.3</b>	<b>2.5</b>
Electricity-Related Losses . . . . .	3.6	4.8	4.9	5.0	5.3	5.6	1.7
<b>Total . . . . .</b>	<b>13.7</b>	<b>16.9</b>	<b>19.2</b>	<b>21.2</b>	<b>23.1</b>	<b>24.9</b>	<b>2.3</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.5	0.7	0.7	0.7	0.7	0.7	1.5
Natural Gas . . . . .	1.4	1.7	2.0	2.4	2.7	3.1	3.3
Coal . . . . .	2.3	3.2	3.4	3.6	3.9	4.1	2.2
Nuclear . . . . .	0.1	0.1	0.2	0.2	0.2	0.2	1.7
Renewables . . . . .	0.9	1.1	1.1	1.2	1.2	1.3	1.5
<b>Total . . . . .</b>	<b>5.2</b>	<b>6.8</b>	<b>7.4</b>	<b>8.0</b>	<b>8.8</b>	<b>9.5</b>	<b>2.3</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	5.7	6.9	7.9	8.9	9.4	10.1	2.2
Natural Gas . . . . .	2.8	3.5	4.3	5.0	5.8	6.6	3.3
Coal . . . . .	4.1	5.3	5.7	6.0	6.5	6.7	1.9
Nuclear . . . . .	0.1	0.1	0.2	0.2	0.2	0.2	1.7
Renewables . . . . .	0.9	1.1	1.1	1.2	1.3	1.3	1.5
<b>Total . . . . .</b>	<b>13.7</b>	<b>16.9</b>	<b>19.2</b>	<b>21.2</b>	<b>23.1</b>	<b>24.9</b>	<b>2.3</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F18. Delivered Energy Consumption in Brazil by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.3	0.4	0.4	0.5	0.5	0.5	1.8
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.1	8.0
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.3	0.5	0.5	0.6	0.7	0.7	3.3
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.6</b>	<b>0.9</b>	<b>1.0</b>	<b>1.1</b>	<b>1.2</b>	<b>1.3</b>	<b>2.8</b>
<b>Commercial</b>							
Liquids . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	2.0
Natural Gas . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	5.4
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.3	0.5	0.6	0.8	0.9	1.1	4.9
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.4</b>	<b>0.5</b>	<b>0.7</b>	<b>0.9</b>	<b>1.1</b>	<b>1.2</b>	<b>4.6</b>
<b>Industrial</b>							
Liquids . . . . .	1.6	1.7	1.9	2.1	2.3	2.5	1.7
Natural Gas . . . . .	0.5	0.6	0.6	0.7	0.7	0.9	2.3
Coal . . . . .	0.4	0.5	0.6	0.7	0.7	0.8	2.8
Electricity . . . . .	0.7	0.8	0.9	1.1	1.2	1.3	2.4
Renewables . . . . .	0.0	0.1	0.1	0.1	0.1	0.1	1.3
<b>Total . . . . .</b>	<b>3.3</b>	<b>3.7</b>	<b>4.1</b>	<b>4.5</b>	<b>5.0</b>	<b>5.6</b>	<b>2.1</b>
<b>Transportation</b>							
Liquids . . . . .	2.5	3.0	3.3	3.7	4.0	4.4	2.1
Natural Gas . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.0
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	1.6
<b>Total . . . . .</b>	<b>2.6</b>	<b>3.1</b>	<b>3.4</b>	<b>3.8</b>	<b>4.1</b>	<b>4.4</b>	<b>2.1</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	4.5	5.1	5.8	6.3	6.9	7.4	1.9
Natural Gas . . . . .	0.6	0.6	0.7	0.8	0.9	1.0	2.5
Coal . . . . .	0.4	0.5	0.6	0.7	0.7	0.8	2.8
Electricity . . . . .	1.3	1.7	2.1	2.5	2.8	3.1	3.3
Renewables . . . . .	0.0	0.1	0.1	0.1	0.1	0.1	1.4
<b>Delivered Energy . . . . .</b>	<b>6.9</b>	<b>8.1</b>	<b>9.2</b>	<b>10.3</b>	<b>11.3</b>	<b>12.5</b>	<b>2.3</b>
Electricity-Related Losses . . . . .	2.1	3.1	3.5	3.8	4.1	4.6	3.1
<b>Total . . . . .</b>	<b>9.1</b>	<b>11.2</b>	<b>12.7</b>	<b>14.1</b>	<b>15.5</b>	<b>17.1</b>	<b>2.5</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	-0.6
Natural Gas . . . . .	0.1	0.2	0.3	0.3	0.4	0.4	6.4
Coal . . . . .	0.1	0.2	0.2	0.2	0.2	0.2	5.8
Nuclear . . . . .	0.1	0.1	0.2	0.2	0.2	0.2	2.7
Renewables . . . . .	3.1	4.2	4.8	5.4	6.0	6.8	3.1
<b>Total . . . . .</b>	<b>3.4</b>	<b>4.8</b>	<b>5.6</b>	<b>6.3</b>	<b>6.9</b>	<b>7.8</b>	<b>3.2</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	4.6	5.3	5.8	6.4	7.0	7.5	1.9
Natural Gas . . . . .	0.6	0.9	1.0	1.1	1.3	1.5	3.3
Coal . . . . .	0.5	0.7	0.8	0.9	0.9	1.1	3.3
Nuclear . . . . .	0.1	0.1	0.2	0.2	0.2	0.2	2.7
Renewables . . . . .	3.1	4.2	4.8	5.4	6.1	6.8	3.1
<b>Total . . . . .</b>	<b>9.1</b>	<b>11.2</b>	<b>12.7</b>	<b>14.1</b>	<b>15.5</b>	<b>17.1</b>	<b>2.5</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

**Table F19. Delivered Energy Consumption in Other Central and South America by End-Use Sector and Fuel, 2004-2030**  
(Quadrillion Btu)

Sector/Fuel	2004	Projections					Average Annual Percent Change, 2004-2030
		2010	2015	2020	2025	2030	
<b>Residential</b>							
Liquids . . . . .	0.4	0.5	0.5	0.5	0.6	0.6	1.1
Natural Gas . . . . .	0.3	0.5	0.6	0.7	0.8	0.8	3.4
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Electricity . . . . .	0.4	0.6	0.6	0.7	0.8	0.8	2.6
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	6.9
<b>Total . . . . .</b>	<b>1.2</b>	<b>1.5</b>	<b>1.8</b>	<b>1.9</b>	<b>2.1</b>	<b>2.2</b>	<b>2.4</b>
<b>Commercial</b>							
Liquids . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.8
Natural Gas . . . . .	0.1	0.1	0.1	0.2	0.2	0.2	2.8
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.3	0.5	0.5	0.6	0.7	0.7	3.3
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
<b>Total . . . . .</b>	<b>0.5</b>	<b>0.7</b>	<b>0.8</b>	<b>0.9</b>	<b>1.0</b>	<b>1.0</b>	<b>3.0</b>
<b>Industrial</b>							
Liquids . . . . .	2.2	2.5	2.7	2.9	3.1	3.2	1.5
Natural Gas . . . . .	2.3	2.8	3.2	3.5	3.8	4.0	2.1
Coal . . . . .	0.2	0.2	0.3	0.3	0.3	0.3	1.7
Electricity . . . . .	0.7	0.8	0.9	0.9	1.0	1.1	1.6
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	1.2
<b>Total . . . . .</b>	<b>5.5</b>	<b>6.4</b>	<b>7.0</b>	<b>7.6</b>	<b>8.2</b>	<b>8.6</b>	<b>1.8</b>
<b>Transportation</b>							
Liquids . . . . .	3.3	4.1	5.1	5.9	6.7	7.6	3.2
Natural Gas . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Coal . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	4.3
<b>Total . . . . .</b>	<b>3.4</b>	<b>4.3</b>	<b>5.2</b>	<b>6.0</b>	<b>6.9</b>	<b>7.7</b>	<b>3.2</b>
<b>All End-Use Sectors</b>							
Liquids . . . . .	6.0	7.2	8.4	9.5	10.5	11.5	2.5
Natural Gas . . . . .	2.9	3.5	4.1	4.5	4.9	5.1	2.3
Coal . . . . .	0.2	0.2	0.3	0.3	0.3	0.3	1.7
Electricity . . . . .	1.5	1.8	2.0	2.3	2.5	2.7	2.3
Renewables . . . . .	0.0	0.0	0.0	0.0	0.0	0.0	2.8
<b>Delivered Energy . . . . .</b>	<b>10.6</b>	<b>12.8</b>	<b>14.8</b>	<b>16.5</b>	<b>18.2</b>	<b>19.6</b>	<b>2.4</b>
Electricity-Related Losses . . . . .	3.0	3.7	4.0	4.2	4.4	4.6	1.7
<b>Total . . . . .</b>	<b>13.5</b>	<b>16.5</b>	<b>18.8</b>	<b>20.7</b>	<b>22.6</b>	<b>24.2</b>	<b>2.3</b>
<b>Electric Power<sup>a</sup></b>							
Liquids . . . . .	0.9	0.9	0.9	0.9	0.9	0.9	0.1
Natural Gas . . . . .	0.9	1.2	1.4	1.5	1.7	1.9	3.0
Coal . . . . .	0.2	0.2	0.3	0.3	0.3	0.3	2.3
Nuclear . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.8
Renewables . . . . .	2.5	3.2	3.4	3.6	3.9	4.1	1.9
<b>Total . . . . .</b>	<b>4.5</b>	<b>5.5</b>	<b>6.0</b>	<b>6.5</b>	<b>6.9</b>	<b>7.3</b>	<b>1.9</b>
<b>Total Energy Consumption</b>							
Liquids . . . . .	6.9	8.1	9.3	10.3	11.4	12.3	2.3
Natural Gas . . . . .	3.7	4.7	5.4	6.0	6.5	7.0	2.4
Coal . . . . .	0.4	0.4	0.5	0.6	0.6	0.6	2.0
Nuclear . . . . .	0.1	0.1	0.1	0.1	0.1	0.1	1.8
Renewables . . . . .	2.5	3.2	3.4	3.6	3.9	4.1	1.9
<b>Total . . . . .</b>	<b>13.5</b>	<b>16.5</b>	<b>18.8</b>	<b>20.7</b>	<b>22.6</b>	<b>24.2</b>	<b>2.3</b>

<sup>a</sup>Fuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2004:** Derived from Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, System for the Analysis of Global Energy Markets (2007).

