

Table 44. Light-Duty Vehicle Sales by Technology Type  
(thousands)  
Pacific

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>New Car Sales 1/</b>														
<b>Conventional Vehicles</b>														
Gasoline ICE Vehicles	1214.8	1226.1	1269.6	1335.7	1334.2	1300.4	1281.9	1253.0	1254.6	1248.6	1236.1	1224.4	1210.8	1213.3
TDI Diesel ICE	8.5	5.1	6.2	6.3	8.1	8.8	8.0	6.9	7.6	7.7	7.7	7.6	8.6	8.8
Total Conventional	1223.3	1231.2	1275.8	1342.0	1342.3	1309.3	1289.9	1259.9	1262.2	1256.3	1243.8	1232.0	1219.4	1222.0
<b>Alternative-Fuel Vehicles</b>														
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	0.0
Methanol 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	0.0
Ethanol-Flex Fuel ICE	63.9	64.7	68.0	70.5	81.0	81.7	80.3	79.7	80.1	79.5	78.4	77.3	76.1	76.1
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	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	0.4
Electric-Diesel Hybrid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.0	1.3	1.4	1.5	1.4
Electric-Gasoline Hybrid	8.3	15.7	20.8	34.9	30.5	43.1	43.7	51.5	57.8	60.9	63.5	65.9	71.2	75.1
Compressed Natural Gas ICE	0.0	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
Compressed Natural Gas Bi-fuel	1.9	2.0	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1
Liquefied Petroleum Gas 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	0.0
Liquefied Petroleum Gas Bi-fuel	7.3	7.4	7.7	8.2	8.2	8.1	8.0	7.9	7.9	7.9	7.9	7.8	7.8	7.8
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	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	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	1.2	1.2
Total Alternatives	82.0	90.3	99.3	116.7	122.7	135.9	134.9	142.1	149.0	152.2	154.4	155.7	160.6	164.4
Percent Alternative Car Sales	6.28	6.83	7.22	8.00	8.38	9.41	9.47	10.14	10.56	10.81	11.04	11.22	11.63	11.86
Total New Car Sales	1305.2	1321.5	1375.1	1458.7	1465.0	1445.2	1424.9	1402.0	1411.1	1408.5	1398.2	1387.8	1380.0	1386.5
<b>New Light Truck Sales 2/</b>														
<b>Conventional Vehicles</b>														
Gasoline ICE Vehicles	1103.4	1119.5	1069.5	955.8	976.2	974.9	1020.6	1078.8	1084.3	1101.8	1116.9	1137.2	1122.3	1135.0
TDI Diesel ICE	77.8	75.9	69.4	69.3	80.4	98.3	98.3	90.1	102.6	104.2	103.2	102.5	116.8	117.4
Total Conventional	1181.2	1195.4	1138.9	1025.1	1056.6	1073.1	1118.9	1168.9	1186.8	1206.0	1220.2	1239.8	1239.1	1252.4

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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	0.0
Methanol 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	0.0
Ethanol-Flex Fuel ICE	61.2	62.4	67.7	60.9	102.9	103.3	109.3	116.0	116.3	118.1	119.6	121.6	119.7	120.9
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	0.0
Electric Vehicle	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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	0.1
Electric-Gasoline Hybrid	0.0	0.0	12.0	18.7	19.5	38.0	39.1	40.5	44.8	47.9	51.2	54.8	68.8	74.9
Compressed Natural Gas 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	0.0
Compressed Natural Gas Bi-fuel	4.9	5.0	4.9	4.4	4.7	4.9	5.1	5.3	5.4	5.5	5.6	5.7	5.7	5.8
Liquefied Petroleum Gas ICE	0.1	0.2	0.1	0.1	0.3	0.7	1.2	1.5	1.6	1.9	1.8	1.9	2.4	3.7
Liquefied Petroleum Gas Bi-fuel	16.3	16.5	16.0	14.5	15.5	16.0	16.7	17.4	17.7	18.1	18.3	18.6	18.8	19.1
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	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	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7	0.2	0.2	0.5	0.5
Total Alternatives	83.1	84.7	101.2	99.2	143.5	163.4	172.1	181.6	186.6	192.8	197.2	203.4	216.5	225.6
Percent Alternative Light Truck Sales	6.58	6.62	8.16	8.82	11.96	13.21	13.33	13.44	13.59	13.78	13.91	14.09	14.88	15.26
Total New Truck Sales	1264.3	1280.1	1240.2	1124.3	1200.1	1236.5	1291.0	1350.5	1373.4	1398.9	1417.4	1443.1	1455.7	1478.0
Percent Total Alternative Sales	6.43	6.73	7.67	8.36	9.99	11.16	11.30	11.76	12.05	12.29	12.49	12.69	13.30	13.61
EPACT Legislative Alternative Sales	42.24	42.76	42.27	40.20	42.10	42.80	43.95	45.19	45.82	46.42	46.78	47.31	47.54	48.14
ZEVP Legislative Alternative Sales	0.00	0.00	38.20	38.86	39.04	39.32	48.96	50.69	53.00	75.86	78.01	77.66	146.70	145.41
Total Vehicles Sales	2569.6	2601.5	2615.3	2582.9	2665.1	2681.7	2715.9	2752.5	2784.6	2807.3	2815.6	2830.9	2835.6	2864.4

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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2004-2030
<b>New Car Sales 1/</b>															
<b>Conventional Vehicles</b>															
Gasoline ICE Vehicles	1211.9	1215.6	1218.8	1227.0	1233.5	1242.3	1251.6	1261.1	1270.9	1281.7	1289.5	1296.3	1304.2	1313.0	0.3%
TDI Diesel ICE	9.5	9.4	11.0	11.5	12.7	14.2	15.4	16.3	16.5	17.5	19.1	20.5	21.6	22.6	5.9%
Total Conventional	1221.5	1225.0	1229.8	1238.5	1246.2	1256.4	1267.0	1277.4	1287.4	1299.2	1308.6	1316.8	1325.8	1335.6	0.3%
<b>Alternative-Fuel Vehicles</b>															
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	0.0	0.7%
Methanol 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	0.0	N/A
Ethanol-Flex Fuel ICE	75.8	76.0	76.0	76.5	76.8	77.3	78.0	78.6	79.2	80.0	80.5	81.0	81.5	82.1	0.9%
Ethanol 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	0.3	4.5%
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.7%
Electric-Diesel Hybrid	1.3	1.2	1.2	1.1	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	N/A
Electric-Gasoline Hybrid	79.6	84.5	89.2	93.9	98.7	103.8	109.1	114.5	120.3	126.4	132.5	138.7	145.4	152.5	9.1%
Compressed Natural Gas 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	0.1	1.3%
Compressed Natural Gas Bi-fuel	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	0.8%
Liquefied Petroleum Gas 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	0.0	N/A
Liquefied Petroleum Gas Bi-fuel	7.8	7.9	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.7	8.8	8.9	0.7%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	1.2	2.6	2.5	2.4	2.5	2.4	2.3	2.7	2.5	2.5	2.6	2.6	2.6	2.5	N/A
Total Alternatives	168.7	175.0	179.8	184.8	190.2	195.8	201.7	208.2	214.5	221.5	228.3	235.0	242.3	250.1	4.0%
Percent Alternative Car Sales	12.14	12.50	12.75	12.99	13.24	13.48	13.73	14.02	14.28	14.57	14.85	15.14	15.45	15.77	3.3%
Total New Car Sales	1390.2	1400.1	1409.6	1423.3	1436.4	1452.3	1468.7	1485.6	1501.9	1520.7	1536.9	1551.8	1568.1	1585.7	0.7%
<b>New Light Truck Sales 2/</b>															
<b>Conventional Vehicles</b>															
Gasoline ICE Vehicles	1142.2	1169.7	1168.9	1182.3	1192.2	1200.8	1214.4	1234.4	1262.4	1282.2	1294.1	1304.7	1320.0	1337.1	0.7%
TDI Diesel ICE	129.9	125.6	149.9	153.1	168.2	186.9	202.2	212.2	211.6	222.4	242.1	256.8	270.0	278.9	5.1%
Total Conventional	1272.1	1295.3	1318.8	1335.4	1360.4	1387.7	1416.6	1446.6	1474.0	1504.6	1536.1	1561.5	1590.0	1616.0	1.2%

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	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2004-2030
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	0.0	1.7%
Methanol 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	0.0	N/A
Ethanol-Flex Fuel ICE	121.7	124.7	124.6	126.1	127.3	128.3	129.8	132.4	135.6	138.1	139.8	141.1	143.0	145.1	3.3%
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	0.0	N/A
Electric Vehicle	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	1.7%
Electric-Diesel Hybrid	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	N/A
Electric-Gasoline Hybrid	79.6	85.0	89.4	95.3	101.1	107.1	113.6	120.8	128.9	137.0	145.1	153.3	162.4	171.9	N/A
Compressed Natural Gas 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	0.0	-11.2%
Compressed Natural Gas Bi-fuel	5.9	6.0	6.1	6.2	6.4	6.5	6.6	6.8	7.0	7.1	7.3	7.4	7.6	7.7	1.7%
Liquefied Petroleum Gas ICE	4.9	5.1	4.5	4.8	4.1	3.7	3.9	3.6	3.5	3.6	3.9	3.9	3.9	4.1	13.1%
Liquefied Petroleum Gas Bi-fuel	19.4	19.9	20.2	20.5	20.9	21.4	21.9	22.4	22.9	23.4	24.0	24.5	25.0	25.5	1.7%
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	0.0	N/A
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	0.0	N/A
Fuel Cell Hydrogen	0.5	1.1	1.1	1.1	1.3	1.3	1.3	1.6	1.7	1.8	1.9	2.0	2.1	2.2	N/A
Total Alternatives	233.0	242.7	247.0	255.3	262.2	269.5	278.4	288.8	300.7	312.3	323.1	333.4	345.1	357.7	5.7%
Percent Alternative Light Truck Sales	15.48	15.78	15.78	16.05	16.16	16.26	16.43	16.64	16.94	17.19	17.38	17.59	17.83	18.12	4.0%
Total New Truck Sales	1505.0	1538.0	1565.8	1590.7	1622.6	1657.2	1695.0	1735.3	1774.7	1816.9	1859.3	1894.9	1935.1	1973.7	1.7%
Percent Total Alternative Sales	13.87	14.22	14.34	14.60	14.79	14.96	15.18	15.43	15.72	15.99	16.24	16.49	16.77	17.08	3.6%
EPACT Legislative Alternative Sales	48.83	49.72	50.48	51.20	52.09	53.07	54.14	55.26	56.36	57.55	58.72	59.72	60.84	61.93	1.4%
ZEVP Legislative Alternative Sales	144.35	222.05	222.71	222.69	235.56	235.42	235.12	263.64	263.56	267.67	282.60	285.90	289.71	294.84	N/A
Total Vehicles Sales	2895.2	2938.1	2975.4	3013.9	3059.0	3109.4	3163.8	3220.9	3276.7	3337.6	3396.2	3446.7	3503.2	3559.4	1.2%

Table 44. Light-Duty Vehicle Sales by Technology Type  
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Pacific

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.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2003 and 2004 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 2004, <http://www.eia.doe.gov/fuelrenewable.html>; and EIA, AEO2006 National Energy Modeling System run aeo2006.d111905a. Projections: EIA, AEO2006 National Energy Modeling System run aeo2006.d111905a.