

Model S 60 Purchase Comparison

	Tesla S 60kWh	Acura RLX	BMW 535i
Purchase Price	78,070	55,345	61,125
EVSE	1,000	0	0
Federal incentive	-7,500	0	0
WA sales tax	0	5,258	5,807
Maintenance (annual)	360	652	652
Electricity (annual)	377	0	0
Gasoline (annual)	0	2,246	2,246
12-year total	80,414	95,379	101,708
Battery replacement?	10,000		

Assumptions:

- DOT FHA: Average miles 13,476 per year; average vehicle life 12 years
- Tesla with leather, tech, Supercharger; other cars equipped similarly
- WA gas \$4 per gallon; WA electricity 8 cents per kWh
- Average gasoline car maintenance \$652 per year from Bureau of Labor Statistics
- EPA combined mpg for Acura RLX (24) and BMW 535i (24)
- EPA combined kWh/100 miles for Tesla Model S 60kWh (35)

Notes:

- If gas prices rise as they have historically (or more) you come out much further ahead
- Tesla claims a battery life of 18 years, so it should not need to be replaced.
- If you do replace the battery, the EV will have a MUCH higher resale value than the gas cars



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Model S P85+ Comparison

	Tesla S P85+	Porsche Panamera S	Audi S8
Purchase Price	109,820	103,450	119,695
EVSE	1,000	0	0
Federal incentive	-7,500	0	0
WA sales tax	0	9,828	11,371
Maintenance (annual)	360	652	652
Electricity (annual)	410	0	0
Gasoline (annual)	0	2,837	2,837
12-year total	112,560	155,146	172,934
Battery?	12,000		

Assumptions:

- DOT FHA: Average 13,476 miles per year; average vehicle life 12 years
- Tesla with pano, leather, tech, air, parking; other cars equipped similarly
- WA gas \$4 per gallon; WA electricity 8 cents per kWh
- Average gasoline car maintenance \$652 per year from Bureau of Labor Statistics
- EPA combined mpg for Porsche Panamera S (19) and Audi S8 (19)
- EPA combined kWh/100 miles for Tesla Model S P85+ (38)

Notes:

- If gas prices rise as they have historically (or more) you come out much further ahead
- Tesla claims the battery life of 18 years, so it should not need to be replaced
- If you do replace the battery, the EV would have MUCH higher resale value than the gas cars

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Chevy Volt Purchase Comparison

	Chevrolet Volt	Honda Civic EX	VW Jetta SEL
Purchase Price	34,995	21,605	23,690
Federal incentive	-7,500	0	0
WA sales tax	3,325	2,052	2,251
Maintenance (annual)	652	652	652
Electricity (annual)	252	0	0
Gasoline (annual)	486	1,685	2,073
12-year total	47,495	51,695	58,644

Assumptions:

- DOT FHA: Average 13,476 miles per year; average vehicle life 12 years
- Comparably sized and equipped vehicles (based on base Chevrolet Volt)
- WA gas \$4 per gallon; WA electricity 8 cents per kWh
- Average gasoline car maintenance \$652 per year from Bureau of Labor Statistics
- EPA combined mpg for Honda Civic EX (32) and VW Jetta SEL (26)
- EPA combined kWh/100 miles for Volt (35) and combined mpg (37)
- Volt assumed to drive 2/3 of miles on electricity (rough average for existing owners)

Notes:

- The Volt should not need a battery replacement as GM built in a large buffer



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Ford Focus Purchase Comparison

	Ford Focus EV	Focus Titanium	Honda Insight EX
Purchase Price	34,194	24,910	22,855
EVSE	1,000	0	0
Federal incentive	-7,500	0	0
WA sales tax	0	2,366	2,171
Maintenance (annual)	360	652	652
Electricity (annual)	345	0	0
Gasoline (annual)	0	1,739	1,283
12-year total	36,154	55,968	48,246
Battery replacement	7,000?		

Assumptions:

- DOT FHA: Average 13,476 miles per year; average vehicle life 12 years
- Comparably sized and equipped vehicles (based on Ford Focus EV)
- WA gas \$4 per gallon; WA electricity 8 cents per kWh
- Average gasoline car maintenance \$652 per year from Bureau of Labor Statistics
- EPA combined mpg for Ford Focus (31) and Honda Insight (42)
- EPA combined kWh/100 miles for Focus EV (32)

Notes:

- The savings will be more than enough to buy a new battery even if gas prices do not rise
- If gas prices rise as they have historically (or more) you come out much further ahead
- After buying a new battery, the EV will have much higher resale value than the gas cars



Nissan Leaf Purchase Comparison

	Nissan Leaf SV	Toyota Matrix S	Toyota Prius Four
Purchase Price	34,300	22,265	29,245
EVSE	1,000	0	0
Federal incentive	-7,500	0	0
WA sales tax	0	2,115	2,778
Maintenance (annual)	360	652	652
Electricity (annual)	313	0	0
Gasoline (annual)	0	2,246	1,078
12-year total	35,872	59,156	52,784
Battery replacement	7,000?		

Assumptions:

- DOT FHA: Average 13,476 miles per year; average vehicle life 12 years
- Comparably sized and equipped vehicles (based on Nissan Leaf SV with quick-charge)
- WA gas \$4 per gallon; WA electricity 8 cents per kWh
- Average gasoline car maintenance \$652 per year from Bureau of Labor Statistics
- EPA combined mpg for Matrix S FWD (24) and Prius Four (50)
- EPA combined kWh/100 miles for Leaf SV (29)

Notes:

- The savings will be more than enough to buy a new battery even if gas prices do not rise
- If gas prices rise as they have historically (or more) you come out much further ahead
- After buying a new battery, the EV will have much higher resale value than the gas cars



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Nissan Leaf Lease Comparison

	Nissan Leaf SV	Nissan Juke SV
Down payment	\$1999	\$1999
Lease	\$249	\$253
Fuel	\$23	\$138
Maintenance	\$30	\$54
Monthly Total	\$302	\$445

Assumptions:

- 3-year lease with 12,000 miles per year from Nissanusa.com
- Comparably sized vehicle equipped similar to the Nissan Leaf SV trim
- The Leaf lease is less than the Juke because Nissan gets the \$7,500 federal tax credit
- WA gas \$4 per gallon; WA electricity 8 cents per kWh
- EPA combined mpg for Juke (29), EPA combined kWh/100 miles for Leaf SV (29)
- Average gasoline car maintenance (tires, oil, brakes, wiper blades, etc) of \$652 per year from Bureau of Labor Statistics



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