

Modern Era Plugin Electric Cars



Drive Green, Drive Clean

1991



1991-2001
Solectria Force
15.3-18kWh Lead/NiCad/
NiMH
40-50/70-80/90-100 miles
400 sold

1993



1993-1995 / 1997-1999
Chrysler TEVan / EPIC
32.4kWh NiCad/NiFe
(EPIC ~52kWh NiMH)
60-70 mi / 80-90 mi
80 to utilities (<10 sold)

1994



1994-1997
US Electricar (car & pickup)
dual 13.1kWh strings (Lead)
50 miles
250-400 conversions sold

1996



1996-2002
GM EV-1
16.8kWh, Lead Acid
70-90 miles
660 leased (crushed)

1997



1997-2001
Honda EV Plus
26.1kWh, NiMH
80-100 miles
340 leased (crushed)



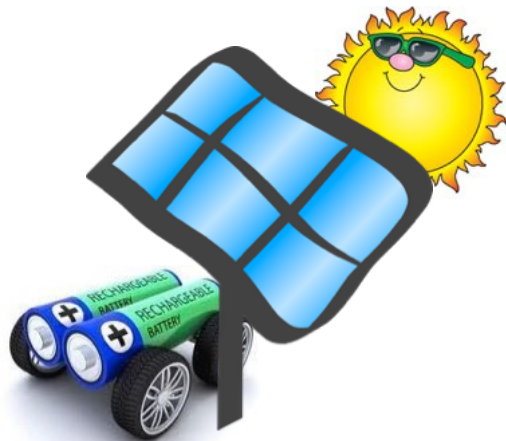
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SMUDTM

Electric Vehicles

Sales Figures as of October 2015



Refuel for Free with a
PV Solar Array

1997-2003
Toyota RAV4-EV
27kWh, NiMH
80-100 miles
1,484 leased
(~200 sold)



1997

1997-1998
Chevy S-10 Electric
16.2kWh, Lead Acid
29kWh, NiMH
45-60 miles (Lead)
80-100 miles (NiMH)
60 sold (432 crushed)



1997

1997-2002
Ford Ranger EV
18.7kWh, Lead Acid
30kWh, NiMH
40-60 miles (Lead)
60-80 miles (NiMH)
1,500 leased (~400 sold)



1997

1998-2002
Nissan Altra EV
32.4kWh, Lithium Ion
90-120 miles
200 leased
Munis & Utilities only



1998

1998-current
GEM Low Speed NEV
passenger & utility
7.2kWh, Lead Gel
30-40 miles
>50,000 world sales



1998



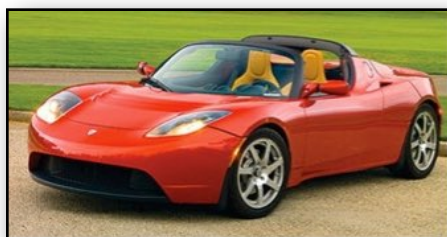
Sales Figures as of October 2015

1999-2003
GM EV-1, GenII
18.7kWh, Lead Acid
26.4kWh, NiMH
80-100 miles (Lead)
100-140 miles (NiMH)
457 leased (crushed)



2000

2008-2012
Tesla Roadster
53 kWh
245 miles
2,600 sold



2008

2008-2011
BMW MiniE
35 kWh Lithium Ion
100 miles
600 leased worldwide



2008

2010-current limited
Think City
24 kWh Lithium Ion
80-90 miles
~2,800 sold worldwide



2010

2010-current
Nissan LEAF
24-31 kWh Lithium Ion
75-105 miles
200,000 sold worldwide



2010



Clean & Domestic Electric Power



Sales Figures as of October 2015



Zero Emissions Protects the Environment

2010-current
Chevrolet Volt PHEV
16.5-18.4 kWh Li Ion
40-55 mi EV (420 total)
100,000 sold worldwide



2010

2011-current
Mitsubishi "i" MiEV
16 kWh Lithium Ion
60-70 miles
50,000 sold worldwide



2011

2011-2014
BMW ActiveE
32 kWh Lithium Ion
95-105 miles
~700 leased in USA



2011

2011-2012
Fisker Karma PHEV
20.1 kWh Lithium Ion
32 miles EV (230 total)
2104 sold worldwide



2011

2011-current
Wheego LiFe
30 kWh LiFePO4
100 miles
<100 sold



2011

Sales Figures as of October 2015



2011-current
 Smart Electric Drive
 17.6 kWh Lithium Ion
 75-85 miles
 16,360 sold worldwide



2011

2012-2013
 CODA (now Mullen700e)
 31 kWh LiFePO4
 105-115 miles
 300 sold worldwide



2012

2012-current
 Tesla Model S & D
 60-90 kWh LiNiCoAlO₂
 220-285 miles
 100,000 sold worldwide



2012

2012-current
 Toyota Prius PHEV
 4.4 kWh Lithium Ion
 10 miles EV (500 total)
 74,250 sold worldwide



2012

2012-2014
 Toyota RAV4-EV GenII
 35 kWh Lithium Ion
 105/140 miles
 2600 sold



2012



The Problem or The Solution
 It's Your Choice



Sales Figures as of October 2015



Drive Green, Drive Clean

2012-current
Ford Focus EV
23 kWh Lithium Ion
75-85 miles
5,360 sold worldwide



2012

2012-current
Ford C-Max Energi
7.5 kWh Lithium Ion
20 miles EV (600 total)
25,100 sold worldwide



2012

2013-2015
Honda Accord PHEV
20 kWh Lithium Ion
10 miles EV (400 total)
1,037 sold



2013

2013-current
Ford Fusion Energi
7.6 kWh Lithium Ion
20 miles EV (600 total)
25,740 sold North Am.



2013

2013-2015
Honda Fit EV
20 kWh Lithium Ion
80-90 miles
300 leased
1,100 lease only



2013



Sales Figures as of October 2015

2013-current
Chevy Spark EV
21 kWh Lithium Ion
75-85 miles
4,000 sold in USA



2013

2013-current
Fiat 500e
24 kWh Lithium Ion
80-90 miles
7,690 sold in USA



2013

2013-current
Toyota Scion IQ EV4
12 kWh Lithium Ion
50 miles
100 to fleet & car share
Japan & USA only



2013

2013-current
Cadillac ELR
17.6 kWh Lithium Ion
35 miles EV (300 total)
2,210 Sales North Am



2013

2013-current
Volvo V-60 Plug-in
11.2 kWh Lithium Ion
30 miles (600 total)
>11,000 Europe Sales
Not available in US



2014



Use the wind for clean power



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Electric Vehicles

Sales Figures as of October 2015



A welcome sight to behold

2013-current
Via VTRUX
24.4 kWh Lithium Ion
35 miles (400 total)
? USA sales



2014

2014-current
BMW i3
22 kWh Lithium Ion
80 - 90 miles
34,100 worldwide sales



2014

2014-current
Porsche Panamera S E
Hybrid
9.4 kWh Lithium Ion
20 miles (600 total)
2,160 worldwide sales



2014

2014-current
Mercedes B-Class
Electric Drive
28 kWh Lithium Ion
90 miles
4,100 Sales worldwide



2014

2014-current
Volkswagen eGolf
24.2 kWh Lithium Ion
80 miles
12,600 worldwide sales



2014



2014-current
 Kia Soul EV
 27 kWh Lithium Ion
 90 miles
 5,700 worldwide sales



2014

2014-2015
 VW XL1 Plugin Hybrid
 5.5 kWh Lithium Ion
 30 miles (310 total)
 250 limited worldwide



2014

2014-current
 BMW i8 Plugin Hybrid
 7.1 kWh Lithium Ion
 18 miles (330 total)
 5,850 worldwide sales



2014

2015-current
 Porsche Cayenne SE PI.
 10.8 kWh Lithium Ion
 15 miles
 3,470 sold worldwide

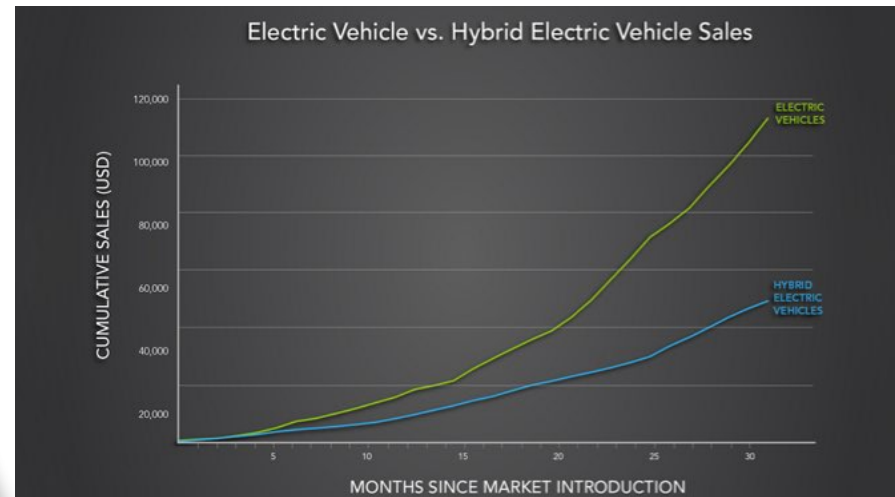


2015

2015-current
 Mercedes S500 PHEV
 8.7 kWh Lithium Ion
 18 miles
 680 sold worldwide



2015



PEVs growing faster than Hybrids in early years



Sales Figures as of October 2015

Top 10 countries by plug-in electric-drive segment in 2013 ⁽¹⁾					
Rank	Country	BEV market share (%) 2013 ^[23]	Rank	Country	PHEV market share (%) 2013 ^[23]
1	Norway	5.75%	1	Netherlands	4.72%
2	Netherlands	0.83%	2	Sweden	0.41%
3	France	0.79%	3	Japan	0.40%
4	Estonia	0.73%	4	Norway	0.34%
5	Iceland	0.69%	5	US	0.31%
6	Japan	0.51%	6	Iceland	0.25%
7	Switzerland	0.39%	7	Finland	0.13%
8	Sweden	0.30%	8	UK	0.05%
9	Denmark	0.28%	9	France	0.05%
10	US	0.28%	10	Switzerland	0.05%

2015-current
Audi A3 e-Tron PHEV
8.8 kWh Lithium Ion
17 miles
9,250 sold worldwide



2015

2014-2015
Porsche 918 Spyder PI,
6.8 kWh Lithium Ion
17 miles
918 sold worldwide



2015

2015-current
Tesla Model X
70-90 kWh Lithium Ion
200-250 miles
10 sold in USA



2015

2015-current
Volvo XC90 PHEV
11.2 kWh
25 miles
5 sold worldwide



2015

2015-current
BMW X5 40e PHEV
9.0 kWh
18 miles
5 sold in USA



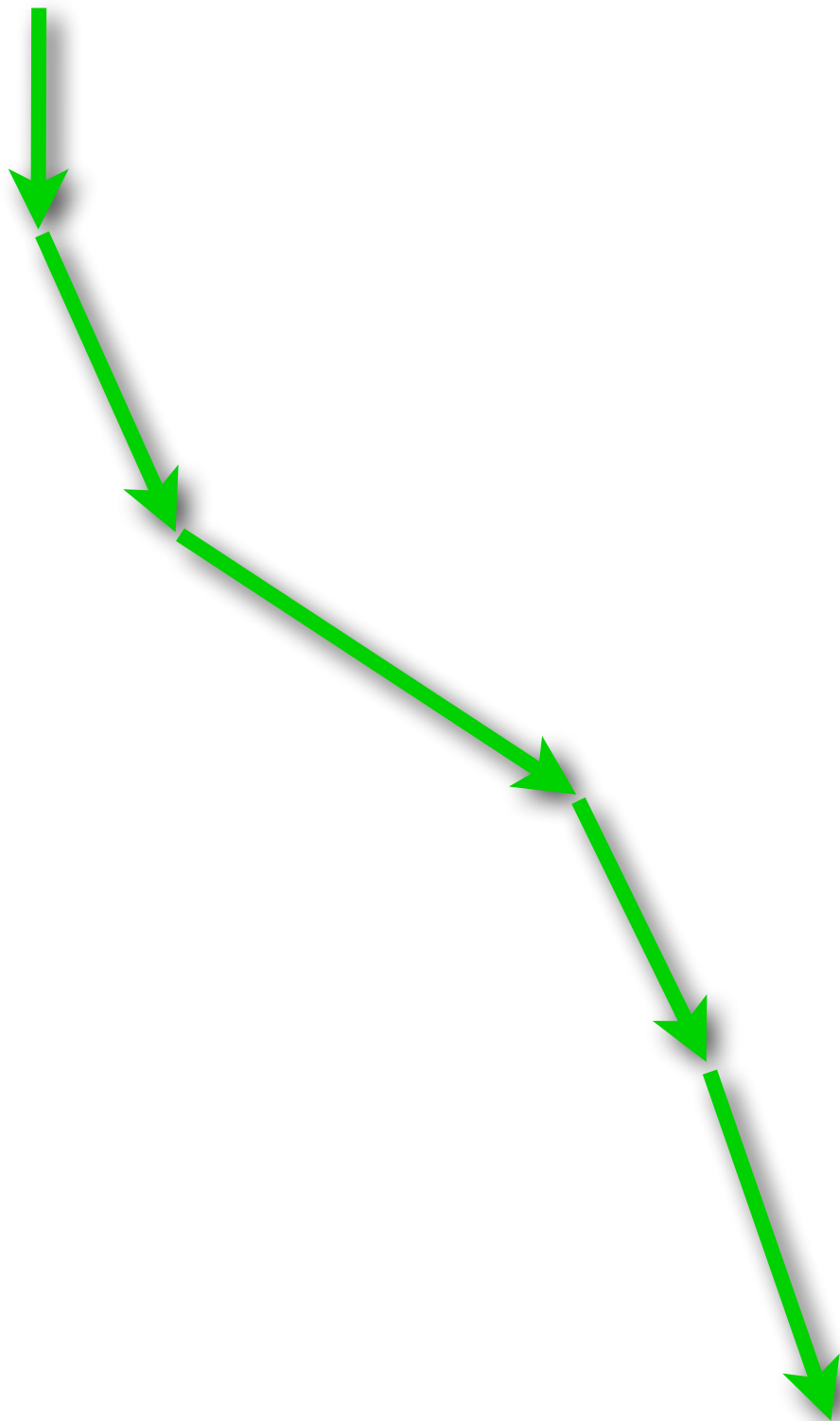
2015



2016-current
Mullen700e
31-50 kWh LiFePO4
110-180 miles
? sold worldwide



2016



Sales Figures as of October 2015