**Table K1. Industrial sector energy consumption by region and sector, High Oil Price case** quadrillion British thermal units

2022	2025	2030	2035	2040	2045	2050	Average annual percentage change 2022–2050
							, <b></b>
17.5	17.8	18.4	19.1	19.8	20.4	21.3	0.7%
2.9	2.9	3.1	3.2	3.4	3.6	3.8	1.0%
6.3	6.5	7.1	7.3	7.6	7.7	7.7	0.7%
-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	
26.6	27.1	28.5	29.5	30.6	31.6	32.7	0.7%
2.1	2.2	2.7	3.0	3.4	3.8	4.2	2.6%
1.5	1.5	1.7	1.8	1.9	2.1	2.2	1.4%
2.4	2.4	2.4	2.5	2.7	2.9	3.0	0.8%
6.0	6.2	6.7	7.4	8.0	8.7	9.4	1.6%
1.2	1.2	1.3	1.4	1.5	1.7	1.9	1.7%
1.2				1.7	1.7	1.8	1.3%
0.6	0.7	0.9	0.9	0.9	1.0	1.0	1.5%
3.1	3.2	3.6	3.9	4.1	4.4	4.6	1.5%
3.6	3.6	3.9	4.1	4.2	4.3	4.2	0.6%
1.7	1.8	2.0	2.2	2.4	2.5	2.6	1.6%
0.8			0.8	0.8		0.9	0.4%
6.1			7.1	7.5	7.7	7.8	0.9%
2.3	2.3	2.5	2.7	3.0	3.2	3.5	1.5%
							2.3%
1.2	1.2	1.3				1.7	1.2%
5.7	5.9	6.5	7.2	7.9	8.6	9.4	1.8%
16.2	15.9	16.1	16.5	17.3	18.1	18.9	0.6%
							0.0%
							0.0%
							0.3%
9.5	9.8	9.9	10.3	10.8	11.3	11.9	0.8%
							1.5%
							-0.7%
							0.8%
2.1	2.3	2.6	2.9	3.2	3.7	4.1	2.4%
							0.7%
							2.4%
							2.1%
4.6	4.6	4.3	4.1	3.9	3.8	3.6	-0.8%
							-0.8%
0.4							-0.9%
6.4	6.3	6.0	5.7	5.4	5.2	5.1	-0.8%
	17.5 2.9 6.3 -0.1 26.6  2.1 1.5 2.4 6.0  1.2 1.2 0.6 3.1  3.6 1.7 0.8 6.1  2.3 2.2 1.2 5.7  16.2 7.1 2.9 26.3  9.5 3.7 2.5 15.6  2.1 0.8 0.8 3.6	17.5 17.8 2.9 2.9 6.3 6.5 -0.1 -0.1 26.6 27.1  2.1 2.2 1.5 1.5 2.4 2.4 6.0 6.2  1.2 1.2 1.3 0.6 0.7 3.1 3.2  3.6 3.6 1.7 1.8 0.8 0.8 6.1 6.2  2.3 2.3 2.2 2.4 1.2 1.2 1.2 1.2 5.7 5.9  16.2 15.9 7.1 7.0 2.9 2.9 26.3 25.8  9.5 9.8 3.7 3.9 2.5 1.9 15.6 15.7  2.1 2.3 0.8	17.5	17.5	17.5	17.5	17.5

Non-energy-intensive manufacturing	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.0%
Nonmanufacturing	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.8%
Total	5.7	5.7	5.9	6.0	6.0	6.1	6.1	0.2%
Australia and New Zealand								
Energy-intensive manufacturing	1.1	1.2	1.2	1.3	1.3	1.4	1.4	0.8%
Non-energy-intensive manufacturing	0.5	0.5	0.6	0.6	0.6	0.7	0.7	1.0%
Nonmanufacturing	1.0	1.0	1.0	1.1	1.2	1.4	1.5	1.5%
Total	2.6	2.7	2.9	3.0	3.2	3.4	3.6	1.1%
China								
Energy-intensive manufacturing	56.5	57.6	55.9	53.7	50.9	48.6	46.0	-0.7%
Non-energy-intensive manufacturing	22.4	23.8	24.6	25.5	25.7	25.7	25.0	0.4%
Nonmanufacturing	5.8	5.8	5.7	5.7	5.7	5.8	5.8	0.0%
Total	84.8	87.2	86.2	84.9	82.3	80.0	76.7	-0.4%
India								
Energy-intensive manufacturing	8.6	9.2	11.8	14.6	17.7	21.1	24.7	3.8%
Non-energy-intensive manufacturing	8.2	8.8	11.5	14.5	17.3	20.1	22.8	3.7%
Nonmanufacturing	1.8	2.0	2.2	2.5	2.7	2.9	3.1	1.9%
Total	18.6	20.0	25.6	31.7	37.8	44.1	50.7	3.6%
Other Asia Pacific								
Energy-intensive manufacturing	7.2	7.8	8.8	9.7	10.4	11.4	12.2	1.9%
Non-energy-intensive manufacturing	8.6	9.4	11.0	12.7	14.2	15.5	16.5	2.4%
Nonmanufacturing	1.8	1.7	1.8	1.9	2.0	2.1	2.2	0.7%
Total	17.6	18.9	21.6	24.2	26.6	29.0	30.9	2.0%
Africa and Middle East								
Africa								
Energy-intensive manufacturing	3.2	3.4	3.8	4.3	4.9	5.5	6.3	2.5%
Non-energy-intensive manufacturing	5.7	6.3	7.5	8.8	10.3	11.7	13.1	3.0%
Nonmanufacturing	1.4	1.4	1.4	1.5	1.5	1.6	1.6	0.5%
Total	10.3	11.1	12.8	14.6	16.7	18.8	21.0	2.6%
Middle East								
Energy-intensive manufacturing	7.4	7.7	8.0	8.5	9.0	9.4	9.6	0.9%
Non-energy-intensive manufacturing	7.9	8.0	8.0	8.7	9.3	9.6	9.9	0.8%
Nonmanufacturing	2.7	3.1	3.1	3.1	3.2	3.8	4.5	1.9%
Total	18.0	18.7	19.1	20.3	21.5	22.8	24.1	1.0%
World								
Energy-intensive manufacturing	147.5	150.9	155.8	160.8	165.7	172.1	178.3	0.7%
Non-energy-intensive manufacturing	76.9	80.9	88.4	97.2	105.3	112.6	119.0	1.6%
Nonmanufacturing	32.6	32.8	33.9	35.0	36.4	38.2	39.9	0.7%
Unclassified	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	
Total	257.0	264.6	278.0	292.9	307.2	322.7	337.0	1.0%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hp\_230822.081357 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. Nonmanufacturing includes agriculture, construction, and mining; energy-intensive manufacturing includes food, pulp and paper, basic chemicals, refining, iron and steel, nonferrous metals, and nonmetallic minerals; non-energy-intensive manufacturing includes all other manufacturing industries.