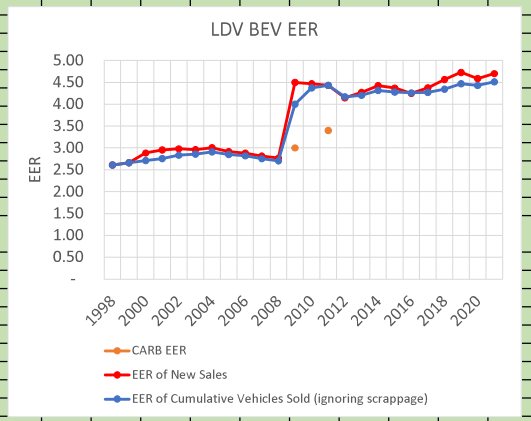
EV Sales Data from https://www.energy.ca.gov/files/zev-and-infrastructure-stats-data

MAKE	MODEL	MODEL	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Audi	e-tron	Audi e-tron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,241	2,281	2,404
Audi	e-tron GT	Audi e-tron GT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150
Audi	e-tron Sportback	Audi e-tron Sportback	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	557
Audi	RS e-tron GT	Audi RS e-tron GT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66
BMW	ActiveE	BMW ActiveE	-	-	-	-	-	-	-	-	-	-	-	-	-	2	500	7	-	-	-	-	-	-	-	-
BMW	i3	BMW i3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	711	1,264	1,553	1,862	1,824	1,762	1,103	2,690
CHEVROLET	Bolt EUV	CHEVROLET Bolt EUV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	974
CHEVROLET	Bolt EV	CHEVROLET Bolt EV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	8,777	13,771	9,072	10,341	12,313
CHEVROLET	Spark EV	CHEVROLET Spark EV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	402	948	1,894	2,164	919	32	18	-	-
FIAT	500e	FIAT 500e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,411	6,225	9,932	5,365	5,217	988	563	99	13
FORD	Focus	FORD Focus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	322	703	1,144	1,035	547	1,182	525	21	17	18
FORD	Mustang Mach-E	FORD Mustang Mach-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,807
FORD	RANGER	FORD RANGER	5	1	2	1	3	6	1	8	1	-	-	4	17	-	-	-	-	-	-	-	-	-	-	-
FORD	Transit Connect Electric	FORD Transit Connect Electric	-	-	-	-	-	-	-	-	-	-	-	-	-	6	39	11	1	1	-	-	-	-	-	-
HONDA	Clarity Electric	HONDA Clarity Electric	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	472	1,345	528	148	19
HONDA	Fit EV	HONDA Fit EV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	301	279	13	7	1	-	-	-	-
Hyundai	Ioniq Electric	Hyundai Ioniq Electric	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	331	453	635	313	686
Hyundai	Kona EV	Hyundai Kona EV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,418	1,492	3,122
Jaguar	I-PACE	Jaguar I-PACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	658	459	664
Kia	Niro EV	Kia Niro EV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	992	1,343	3,003
Kia	Soul EV	Kia Soul EV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	254	709	873	845	555	27	7	2
Lucid	Air	Lucid Air	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Mazda	MX-30 EV	Mazda MX-30 EV														-	-	-	-	-	-	-	-	-	-	139
Mercedes-Benz	B-Class	Mercedes-Benz B-Class												-	-	-	-	-	336	1,549	526	494	135	5	2	-
Mercedes-Benz	EQS	Mercedes-Benz EQS												-	-	-	-	-	-	-	-	-	-	-	-	25
MINI	COOPER	MINI COOPER												10	97	-	-	-	-	-	-	-	-	-	-	-
MINI	Hardtop 2 Door	MINI Hardtop 2 Door												-	-	-	-	-	-	-	-	-	-	-	375	661
Mitsubishi	i-MiEV	Mitsubishi i-MiEV												-	-	2	140	126	59	37	25	7	-	2	1	-
NISSAN	LEAF	NISSAN LEAF												-	1	4,812	3,053	7,684	9,764	6,313	5,595	4,993	4,927	3,891	2,370	4,192
Polestar	2	Polestar 2												-	-	-	-	-	-	-	-	-	-	-	44	1,159
Porsche	Taycan	Porsche Taycan												-	-	-	-	-	-	-	-	-	-	2	948	2,350
Rivian	R1T	Rivian R1T												-	-	-	-	-	-	-	-	-	-	-	-	264
Scion	iQ EV	Scion iQ EV												-	-	-	26	66	-	-	-	-	-	-	-	-
Smart	EQ Fortwo	Smart EQ Fortwo												-	-	-	-	-	-	-	-	-	-	177	17	4
Smart	fortwo electric drive	Smart fortwo electric drive												-	-	137	248	433	1,425	1,041	569	265	557	178	6	1
TESLA	Model 3	TESLA Model 3												-	-	-	-	-	-	-	-	840	49,710	57,658	47,740	67,262
TESLA	Model S	TESLA Model S												-	-	-	603	8,965	7,040	11,387	11,144	11,084	11,093	6,019	5,871	6,532
TESLA	Model X	TESLA Model X												-	-	-	-	-	-	21	5,830	5,510	7,905	6,790	8,479	2,319
TESLA	Model Y	TESLA Model Y												-	-	-	-	-	-	-	-	-	-	-	21,379	61,022
TESLA	ROADSTER	TESLA ROADSTER												69	367	120	12	4	1	-	-	-	-	-	-	-
Toyota	RAV4 EV	Toyota RAV4 EV												-	-	-	141	1,054	1,208	67	13	5	-	-	-	-
Volkswagen	e-Golf	Volkswagen e-Golf												-	-	-	-	-	125	3,106	3,415	3,168	1,140	2,946	1,111	276
Volkswagen	ID.4	Volkswagen ID.4												-	-	-	-	-	-	-	-	-	-	-	-	5,293
Volvo	C40	Volvo C40												-	-	-	-	-	-	-	-	-	-	-	-	1
Volvo	XC40	Volvo XC40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,325

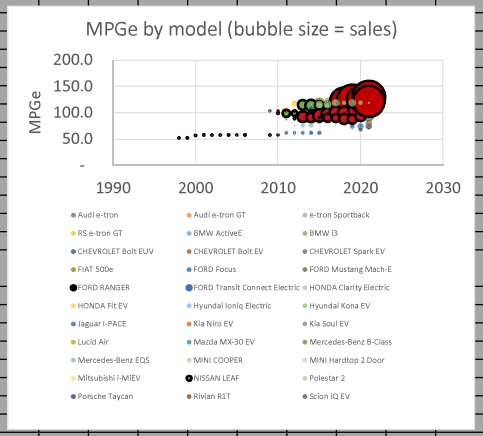


MPGe (combined) Data from fueleconomy.gov

Reported Data in Blue | Interpolated Data in Green

MAKE	MODEL	MODEL	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Audi	e-tron	Audi e-tron																						74.0	74	81
Audi	e-tron GT	Audi e-tron GT																								82
Audi	e-tron Sportback	Audi e-tron Sportback																							77.0	77.0
Audi	RS e-tron GT	Audi RS e-tron GT																								81
BMW	ActiveE	BMW ActiveE														102.0	102	102								
BMW	i3	BMW i3																124.0	124.0	124.0	124.0	121.0	115.0	113.0	113.0	113.0
CHEVROLET	Bolt EUV	CHEVROLET Bolt EUV																								115.0
CHEVROLET	Bolt EV	CHEVROLET Bolt EV																			119.0	119.0	119.0	119.0	118.0	118.0
CHEVROLET	Spark EV	CHEVROLET Spark EV																119.0	119.0	119.0	119.0	119.0	119.0	119.0		
FIAT	500e	FIAT 500e																116.0	116.0	116.0	112.0	112.0	112.0	112.0	112.0	112.0
FORD	Focus	FORD Focus															105.0	105.0	105.0	105.0	105.0	107.0	107.0	107.0	107.0	107.0
FORD	Mustang Mach-E	FORD Mustang Mach-E																								92.4
FORD	RANGER	FORD RANGER	52.5	52.5	57.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0											
FORD	Transit Connect Electric	FORD Transit Connect Electric														62.0	62.0	62.0	62.0	62.0						
HONDA	Clarity Electric	HONDA Clarity Electric																				114.0	114.0	114.0	114.0	114.0
HONDA	Fit EV	HONDA Fit EV															118.0	118.0	118.0	118.0	118.0	118.0				
Hyundai	Ioniq Electric	Hyundai Ioniq Electric																				136.0	136.0	136.0	133.0	133.0
Hyundai	Kona EV	Hyundai Kona EV																						120.0	120.0	120.0
Jaguar	I-PACE	Jaguar I-PACE																					76.0	76.0	76.0	76.0

Kia	Niro EV	Kia Niro EV																				112.0	112.0	112.0
Kia	Soul EV	Kia Soul EV															105.0	105.0	105.0	105.0	108.0	108.0	114.0	114.0
Lucid	Air	Lucid Air																						120.0
Mazda	MX-30 EV	Mazda MX-30 EV																						92.0
Mercedes-Benz	B-Class	Mercedes-Benz B-Class															84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
Mercedes-Benz	EQS	Mercedes-Benz EQS																					96.0	96.0
MINI	COOPER	MINI COOPER									98.0	98.0	98.0											
MINI	Hardtop 2 Door	MINI Hardtop 2 Door																					108.0	108.0
Mitsubishi	i-MiEV	Mitsubishi i-MiEV												112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
NISSAN	LEAF	NISSAN LEAF											99.0	99.0	99.0	115.0	114.0	114.0	113.0	112.0	112.0	108.0	107.7	107.7
Polestar	2	Polestar 2																					92.0	92.0
Porsche	Taycan	Porsche Taycan																				68.7	68.7	74.9
Rivian	R1T	Rivian R1T																						70.0
Scion	iQ EV	Scion iQ EV													121.0	121.0								
Smart	EQ Fortwo	Smart EQ Fortwo																				105.0	105.0	105.0
Smart	fortwo electric drive	Smart fortwo electric drive												87.0	87.0	107.0	107.0	107.0	107.0	105.0	105.0	105.0	105.0	105.0
TESLA	Model 3	TESLA Model 3																		126.0	121.3	124.8	124.5	129.7
TESLA	Model S	TESLA Model S													89.0	92.7	91.0	95.0	97.0	100.4	100.3	103.4	107.6	106.8
TESLA	Model X	TESLA Model X																90.6	90.6	90.0	88.3	88.0	94.2	96.0
TESLA	Model Y	TESLA Model Y																					117.7	121.7
TESLA	ROADSTER	TESLA ROADSTER									103.7	103.7	103.7	103.7	103.7	103.7	103.7							
Toyota	RAV4 EV	Toyota RAV4 EV													76.0	76.0	76.0	76.0	76.0	76.0				
Volkswagen	e-Golf	Volkswagen e-Golf															116.0	116.0	116.0	119.0	119.0	119.0	119.0	119.0
Volkswagen	ID.4	Volkswagen ID.4																						96.6
Volvo	C40	Volvo C40																						79.0
Volvo	XC40	Volvo XC40																						79.0



EER Calculation

No reported sales. Used prior year.

Item	Formula	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
EV Sales	SUM(D51:D95)	5	1	2	1	3	6	1	8	1	-	-	83	482	5,079	5,155	21,167	29,520	38,369	37,629	45,972	95,048	94,603	105,946	185,337
Weighted Average MPGe of California EV Sales	SUMPRODUCT(D$3:D$47,D$51:D$95)/SUM(D$3:D$47)	53	53	57	58	58	58	58	58	58	58	58	101	101	99	98	103	107	108	105	109	115	118	116	119
Cumulative EV MPG	SUMPRODUCT($D100:D100,$D99:D99)/SUM($D99:D99)	53	53	54	54	55	56	56	57	57	57	57	90	99	99	98	102	104	105	105	106	109	111	112	114
ICE MPG	Data from https://www.epa.gov/automotive-trends/explore-automotive-trends-data	20.10	19.70	19.77	19.62	19.45	19.58	19.30	19.88	20.13	20.60	20.97	22.40	22.59	22.29	23.57	24.18	24.11	24.65	24.71	24.86	25.11	24.91	25.38	25.34
EER of New Sales	AA100/AA102	2.61	2.67	2.88	2.96	2.98	2.96	3.01	2.92	2.88	2.82	2.77	4.50	4.47	4.43	4.15	4.27	4.43	4.37	4.25	4.37	4.57	4.73	4.59	4.70
EER of Cumulative Vehicles Sold (ignoring scrappage)	D100/D101	2.61	2.67	2.71	2.76	2.83	2.86	2.91	2.85	2.82	2.75	2.71	4.00	4.37	4.43	4.17	4.20	4.32	4.28	4.26	4.27	4.34	4.47	4.43	4.51
CARB EER	From ISOR												3.00		3.40										