

Table F13. Delivered energy consumption in China 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	2.0	2.0	2.1	2.2	2.4	2.4	2.6	0.9
Natural gas	2.4	2.7	3.1	3.4	3.7	3.8	4.1	1.8
Coal	3.5	3.2	3.1	3.0	2.8	2.7	2.7	-0.9
Electricity	4.0	5.2	6.4	7.6	9.1	10.9	12.3	3.8
Renewables	0.8	0.9	0.9	0.9	1.0	1.0	1.1	0.8
Total	12.7	14.0	15.6	17.1	19.0	20.9	22.7	1.9
Commercial								
Liquid fuels	0.8	0.7	0.8	0.8	0.9	0.9	0.9	0.5
Natural gas	0.7	0.8	0.9	1.0	1.1	1.1	1.2	1.7
Coal	0.9	0.9	0.8	0.8	0.8	0.8	0.7	-0.7
Electricity	1.7	2.3	2.8	3.2	3.9	4.6	5.0	3.6
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Total	4.3	4.8	5.4	6.0	6.7	7.5	8.0	2.1
Industrial								
Liquid fuels	12.0	14.7	16.6	18.3	19.6	20.8	21.8	2.0
Natural gas	5.6	6.7	7.4	7.9	8.4	9.0	9.6	1.8
Coal	41.0	42.5	42.9	43.4	43.8	44.7	45.6	0.4
Electricity	15.9	18.8	19.9	21.4	22.9	24.2	25.2	1.6
Renewables	2.6	3.3	3.5	3.6	3.7	3.7	3.7	1.2
Total	77.1	85.9	90.3	94.5	98.4	102.3	105.9	1.1
Transportation								
Liquid fuels	14.2	16.8	17.8	17.7	17.1	16.5	16.0	0.4
Natural gas	0.7	1.1	1.6	2.2	2.9	3.8	4.4	6.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.7	0.9	1.1	1.5	2.0	2.3	2.6	4.6
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	15.5	18.7	20.5	21.4	22.0	22.6	23.0	1.3
All end-use sectors								
Liquid fuels	28.9	34.1	37.2	39.0	40.0	40.7	41.2	1.2
Natural gas	9.4	11.3	13.1	14.5	16.2	17.7	19.3	2.4
Coal	45.5	46.5	46.9	47.1	47.5	48.2	49.0	0.2
Electricity	22.3	27.1	30.2	33.7	37.8	42.0	45.2	2.4
Renewables	3.5	4.3	4.5	4.7	4.8	4.8	4.9	1.1
Delivered energy	109.6	123.4	131.9	139.1	146.2	153.3	159.6	1.3
Electricity-related losses	47.0	52.4	55.2	62.4	69.8	77.4	83.4	1.9
Discrepancy	-0.2	0.5	0.8	1.1	1.4	1.7	1.9	--
Total	156.4	176.3	188.0	202.6	217.5	232.5	245.0	1.5
Electric power								
Liquid fuels	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-7.6
Natural gas	2.5	5.2	8.8	7.7	8.7	9.9	11.1	5.0
Coal	48.8	48.8	42.7	43.3	42.2	42.1	42.1	-0.5
Nuclear	3.3	4.4	5.7	7.1	8.3	9.5	10.5	3.9
Renewables	18.2	24.7	32.0	41.8	52.1	61.6	68.5	4.5
Total	72.9	83.2	89.1	99.8	111.3	123.0	132.2	2.0
Total energy consumption								
Liquid fuels	28.6	34.4	37.4	39.2	40.2	40.9	41.5	1.3
Natural gas	11.5	16.1	21.4	21.8	24.5	27.3	30.1	3.3
Coal	90.7	92.0	86.2	87.0	86.3	86.8	87.6	-0.1

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Sector and fuel	2020	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2020–2050
Nuclear	3.5	4.6	5.9	7.4	8.7	9.9	10.9	3.9
Renewables	22.1	29.3	37.0	47.2	57.9	67.7	74.8	4.1
Total	156.4	176.3	188.0	202.6	217.5	232.5	245.0	1.5

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.