

quadrillion British thermal units

Sector and fuel	2020	2025	2030	2035	2040	2045
Residential						
Liquid fuels	2.0	1.7	1.9	2.0	2.1	2.2
Natural gas	2.4	2.8	3.2	3.5	3.9	4.0
Coal	3.5	3.2	3.1	3.0	2.9	2.8
Electricity	4.0	5.2	6.4	7.6	9.1	10.9
Renewables	0.8	0.9	0.9	0.9	1.0	1.0
Total	12.7	13.9	15.5	17.0	18.9	20.8
Commercial						
Liquid fuels	0.8	0.6	0.7	0.7	0.8	0.8
Natural gas	0.7	0.9	1.0	1.0	1.1	1.2
Coal	0.9	0.9	0.8	0.8	0.8	0.8
Electricity	1.7	2.3	2.8	3.3	3.9	4.6
Renewables	0.1	0.1	0.1	0.1	0.1	0.1
Total	4.3	4.7	5.4	5.9	6.7	7.4
Industrial						
Liquid fuels	12.0	14.3	16.1	17.7	19.0	20.2
Natural gas	5.6	6.6	7.3	7.8	8.3	8.9
Coal	41.0	42.3	42.6	43.0	43.6	44.5
Electricity	15.9	18.5	19.8	21.3	22.6	23.9
Renewables	2.6	3.3	3.5	3.6	3.7	3.7
Total	77.1	85.1	89.3	93.5	97.3	101.2
Transportation						
Liquid fuels	14.2	16.7	17.7	17.5	16.5	15.2
Natural gas	0.7	1.1	1.6	2.3	3.0	3.9
Coal	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.7	0.9	1.2	1.7	2.3	2.8
Renewables	0.0	0.0	0.0	0.0	0.0	0.0
Total	15.5	18.7	20.6	21.4	21.7	21.9
All end-use sectors						
Liquid fuels	28.9	33.4	36.4	37.9	38.4	38.4
Natural gas	9.4	11.3	13.1	14.7	16.3	17.9
Coal	45.5	46.5	46.5	46.8	47.2	48.0
Electricity	22.3	26.9	30.2	33.8	37.9	42.3
Renewables	3.5	4.2	4.5	4.6	4.8	4.8
Delivered energy	109.6	122.3	130.7	137.8	144.5	151.4
Electricity-related losses	47.0	51.8	54.9	62.2	69.6	77.7
Discrepancy	-0.2	0.5	0.8	1.1	1.4	1.7
Total	156.4	174.6	186.5	201.2	215.6	230.8
Electric power						

Liquid fuels	0.0	0.1	0.0	0.0	0.0	0.0
Natural gas	2.5	4.9	9.1	8.0	9.1	10.5
Coal	48.8	48.3	42.0	42.8	42.0	42.0
Nuclear	3.3	4.4	5.7	7.1	8.3	9.5
Renewables	18.2	24.7	32.0	41.7	51.6	61.6
Total	72.9	82.3	88.8	99.6	111.1	123.6

Total energy consumption

Liquid fuels	28.6	33.6	36.6	38.1	38.5	38.6
Natural gas	11.5	15.8	21.8	22.3	25.1	28.1
Coal	90.7	91.3	85.2	86.2	85.9	86.6
Nuclear	3.5	4.6	5.9	7.4	8.7	9.9
Renewables	22.1	29.3	37.0	47.1	57.4	67.6
Total	156.4	174.6	186.5	201.2	215.6	230.8

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run hp_210719.163813; and EIA, (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.
- * End-use sector delivered energy consumption does not include electrical system energy losses incurred in the generation, transmission and distribution.
- * Electricity-related losses include energy losses during generation due to thermal efficiency, energy losses during transmission and distribution.

2050	Average annual percentage change, 2020–2050
2.3	0.4
4.2	2.0
2.7	-0.9
12.3	3.8
1.1	0.8
22.6	1.9
0.8	0.1
1.2	1.8
0.7	-0.7
5.1	3.7
0.1	0.8
8.0	2.1
21.1	1.9
9.5	1.8
45.2	0.3
25.1	1.5
3.7	1.2
104.5	1.0
14.0	0.0
4.7	6.7
0.0	0.0
3.4	5.5
0.0	0.0
22.1	1.2
38.2	0.9
19.6	2.5
48.6	0.2
45.9	2.4
4.9	1.1
157.2	1.2
84.5	2.0
1.9	--
243.6	1.5

0.0	-8.1
11.7	5.2
42.0	-0.5
10.5	3.9
69.8	4.6
134.0	2.0

38.4	1.0
31.0	3.4
87.2	-0.1
10.9	3.9
76.1	4.2
243.6	1.5

Annual Energy Outlook 2021 ,

n, and distribution of electricity.
mission, and distribution of electricity.
ind distribution, and parasitic load.