

**Table L9. New light duty vehicle sales by technology, High Economic Growth case**

thousand vehicles

Region and technology	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
<b>Americas</b>								
Electric	820.9	1,326.8	2,383.9	2,773.9	3,133.9	3,384.4	3,615.0	5.4%
Hydrogen	2.4	2.3	3.3	4.1	4.7	4.5	4.4	2.2%
Liquefied petroleum gas	4.0	2.7	2.5	2.4	2.3	2.4	2.6	-1.5%
Natural gas	258.6	204.9	187.2	147.9	98.7	78.2	64.4	-4.8%
Diesel	437.3	535.8	650.9	628.0	611.2	628.1	685.5	1.6%
Motor gasoline	19,938.5	21,398.9	20,335.5	20,215.8	20,312.0	21,000.3	21,925.4	0.3%
Plug-in hybrid	209.7	488.7	833.7	1,335.5	1,709.2	2,034.7	2,070.3	8.5%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>21,671.4</b>	<b>23,960.2</b>	<b>24,397.0</b>	<b>25,107.6</b>	<b>25,872.0</b>	<b>27,132.5</b>	<b>28,367.7</b>	<b>1.0%</b>
<b>United States</b>								
Electric	695.9	1,106.4	1,955.1	2,254.4	2,499.5	2,649.4	2,761.1	5.0%
Hydrogen	2.4	2.3	3.3	4.1	4.7	4.5	4.4	2.2%
Liquefied petroleum gas	0.5	1.0	1.0	1.1	1.3	1.6	2.0	5.5%
Natural gas	0.4	0.7	0.6	0.6	0.6	0.6	0.7	1.4%
Diesel	74.4	120.2	131.6	128.5	143.0	148.9	164.2	2.9%
Motor gasoline	13,419.8	15,368.8	13,675.8	13,340.2	13,770.6	14,185.8	14,813.1	0.4%
Plug-in hybrid	186.5	403.4	569.9	649.1	694.4	744.2	791.9	5.3%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>14,379.9</b>	<b>17,002.7</b>	<b>16,337.4</b>	<b>16,377.9</b>	<b>17,114.1</b>	<b>17,735.1</b>	<b>18,537.5</b>	<b>0.9%</b>
<b>Canada</b>								
Electric	112.8	173.5	283.3	284.9	339.3	392.8	476.0	5.3%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5%
Liquefied petroleum gas	0.3	0.2	0.0	0.1	0.1	0.1	0.1	-5.0%
Natural gas	1.7	0.7	0.0	0.1	0.1	0.1	0.1	-9.4%
Diesel	117.3	109.8	143.3	153.0	153.3	152.2	146.1	0.8%
Motor gasoline	1,499.4	1,360.4	1,271.9	1,292.1	1,260.6	1,237.7	1,181.3	-0.8%
Plug-in hybrid	16.6	43.0	69.4	125.0	185.3	269.4	339.4	11.4%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>1,748.1</b>	<b>1,687.6</b>	<b>1,767.9</b>	<b>1,855.3</b>	<b>1,938.7</b>	<b>2,052.3</b>	<b>2,143.0</b>	<b>0.7%</b>
<b>Mexico</b>								
Electric	7.4	23.7	62.7	98.4	122.2	144.5	159.6	11.6%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Liquefied petroleum gas	3.2	1.6	1.4	1.2	1.0	0.7	0.5	-6.4%
Natural gas	4.5	1.9	2.4	2.9	2.5	2.0	1.4	-4.1%
Diesel	7.1	6.4	6.5	7.2	7.8	8.2	8.0	0.4%
Motor gasoline	1,823.0	1,493.4	1,511.7	1,684.7	1,810.4	1,892.0	1,779.2	-0.1%
Plug-in hybrid	1.5	16.4	38.5	107.4	194.9	247.3	219.6	19.5%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>1,846.7</b>	<b>1,543.5</b>	<b>1,623.2</b>	<b>1,901.8</b>	<b>2,138.8</b>	<b>2,294.7</b>	<b>2,168.3</b>	<b>0.6%</b>
<b>Brazil</b>								
Electric	2.7	7.1	34.7	66.9	87.1	100.2	121.1	14.6%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Natural gas	125.8	82.5	86.8	80.2	54.1	43.4	36.8	-4.3%
Diesel	85.0	119.3	162.4	132.8	112.3	110.0	145.8	1.9%
Motor gasoline	2,230.0	2,093.8	2,627.3	2,721.2	2,377.4	2,493.1	2,865.9	0.9%
Plug-in hybrid	4.0	19.9	126.6	376.4	526.5	642.8	618.2	19.7%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>2,447.5</b>	<b>2,322.6</b>	<b>3,037.8</b>	<b>3,377.4</b>	<b>3,157.4</b>	<b>3,389.4</b>	<b>3,787.8</b>	<b>1.6%</b>
<b>Other Americas</b>								



<b>Total</b>	<b>34,418.2</b>	<b>36,290.9</b>	<b>43,238.1</b>	<b>49,104.0</b>	<b>51,426.3</b>	<b>53,112.1</b>	<b>55,530.2</b>	<b>1.7%</b>
<b>Japan</b>								
Electric	66.0	105.1	202.4	218.6	289.3	358.1	439.9	7.0%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.5%
Liquefied petroleum gas	5.9	4.3	4.9	4.2	4.3	3.2	2.8	-2.7%
Natural gas	1.4	0.9	0.7	0.6	0.9	0.8	0.6	-2.9%
Diesel	141.1	136.3	128.8	128.5	117.3	119.1	117.2	-0.7%
Motor gasoline	3,144.4	3,034.6	2,890.9	2,576.9	2,286.4	2,137.6	1,934.9	-1.7%
Plug-in hybrid	44.8	122.4	138.0	185.8	199.6	203.1	187.4	5.2%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>3,403.6</b>	<b>3,403.7</b>	<b>3,365.7</b>	<b>3,114.6</b>	<b>2,897.8</b>	<b>2,821.9</b>	<b>2,682.8</b>	<b>-0.8%</b>
<b>South Korea</b>								
Electric	75.3	74.1	284.2	493.5	723.3	860.3	921.3	9.4%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3%
Liquefied petroleum gas	50.4	24.8	34.6	31.5	21.2	14.2	10.1	-5.6%
Natural gas	49.3	23.7	30.4	30.0	15.1	7.8	4.0	-8.5%
Diesel	191.0	168.1	155.3	130.7	104.9	104.2	126.7	-1.5%
Motor gasoline	1,069.4	1,124.1	935.2	730.2	514.7	402.3	311.3	-4.3%
Plug-in hybrid	14.4	81.1	163.3	210.1	164.3	120.6	87.5	6.6%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>1,449.9</b>	<b>1,496.0</b>	<b>1,602.9</b>	<b>1,625.9</b>	<b>1,543.4</b>	<b>1,509.4</b>	<b>1,461.0</b>	<b>0.0%</b>
<b>Australia and New Zealand</b>								
Electric	34.4	37.5	65.8	77.6	114.9	149.9	198.4	6.5%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5%
Liquefied petroleum gas	0.4	0.0	2.5	1.8	1.5	1.3	1.0	3.6%
Natural gas	2.4	0.1	0.2	0.1	0.0	0.0	0.0	-18.7%
Diesel	110.9	124.7	109.1	98.2	84.0	73.4	62.3	-2.0%
Motor gasoline	873.1	922.1	859.2	797.1	711.5	644.5	567.0	-1.5%
Plug-in hybrid	8.3	19.6	75.1	168.4	273.2	368.5	418.1	15.0%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>1,029.5</b>	<b>1,104.1</b>	<b>1,111.9</b>	<b>1,143.2</b>	<b>1,185.1</b>	<b>1,237.6</b>	<b>1,246.9</b>	<b>0.7%</b>
<b>China</b>								
Electric	4,681.9	5,262.8	6,618.9	8,278.9	8,755.8	9,135.4	9,516.3	2.6%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Liquefied petroleum gas	66.7	63.9	28.6	29.8	21.8	12.7	6.6	-7.9%
Natural gas	990.8	672.5	311.1	552.1	659.4	627.8	429.5	-2.9%
Diesel	43.9	37.7	22.4	63.0	57.0	45.1	34.2	-0.9%
Motor gasoline	13,208.6	11,435.0	8,729.7	8,601.1	7,778.9	6,348.6	5,291.5	-3.2%
Plug-in hybrid	1,006.8	1,796.3	3,814.1	3,047.3	2,996.9	2,324.3	1,864.3	2.2%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>19,998.6</b>	<b>19,268.2</b>	<b>19,524.7</b>	<b>20,572.2</b>	<b>20,269.8</b>	<b>18,493.9</b>	<b>17,142.5</b>	<b>-0.5%</b>
<b>India</b>								
Electric	17.1	37.4	75.8	173.5	434.7	827.8	1,172.8	16.3%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0%
Liquefied petroleum gas	132.5	74.6	141.3	183.0	199.7	211.3	232.4	2.0%
Natural gas	140.6	208.6	254.4	240.4	165.4	124.3	95.7	-1.4%
Diesel	1,854.8	2,571.2	4,318.8	5,412.9	5,468.2	5,466.0	5,663.5	4.1%
Motor gasoline	2,181.4	3,088.4	5,486.8	7,111.2	7,297.1	7,376.5	7,695.6	4.6%
Plug-in hybrid	4.0	20.5	277.7	547.0	1,153.0	1,642.8	2,078.9	25.1%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>4,330.4</b>	<b>6,000.8</b>	<b>10,554.8</b>	<b>13,668.0</b>	<b>14,718.2</b>	<b>15,648.7</b>	<b>16,938.8</b>	<b>5.0%</b>
<b>Other Asia</b>								
Electric	24.5	146.1	249.2	486.6	727.4	855.0	842.3	13.5%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1%
Natural gas	120.7	17.0	45.9	43.6	40.3	39.6	39.4	-3.9%
Diesel	1,040.1	1,283.3	1,633.8	1,868.3	2,065.2	2,449.9	2,942.3	3.8%
Motor gasoline	3,016.6	3,498.3	4,952.2	6,094.2	7,149.7	8,909.6	11,181.1	4.8%

Plug-in hybrid	4.3	73.4	197.2	487.4	829.4	1,146.5	1,053.2	21.7%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>4,206.2</b>	<b>5,018.2</b>	<b>7,078.2</b>	<b>8,980.1</b>	<b>10,812.0</b>	<b>13,400.7</b>	<b>16,058.3</b>	<b>4.9%</b>
<b>Africa and Middle East</b>								
Electric	31.1	106.9	141.0	214.5	276.1	353.1	427.0	9.8%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0%
Liquefied petroleum gas	8.9	7.8	1.3	0.3	0.1	0.1	0.0	-17.4%
Natural gas	102.6	41.8	50.9	34.4	24.9	20.8	17.9	-6.0%
Diesel	102.6	118.3	148.7	162.9	170.3	207.4	251.5	3.3%
Motor gasoline	3,315.5	3,895.5	4,533.7	4,740.4	4,786.5	5,535.1	6,447.4	2.4%
Plug-in hybrid	10.0	46.5	161.8	414.1	620.3	772.4	650.4	16.1%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>3,570.7</b>	<b>4,216.9</b>	<b>5,037.3</b>	<b>5,566.7</b>	<b>5,878.2</b>	<b>6,888.8</b>	<b>7,794.2</b>	<b>2.8%</b>
<b>Africa</b>								
Electric	2.3	10.3	29.8	55.7	72.1	93.2	129.4	15.5%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4%
Natural gas	9.1	8.8	8.4	5.0	2.9	2.1	1.5	-6.3%
Diesel	75.9	87.1	115.9	135.8	149.7	190.3	237.5	4.2%
Motor gasoline	683.7	846.4	1,103.7	1,274.1	1,406.2	1,771.4	2,174.5	4.2%
Plug-in hybrid	1.0	5.1	20.4	41.8	66.9	83.7	81.4	16.9%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>771.9</b>	<b>957.7</b>	<b>1,278.3</b>	<b>1,512.4</b>	<b>1,697.9</b>	<b>2,140.7</b>	<b>2,624.4</b>	<b>4.5%</b>
<b>Middle East</b>								
Electric	28.9	96.6	111.1	158.8	204.0	259.9	297.6	8.7%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0%
Liquefied petroleum gas	8.9	7.8	1.3	0.3	0.1	0.1	0.0	-17.5%
Natural gas	93.5	33.1	42.4	29.4	21.9	18.8	16.5	-6.0%
Diesel	26.7	31.2	32.8	27.1	20.5	17.1	14.0	-2.3%
Motor gasoline	2,631.8	3,049.0	3,429.9	3,466.3	3,380.3	3,763.6	4,272.8	1.7%
Plug-in hybrid	9.0	41.4	141.4	372.4	553.4	688.7	569.0	16.0%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>2,798.8</b>	<b>3,259.2</b>	<b>3,759.0</b>	<b>4,054.3</b>	<b>4,180.3</b>	<b>4,748.1</b>	<b>5,169.9</b>	<b>2.2%</b>
<b>World</b>								
Electric	7,761.6	9,340.4	15,053.1	21,814.0	24,391.8	27,360.6	30,000.9	4.9%
Hydrogen	2.4	2.3	3.3	4.1	4.7	4.5	4.4	2.2%
Liquefied petroleum gas	535.2	299.3	525.2	527.4	571.3	559.9	571.7	0.2%
Natural gas	2,148.1	1,551.4	1,110.4	1,217.0	1,152.1	1,044.5	805.0	-3.4%
Diesel	8,504.1	9,549.2	12,355.1	11,186.0	11,976.5	12,566.4	12,796.1	1.5%
Motor gasoline	58,904.2	59,905.3	56,862.8	56,913.3	57,649.2	58,338.0	61,152.4	0.1%
Plug-in hybrid	2,323.3	4,935.0	7,945.0	9,535.1	9,676.6	10,344.9	9,755.8	5.3%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>80,179.1</b>	<b>85,582.9</b>	<b>93,855.0</b>	<b>101,196.9</b>	<b>105,422.3</b>	<b>110,218.7</b>	<b>115,086.3</b>	<b>1.3%</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.