

**Table F2. Total OECD delivered energy consumption 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	3.4	2.8	2.8	2.7	2.6	2.5	2.4	-1.1
Natural gas	12.2	12.1	12.0	11.9	11.9	11.9	11.9	-0.1
Coal	0.6	0.6	0.6	0.5	0.5	0.5	0.5	-0.9
Electricity	10.9	11.1	11.4	11.8	12.1	12.5	12.9	0.6
Renewables	0.6	0.6	0.6	0.6	0.6	0.5	0.5	-0.5
<b>Total</b>	<b>27.8</b>	<b>27.2</b>	<b>27.3</b>	<b>27.5</b>	<b>27.7</b>	<b>27.9</b>	<b>28.2</b>	<b>0.1</b>
<b>Commercial</b>								
Liquid fuels	2.2	2.0	2.0	2.0	2.0	2.0	1.9	-0.4
Natural gas	6.9	7.3	7.3	7.4	7.4	7.5	7.5	0.3
Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-1.0
Electricity	10.4	11.3	11.7	12.2	12.6	13.0	13.6	0.9
Renewables	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
<b>Total</b>	<b>19.9</b>	<b>21.0</b>	<b>21.4</b>	<b>21.9</b>	<b>22.3</b>	<b>22.8</b>	<b>23.4</b>	<b>0.5</b>
<b>Industrial</b>								
Liquid fuels	25.7	28.2	29.6	30.8	31.8	33.0	34.3	1.0
Natural gas	23.5	26.0	26.9	28.3	29.6	31.0	32.5	1.1
Coal	7.2	8.0	8.0	8.1	8.3	8.5	8.7	0.7
Electricity	10.6	11.8	12.3	12.8	13.2	13.7	14.3	1.0
Renewables	6.4	6.8	6.9	7.0	7.2	7.4	7.6	0.6
<b>Total</b>	<b>73.4</b>	<b>80.8</b>	<b>83.7</b>	<b>86.9</b>	<b>90.0</b>	<b>93.6</b>	<b>97.5</b>	<b>1.0</b>
<b>Transportation</b>								
Liquid fuels	50.4	57.8	56.3	55.2	54.6	54.9	55.4	0.3
Natural gas	1.1	1.2	1.3	1.5	1.8	2.1	2.6	2.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.4	0.7	1.0	1.6	2.2	2.9	3.5	7.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>52.0</b>	<b>59.7</b>	<b>58.7</b>	<b>58.3</b>	<b>58.6</b>	<b>59.9</b>	<b>61.5</b>	<b>0.6</b>
<b>All end-use sectors</b>								
Liquid fuels	81.8	90.9	90.7	90.6	90.9	92.3	94.0	0.5
Natural gas	43.9	46.6	47.6	49.1	50.7	52.6	54.6	0.7
Coal	8.0	8.8	8.7	8.8	8.9	9.2	9.4	0.5
Electricity	32.4	34.9	36.4	38.3	40.1	42.1	44.3	1.0
Renewables	7.1	7.6	7.7	7.8	7.9	8.1	8.3	0.5
Delivered energy	173.1	188.8	191.1	194.7	198.6	204.3	210.6	0.7
Electricity-related losses	58.7	60.0	60.8	63.4	65.4	67.9	70.8	0.6
Discrepancy	1.1	-0.8	-0.6	-0.4	-0.3	-0.2	-0.1	0.0
<b>Total</b>	<b>232.9</b>	<b>248.0</b>	<b>251.3</b>	<b>257.7</b>	<b>263.8</b>	<b>272.0</b>	<b>281.3</b>	<b>0.6</b>
<b>Electric power</b>								
Liquid fuels	1.0	1.8	0.8	0.4	0.3	0.2	0.2	-5.9
Natural gas	24.0	23.3	23.3	22.8	22.8	23.2	23.6	-0.1
Coal	18.4	15.3	14.1	13.9	13.8	13.0	12.6	-1.3
Nuclear	18.9	20.0	18.7	18.3	16.8	14.8	13.5	-1.1
Renewables	29.3	35.0	40.8	46.9	52.4	59.4	65.7	2.7
<b>Total</b>	<b>91.6</b>	<b>95.5</b>	<b>97.7</b>	<b>102.3</b>	<b>106.1</b>	<b>110.5</b>	<b>115.6</b>	<b>0.8</b>
<b>Total energy consumption</b>								
Liquid fuels	82.3	90.2	89.0	88.7	88.9	90.2	91.9	0.4
Natural gas	68.0	70.0	71.2	72.1	73.8	75.9	78.4	0.5
Coal	26.7	24.4	23.1	23.1	23.1	22.5	22.3	-0.6
Nuclear	19.3	20.5	19.2	18.8	17.2	15.1	13.8	-1.1
Renewables	36.7	42.8	48.8	55.1	60.8	68.3	74.9	2.4

<b>Total</b>	<b>232.9</b>	<b>248.0</b>	<b>251.3</b>	<b>257.7</b>	<b>263.8</b>	<b>272.0</b>	<b>281.3</b>	<b>0.6</b>
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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/aeo](http://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.