

Table 46. Light-Duty Vehicle Sales by Technology Type (thousands)
Pacific - 09

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1213.8	1220.8	1194.9	1169.7	1168.3	1187.4	1203.0	1207.1	1181.6	1120.9	1082.1	1047.2	1027.5	
TDI Diesel ICE	8.8	10.0	14.5	16.3	15.8	17.3	22.4	24.2	25.4	27.1	28.7	29.5	33.7	
Total Conventional	1222.6	1230.9	1209.4	1186.0	1184.2	1204.6	1225.4	1231.3	1207.0	1148.0	1110.8	1076.7	1061.2	
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ethanol-Flex Fuel ICE	22.0	24.1	43.7	49.2	57.3	63.9	74.5	84.6	91.6	123.2	125.2	127.9	115.3	
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.5	0.4	0.3	0.4	0.4	
Electric-Gasoline Hybrid	29.1	33.2	45.2	43.1	50.1	54.8	68.2	79.5	87.8	94.9	103.7	111.6	124.2	
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	1.1	1.3	1.2	
Total Alternatives	51.7	58.0	89.6	93.0	108.1	119.6	143.6	165.0	181.1	219.6	231.1	241.9	242.0	
Percent Alternative Car Sales	4.06	4.50	6.90	7.27	8.37	9.03	10.49	11.82	13.04	16.06	17.22	18.35	18.57	
Total New Car Sales	1274.3	1288.8	1299.0	1279.0	1292.3	1324.2	1369.0	1396.3	1388.1	1367.6	1341.9	1318.6	1303.2	
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	1268.4	1178.4	1037.3	883.6	906.7	939.1	939.3	938.8	920.5	808.8	796.1	791.1	791.3	
TDI Diesel ICE	54.8	55.3	58.7	60.9	65.0	78.8	111.0	115.1	115.8	115.7	124.4	133.7	164.1	
Total Conventional	1323.2	1233.7	1096.1	944.5	971.7	1017.8	1050.3	1053.9	1036.3	924.5	920.6	924.8	955.4	
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ethanol-Flex Fuel ICE	52.2	50.9	102.4	132.2	142.5	187.3	233.6	274.4	305.7	404.4	405.0	410.8	349.0	
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric-Gasoline Hybrid	14.3	17.3	17.4	31.5	32.0	40.9	53.8	68.1	81.6	89.3	117.3	136.4	158.1
Compressed Natural Gas ICE	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.7	0.2	0.2	0.5	0.4	0.4
Total Alternatives	67.8	69.5	121.0	164.7	175.7	229.4	288.7	344.2	388.5	494.9	523.9	548.6	508.6
Percent Alternative L.T. Sales	4.87	5.33	9.94	14.84	15.31	18.40	21.56	24.62	27.26	34.87	36.27	37.23	34.74
Total New Truck Sales	1390.9	1303.2	1217.0	1109.2	1147.4	1247.3	1339.0	1398.0	1424.8	1419.5	1444.4	1473.4	1464.0
Percent Total Alternative Sales	4.48	4.92	8.37	10.79	11.63	13.57	15.97	18.22	20.25	25.64	27.10	28.31	27.12
EPACT Legislative Alternative Sales	6.07	6.22	5.82	5.34	5.33	5.47	5.62	5.69	5.71	5.64	5.61	5.55	5.49
ZEV/P Legislative Alternative Sales	38.05	38.16	36.59	34.95	43.94	47.46	51.68	75.85	78.45	77.26	145.59	143.44	139.76
Total Vehicles Sales	2665.2	2592.0	2516.0	2388.2	2439.7	2571.5	2708.0	2794.4	2812.9	2787.1	2786.3	2792.1	2767.2

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1004.1	984.8	979.8	970.3	996.0	1016.7	1037.9	1051.9	1070.2	1084.5	1100.0	1115.6	1132.7	-0.3%
TDI Diesel ICE	37.3	40.4	45.2	44.4	48.0	51.0	51.0	50.7	53.7	57.1	61.0	64.9	65.7	8.1%
Total Conventional	1041.4	1025.1	1025.0	1014.7	1044.0	1067.8	1088.8	1102.6	1124.0	1141.7	1161.0	1180.5	1198.4	-0.1%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	120.1	135.1	152.3	167.9	156.9	151.7	145.2	149.3	147.5	148.6	148.6	148.4	150.1	7.9%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Plug-in Gasoline Hybrid	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	--
Electric-Diesel Hybrid	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	--
Electric-Gasoline Hybrid	139.3	153.5	165.3	167.5	172.5	177.2	183.7	189.9	194.8	199.2	203.8	208.6	216.1	8.1%
Compressed Natural Gas ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5%
Compressed Natural Gas Bi-fuel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5%
Liquefied Petroleum Gases ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	2.7	2.7	2.6	2.7	2.6	2.6	2.9	2.8	2.8	2.9	2.9	2.9	3.0	83.3%
Total Alternatives	263.2	292.4	321.3	339.2	333.1	332.7	333.1	343.3	346.4	352.1	356.7	361.4	370.7	8.0%
Percent Alternative Car Sales	20.17	22.19	23.87	25.06	24.19	23.76	23.43	23.74	23.56	23.57	23.50	23.44	23.63	7.2%
Total New Car Sales	1304.5	1317.5	1346.3	1354.0	1377.1	1400.5	1422.0	1445.9	1470.4	1493.8	1517.7	1541.9	1569.1	0.8%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	752.1	698.6	647.9	633.3	653.2	665.0	688.1	694.4	705.1	710.6	714.9	719.3	729.3	-2.0%
TDI Diesel ICE	179.2	187.6	201.7	190.7	209.0	223.2	224.3	220.3	232.1	244.4	258.2	271.6	273.4	6.9%
Total Conventional	931.3	886.2	849.6	824.0	862.2	888.2	912.4	914.7	937.2	955.0	973.1	990.9	1002.7	-0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Ethanol-Flex Fuel ICE	336.1	350.4	346.5	395.7	357.2	335.5	319.3	327.3	318.9	317.6	312.1	306.1	307.9	7.8%
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Electric Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Plug-in Gasoline Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	--

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2006-2030
Electric-Diesel Hybrid	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--
Electric-Gasoline Hybrid	176.5	193.8	209.4	215.3	220.9	224.8	233.5	239.7	245.0	249.7	253.6	257.8	266.2	12.1%
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.8%
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	-0.9%
Liquefied Petroleum Gases ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-2.0%
Liquefied Petroleum Gases Bi-fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cell Hydrogen	0.8	0.7	0.7	0.8	0.8	0.8	1.0	1.0	1.1	1.2	1.2	1.2	1.3	23.8%
Total Alternatives	514.5	546.0	557.7	612.8	580.0	562.2	554.8	569.1	566.1	569.6	568.1	566.4	576.6	9.2%
Percent Alternative L.T. Sales	35.58	38.12	39.63	42.65	40.22	38.76	37.81	38.36	37.66	37.36	36.86	36.37	36.51	8.3%
Total New Truck Sales	1445.8	1432.2	1407.3	1436.8	1442.2	1450.4	1467.2	1483.9	1503.3	1524.6	1541.2	1557.3	1579.3	0.8%
Percent Total Alternative Sales	28.27	30.49	31.92	34.11	32.39	31.39	30.73	31.14	30.69	30.54	30.23	29.94	30.09	7.8%
EPACT Legislative Alternative Sales	5.46	5.47	5.50	5.56	5.63	5.69	5.77	5.85	5.93	6.02	6.10	6.18	6.28	0.0%
ZEVP Legislative Alternative Sales	211.13	209.64	207.84	219.46	218.08	216.59	241.80	240.91	243.74	256.70	259.31	261.88	266.39	8.4%
Total Vehicles Sales	2750.4	2749.7	2753.6	2790.8	2819.3	2850.9	2889.1	2929.8	2973.6	3018.3	3058.9	3099.1	3148.4	0.8%

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1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEV/P = Zero emission vehicles from the low emission vehicle program.

-- = Not applicable.

Sources: 2005 and 2006 values derived using: California Air Resources Board, "California Exhaust Emission Standards and Test Procedures for 2005 and Subsequent Model Aero-Emission Vehicles, and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-Duty Truck and Medium-Duty Vehicle Classes"
(El Monte, CA, December 2003); Energy Information Administration (EIA), Alternatives to Traditional Transportation Fuels 2005 (Part II - User and Fuel Data), November 2007; and EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f. Projections: EIA, AEO2008 National Energy Modeling System run aeo2008.d030208f.