

Table L10. Light-duty vehicle stocks by technology, Reference case

million vehicles

Electric	0.0	0.1	0.3	0.7	1.3	2.1	2.8	22.2%
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	3.5	2.9	2.3	1.6	-1.9%
Diesel	3.4	3.7	4.3	5.0	5.6	6.0	6.3	2.3%
Motor gasoline	28.5	29.6	31.4	32.5	33.9	35.6	37.2	1.0%
Plug-in hybrid	0.0	0.0	0.2	0.5	1.2	2.1	3.0	25.2%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	34.7	36.7	39.8	42.3	44.9	48.0	50.9	1.4%

Europe and Eurasia

Electric	7.0	13.6	33.7	72.0	115.8	157.2	193.2	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	1.7%
Natural gas	5.7	6.5	6.7	6.0	4.7	3.4	2.6	-2.7%
Diesel	118.5	112.8	102.7	86.7	71.8	65.0	58.0	-2.5%
Motor gasoline	232.1	226.0	207.4	178.2	151.9	127.4	110.2	-2.6%
Plug-in hybrid	4.5	11.1	23.5	36.3	43.0	42.2	36.5	7.7%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	371.2	372.3	376.3	382.6	391.6	400.2	405.8	0.3%

Western Europe

Electric	7.0	13.5	33.2	70.8	113.9	154.6	190.0	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	1.7%
Natural gas	3.7	3.9	3.7	2.9	2.0	1.3	1.2	-4.0%
Diesel	114.6	107.4	95.0	76.9	60.5	52.4	44.5	-3.3%
Motor gasoline	178.7	170.9	151.6	122.4	94.2	66.7	47.0	-4.7%
Plug-in hybrid	4.5	11.1	23.1	35.1	40.6	38.0	30.5	7.1%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	311.8	309.1	308.9	311.7	315.6	318.0	318.4	0.1%

Russia

Electric	0.0	0.0	0.3	0.6	0.9	1.2	1.4	22.0%
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	34.0	33.8	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%
Total	37.3	38.1	39.2	39.5	39.9	40.7	41.0	0.3%

Eastern Europe and Eurasia

Electric	0.0	0.0	0.2	0.6	1.0	1.5	1.9	27.2%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5%
Liquefied petroleum gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3%
Natural gas	1.9	2.5	3.0	3.0	2.6	2.0	1.4	-1.1%
Diesel	2.2	3.2	4.6	5.8	7.0	8.0	8.9	5.0%
Motor gasoline	17.9	19.4	20.2	21.2	23.8	26.9	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%
Total	22.1	25.1	28.2	31.4	36.1	41.5	46.3	2.7%

Asia Pacific

Total	544.9	609.9	712.2	797.6	861.4	917.6	968.9	2.1%
Japan								
Electric	0.3	0.6	1.4	2.5	3.8	5.3	7.2	11.8%
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	-2.7%
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	2.0	0.5%
Motor gasoline	63.8	60.0	54.1	49.0	44.6	40.6	36.5	-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%
Total	66.3	63.3	59.1	55.8	53.2	51.0	49.0	-1.1%
South Korea								
Electric	0.4	0.6	1.7	3.7	6.7	9.8	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	-6.8%
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	15.4	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%
Total	23.0	24.2	25.3	25.5	25.1	24.4	23.3	0.0%
Australia and New Zealand								
Electric	0.1	0.2	0.5	0.9	1.4	1.9	2.7	11.6%
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	-14.3%
Diesel	1.6	1.9	2.2	2.2	2.1	1.9	1.7	0.1%
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%
Total	16.7	17.9	19.5	20.9	22.1	23.3	24.3	1.3%
China								
Electric	15.7	30.8	59.6	96.2	136.0	165.5	184.7	9.2%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-78.6%
Liquefied petroleum gas	1.2	1.3	1.4	1.4	1.0	0.7	0.5	-3.4%
Natural gas	16.7	18.2	18.1	16.8	14.8	12.9	12.0	-1.2%
Diesel	3.3	3.1	2.5	1.8	1.1	1.1	1.1	-4.0%
Motor gasoline	284.8	307.4	315.1	289.1	235.0	187.6	160.2	-2.0%
Plug-in hybrid	3.7	8.7	25.0	38.1	50.8	57.7	56.4	10.2%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	325.5	369.7	421.7	443.4	438.8	425.4	414.7	0.9%
India								
Electric	0.1	0.2	0.5	1.1	2.9	6.5	12.2	20.7%
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	2.7	3.2	3.8	1.9%
Natural gas	1.5	2.0	2.9	3.6	3.9	3.7	3.1	2.5%
Diesel	21.1	27.4	42.2	59.9	76.7	91.3	101.2	5.8%
Motor gasoline	24.7	31.4	49.7	73.8	98.4	119.8	134.8	6.2%
Plug-in hybrid	0.0	0.1	0.8	3.0	7.9	14.8	23.4	32.9%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	49.6	63.1	98.0	143.8	192.5	239.3	278.4	6.4%
Other Asia Pacific								
Electric	0.1	0.5	1.6	3.6	6.3	9.8	12.9	19.9%
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	-21.8%
Natural gas	2.0	1.8	1.5	1.1	0.8	0.6	0.6	-4.2%
Diesel	14.9	17.2	21.2	25.0	28.0	30.9	34.0	3.0%
Motor gasoline	46.5	51.7	63.0	75.6	88.9	103.4	119.2	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%
Total	63.8	71.7	88.5	108.1	129.8	154.3	179.1	3.8%
Africa and Middle East								
Electric	0.1	0.4	1.0	2.2	3.7	5.3	6.9	17.0%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3%
Liquefied petroleum gas	0.4	0.4	0.4	0.3	0.1	0.0	0.0	-13.3%
Natural gas	3.8	3.9	3.6	2.5	1.8	1.5	1.2	-4.0%
Diesel	4.0	4.4	4.9	5.4	5.8	6.4	7.0	2.0%
Motor gasoline	88.4	96.8	109.5	118.8	125.6	134.2	143.7	1.8%
Plug-in hybrid	0.0	0.2	0.9	2.7	6.1	10.5	14.3	22.8%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	96.7	106.0	120.3	132.0	143.2	157.9	173.1	2.1%
Africa								
Electric	0.0	0.0	0.2	0.8	1.5	2.3	3.1	24.6%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4%
Liquefied petroleum gas	0.3	0.3	0.2	0.1	0.0	0.0	0.0	-28.5%
Natural gas	0.3	0.3	0.4	0.4	0.4	0.3	0.2	-1.7%
Diesel	3.7	4.0	4.5	4.8	5.2	5.8	6.5	2.0%
Motor gasoline	32.7	35.5	40.3	44.4	48.3	53.5	59.8	2.2%
Plug-in hybrid	0.0	0.0	0.1	0.4	1.0	1.7	2.4	26.5%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	37.0	40.3	45.7	50.9	56.4	63.6	71.9	2.4%
Middle East								
Electric	0.1	0.3	0.8	1.5	2.2	3.1	3.8	14.9%
Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1%
Liquefied petroleum gas	0.1	0.2	0.2	0.2	0.1	0.0	0.0	-9.3%
Natural gas	3.5	3.5	3.2	2.1	1.5	1.2	1.0	-4.2%
Diesel	0.2	0.3	0.5	0.6	0.6	0.6	0.5	2.6%
Motor gasoline	55.7	61.3	69.1	74.4	77.4	80.6	83.9	1.5%
Plug-in hybrid	0.0	0.1	0.8	2.3	5.1	8.8	11.9	22.3%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	59.7	65.8	74.5	81.0	86.9	94.3	101.2	1.9%
World								
Electric	27.0	53.5	115.5	208.0	312.2	404.6	481.9	10.8%
Hydrogen	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4%
Liquefied petroleum gas	9.6	7.9	7.2	8.2	8.9	9.4	9.9	0.1%
Natural gas	35.7	39.1	40.1	37.1	31.8	26.2	22.6	-1.6%
Diesel	178.5	182.8	192.4	197.8	202.5	213.8	220.4	0.8%
Motor gasoline	1,158.0	1,195.8	1,223.2	1,203.5	1,158.1	1,126.0	1,119.4	-0.1%
Plug-in hybrid	10.0	23.9	59.8	98.8	138.2	168.7	184.7	11.0%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	1,418.8	1,502.9	1,638.3	1,753.4	1,851.8	1,948.8	2,039.0	1.3%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run r_230822.081459 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/ao

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