

**Table F13. Delivered energy consumption in China by end-use sector and fuel, Reference case**

quadrillion British thermal units

Sector and fuel	2020	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2020–2050
<b>Residential</b>								
Liquid fuels	2.0	1.9	2.0	2.1	2.2	2.3	2.3	0.6
Natural gas	2.4	2.7	3.2	3.3	3.5	3.5	3.7	1.5
Coal	3.5	3.3	3.2	3.1	3.0	3.0	2.9	-0.6
Electricity	4.0	5.0	5.9	6.8	8.0	9.4	10.3	3.2
Renewables	0.8	0.9	0.9	0.9	1.0	1.0	1.1	0.8
<b>Total</b>	<b>12.7</b>	<b>13.8</b>	<b>15.2</b>	<b>16.3</b>	<b>17.8</b>	<b>19.2</b>	<b>20.4</b>	<b>1.6</b>
<b>Commercial</b>								
Liquid fuels	0.8	0.7	0.8	0.8	0.8	0.9	0.9	0.3
Natural gas	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.5
Coal	0.9	0.9	0.8	0.8	0.8	0.8	0.8	-0.6
Electricity	1.7	2.2	2.6	3.0	3.5	4.1	4.4	3.2
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8
<b>Total</b>	<b>4.3</b>	<b>4.7</b>	<b>5.2</b>	<b>5.7</b>	<b>6.3</b>	<b>6.9</b>	<b>7.3</b>	<b>1.8</b>
<b>Industrial</b>								
Liquid fuels	12.0	14.0	15.1	15.9	16.3	16.5	16.5	1.1
Natural gas	5.6	6.4	6.7	6.9	7.0	7.2	7.3	0.9
Coal	41.0	40.4	39.1	37.7	36.5	35.6	34.9	-0.5
Electricity	15.9	17.9	18.2	18.8	19.2	19.5	19.4	0.7
Renewables	2.6	3.2	3.2	3.2	3.2	3.1	3.0	0.4
<b>Total</b>	<b>77.1</b>	<b>81.8</b>	<b>82.3</b>	<b>82.4</b>	<b>82.1</b>	<b>81.8</b>	<b>81.1</b>	<b>0.2</b>
<b>Transportation</b>								
Liquid fuels	14.2	16.5	17.1	16.6	15.7	14.7	13.7	-0.1
Natural gas	0.7	1.0	1.5	1.9	2.4	3.0	3.4	5.6
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	1.8	2.2	2.4	4.4
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15.5</b>	<b>18.3</b>	<b>19.6</b>	<b>20.0</b>	<b>19.9</b>	<b>19.8</b>	<b>19.6</b>	<b>0.8</b>
<b>All end-use sectors</b>								
Liquid fuels	28.9	33.1	35.0	35.4	35.0	34.3	33.4	0.5
Natural gas	9.4	10.9	12.2	13.1	14.0	14.8	15.6	1.7
Coal	45.5	44.5	43.1	41.6	40.3	39.3	38.5	-0.6
Electricity	22.3	26.0	27.8	30.0	32.6	35.1	36.6	1.7
Renewables	3.5	4.1	4.2	4.3	4.2	4.2	4.1	0.5
<b>Delivered energy</b>	<b>109.6</b>	<b>118.7</b>	<b>122.3</b>	<b>124.4</b>	<b>126.2</b>	<b>127.7</b>	<b>128.3</b>	<b>0.5</b>
Electricity-related losses	47.0	49.9	51.5	55.4	59.9	64.5	67.3	1.2
Discrepancy	-0.2	0.5	0.7	0.9	1.1	1.3	1.4	--
<b>Total</b>	<b>156.4</b>	<b>169.2</b>	<b>174.6</b>	<b>180.7</b>	<b>187.1</b>	<b>193.5</b>	<b>196.9</b>	<b>0.8</b>
<b>Electric power</b>								
Liquid fuels	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-7.4
Natural gas	2.5	4.2	5.2	5.5	5.9	6.5	6.8	3.3
Coal	48.8	46.4	42.0	42.0	42.0	42.0	42.0	-0.5
Nuclear	3.3	4.4	5.7	7.1	8.3	9.5	10.5	3.9
Renewables	18.2	24.5	30.1	34.5	39.9	45.3	48.2	3.3
<b>Total</b>	<b>72.9</b>	<b>79.6</b>	<b>83.0</b>	<b>89.1</b>	<b>96.2</b>	<b>103.3</b>	<b>107.5</b>	<b>1.3</b>
<b>Total energy consumption</b>								
Liquid fuels	28.6	33.4	35.2	35.6	35.2	34.5	33.6	0.5
Natural gas	11.5	14.7	16.9	18.1	19.5	20.8	22.0	2.2
Coal	90.7	87.5	81.8	80.3	79.0	78.0	77.2	-0.5
Nuclear	3.5	4.6	5.9	7.4	8.7	9.9	10.9	3.9
Renewables	22.1	29.0	34.8	39.3	44.8	50.3	53.3	3.0

Total	156.4	169.2	174.6	180.7	187.1	193.5	196.9	0.8
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Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run r\_210719.163829; and EIA, *Annual Energy Outlook 2021*, (February 2021), [www.eia.gov/aoe](http://www.eia.gov/aoe)

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.