

Vashon Electric Vehicles

<http://ev.islandgreentech.org>

The Vashon Electric Vehicles group is a new island advocate for EV infrastructure, road usage advocacy, EV conversions and island-sized EV product development.

Interested in driving an electric vehicle (EV)?

Electric Vehicles do not need:*

Gasoline	Oil changes	Tune-ups	Spark plugs	Valve adjustments
Fuel filters	Air filters	Oil filters	Fan belts	Timing belts
Water pumps	Fuel pumps	Mufflers	Smog certificates	

And if the car has regenerative braking it almost never needs new brake pads.

(* Edited version of a list in "Convert It" by Michael P. Brown & Shari Prange)

More good news about electric cars

Most of the energy in gasoline burned as car fuel goes off as waste heat. This is why gas cars have radiators. A car that gets 20 miles/gallon uses over 1.6 kW-hours of energy per mile. An EV uses less than a quarter of that. The 20 mpg car produces 1 pound of CO₂ per mile and the electric car, if using electricity from the local grid, is responsible for about 0.4 pound (See note). If a solar PV array is involved, either on or off the grid, there could be **no** CO₂ produced.

Electric cars on islands

The not-so-good news about an EV is that its battery pack typically carries only enough energy to drive 30 to 50 miles before it needs to be recharged. On an island this is usually not an issue -- distances are short; just plug it in when you return home. Also, driving at high speed consumes energy at a high rate but that too is not an issue on Vashon -- no freeways. And since gasoline costs more on the Island, economics favor vehicles that do not need it.

Note: Page 7 of the Puget Sound Energy "Customer Handbook for Climate Change" shows CO₂ generation at about 1 lb per kW-hour. An EV that requires 400 watt hours/mile to recharge would be responsible for CO₂ going into the atmosphere at the rate of 0.4 lbs per mile

Questions

- 1) What is your level of interest in EVs? Mild <_____>Strong
- 2) Would the availability of reserved "Electric Vehicle Only" parking places at locations like the north end ferry dock, Park and Ride lots and/or shopping areas make EV ownership more interesting to you? Y/N___
- 3) Would you like to make contact with an EV owner to discuss your interests and concerns? Y/N ___

Name _____

Contact information _____

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Vashon EV Owner Questionnaire

Name _____

Vehicle(s) _____ including electric bicycles

1) Is your EV your sole means of transportation? Y/N_____. How many different personal vehicles do you use in a typical month, including bicycles, for your personal (non-business) needs? _____ vehicles.

2) Where do you recharge your EV(s)? Home____ Other (where) _____

3) Do you drive it off-island? Y/N ____ where_____. How many one way miles _____

4) What is your typical trip before charging, both a short "opportunity" charge _____ miles and an extended charge _____ miles?

5) What is the longest trip you've taken in your EV before a recharge? _____ miles

6) Would the availability of reserved "Electric Vehicle Only" parking places at locations like the north end ferry dock, Park and Ride lots and/or shopping areas be supported by you if tax money paid for the installations? Y/N____. If a business installed a charging station, would that increase your trade with that business? Y/N_____.

7) Would the capability of recharging while parked in these EV-Only spaces change the way you use your EV? Y/N ____

8) Would the capability of recharging while parked in EV-Only spaces change the way you use your EV to your workplace, COSTCO, Downtown Seattle, Renton, Burien, _____, _____, _____, _____,

If Yes, explain _____

9) Do you know other EV owners on the Island who should be contacted for their ideas?

Name 1 _____

Name 2 _____

Name 3 _____