

Appendix F

Reference Case Projections by End-Use Sector and Country Grouping

Table F1. Total World Delivered Energy Consumption by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	10.4	10.3	10.5	10.8	11.0	11.1	0.3
Natural Gas	19.1	20.5	22.1	23.2	24.1	25.2	1.1
Coal	3.2	3.3	3.5	3.6	3.5	3.3	0.2
Electricity	15.1	18.1	20.7	23.1	25.2	27.4	2.4
Renewables	0.7	0.7	0.6	0.6	0.6	0.6	-0.4
Total	48.5	52.8	57.5	61.3	64.4	67.6	1.3
Commercial							
Liquids	5.1	4.9	5.1	5.1	5.2	5.3	0.2
Natural Gas	7.3	7.6	8.2	8.7	9.2	9.6	1.1
Coal	0.8	0.8	1.0	1.0	1.0	1.0	0.9
Electricity	12.3	14.6	17.1	19.2	21.3	23.4	2.6
Renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Total	25.6	28.2	31.5	34.2	36.9	39.5	1.7
Industrial							
Liquids	55.4	58.6	61.8	65.3	68.3	72.0	1.1
Natural Gas	45.2	51.4	57.6	62.6	66.5	70.2	1.8
Coal	41.2	46.0	51.0	55.3	59.9	64.2	1.8
Electricity	26.2	32.7	38.4	43.2	47.9	52.2	2.8
Renewables	2.0	2.5	2.9	3.5	4.4	4.5	3.2
Total	170.0	191.2	211.8	230.0	247.0	263.1	1.8
Transportation							
Liquids	88.2	98.2	108.1	116.2	123.9	132.8	1.6
Natural Gas	1.0	1.1	1.3	1.4	1.5	1.6	1.9
Coal	0.2	0.2	0.2	0.1	0.0	0.0	-100.0
Electricity	0.8	0.9	0.9	1.0	1.0	1.1	1.2
Total	90.2	100.4	110.5	118.7	126.5	135.4	1.6
All End-Use Sectors							
Liquids	159.0	172.0	185.5	197.5	208.5	221.2	1.3
Natural Gas	72.6	80.7	89.1	95.9	101.3	106.5	1.5
Coal	45.3	50.4	55.7	60.0	64.4	68.5	1.7
Electricity	54.4	66.3	77.1	86.4	95.4	104.1	2.6
Renewables	2.9	3.4	3.8	4.3	5.2	5.3	2.4
Delivered Energy	334.3	372.6	411.2	444.2	474.8	505.7	1.7
Electricity-Related Losses ^a	128.0	139.8	151.8	164.2	177.0	189.0	1.6
Total	462.2	512.5	563.0	608.4	651.8	694.7	1.6
Electric Power^b							
Liquids	10.4	9.2	8.9	8.6	8.4	8.1	-1.0
Natural Gas	34.7	39.6	45.2	51.0	54.5	58.2	2.1
Coal	77.2	89.8	102.0	111.7	122.3	133.7	2.2
Nuclear	27.5	28.8	31.4	34.5	37.7	39.4	1.5
Renewables	32.4	38.5	41.1	44.8	49.4	53.6	2.0
Total	182.4	206.1	228.8	250.6	272.4	293.1	1.9
Total Energy Consumption							
Liquids	169.4	181.1	194.4	206.1	216.9	229.3	1.2
Natural Gas	107.4	120.3	134.4	146.9	155.8	164.7	1.7
Coal	122.5	140.2	157.8	171.7	186.7	202.2	2.0
Nuclear	27.5	28.8	31.4	34.5	37.7	39.4	1.5
Renewables	35.5	42.0	45.0	49.3	54.7	59.0	2.1
Total	462.2	512.5	563.0	608.4	651.8	694.7	1.6

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2008*, DOE/EIA-0383(2008) (Washington, DC, June 2008), AEO2008 National Energy Modeling System, run AEO2008.D031608A, web site www.eia.doe.gov/oiaf/aeo; and World Energy Projection System (2008).

Table F2. Total OECD Delivered Energy Consumption by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	5.3	5.0	5.1	5.1	5.1	5.1	-0.2
Natural Gas	12.2	12.3	12.6	12.9	13.0	13.1	0.3
Coal	0.5	0.4	0.4	0.4	0.4	0.4	-1.3
Electricity	10.0	11.0	11.5	12.2	12.8	13.5	1.2
Renewables	0.6	0.6	0.5	0.5	0.5	0.5	-0.5
Total	28.6	29.3	30.2	31.0	31.8	32.6	0.5
Commercial							
Liquids	3.5	3.2	3.3	3.3	3.4	3.4	-0.1
Natural Gas	6.3	6.3	6.7	7.0	7.2	7.4	0.7
Coal	0.2	0.2	0.2	0.2	0.2	0.2	-0.6
Electricity	9.1	10.3	11.4	12.3	13.3	14.2	1.8
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total	19.2	20.2	21.7	23.0	24.2	25.3	1.1
Industrial							
Liquids	28.5	28.0	28.5	28.4	28.6	29.1	0.1
Natural Gas	17.9	19.3	20.2	20.8	21.5	22.0	0.8
Coal	9.2	9.3	9.4	9.4	9.4	9.5	0.1
Electricity	11.3	12.0	12.7	13.2	13.6	14.1	0.9
Renewables	2.0	2.4	2.8	3.4	4.3	4.4	3.3
Total	68.8	71.0	73.6	75.2	77.3	79.1	0.6
Transportation							
Liquids	57.5	59.4	62.6	64.4	65.8	67.6	0.7
Natural Gas	0.7	0.7	0.8	0.8	0.9	0.9	1.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-100.0
Electricity	0.4	0.4	0.4	0.4	0.4	0.4	0.3
Total	58.5	60.5	63.8	65.6	67.0	68.8	0.7
All End-Use Sectors							
Liquids	94.7	95.7	99.5	101.3	102.8	105.1	0.4
Natural Gas	37.1	38.8	40.3	41.5	42.6	43.4	0.6
Coal	9.9	9.9	9.9	10.0	9.9	10.0	0.1
Electricity	30.8	33.6	36.0	38.1	40.0	42.2	1.3
Renewables	2.7	3.1	3.5	4.1	5.0	5.1	2.6
Delivered Energy	175.2	181.0	189.3	194.9	200.3	205.8	0.6
Electricity-Related Losses ^a	65.8	68.6	71.2	74.1	77.2	80.1	0.8
Total	240.9	249.7	260.5	269.0	277.6	285.9	0.7
Electric Power^b							
Liquids	3.9	2.9	2.6	2.4	2.2	2.0	-2.6
Natural Gas	16.4	18.5	20.9	22.6	23.6	24.9	1.7
Coal	37.5	38.8	39.9	41.3	43.0	44.9	0.7
Nuclear	23.2	23.8	24.3	24.8	26.0	26.8	0.6
Renewables	15.4	18.1	19.3	21.0	22.4	23.5	1.7
Total	96.6	102.2	107.2	112.2	117.3	122.3	0.9
Total Energy Consumption							
Liquids	98.7	98.5	102.1	103.7	105.1	107.2	0.3
Natural Gas	53.4	57.3	61.2	64.1	66.1	68.3	1.0
Coal	47.3	48.7	49.9	51.2	52.9	55.0	0.6
Nuclear	23.2	23.8	24.3	24.8	26.0	26.8	0.6
Renewables	18.2	21.3	22.9	25.2	27.5	28.7	1.8
Total	240.9	249.7	260.5	269.0	277.6	285.9	0.7

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2008*, DOE/EIA-0383(2008) (Washington, DC, June 2008), AEO2008 National Energy Modeling System, run AEO2008.D030208F, web site www.eia.doe.gov/oi/aef/aef; and World Energy Projection System (2008).

Table F3. Delivered Energy Consumption in the United States by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	1.5	1.3	1.3	1.3	1.3	1.3	-0.5
Natural Gas	5.0	4.9	5.2	5.3	5.3	5.3	0.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-0.7
Electricity	4.6	4.9	5.0	5.3	5.5	5.9	1.0
Renewables	0.4	0.4	0.4	0.4	0.4	0.4	-0.7
Total	11.5	11.7	11.9	12.3	12.6	12.9	0.4
Commercial							
Liquids	0.7	0.6	0.7	0.7	0.7	0.7	-0.2
Natural Gas	3.1	3.0	3.3	3.5	3.6	3.8	0.8
Coal	0.1	0.1	0.1	0.1	0.1	0.1	-0.1
Electricity	4.4	4.7	5.2	5.7	6.1	6.6	1.7
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total	8.4	8.6	9.4	10.0	10.7	11.3	1.2
Industrial							
Liquids	9.8	9.7	9.6	9.3	9.2	9.2	-0.2
Natural Gas	7.9	8.4	8.4	8.4	8.4	8.3	0.2
Coal	1.9	1.9	1.9	2.1	2.1	2.3	0.6
Electricity	3.5	3.5	3.6	3.6	3.6	3.5	0.1
Renewables	1.9	2.3	2.7	3.3	4.2	4.3	3.4
Total	25.0	25.8	26.3	26.7	27.5	27.7	0.4
Transportation							
Liquids	27.3	28.3	29.6	30.4	31.0	32.1	0.7
Natural Gas	0.6	0.7	0.7	0.8	0.8	0.8	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	1.3
Total	27.9	29.0	30.4	31.2	31.9	33.0	0.7
All End-Use Sectors							
Liquids	39.2	39.9	41.2	41.7	42.2	43.4	0.4
Natural Gas	16.6	17.0	17.6	17.9	18.2	18.3	0.4
Coal	2.0	2.0	2.0	2.2	2.2	2.3	0.6
Electricity	12.5	13.2	13.9	14.5	15.3	16.1	1.0
Renewables	2.5	2.9	3.3	3.9	4.7	4.8	2.7
Delivered Energy	72.8	75.1	78.0	80.2	82.6	84.9	0.6
Electricity-Related Losses ^a	27.3	28.3	29.3	30.7	31.9	33.2	0.8
Total	100.1	103.3	107.3	110.8	114.5	118.0	0.7
Electric Power^b							
Liquids	1.2	0.6	0.6	0.6	0.6	0.6	-2.7
Natural Gas	6.0	6.9	6.7	6.1	5.4	5.1	-0.6
Coal	20.7	21.0	22.2	23.7	25.5	27.5	1.1
Nuclear	8.2	8.3	8.4	9.1	9.5	9.6	0.6
Renewables	3.4	4.6	5.1	5.7	6.0	6.2	2.4
Total	39.7	41.5	43.1	45.2	47.2	49.2	0.9
Total Energy Consumption							
Liquids	40.5	40.5	41.8	42.2	42.8	44.0	0.3
Natural Gas	22.6	23.9	24.4	24.0	23.7	23.4	0.1
Coal	22.8	23.0	24.2	25.9	27.7	29.9	1.1
Nuclear	8.2	8.3	8.4	9.1	9.5	9.6	0.6
Renewables	6.0	7.6	8.5	9.7	10.9	11.2	2.5
Total	100.1	103.3	107.3	110.8	114.5	118.0	0.7

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators. Includes net electricity imports.

Sources: **2005:** Based on Energy Information Administration (EIA), *Annual Energy Review 2006*, DOE/EIA-0384(2006) (Washington, DC, June 2007). **Projections:** EIA, *Annual Energy Outlook 2008*, DOE/EIA-0383(2008) (Washington, DC, June 2008), AEO2008 National Energy Modeling System, run AEO2008.D030208F, web site www.eia.doe.gov/oiarf/aeo.

Table F4. Delivered Energy Consumption in Canada by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	-1.2
Electricity	0.6	0.6	0.7	0.7	0.8	0.8	1.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.4	1.5	1.6	1.6	1.7	1.7	0.9
Commercial							
Liquids	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Natural Gas	0.5	0.5	0.5	0.6	0.6	0.6	0.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.5	0.6	0.7	0.8	0.8	0.8	2.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	1.5	1.6	1.7	1.8	1.9	1.9	1.2
Industrial							
Liquids	1.4	1.4	1.4	1.4	1.4	1.5	0.2
Natural Gas	1.8	2.0	2.2	2.5	2.7	3.0	2.0
Coal	0.5	0.6	0.7	0.7	0.8	0.8	2.1
Electricity	0.8	0.9	0.9	1.0	1.1	1.1	1.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total	4.5	4.9	5.2	5.6	6.0	6.3	1.4
Transportation							
Liquids	2.4	2.6	2.7	2.8	2.9	3.0	0.7
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	0.7
Total	2.4	2.6	2.7	2.8	2.9	3.0	0.9
All End-Use Sectors							
Liquids	4.4	4.6	4.7	4.9	5.0	5.1	0.7
Natural Gas	2.9	3.2	3.4	3.8	4.0	4.3	1.5
Coal	0.5	0.6	0.7	0.7	0.8	0.8	2.1
Electricity	1.9	2.1	2.3	2.5	2.6	2.8	1.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Delivered Energy	9.7	10.5	11.2	11.9	12.4	13.0	1.2
Electricity-Related Losses ^a	4.7	5.1	5.5	5.7	6.0	6.3	1.2
Total	14.3	15.7	16.7	17.6	18.4	19.3	1.2
Electric Power^b							
Liquids	0.2	0.1	0.1	0.1	0.1	0.1	-2.8
Natural Gas	0.6	0.6	0.7	0.7	0.7	0.8	1.5
Coal	1.2	1.2	1.2	1.2	1.2	1.2	0.0
Nuclear	1.0	1.2	1.3	1.4	1.4	1.5	1.7
Renewables	3.7	4.1	4.5	4.9	5.2	5.5	1.6
Total	6.6	7.3	7.8	8.2	8.7	9.1	1.3
Total Energy Consumption							
Liquids	4.5	4.8	4.9	5.0	5.1	5.2	0.6
Natural Gas	3.5	3.8	4.1	4.4	4.8	5.1	1.5
Coal	1.7	1.8	1.9	1.9	2.0	2.0	0.7
Nuclear	1.0	1.2	1.3	1.4	1.4	1.5	1.7
Renewables	3.7	4.1	4.6	4.9	5.2	5.5	1.6
Total	14.3	15.7	16.7	17.6	18.4	19.3	1.2

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F5. Delivered Energy Consumption in Mexico by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.3	0.3	0.3	0.4	0.4	0.4	1.1
Natural Gas	0.0	0.1	0.1	0.1	0.1	0.1	3.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.2	0.2	0.3	0.3	0.4	0.5	4.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.5	0.6	0.7	0.8	0.8	0.9	2.5
Commercial							
Liquids	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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	5.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.2	0.2	0.2	0.3	0.4	0.4	4.0
Industrial							
Liquids	1.2	1.2	1.3	1.3	1.4	1.6	1.1
Natural Gas	1.0	1.1	1.3	1.5	1.7	1.8	2.6
Coal	0.0	0.1	0.1	0.1	0.2	0.2	5.1
Electricity	0.5	0.5	0.5	0.6	0.7	0.8	2.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Total	2.7	2.9	3.2	3.6	4.0	4.4	2.0
Transportation							
Liquids	1.9	2.1	2.5	2.8	3.1	3.5	2.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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	2.5
Total	1.9	2.1	2.5	2.8	3.1	3.5	2.4
All End-Use Sectors							
Liquids	3.4	3.6	4.1	4.6	5.0	5.5	1.9
Natural Gas	1.0	1.2	1.4	1.6	1.8	2.0	2.6
Coal	0.0	0.1	0.1	0.1	0.2	0.2	5.1
Electricity	0.7	0.8	1.0	1.2	1.4	1.6	3.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Delivered Energy	5.2	5.7	6.7	7.5	8.3	9.2	2.3
Electricity-Related Losses ^a	1.7	1.7	1.7	1.9	2.1	2.3	1.4
Total	6.9	7.4	8.4	9.4	10.4	11.6	2.1
Electric Power^b							
Liquids	0.6	0.6	0.6	0.6	0.5	0.5	-0.9
Natural Gas	0.8	0.9	1.1	1.5	1.9	2.3	4.1
Coal	0.3	0.4	0.4	0.4	0.4	0.4	0.2
Nuclear	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Renewables	0.4	0.5	0.5	0.6	0.6	0.6	1.5
Total	2.4	2.5	2.7	3.1	3.5	3.9	2.1
Total Energy Consumption							
Liquids	4.1	4.2	4.7	5.1	5.5	6.0	1.6
Natural Gas	1.9	2.1	2.5	3.1	3.7	4.3	3.4
Coal	0.4	0.4	0.5	0.5	0.5	0.5	1.3
Nuclear	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Renewables	0.4	0.5	0.5	0.6	0.6	0.6	1.5
Total	6.9	7.4	8.4	9.4	10.4	11.6	2.1

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F6. Delivered Energy Consumption in OECD Europe by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	2.6	2.5	2.5	2.5	2.4	2.4	-0.2
Natural Gas	5.6	5.7	5.7	5.8	5.8	5.9	0.2
Coal	0.4	0.3	0.3	0.3	0.3	0.3	-1.3
Electricity	3.0	3.4	3.7	3.9	4.1	4.3	1.5
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total	11.7	11.9	12.2	12.5	12.8	13.0	0.4
Commercial							
Liquids	1.0	0.9	0.9	0.9	0.9	0.9	-0.3
Natural Gas	1.9	2.0	2.0	2.1	2.1	2.1	0.3
Coal	0.1	0.0	0.0	0.0	0.0	0.0	-1.3
Electricity	2.6	3.1	3.4	3.6	3.9	4.1	1.8
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	5.6	6.0	6.3	6.6	6.9	7.2	1.0
Industrial							
Liquids	9.2	9.1	9.3	9.4	9.4	9.5	0.1
Natural Gas	6.3	6.8	7.1	7.2	7.4	7.5	0.7
Coal	3.7	3.7	3.7	3.5	3.3	3.2	-0.6
Electricity	4.6	5.0	5.3	5.5	5.7	6.0	1.1
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Total	23.9	24.6	25.5	25.6	25.9	26.2	0.4
Transportation							
Liquids	18.4	18.8	19.5	19.8	19.9	20.0	0.3
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-100.0
Electricity	0.3	0.3	0.3	0.3	0.3	0.3	0.1
Total	18.7	19.1	19.8	20.1	20.2	20.3	0.3
All End-Use Sectors							
Liquids	31.2	31.2	32.2	32.5	32.7	32.8	0.2
Natural Gas	13.9	14.5	14.8	15.0	15.3	15.5	0.4
Coal	4.3	4.1	4.1	3.9	3.7	3.6	-0.7
Electricity	10.4	11.7	12.5	13.3	14.0	14.7	1.4
Renewables	0.1	0.1	0.1	0.1	0.1	0.2	0.3
Delivered Energy	59.9	61.6	63.8	64.9	65.8	66.7	0.4
Electricity-Related Losses ^a	21.5	22.3	23.0	23.6	24.6	25.3	0.7
Total	81.4	83.9	86.8	88.5	90.4	92.0	0.5
Electric Power^b							
Liquids	0.9	0.7	0.6	0.5	0.4	0.4	-3.6
Natural Gas	6.0	6.8	8.7	10.4	11.5	12.5	3.0
Coal	8.9	9.7	9.6	9.4	9.3	9.0	0.0
Nuclear	9.8	9.6	9.5	8.7	9.0	9.3	-0.2
Renewables	6.3	7.1	7.1	7.8	8.4	8.9	1.3
Total	31.9	34.0	35.5	36.9	38.6	40.0	0.9
Total Energy Consumption							
Liquids	32.1	31.9	32.8	33.0	33.1	33.2	0.1
Natural Gas	19.9	21.3	23.5	25.5	26.7	28.0	1.4
Coal	13.2	13.8	13.7	13.3	13.0	12.6	-0.2
Nuclear	9.8	9.6	9.5	8.7	9.0	9.3	-0.2
Renewables	6.5	7.2	7.3	7.9	8.6	9.0	1.3
Total	81.4	83.9	86.8	88.5	90.4	92.0	0.5

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F7. Delivered Energy Consumption in Japan by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.7	0.6	0.6	0.6	0.6	0.6	-0.6
Natural Gas	0.4	0.4	0.5	0.5	0.5	0.5	0.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	1.2	1.3	1.3	1.4	1.4	1.4	0.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.3	2.3	2.4	2.4	2.4	2.5	0.3
Commercial							
Liquids	1.0	0.9	0.9	0.9	0.9	0.9	-0.3
Natural Gas	0.6	0.6	0.6	0.6	0.6	0.7	0.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-0.7
Electricity	1.0	1.1	1.2	1.2	1.2	1.2	0.8
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.6	2.6	2.7	2.8	2.8	2.8	0.4
Industrial							
Liquids	4.2	4.0	3.9	4.0	4.0	4.1	-0.2
Natural Gas	0.1	0.1	0.1	0.1	0.2	0.2	1.6
Coal	2.0	2.0	2.0	1.9	1.9	1.9	-0.2
Electricity	1.0	1.0	1.0	1.0	1.0	1.0	0.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Total	7.3	7.1	7.1	7.1	7.1	7.2	-0.1
Transportation							
Liquids	4.2	4.0	4.2	4.2	4.1	4.1	-0.1
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	0.1
Total	4.3	4.0	4.3	4.3	4.2	4.1	-0.1
All End-Use Sectors							
Liquids	10.1	9.5	9.6	9.7	9.7	9.6	-0.2
Natural Gas	1.1	1.2	1.2	1.2	1.3	1.3	0.6
Coal	2.0	2.1	2.0	2.0	1.9	1.9	-0.2
Electricity	3.2	3.5	3.6	3.7	3.7	3.8	0.6
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Delivered Energy	16.5	16.1	16.4	16.5	16.6	16.6	0.0
Electricity-Related Losses ^a	6.1	6.3	6.5	6.6	6.7	6.8	0.4
Total	22.6	22.4	22.9	23.1	23.3	23.4	0.1
Electric Power^b							
Liquids	0.8	0.7	0.6	0.5	0.4	0.3	-3.5
Natural Gas	2.1	2.3	2.5	2.6	2.6	2.6	0.8
Coal	2.6	2.5	2.4	2.4	2.3	2.2	-0.5
Nuclear	2.8	3.1	3.3	3.4	3.7	3.9	1.3
Renewables	1.0	1.2	1.3	1.4	1.4	1.5	1.5
Total	9.3	9.8	10.1	10.2	10.4	10.6	0.5
Total Energy Consumption							
Liquids	10.9	10.1	10.2	10.2	10.1	10.0	-0.4
Natural Gas	3.2	3.5	3.7	3.8	3.8	3.8	0.7
Coal	4.6	4.5	4.4	4.3	4.2	4.2	-0.4
Nuclear	2.8	3.1	3.3	3.4	3.7	3.9	1.3
Renewables	1.0	1.2	1.3	1.4	1.4	1.5	1.5
Total	22.6	22.4	22.9	23.1	23.3	23.4	0.1

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F8. Delivered Energy Consumption in South Korea by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.1	0.1	0.1	0.1	0.2	0.2	0.3
Natural Gas	0.4	0.4	0.4	0.5	0.5	0.5	1.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-2.0
Electricity	0.2	0.2	0.2	0.3	0.3	0.3	2.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.7	0.8	0.9	0.9	0.9	1.0	1.1
Commercial							
Liquids	0.3	0.3	0.3	0.3	0.3	0.3	0.1
Natural Gas	0.1	0.2	0.2	0.2	0.2	0.2	2.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.4	0.5	0.6	0.7	0.7	0.7	2.6
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.8	0.9	1.1	1.1	1.2	1.2	1.8
Industrial							
Liquids	2.1	2.2	2.4	2.5	2.6	2.7	1.0
Natural Gas	0.2	0.3	0.3	0.3	0.3	0.4	1.9
Coal	0.8	0.8	0.8	0.8	0.9	0.9	0.6
Electricity	0.6	0.7	0.8	0.9	0.9	1.0	2.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	3.7	3.9	4.3	4.5	4.7	5.0	1.2
Transportation							
Liquids	1.8	2.1	2.4	2.6	2.8	2.9	1.9
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	2.3
Total	1.8	2.1	2.4	2.6	2.8	2.9	1.9
All End-Use Sectors							
Liquids	4.3	4.7	5.2	5.5	5.8	6.1	1.4
Natural Gas	0.7	0.8	0.9	1.0	1.0	1.1	1.5
Coal	0.8	0.8	0.8	0.8	0.9	0.9	0.5
Electricity	1.2	1.4	1.7	1.8	1.9	2.1	2.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delivered Energy	7.1	7.8	8.7	9.2	9.6	10.1	1.5
Electricity-Related Losses ^a	2.2	2.5	2.9	3.2	3.3	3.6	1.9
Total	9.3	10.3	11.6	12.4	13.0	13.7	1.6
Electric Power^b							
Liquids	0.2	0.2	0.2	0.1	0.1	0.1	-2.4
Natural Gas	0.5	0.6	0.8	0.9	0.9	1.0	3.1
Coal	1.3	1.6	1.7	1.7	1.7	1.9	1.5
Nuclear	1.4	1.4	1.8	2.1	2.3	2.4	2.3
Renewables	0.0	0.1	0.1	0.2	0.2	0.3	8.2
Total	3.4	3.9	4.6	5.0	5.2	5.7	2.1
Total Energy Consumption							
Liquids	4.5	4.9	5.4	5.7	5.9	6.2	1.3
Natural Gas	1.2	1.5	1.8	1.9	2.0	2.0	2.2
Coal	2.1	2.4	2.6	2.6	2.6	2.8	1.1
Nuclear	1.4	1.4	1.8	2.1	2.3	2.4	2.3
Renewables	0.0	0.1	0.1	0.2	0.2	0.3	7.7
Total	9.3	10.3	11.6	12.4	13.0	13.7	1.6

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F9. Delivered Energy Consumption in Australia/New Zealand by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Natural Gas	0.1	0.1	0.1	0.1	0.1	0.2	0.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
Electricity	0.2	0.3	0.3	0.3	0.3	0.3	1.3
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total	0.5	0.5	0.5	0.5	0.5	0.6	0.9
Commercial							
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	0.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-0.3
Electricity	0.2	0.2	0.2	0.2	0.3	0.3	1.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.3	0.3	0.3	0.3	0.4	0.4	1.3
Industrial							
Liquids	0.5	0.5	0.5	0.6	0.6	0.6	0.4
Natural Gas	0.6	0.7	0.7	0.7	0.8	0.8	1.4
Coal	0.2	0.2	0.2	0.2	0.3	0.3	1.9
Electricity	0.4	0.5	0.5	0.5	0.6	0.6	1.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total	1.7	1.8	2.0	2.1	2.2	2.3	1.1
Transportation							
Liquids	1.5	1.6	1.7	1.8	1.9	2.0	1.1
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-100.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Total	1.5	1.6	1.8	1.9	1.9	2.0	1.1
All End-Use Sectors							
Liquids	2.1	2.1	2.3	2.4	2.5	2.6	0.9
Natural Gas	0.8	0.9	0.9	0.9	1.0	1.1	1.2
Coal	0.2	0.2	0.2	0.2	0.3	0.3	1.8
Electricity	0.9	0.9	1.0	1.1	1.2	1.2	1.4
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Delivered Energy	4.0	4.2	4.5	4.8	5.0	5.3	1.1
Electricity-Related Losses ^a	2.3	2.4	2.4	2.4	2.5	2.5	0.3
Total	6.3	6.6	6.9	7.2	7.5	7.8	0.8
Electric Power^b							
Liquids	0.0	0.0	0.0	0.0	0.0	0.0	-1.2
Natural Gas	0.4	0.4	0.4	0.5	0.5	0.5	1.6
Coal	2.4	2.4	2.4	2.5	2.6	2.7	0.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables	0.4	0.5	0.5	0.5	0.5	0.5	0.8
Total	3.2	3.3	3.4	3.5	3.6	3.8	0.6
Total Energy Consumption							
Liquids	2.1	2.1	2.3	2.4	2.5	2.6	0.9
Natural Gas	1.1	1.2	1.3	1.4	1.5	1.6	1.3
Coal	2.6	2.6	2.7	2.8	2.9	3.0	0.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables	0.5	0.6	0.6	0.6	0.6	0.6	0.7
Total	6.3	6.6	6.9	7.2	7.5	7.8	0.8

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F10. Total Non-OECD Delivered Energy Consumption by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	5.0	5.3	5.5	5.8	6.0	6.1	0.7
Natural Gas	6.9	8.2	9.5	10.3	11.1	12.1	2.2
Coal	2.7	2.9	3.2	3.2	3.1	3.0	0.4
Electricity	5.1	7.1	9.1	10.9	12.4	13.8	4.0
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total	19.9	23.5	27.3	30.2	32.6	35.0	2.3
Commercial							
Liquids	1.6	1.7	1.8	1.8	1.9	1.9	0.7
Natural Gas	1.0	1.3	1.5	1.7	1.9	2.1	3.2
Coal	0.6	0.7	0.8	0.8	0.8	0.8	1.2
Electricity	3.1	4.4	5.7	6.8	8.0	9.3	4.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	6.4	8.1	9.8	11.2	12.7	14.2	3.3
Industrial							
Liquids	26.9	30.6	33.4	36.9	39.7	42.9	1.9
Natural Gas	27.3	32.1	37.4	41.9	45.1	48.2	2.3
Coal	32.0	36.7	41.6	45.9	50.6	54.7	2.2
Electricity	14.9	20.7	25.7	30.1	34.3	38.1	3.8
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Total	101.2	120.2	138.2	154.8	169.7	184.0	2.4
Transportation							
Liquids	30.7	38.8	45.5	51.8	58.1	65.2	3.1
Natural Gas	0.3	0.4	0.5	0.6	0.6	0.7	3.1
Coal	0.2	0.2	0.2	0.1	0.0	0.0	-100.0
Electricity	0.4	0.5	0.5	0.6	0.6	0.7	1.9
Total	31.7	39.9	46.7	53.1	59.4	66.6	3.0
All End-Use Sectors							
Liquids	64.3	76.3	86.1	96.2	105.6	116.0	2.4
Natural Gas	35.5	41.9	48.9	54.4	58.7	63.1	2.3
Coal	35.5	40.5	45.8	50.1	54.5	58.5	2.0
Electricity	23.6	32.7	41.0	48.4	55.4	61.9	3.9
Renewables	0.2	0.2	0.2	0.2	0.2	0.3	0.4
Delivered Energy	159.1	191.6	222.0	249.3	274.5	299.9	2.6
Electricity-Related Losses ^a	62.2	71.2	80.5	90.1	99.8	109.0	2.3
Total	221.3	262.8	302.5	339.4	374.2	408.8	2.5
Electric Power^b							
Liquids	6.5	6.3	6.2	6.2	6.2	6.1	-0.2
Natural Gas	18.4	21.1	24.3	28.4	30.9	33.3	2.4
Coal	39.7	51.0	62.1	70.4	79.3	88.8	3.3
Nuclear	4.2	5.1	7.1	9.7	11.8	12.6	4.5
Renewables	17.0	20.4	21.9	23.8	27.0	30.1	2.3
Total	85.8	103.9	121.6	138.4	155.1	170.9	2.8
Total Energy Consumption							
Liquids	70.8	82.6	92.3	102.4	111.9	122.1	2.2
Natural Gas	53.9	63.0	73.1	82.8	89.6	96.4	2.4
Coal	75.2	91.5	107.9	120.5	133.8	147.3	2.7
Nuclear	4.2	5.1	7.1	9.7	11.8	12.6	4.5
Renewables	17.2	20.7	22.1	24.0	27.2	30.3	2.3
Total	221.3	262.8	302.5	339.4	374.2	408.8	2.5

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F11. Delivered Energy Consumption in Russia by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.3	0.3	0.3	0.4	0.4	0.4	0.7
Natural Gas	2.2	2.4	2.6	2.9	3.0	3.3	1.6
Coal	0.1	0.1	0.1	0.1	0.1	0.1	-1.2
Electricity	0.4	0.5	0.6	0.7	0.8	0.9	3.2
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total	3.2	3.5	3.8	4.1	4.4	4.7	1.6
Commercial							
Liquids	0.0	0.0	0.0	0.0	0.0	0.0	-0.5
Natural Gas	0.2	0.3	0.3	0.3	0.4	0.4	2.6
Coal	0.1	0.1	0.1	0.1	0.1	0.1	-0.6
Electricity	0.4	0.5	0.6	0.7	0.8	0.9	3.2
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.8	1.0	1.1	1.3	1.4	1.5	2.3
Industrial							
Liquids	2.4	2.6	2.7	2.8	2.8	2.8	0.6
Natural Gas	8.4	8.8	9.4	9.9	10.2	10.6	0.9
Coal	1.7	1.7	1.8	1.8	1.8	1.9	0.4
Electricity	1.8	2.2	2.6	2.9	3.1	3.3	2.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total	14.3	15.3	16.6	17.4	18.0	18.6	1.1
Transportation							
Liquids	2.5	2.9	3.2	3.4	3.6	3.8	1.6
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.2	0.2	0.2	0.2	0.2	0.2	0.5
Total	2.7	3.1	3.4	3.6	3.8	4.0	1.6
All End-Use Sectors							
Liquids	5.3	5.8	6.3	6.6	6.8	7.0	1.1
Natural Gas	10.8	11.5	12.4	13.1	13.6	14.3	1.1
Coal	2.0	2.0	2.1	2.1	2.1	2.1	0.3
Electricity	2.8	3.4	4.0	4.5	4.9	5.3	2.5
Renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Delivered Energy	21.0	22.9	24.9	26.4	27.6	28.8	1.3
Electricity-Related Losses ^a	9.3	9.8	10.0	10.3	10.4	10.8	0.6
Total	30.3	32.7	34.9	36.7	38.0	39.6	1.1
Electric Power^b							
Liquids	0.4	0.3	0.3	0.2	0.2	0.2	-3.0
Natural Gas	5.8	6.2	6.5	6.6	6.6	6.8	0.7
Coal	2.8	2.8	3.0	3.2	3.2	3.6	1.0
Nuclear	1.5	1.7	2.1	2.6	3.2	3.4	3.2
Renewables	1.6	2.2	2.2	2.2	2.2	2.2	1.2
Total	12.2	13.2	14.0	14.8	15.3	16.1	1.1
Total Energy Consumption							
Liquids	5.7	6.2	6.6	6.8	7.0	7.2	0.9
Natural Gas	16.6	17.7	18.9	19.6	20.2	21.1	1.0
Coal	4.8	4.8	5.0	5.3	5.2	5.7	0.7
Nuclear	1.5	1.7	2.1	2.6	3.2	3.4	3.2
Renewables	1.8	2.3	2.3	2.3	2.3	2.3	1.1
Total	30.3	32.7	34.9	36.7	38.0	39.6	1.1

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F12. Delivered Energy Consumption in Other Non-OECD Europe and Eurasia by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.2	0.2	0.2	0.2	0.2	0.2	0.8
Natural Gas	2.1	2.3	2.4	2.5	2.6	2.7	1.1
Coal	0.1	0.1	0.1	0.1	0.1	0.1	-1.1
Electricity	0.5	0.6	0.7	0.8	0.8	0.9	2.6
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	2.8	3.1	3.4	3.6	3.8	3.9	1.3
Commercial							
Liquids	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Natural Gas	0.3	0.3	0.3	0.3	0.4	0.4	1.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Electricity	0.2	0.3	0.4	0.4	0.5	0.5	3.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.6	0.7	0.8	0.8	0.9	1.0	2.3
Industrial							
Liquids	1.7	1.9	1.8	1.9	2.0	2.1	0.9
Natural Gas	4.8	5.4	6.0	6.5	6.7	7.0	1.5
Coal	1.8	2.0	2.2	2.3	2.3	2.2	0.7
Electricity	1.2	1.4	1.6	1.8	2.0	2.2	2.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	9.5	10.7	11.7	12.5	13.0	13.4	1.4
Transportation							
Liquids	2.0	2.6	3.1	3.5	3.9	4.4	3.2
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-100.0
Electricity	0.1	0.1	0.1	0.1	0.1	0.1	0.6
Total	2.1	2.7	3.2	3.6	4.0	4.5	3.1
All End-Use Sectors							
Liquids	3.9	4.8	5.2	5.7	6.3	6.8	2.2
Natural Gas	7.1	8.0	8.7	9.4	9.7	10.1	1.4
Coal	1.9	2.1	2.3	2.4	2.4	2.3	0.6
Electricity	1.9	2.3	2.8	3.1	3.4	3.7	2.6
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Delivered Energy	14.9	17.2	19.0	20.6	21.8	22.9	1.7
Electricity-Related Losses ^a	5.5	5.2	5.5	6.0	6.2	6.6	0.7
Total	20.4	22.4	24.5	26.5	28.0	29.4	1.5
Electric Power^b							
Liquids	0.4	0.3	0.3	0.3	0.3	0.3	-1.4
Natural Gas	2.3	2.4	2.4	2.8	2.9	3.2	1.3
Coal	2.1	2.0	2.7	2.7	2.9	3.2	1.7
Nuclear	1.3	1.4	1.4	1.8	1.9	1.9	1.5
Renewables	1.3	1.4	1.5	1.5	1.7	1.7	1.1
Total	7.4	7.5	8.3	9.0	9.6	10.3	1.3
Total Energy Consumption							
Liquids	4.3	5.1	5.5	6.1	6.6	7.1	2.0
Natural Gas	9.5	10.4	11.1	12.1	12.6	13.3	1.4
Coal	4.0	4.1	5.0	5.0	5.3	5.5	1.2
Nuclear	1.3	1.4	1.4	1.8	1.9	1.9	1.5
Renewables	1.3	1.4	1.5	1.5	1.7	1.7	1.1
Total	20.4	22.4	24.5	26.5	28.0	29.4	1.5

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F13. Delivered Energy Consumption in China by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.8	0.7	0.7	0.7	0.7	0.7	-0.2
Natural Gas	0.4	0.8	1.0	1.3	1.6	1.9	6.2
Coal	2.1	2.3	2.5	2.5	2.4	2.2	0.2
Electricity	0.9	1.5	2.1	2.8	3.5	4.1	6.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	4.2	5.4	6.4	7.3	8.1	8.9	3.0
Commercial							
Liquids	1.0	1.0	1.0	1.0	0.9	0.9	-0.1
Natural Gas	0.1	0.2	0.3	0.4	0.5	0.6	5.7
Coal	0.2	0.2	0.3	0.3	0.3	0.3	0.4
Electricity	0.4	0.7	1.0	1.4	1.7	2.0	6.9
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	1.7	2.2	2.6	3.0	3.4	3.8	3.2
Industrial							
Liquids	6.9	8.3	8.6	9.8	11.0	12.7	2.5
Natural Gas	1.0	1.6	2.1	2.5	2.8	3.0	4.7
Coal	22.1	25.4	29.3	32.8	36.7	40.3	2.4
Electricity	6.1	10.4	13.5	16.1	18.8	21.2	5.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Total	36.1	45.7	53.5	61.2	69.3	77.3	3.1
Transportation							
Liquids	4.8	7.6	9.8	12.2	14.8	17.5	5.3
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	9.2
Coal	0.2	0.2	0.2	0.1	0.0	0.0	-100.0
Electricity	0.1	0.1	0.1	0.1	0.2	0.2	4.7
Total	5.0	7.9	10.1	12.5	15.0	17.7	5.2
All End-Use Sectors							
Liquids	13.3	17.6	20.1	23.7	27.5	31.8	3.5
Natural Gas	1.5	2.6	3.5	4.2	4.9	5.5	5.3
Coal	24.7	28.2	32.3	35.7	39.3	42.8	2.2
Electricity	7.5	12.7	16.8	20.4	24.2	27.6	5.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Delivered Energy	47.0	61.1	72.6	84.0	95.8	107.7	3.4
Electricity-Related Losses ^a	20.1	26.2	31.4	36.6	42.2	47.5	3.5
Total	67.1	87.3	104.0	120.6	138.0	155.2	3.4
Electric Power^b							
Liquids	0.5	0.4	0.4	0.4	0.4	0.4	-1.1
Natural Gas	0.4	0.6	1.0	1.6	1.7	1.9	6.5
Coal	22.2	32.1	39.9	46.8	53.9	60.6	4.1
Nuclear	0.5	0.7	1.7	2.7	3.5	4.1	8.8
Renewables	4.0	5.1	5.2	5.5	6.8	8.0	2.9
Total	27.6	38.9	48.2	57.0	66.4	75.0	4.1
Total Energy Consumption							
Liquids	13.8	18.0	20.5	24.1	27.9	32.2	3.4
Natural Gas	1.9	3.2	4.5	5.8	6.6	7.4	5.5
Coal	46.9	60.3	72.1	82.5	93.2	103.4	3.2
Nuclear	0.5	0.7	1.7	2.7	3.5	4.1	8.8
Renewables	4.0	5.1	5.3	5.5	6.8	8.1	2.9
Total	67.1	87.3	104.0	120.6	138.0	155.2	3.4

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F14. Delivered Energy Consumption in India by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.8	0.8	0.9	0.9	0.9	0.9	0.4
Natural Gas	0.0	0.0	0.1	0.1	0.1	0.1	3.9
Coal	0.1	0.1	0.2	0.2	0.2	0.2	2.4
Electricity	0.5	0.7	1.0	1.3	1.6	1.8	5.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	1.4	1.8	2.1	2.4	2.8	3.0	3.0
Commercial							
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	0.2	0.3	0.3	0.3	0.3	3.0
Electricity	0.2	0.3	0.4	0.5	0.6	0.7	5.8
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.3	0.4	0.6	0.8	0.9	1.0	5.0
Industrial							
Liquids	2.5	2.7	3.1	3.6	4.2	4.8	2.6
Natural Gas	0.8	1.1	1.4	1.5	1.7	1.8	3.6
Coal	2.4	2.6	2.8	3.1	3.5	3.9	2.1
Electricity	1.4	1.9	2.3	2.7	3.0	3.3	3.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Total	7.1	8.2	9.7	11.0	12.4	13.9	2.7
Transportation							
Liquids	1.4	1.9	2.6	3.1	3.6	4.0	4.3
Natural Gas	0.0	0.0	0.1	0.1	0.1	0.1	4.0
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	2.9
Total	1.5	2.0	2.7	3.3	3.7	4.2	4.2
All End-Use Sectors							
Liquids	4.8	5.4	6.6	7.7	8.6	9.7	2.9
Natural Gas	0.8	1.2	1.5	1.6	1.8	2.0	3.7
Coal	2.6	2.9	3.3	3.6	4.0	4.4	2.1
Electricity	2.1	2.9	3.8	4.5	5.2	5.9	4.2
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Delivered Energy	10.3	12.4	15.1	17.5	19.7	22.0	3.1
Electricity-Related Losses ^a	5.9	7.0	8.1	9.1	10.2	11.2	2.6
Total	16.2	19.4	23.2	26.6	29.9	33.2	2.9
Electric Power^b							
Liquids	0.2	0.2	0.2	0.2	0.2	0.2	-0.1
Natural Gas	0.5	0.7	1.0	1.4	1.8	2.0	5.7
Coal	6.0	7.0	8.3	9.3	10.1	11.1	2.5
Nuclear	0.2	0.5	0.8	1.3	1.6	1.8	9.4
Renewables	1.1	1.5	1.5	1.6	1.8	1.9	2.4
Total	8.0	9.9	11.8	13.7	15.5	17.0	3.1
Total Energy Consumption							
Liquids	5.0	5.6	6.8	7.9	8.9	9.9	2.8
Natural Gas	1.3	1.9	2.5	3.0	3.6	4.0	4.6
Coal	8.6	9.9	11.6	12.9	14.1	15.5	2.4
Nuclear	0.2	0.5	0.8	1.3	1.6	1.8	9.4
Renewables	1.1	1.5	1.5	1.6	1.8	1.9	2.4
Total	16.2	19.4	23.2	26.6	29.9	33.2	2.9

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F15. Delivered Energy Consumption in Other Non-OECD Asia by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.7	0.7	0.8	0.8	0.8	0.9	1.1
Natural Gas	0.3	0.5	0.7	0.7	0.8	0.8	3.9
Coal	0.0	0.1	0.1	0.1	0.1	0.1	0.6
Electricity	0.8	0.9	1.4	1.6	1.8	2.0	3.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	1.8	2.2	2.9	3.2	3.4	3.8	2.9
Commercial							
Liquids	0.2	0.2	0.2	0.3	0.3	0.3	1.6
Natural Gas	0.1	0.1	0.1	0.1	0.1	0.1	2.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Electricity	0.7	0.9	1.1	1.4	1.6	1.9	4.2
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.9	1.2	1.5	1.8	2.0	2.3	3.7
Industrial							
Liquids	4.4	4.5	5.6	6.0	6.3	6.5	1.6
Natural Gas	3.2	4.3	5.4	6.7	7.9	9.1	4.2
Coal	2.3	2.8	3.1	3.3	3.6	3.8	2.0
Electricity	1.3	1.6	2.0	2.4	2.7	3.1	3.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total	11.3	13.2	16.1	18.5	20.5	22.5	2.8
Transportation							
Liquids	6.4	7.5	9.1	10.4	11.7	13.1	2.9
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	-100.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Total	6.5	7.5	9.1	10.4	11.7	13.1	2.9
All End-Use Sectors							
Liquids	11.8	12.9	15.7	17.4	19.1	20.8	2.3
Natural Gas	3.6	4.8	6.2	7.6	8.8	10.1	4.2
Coal	2.4	2.9	3.2	3.4	3.7	3.9	2.0
Electricity	2.8	3.4	4.5	5.3	6.1	6.9	3.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Delivered Energy	20.6	24.1	29.6	33.8	37.7	41.7	2.9
Electricity-Related Losses ^a	6.0	6.4	7.4	8.4	9.6	10.7	2.3
Total	26.6	30.5	37.0	42.2	47.3	52.4	2.7
Electric Power^b							
Liquids	1.0	0.9	0.9	0.8	0.8	0.7	-1.5
Natural Gas	2.9	3.4	4.5	5.9	6.7	7.4	3.8
Coal	2.9	3.2	3.8	3.8	4.5	5.4	2.5
Nuclear	0.4	0.5	0.6	0.7	0.9	0.8	3.0
Renewables	1.5	1.8	2.0	2.5	2.9	3.3	3.1
Total	8.8	9.8	11.8	13.7	15.7	17.6	2.8
Total Energy Consumption							
Liquids	12.8	13.8	16.6	18.3	19.8	21.5	2.1
Natural Gas	6.5	8.2	10.7	13.5	15.5	17.4	4.0
Coal	5.3	6.1	7.0	7.2	8.2	9.3	2.3
Nuclear	0.4	0.5	0.6	0.7	0.9	0.8	3.0
Renewables	1.6	1.8	2.0	2.5	2.9	3.3	3.1
Total	26.6	30.5	37.0	42.2	47.3	52.4	2.7

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F16. Delivered Energy Consumption in the Middle East by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.9	0.9	1.0	1.0	1.0	1.1	0.8
Natural Gas	1.3	1.4	1.6	1.7	1.7	1.9	1.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-1.9
Electricity	0.8	1.1	1.2	1.3	1.4	1.5	2.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.9	3.4	3.7	4.0	4.2	4.5	1.7
Commercial							
Liquids	0.2	0.2	0.2	0.2	0.3	0.3	2.3
Natural Gas	0.2	0.2	0.2	0.3	0.3	0.3	2.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.4	0.5	0.6	0.7	0.9	1.0	3.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.8	0.9	1.1	1.2	1.5	1.7	3.2
Industrial							
Liquids	3.7	4.5	5.1	5.8	6.3	6.7	2.3
Natural Gas	5.0	5.9	7.1	8.3	8.7	9.1	2.4
Coal	0.1	0.1	0.1	0.1	0.1	0.1	2.4
Electricity	0.7	0.7	0.8	0.9	0.9	1.0	1.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total	9.5	11.2	13.1	15.1	16.1	16.9	2.3
Transportation							
Liquids	4.9	5.8	6.2	6.7	7.3	7.9	1.9
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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	—
Total	4.9	5.8	6.2	6.8	7.3	8.0	1.9
All End-Use Sectors							
Liquids	9.7	11.4	12.5	13.8	14.9	16.0	2.0
Natural Gas	6.5	7.6	9.0	10.2	10.8	11.4	2.3
Coal	0.1	0.1	0.1	0.1	0.1	0.1	2.3
Electricity	1.9	2.3	2.7	2.9	3.2	3.6	2.6
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Delivered Energy	18.1	21.4	24.2	27.1	29.0	31.0	2.2
Electricity-Related Losses ^a	4.7	5.0	5.3	5.5	5.7	5.8	0.8
Total	22.9	26.4	29.5	32.6	34.7	36.8	1.9
Electric Power^b							
Liquids	2.3	2.6	2.8	3.1	3.3	3.5	1.6
Natural Gas	3.8	4.2	4.4	4.6	4.8	5.0	1.2
Coal	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Nuclear	0.0	0.0	0.1	0.1	0.1	0.1	—
Renewables	0.2	0.2	0.3	0.3	0.3	0.4	2.5
Total	6.6	7.4	8.0	8.4	8.9	9.4	1.4
Total Energy Consumption							
Liquids	12.0	14.0	15.3	16.9	18.2	19.5	2.0
Natural Gas	10.2	11.7	13.4	14.9	15.7	16.4	1.9
Coal	0.4	0.5	0.5	0.5	0.5	0.5	0.7
Nuclear	0.0	0.0	0.1	0.1	0.1	0.1	—
Renewables	0.2	0.3	0.3	0.3	0.3	0.4	2.4
Total	22.9	26.4	29.5	32.6	34.7	36.8	1.9

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F17. Delivered Energy Consumption in Africa by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.7	0.8	0.9	0.9	1.0	1.0	1.3
Natural Gas	0.2	0.3	0.4	0.4	0.5	0.5	3.8
Coal	0.1	0.2	0.2	0.2	0.3	0.3	2.6
Electricity	0.5	0.7	0.8	1.0	1.0	1.1	3.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	1.5	2.0	2.3	2.6	2.7	2.8	2.5
Commercial							
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	3.9
Coal	0.1	0.1	0.1	0.1	0.1	0.1	2.3
Electricity	0.2	0.3	0.4	0.5	0.5	0.5	4.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.3	0.4	0.6	0.7	0.7	0.8	3.5
Industrial							
Liquids	1.5	1.8	2.0	2.2	2.1	2.1	1.3
Natural Gas	1.4	1.7	2.3	2.6	2.9	3.3	3.5
Coal	1.2	1.3	1.5	1.5	1.6	1.6	1.0
Electricity	1.0	1.1	1.3	1.5	1.7	1.9	2.7
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	5.1	5.9	7.0	7.8	8.3	8.8	2.2
Transportation							
Liquids	3.1	3.7	4.1	4.5	4.9	5.3	2.2
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Coal	0.0	0.0	0.0	0.0	0.0	0.0	-100.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Total	3.1	3.7	4.1	4.5	4.9	5.3	2.2
All End-Use Sectors							
Liquids	5.3	6.4	7.0	7.6	8.0	8.4	1.8
Natural Gas	1.6	2.1	2.7	3.1	3.4	3.8	3.5
Coal	1.4	1.6	1.8	1.9	1.9	2.0	1.2
Electricity	1.7	2.0	2.5	3.0	3.3	3.6	3.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Delivered Energy	10.1	12.1	14.0	15.6	16.7	17.7	2.3
Electricity-Related Losses ^a	4.4	4.5	4.9	5.4	5.8	6.1	1.4
Total	14.4	16.5	18.9	20.9	22.5	23.9	2.0
Electric Power^b							
Liquids	0.7	0.6	0.5	0.5	0.5	0.4	-2.0
Natural Gas	1.6	1.8	2.1	2.9	3.3	3.7	3.5
Coal	2.8	2.9	3.3	3.5	3.6	3.6	1.1
Nuclear	0.1	0.1	0.2	0.2	0.2	0.2	2.2
Renewables	0.9	1.1	1.2	1.3	1.5	1.8	2.7
Total	6.1	6.5	7.4	8.4	9.1	9.7	1.9
Total Energy Consumption							
Liquids	6.0	7.0	7.5	8.1	8.5	8.8	1.6
Natural Gas	3.2	3.8	4.9	6.0	6.7	7.5	3.5
Coal	4.2	4.4	5.1	5.3	5.6	5.6	1.1
Nuclear	0.1	0.1	0.2	0.2	0.2	0.2	2.2
Renewables	0.9	1.1	1.2	1.3	1.5	1.8	2.7
Total	14.4	16.5	18.9	20.9	22.5	23.9	2.0

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F18. Delivered Energy Consumption in Brazil by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.3	0.3	0.3	0.3	0.3	0.3	1.0
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	0.4	0.5	0.6	0.6	0.7	3.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.6	0.7	0.8	0.9	1.0	1.0	2.4
Commercial							
Liquids	0.0	0.0	0.1	0.1	0.1	0.1	1.2
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	5.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.3	0.4	0.6	0.7	0.9	1.0	4.8
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.4	0.5	0.7	0.8	1.0	1.1	4.5
Industrial							
Liquids	1.6	1.8	1.9	2.0	2.2	2.4	1.7
Natural Gas	0.4	0.4	0.5	0.5	0.6	0.7	2.3
Coal	0.4	0.7	0.8	0.9	0.9	1.0	3.9
Electricity	0.6	0.7	0.8	0.9	1.0	1.1	2.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total	2.9	3.6	3.9	4.3	4.7	5.1	2.2
Transportation							
Liquids	2.5	2.9	3.1	3.3	3.6	3.9	1.8
Natural Gas	0.1	0.1	0.1	0.1	0.1	0.1	3.0
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	1.9
Total	2.5	3.0	3.2	3.5	3.7	4.0	1.8
All End-Use Sectors							
Liquids	4.4	5.0	5.3	5.7	6.1	6.6	1.7
Natural Gas	0.5	0.5	0.6	0.7	0.8	0.9	2.6
Coal	0.4	0.7	0.8	0.9	0.9	1.0	3.9
Electricity	1.2	1.6	1.9	2.2	2.5	2.8	3.2
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Delivered Energy	6.4	7.8	8.7	9.5	10.3	11.3	2.3
Electricity-Related Losses ^a	2.8	3.3	4.0	4.6	5.2	5.7	3.0
Total	9.3	11.1	12.6	14.1	15.5	17.0	2.4
Electric Power^b							
Liquids	0.1	0.1	0.1	0.1	0.1	0.1	-1.1
Natural Gas	0.2	0.5	0.7	0.7	0.9	1.0	6.4
Coal	0.1	0.1	0.2	0.2	0.2	0.2	4.5
Nuclear	0.1	0.2	0.2	0.2	0.2	0.2	3.3
Renewables	3.5	4.0	4.8	5.5	6.3	7.0	2.8
Total	4.0	4.9	5.9	6.8	7.6	8.5	3.1
Total Energy Consumption							
Liquids	4.4	5.1	5.4	5.8	6.2	6.7	1.7
Natural Gas	0.7	1.0	1.3	1.4	1.6	1.9	4.2
Coal	0.4	0.8	1.0	1.1	1.1	1.2	4.1
Nuclear	0.1	0.2	0.2	0.2	0.2	0.2	3.3
Renewables	3.5	4.0	4.8	5.5	6.3	7.0	2.8
Total	9.3	11.1	12.6	14.1	15.5	17.0	2.4

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).

Table F19. Delivered Energy Consumption in Other Central and South America by End-Use Sector and Fuel, 2005-2030
(Quadrillion Btu)

Sector/Fuel	2005	Projections					Average Annual Percent Change, 2005-2030
		2010	2015	2020	2025	2030	
Residential							
Liquids	0.4	0.4	0.5	0.5	0.5	0.5	1.0
Natural Gas	0.4	0.5	0.7	0.7	0.8	0.9	3.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Electricity	0.5	0.6	0.7	0.8	0.9	0.9	2.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.3	1.6	1.9	2.1	2.2	2.3	2.3
Commercial							
Liquids	0.1	0.1	0.1	0.1	0.1	0.1	1.7
Natural Gas	0.1	0.1	0.2	0.2	0.2	0.2	2.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.3	0.5	0.6	0.6	0.7	0.7	2.9
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.5	0.7	0.8	0.9	1.0	1.0	2.6
Industrial							
Liquids	2.2	2.6	2.6	2.7	2.8	2.8	1.0
Natural Gas	2.4	2.8	3.1	3.3	3.5	3.6	1.7
Coal	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Electricity	0.7	0.8	0.9	0.9	0.9	1.0	1.2
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total	5.4	6.3	6.7	7.0	7.3	7.5	1.3
Transportation							
Liquids	3.2	3.9	4.3	4.6	5.0	5.5	2.2
Natural Gas	0.2	0.2	0.3	0.3	0.3	0.4	2.9
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	3.2
Total	3.4	4.2	4.5	4.9	5.3	5.8	2.2
All End-Use Sectors							
Liquids	5.9	7.1	7.4	7.9	8.4	8.9	1.7
Natural Gas	3.1	3.6	4.2	4.6	4.9	5.1	2.0
Coal	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Electricity	1.6	2.0	2.2	2.4	2.5	2.6	2.0
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Delivered Energy	10.7	12.8	13.9	14.9	15.8	16.7	1.8
Electricity-Related Losses ^a	3.5	3.8	4.0	4.2	4.4	4.6	1.0
Total	14.1	16.6	17.9	19.1	20.3	21.3	1.7
Electric Power^b							
Liquids	0.9	0.8	0.7	0.6	0.5	0.4	-3.3
Natural Gas	0.9	1.3	1.6	1.9	2.1	2.3	3.7
Coal	0.4	0.5	0.6	0.6	0.6	0.6	1.8
Nuclear	0.1	0.1	0.1	0.1	0.1	0.1	2.4
Renewables	2.9	3.1	3.1	3.4	3.6	3.8	1.1
Total	5.2	5.8	6.1	6.6	6.9	7.2	1.4
Total Energy Consumption							
Liquids	6.8	7.9	8.1	8.5	8.9	9.3	1.3
Natural Gas	4.0	5.0	5.8	6.4	7.0	7.4	2.4
Coal	0.4	0.5	0.7	0.7	0.7	0.7	1.8
Nuclear	0.1	0.1	0.1	0.1	0.1	0.1	2.4
Renewables	2.9	3.1	3.2	3.4	3.6	3.8	1.1
Total	14.1	16.6	17.9	19.1	20.3	21.3	1.7

^aElectricity losses incurred in the transmission and distribution of electric power. May include some heat production.

^bFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2005:** Derived from Energy Information Administration (EIA), *International Energy Annual 2005* (June-October 2007), web site www.eia.doe.gov/iea. **Projections:** EIA, World Energy Projection System (2008).