

quadrillion British thermal units

Sector and fuel	2020	2025	2030	2035	2040	2045
Residential						
Liquid fuels	1.5	1.0	1.0	1.0	0.9	0.9
Natural gas	5.4	5.4	5.5	5.5	5.5	5.5
Coal	0.6	0.6	0.5	0.5	0.5	0.5
Electricity	3.3	3.4	3.5	3.7	3.7	3.8
Renewables	0.1	0.1	0.1	0.1	0.1	0.1
Total	10.9	10.5	10.6	10.7	10.8	10.8
Commercial						
Liquid fuels	0.7	0.5	0.5	0.5	0.5	0.5
Natural gas	2.4	2.4	2.4	2.5	2.5	2.5
Coal	0.2	0.2	0.2	0.2	0.1	0.1
Electricity	3.3	3.7	3.9	4.2	4.3	4.5
Renewables	0.0	0.0	0.0	0.0	0.0	0.0
Total	6.6	6.7	7.0	7.3	7.4	7.7
Industrial						
Liquid fuels	7.8	8.3	8.7	9.2	9.9	10.6
Natural gas	6.7	7.4	7.6	8.0	8.5	9.1
Coal	2.8	3.1	3.2	3.4	3.6	3.8
Electricity	4.0	4.6	4.8	5.0	5.3	5.7
Renewables	2.4	2.6	2.7	2.8	2.8	2.9
Total	23.7	26.1	27.1	28.5	30.1	32.0
Transportation						
Liquid fuels	15.2	18.5	17.8	17.0	16.5	16.4
Natural gas	0.1	0.2	0.3	0.3	0.5	0.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.3	0.4	0.8	1.2	1.8	2.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0
Total	15.6	19.1	18.8	18.6	18.7	19.4
All end-use sectors						
Liquid fuels	25.2	28.3	27.9	27.7	27.7	28.3
Natural gas	14.6	15.4	15.8	16.3	16.9	17.7
Coal	3.6	3.9	3.9	4.1	4.2	4.4
Electricity	10.8	12.1	12.9	14.1	15.1	16.4
Renewables	2.5	2.8	2.9	2.9	3.0	3.1
Delivered energy	56.7	62.4	63.4	65.0	67.0	69.9
Electricity-related losses	19.5	20.3	21.5	23.4	25.0	26.7
Discrepancy	1.3	0.1	0.2	0.3	0.3	0.3
Total	77.6	82.8	85.2	88.7	92.3	96.9
Electric power						

Liquid fuels	0.2	0.6	0.3	0.1	0.0	0.0
Natural gas	5.0	5.5	5.7	5.4	5.5	5.8
Coal	4.5	3.9	3.3	3.1	2.4	2.5
Nuclear	7.5	7.8	7.2	7.0	6.5	4.9
Renewables	13.6	15.1	18.5	22.4	26.2	30.5
Total	30.9	32.9	34.9	38.0	40.6	43.6

Total energy consumption

Liquid fuels	26.0	28.2	27.5	27.1	27.1	27.6
Natural gas	19.6	20.9	21.4	21.7	22.4	23.4
Coal	8.1	7.9	7.3	7.3	6.7	7.0
Nuclear	7.9	8.1	7.5	7.3	6.7	5.1
Renewables	16.1	17.8	21.4	25.3	29.3	33.8
Total	77.6	82.8	85.2	88.7	92.3	96.9

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.

Price case

2050	Average annual percentage change, 2020–2050
0.9	-1.7
5.6	0.1
0.5	-0.9
3.9	0.6
0.2	0.8
10.9	0.0
0.5	-1.4
2.5	0.3
0.1	-1.1
4.7	1.2
0.0	0.8
7.9	0.6
11.3	1.2
9.7	1.2
4.0	1.3
6.1	1.4
3.0	0.8
34.1	1.2
16.6	0.3
0.9	6.2
0.0	0.0
3.0	8.6
0.0	0.0
20.5	0.9
29.3	0.5
18.7	0.8
4.6	0.9
17.7	1.6
3.2	0.8
73.4	0.9
28.8	1.3
0.4	-3.8
102.6	0.9

0.0	-13.2
5.9	0.5
2.5	-1.9
3.9	-2.2
34.7	3.2
46.9	1.4
28.6	0.3
24.5	0.8
7.3	-0.4
4.0	-2.2
38.2	2.9
102.6	0.9

Annual Energy Outlook 2021 ,

n, and distribution of electricity.
mission, and distribution of electricity.
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