

Table F3. Delivered energy consumption in the United States by end-use sector and fuel, High Economic Growth case

quadrillion British thermal units

Sector and fuel	2020	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2020–2050
Residential								
Liquid fuels	0.9	0.9	0.8	0.8	0.7	0.7	0.7	-0.8
Natural gas	5.0	5.0	5.0	4.9	4.9	5.0	5.0	0.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	5.1	5.2	5.3	5.5	5.8	6.0	6.3	0.7
Renewables	0.5	0.5	0.4	0.4	0.4	0.4	0.4	-0.9
Total	11.4	11.5	11.6	11.7	11.9	12.1	12.3	0.3
Commercial								
Liquid fuels	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.3
Natural gas	3.3	3.6	3.6	3.7	3.7	3.8	3.8	0.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.4
Electricity	4.3	4.7	4.8	4.9	5.1	5.4	5.8	0.9
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total	8.6	9.4	9.5	9.6	9.9	10.2	10.6	0.7
Industrial								
Liquid fuels	8.3	9.9	10.7	11.6	12.3	12.9	13.7	1.7
Natural gas	10.7	12.2	13.0	13.8	15.0	16.3	17.7	1.7
Coal	0.9	1.0	0.9	1.0	1.1	1.2	1.3	1.1
Electricity	3.1	3.5	3.8	4.1	4.4	4.7	5.0	1.6
Renewables	2.4	2.6	2.7	2.9	3.1	3.4	3.8	1.5
Total	25.5	29.3	31.2	33.3	35.9	38.5	41.5	1.6
Transportation								
Liquid fuels	24.0	27.1	27.0	27.0	27.5	28.3	29.4	0.7
Natural gas	0.8	0.8	0.8	0.9	1.0	1.1	1.3	1.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.0	0.1	0.1	0.2	0.2	0.3	0.5	8.9
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	24.8	28.0	27.9	28.0	28.7	29.8	31.1	0.8
All end-use sectors								
Liquid fuels	34.0	38.8	39.4	40.2	41.4	42.8	44.6	0.9
Natural gas	19.8	21.7	22.4	23.3	24.7	26.1	27.7	1.1
Coal	1.0	1.0	0.9	1.0	1.1	1.2	1.3	1.1
Electricity	12.5	13.5	14.0	14.7	15.5	16.4	17.5	1.1
Renewables	3.0	3.2	3.3	3.4	3.6	3.9	4.3	1.2
Delivered energy	70.2	78.1	80.1	82.6	86.3	90.5	95.5	1.0
Electricity-related losses	23.3	23.5	23.3	23.8	24.6	25.5	26.6	0.4
Discrepancy	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	--
Total	92.9	101.1	102.9	105.9	110.4	115.4	121.5	0.9
Electric power								
Liquid fuels	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-3.0
Natural gas	12.0	11.1	10.9	11.2	12.1	12.9	13.8	0.4
Coal	8.1	7.2	7.0	6.7	6.4	6.2	6.1	-0.9
Nuclear	8.2	7.8	6.8	6.6	6.6	6.6	6.6	-0.7
Renewables	7.3	10.9	12.5	13.9	14.9	16.1	17.5	3.0
Total	35.8	37.0	37.4	38.5	40.1	41.9	44.1	0.7
Total energy consumption								
Liquid fuels	33.5	38.4	39.0	39.8	40.9	42.3	44.1	0.9
Natural gas	31.8	32.7	33.3	34.5	36.8	39.1	41.5	0.9
Coal	9.1	8.1	8.0	7.7	7.5	7.4	7.4	-0.7

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Nuclear	8.2	7.8	6.8	6.6	6.6	6.6	6.6	-0.7
Renewables	10.3	14.1	15.8	17.4	18.5	20.0	21.8	2.5
Total	92.9	101.1	102.9	105.9	110.4	115.4	121.5	0.9

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run hm_210719.163753; and EIA, *Annual Energy Outlook 2021*, (February 2021), www.eia.gov/aeo

Notes:

* Totals may not equal sum of components due to independent rounding.

* End-use sector electricity consumption does not include electrical system energy losses incurred in the generation, transmission, and distribution of electricity.

* End-use sector delivered energy consumption does not include electrical system energy losses incurred in the generation, transmission, and distribution of electricity.

* Electricity-related losses include energy losses during generation due to thermal efficiency, energy losses during transmission and distribution, and parasitic load.