

**Table L10. Light-duty vehicle stocks by technology, Low Zero-carbon Technology Cost case**

million vehicles

Electric	0.0	0.1	0.3	0.7	1.3	2.0	2.7	22.1%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8%
Natural gas	2.8	3.3	3.7	3.4	2.8	2.2	1.6	-2.0%
Diesel	3.4	3.7	4.3	5.0	5.5	6.0	6.3	2.2%
Motor gasoline	28.5	29.6	31.4	32.7	34.1	35.8	37.4	1.0%
Plug-in hybrid	0.0	0.0	0.2	0.5	1.2	2.1	3.0	25.3%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>34.7</b>	<b>36.7</b>	<b>39.8</b>	<b>42.3</b>	<b>44.9</b>	<b>48.0</b>	<b>51.0</b>	<b>1.4%</b>

## **Europe and Eurasia**

Electric	7.0	13.5	33.5	71.8	115.7	157.4	193.7	12.6%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.4%
Liquefied petroleum gas	3.4	2.2	2.3	3.5	4.4	5.0	5.3	1.6%
Natural gas	5.7	6.4	6.6	5.8	4.4	3.2	2.5	-2.9%
Diesel	118.5	112.7	102.4	86.5	71.6	64.8	57.8	-2.5%
Motor gasoline	232.1	226.3	207.9	178.8	152.4	127.6	110.1	-2.6%
Plug-in hybrid	4.5	11.1	23.6	36.3	43.1	42.3	36.5	7.7%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>371.2</b>	<b>372.3</b>	<b>376.3</b>	<b>382.6</b>	<b>391.6</b>	<b>400.2</b>	<b>405.8</b>	<b>0.3%</b>

Western Europe

Electric	7.0	13.4	33.0	70.6	113.8	154.7	190.4	12.5%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-77.7%
Liquefied petroleum gas	3.4	2.2	2.3	3.5	4.4	5.0	5.3	1.6%
Natural gas	3.7	3.9	3.7	2.9	2.0	1.3	1.2	-4.0%
Diesel	114.5	107.3	94.8	76.7	60.3	52.2	44.3	-3.3%
Motor gasoline	178.7	171.1	151.9	122.8	94.5	66.8	46.8	-4.7%
Plug-in hybrid	4.5	11.1	23.2	35.2	40.7	38.1	30.5	7.1%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>311.8</b>	<b>309.1</b>	<b>308.9</b>	<b>311.7</b>	<b>315.6</b>	<b>318.0</b>	<b>318.5</b>	<b>0.1%</b>

Russia

Electric	0.0	0.0	0.3	0.6	0.9	1.2	1.4	22.1%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8%
Natural gas	0.1	0.1	0.1	0.0	0.0	0.0	0.0	-5.4%
Diesel	1.7	2.2	3.1	3.9	4.3	4.5	4.6	3.6%
Motor gasoline	35.5	35.8	35.6	34.6	33.9	33.7	33.2	-0.2%
Plug-in hybrid	0.0	0.0	0.1	0.4	0.7	1.2	1.8	22.7%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>37.3</b>	<b>38.1</b>	<b>39.2</b>	<b>39.5</b>	<b>39.9</b>	<b>40.7</b>	<b>41.0</b>	<b>0.3%</b>

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**Eastern Europe and Eurasia**

Electric	0.0	0.0	0.2	0.5	1.0	1.4	1.8	27.2%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3%
Natural gas	1.9	2.4	2.8	2.8	2.4	1.8	1.3	-1.4%
Diesel	2.2	3.1	4.5	5.8	7.0	8.1	9.0	5.1%
Motor gasoline	17.9	19.5	20.4	21.5	24.0	27.1	30.0	1.9%
Plug-in hybrid	0.0	0.0	0.3	0.8	1.7	3.0	4.2	27.5%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>22.1</b>	<b>25.1</b>	<b>28.2</b>	<b>31.4</b>	<b>36.1</b>	<b>41.5</b>	<b>46.3</b>	<b>2.7%</b>

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## Asia Pacific

<b>Total</b>	<b>544.9</b>	<b>609.9</b>	<b>712.2</b>	<b>797.6</b>	<b>861.3</b>	<b>917.4</b>	<b>968.6</b>	<b>2.1%</b>
<b>Japan</b>								
Electric	0.3	0.6	1.4	2.5	3.8	5.4	7.5	12.0%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-64.7%
Liquefied petroleum gas	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-2.8%
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.6%
Diesel	1.7	2.0	2.3	2.3	2.1	2.0	1.9	0.5%
Motor gasoline	63.8	60.0	54.1	49.0	44.6	40.5	36.3	-2.0%
Plug-in hybrid	0.3	0.6	1.2	2.0	2.6	3.0	3.2	9.3%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>66.3</b>	<b>63.3</b>	<b>59.1</b>	<b>55.8</b>	<b>53.2</b>	<b>51.0</b>	<b>49.0</b>	<b>-1.1%</b>
<b>South Korea</b>								
Electric	0.4	0.6	1.6	3.6	6.7	9.7	12.1	13.3%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-79.9%
Liquefied petroleum gas	1.8	1.4	0.9	0.6	0.5	0.4	0.3	-6.7%
Natural gas	0.9	0.8	0.7	0.6	0.4	0.3	0.2	-5.3%
Diesel	6.4	6.0	4.7	3.2	2.3	1.8	1.7	-4.6%
Motor gasoline	13.5	15.0	16.3	15.5	12.7	9.6	7.0	-2.3%
Plug-in hybrid	0.1	0.3	1.1	2.0	2.6	2.5	2.0	13.1%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>23.0</b>	<b>24.2</b>	<b>25.3</b>	<b>25.5</b>	<b>25.1</b>	<b>24.4</b>	<b>23.3</b>	<b>0.0%</b>
<b>Australia and New Zealand</b>								
Electric	0.1	0.2	0.5	0.9	1.3	1.9	2.7	11.7%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-53.3%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2%
Natural gas	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-14.4%
Diesel	1.6	1.9	2.2	2.2	2.1	1.9	1.7	0.0%
Motor gasoline	14.8	15.5	16.3	16.6	16.2	15.3	14.0	-0.2%
Plug-in hybrid	0.0	0.1	0.4	1.1	2.4	4.1	5.9	19.8%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>16.7</b>	<b>17.9</b>	<b>19.5</b>	<b>20.9</b>	<b>22.1</b>	<b>23.3</b>	<b>24.3</b>	<b>1.3%</b>
<b>China</b>								
Electric	15.7	30.7	59.3	95.9	136.1	166.2	186.7	9.2%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-78.6%
Liquefied petroleum gas	1.2	1.4	1.5	1.4	1.0	0.7	0.5	-3.4%
Natural gas	16.7	18.2	18.0	16.8	14.6	12.8	11.7	-1.3%
Diesel	3.3	3.1	2.5	1.8	1.1	1.1	1.0	-4.0%
Motor gasoline	284.8	307.5	315.4	289.4	235.0	187.1	158.7	-2.1%
Plug-in hybrid	3.7	8.8	25.0	38.2	50.9	57.6	56.1	10.2%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>325.5</b>	<b>369.7</b>	<b>421.7</b>	<b>443.4</b>	<b>438.8</b>	<b>425.4</b>	<b>414.7</b>	<b>0.9%</b>
<b>India</b>								
Electric	0.1	0.2	0.5	1.1	3.0	6.8	12.8	20.9%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3%
Liquefied petroleum gas	2.2	2.0	1.9	2.3	2.8	3.2	3.8	1.9%
Natural gas	1.5	2.0	3.0	3.6	3.9	3.7	3.1	2.5%
Diesel	21.1	27.4	42.2	59.9	76.6	91.1	100.9	5.8%
Motor gasoline	24.7	31.4	49.6	73.8	98.3	119.6	134.3	6.2%
Plug-in hybrid	0.0	0.1	0.8	3.0	7.9	14.7	23.2	32.9%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>49.6</b>	<b>63.1</b>	<b>98.0</b>	<b>143.8</b>	<b>192.4</b>	<b>239.1</b>	<b>278.1</b>	<b>6.4%</b>
<b>Other Asia Pacific</b>								
Electric	0.1	0.5	1.5	3.6	6.3	9.6	12.7	19.8%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1%
Liquefied petroleum gas	0.2	0.2	0.1	0.0	0.0	0.0	0.0	-21.7%
Natural gas	2.0	1.8	1.5	1.1	0.8	0.7	0.6	-4.2%
Diesel	14.9	17.2	21.2	25.0	28.0	30.8	33.5	2.9%
Motor gasoline	46.5	51.8	63.1	75.6	88.9	103.7	119.8	3.4%

Plug-in hybrid	0.1	0.3	1.1	2.8	5.7	9.5	12.5	18.4%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>63.8</b>	<b>71.7</b>	<b>88.5</b>	<b>108.1</b>	<b>129.8</b>	<b>154.3</b>	<b>179.1</b>	<b>3.8%</b>
<b>Africa and Middle East</b>								
Electric	0.1	0.4	1.2	2.5	4.3	6.3	8.4	17.7%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5%
Liquefied petroleum gas	0.4	0.4	0.4	0.3	0.1	0.0	0.0	-13.8%
Natural gas	3.8	3.8	3.4	2.2	1.5	1.0	0.7	-5.7%
Diesel	4.0	4.4	4.9	5.4	5.8	6.3	6.9	2.0%
Motor gasoline	88.4	96.8	109.5	118.6	125.3	133.7	143.1	1.7%
Plug-in hybrid	0.0	0.2	0.9	2.9	6.3	10.6	14.0	22.7%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>96.7</b>	<b>106.0</b>	<b>120.3</b>	<b>132.0</b>	<b>143.3</b>	<b>157.9</b>	<b>173.2</b>	<b>2.1%</b>
<b>Africa</b>								
Electric	0.0	0.0	0.2	0.7	1.5	2.4	3.4	25.1%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3%
Liquefied petroleum gas	0.3	0.3	0.2	0.1	0.0	0.0	0.0	-28.4%
Natural gas	0.3	0.3	0.4	0.4	0.4	0.3	0.2	-1.7%
Diesel	3.7	4.0	4.4	4.8	5.2	5.7	6.4	2.0%
Motor gasoline	32.7	35.6	40.3	44.5	48.3	53.5	59.6	2.2%
Plug-in hybrid	0.0	0.0	0.1	0.4	1.0	1.7	2.4	26.4%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>37.0</b>	<b>40.3</b>	<b>45.7</b>	<b>50.9</b>	<b>56.4</b>	<b>63.6</b>	<b>72.0</b>	<b>2.4%</b>
<b>Middle East</b>								
Electric	0.1	0.4	0.9	1.8	2.8	3.9	5.0	15.8%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7%
Liquefied petroleum gas	0.1	0.2	0.2	0.2	0.1	0.0	0.0	-9.9%
Natural gas	3.5	3.5	3.0	1.8	1.1	0.7	0.5	-6.4%
Diesel	0.2	0.3	0.5	0.6	0.6	0.6	0.5	2.5%
Motor gasoline	55.7	61.3	69.1	74.2	77.0	80.2	83.5	1.5%
Plug-in hybrid	0.0	0.2	0.8	2.5	5.3	8.9	11.7	22.2%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>59.7</b>	<b>65.8</b>	<b>74.5</b>	<b>81.0</b>	<b>86.9</b>	<b>94.3</b>	<b>101.2</b>	<b>1.9%</b>
<b>World</b>								
Electric	26.9	53.0	114.6	207.0	311.9	406.1	486.4	10.9%
Hydrogen	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3%
Liquefied petroleum gas	9.6	7.9	7.3	8.3	9.0	9.4	9.9	0.1%
Natural gas	35.7	38.9	39.7	36.5	31.1	25.3	21.7	-1.8%
Diesel	178.4	182.6	192.1	197.6	202.1	213.1	219.3	0.7%
Motor gasoline	1,158.3	1,196.6	1,224.8	1,205.1	1,159.2	1,126.0	1,117.8	-0.1%
Plug-in hybrid	10.0	23.9	59.9	99.0	138.5	168.7	183.9	10.9%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Total</b>	<b>1,418.9</b>	<b>1,502.9</b>	<b>1,638.4</b>	<b>1,753.6</b>	<b>1,851.9</b>	<b>1,948.8</b>	<b>2,039.0</b>	<b>1.3%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lz\_230821.151531 and Annual Energy Outlook 2023 (March 2023), [www.eia.gov/ao](http://www.eia.gov/ao)

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