

**Table L3. Transportation sector freight transport energy consumption by region and mode, High Economic Growth case**

quadrillion British thermal units

Region and mode	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
<b>Americas</b>								
Heavy-duty trucks	11.1	11.1	11.1	11.3	11.7	12.4	13.0	0.6%
Rail	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.6%
Marine vessels	1.9	1.9	2.0	2.1	2.1	2.2	2.2	0.6%
Natural gas pipeline	1.0	0.8	0.7	0.7	0.7	0.8	0.8	-1.0%
Air freighter	0.1	0.1	0.1	0.1	0.2	0.2	0.2	2.1%
<b>Total</b>	<b>14.9</b>	<b>14.7</b>	<b>14.8</b>	<b>15.1</b>	<b>15.7</b>	<b>16.4</b>	<b>17.2</b>	<b>0.5%</b>
<b>Europe and Eurasia</b>								
Heavy-duty trucks	7.4	7.4	7.4	7.7	8.3	9.0	9.9	1.0%
Rail	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.5%
Marine vessels	2.1	2.4	2.7	2.9	3.0	3.2	3.3	1.6%
Natural gas pipeline	0.2	0.5	0.5	0.5	0.5	0.6	0.6	3.3%
Air freighter	0.4	0.4	0.5	0.5	0.6	0.7	0.8	2.4%
<b>Total</b>	<b>10.9</b>	<b>11.4</b>	<b>11.8</b>	<b>12.4</b>	<b>13.2</b>	<b>14.3</b>	<b>15.4</b>	<b>1.2%</b>
<b>Asia Pacific</b>								
Heavy-duty trucks	10.9	11.5	12.4	13.5	14.8	16.5	18.2	1.8%
Rail	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.5%
Marine vessels	6.1	7.0	7.8	8.4	8.8	9.3	9.6	1.7%
Natural gas pipeline	0.0	0.1	0.1	0.1	0.1	0.1	0.1	3.6%
Air freighter	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.0%
<b>Total</b>	<b>18.7</b>	<b>20.3</b>	<b>22.1</b>	<b>23.8</b>	<b>25.7</b>	<b>27.9</b>	<b>30.1</b>	<b>1.7%</b>
<b>Africa and Middle East</b>								
Heavy-duty trucks	4.2	4.4	4.5	4.7	5.0	5.4	5.7	1.1%
Rail	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2%
Marine vessels	1.4	1.6	1.8	2.0	2.1	2.2	2.3	1.7%
Natural gas pipeline	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3%
Air freighter	0.1	0.1	0.1	0.1	0.1	0.2	0.2	1.1%
<b>Total</b>	<b>6.0</b>	<b>6.3</b>	<b>6.6</b>	<b>7.0</b>	<b>7.4</b>	<b>7.9</b>	<b>8.4</b>	<b>1.2%</b>
<b>World</b>								
Heavy-duty trucks	33.7	34.4	35.5	37.2	39.8	43.2	46.8	1.2%
Rail	2.5	2.5	2.7	2.8	2.9	3.1	3.2	0.9%
Marine vessels	11.5	13.0	14.4	15.3	16.1	16.8	17.4	1.5%
Natural gas pipeline	1.4	1.5	1.4	1.4	1.5	1.5	1.5	0.3%
Air freighter	1.4	1.3	1.4	1.5	1.7	1.8	2.0	1.2%
<b>Total</b>	<b>50.5</b>	<b>52.7</b>	<b>55.3</b>	<b>58.3</b>	<b>62.0</b>	<b>66.5</b>	<b>71.0</b>	<b>1.2%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm\_230821.151836 and Annual Energy Outlook 2023 (March 2023), [www.eia.gov/aeo](http://www.eia.gov/aeo)

Note: Totals may not equal sum of components due to independent rounding.