

Our RAV4 EV Brochure

Welcome to the web version of our RAV4 EV brochure. If you have questions or comments feel free to [contact me](#).

To download pdf softcopies of this trifold brochure use these links for the [front page](#) and the [back page](#).



WARNING: Electric cars are too reliable.

EVs have 1/10th as many moving parts as a standard car—NO combustion engine, transmission, plugs, valves, belts, fuel tank, distributor, starter, clutch, muffler—reducing the the car industry's #1 source of profit: service and repair!

What is an EV?

Specifications:

Weight: 3,507 lbs.
 Distribution F/R: 52/48%
 Dimensions: 156" x 67" x 65"
 Regenerative braking
 Maximum grade: 30.2%
 Maximum range: 120 mi
 Top Speed: 79 mph (governed)
 Battery type: Nickel-Metal Hydride
 Battery capacity: 27 kWh
 Charger: 5 kW inductive
 System voltage: 288 V



Electric car information:

www.eaaev.org
www.acpropulsion.com

Links about the RAV4-EV:

autos.groups.yahoo.com/group/RAV4_EV
ev.inel.gov/fop/rav.html
www.jeffchan.com/cars/rav4-ev.html
rav4ev.toyota.com

Our website for Pittsburgh action:

www.cs.cmu.edu/~illah/evpgh/

EV stands for electric vehicle. This car is a BEV, or battery powered electric vehicle. High performance batteries store electricity, and an electric motor provides propulsion with zero emissions. The automobile industry says pure electric vehicles are impractical...

FAQ's

How many miles can an electric vehicle run?

The RAV4 has a maximum range of 120 miles.
Can you use one for daily shopping or commuting?
Zero your odometer and find out today.

Can electric cars handle winters?

NiMH batteries remain strong in cold weather.
This car has already tackled 10" snow and -13°C.
Antilock brakes, heated seats, cabin climate control,
heated windshield and rearview window make
winter driving comfortable and energy efficient.

Aren't hybrids a better alternative?

Hybrid pros:

- Far less emissions than standard cars
- Somewhat better mileage than standard cars
- Driving range exceeds battery powered EVs

Hybrid cons:

- Still dependent on Big Oil and fuel stations
- 2.5x less efficient than BEVs
- 10x more moving parts to repair
- 100x more emissions than BEVs, even including upstream energy production

Are electric cars expensive to recharge?

- RAV4 gasoline cost: \$0.06/mi (\$1.40/gallon)
- RAV4-EV power cost: \$0.03/mi (\$0.09/kWh)
- RAV4-EV total recharging cost: \$2.60

Aren't electric cars inefficient with hidden pollution costs?

Battery EVs are the most efficient vehicles on the road:

- Toyota RAV4-EV:	887 BTU/mi
- Nissan Altra EV:	989 BTU/mi
- Toyota Prius (hybrid):	2250 BTU/mi
- Toyota Camry:	4107 BTU/mi
- Toyota RAV4 (gasoline):	4423 BTU/mi
- Chrysler minivan:	6052 BTU/mi

The RAV4-EV is rated at 112 MPG equivalent. Measured in California, including upstream power emissions, EVs produce less than 1% of the emissions of the cleanest gas cars.

Hydrogen fuel cell vehicles are 4x less efficient than BEV's if the hydrogen is produced from electricity. 1.4x less efficient from natural gas.

What Can I Do

Dream...

Imagine an electric Pittsburgh.
Less noise pollution makes our neighborhoods more quiet.
Less air pollution lets all of us breathe easier.

Fight the Myths

You will hear the press and car industry pundits dispute the practicality of electricity. Look into their version of the facts; set the record straight.

Choose Your Energy Source

In Pennsylvania, we have the privilege of choice. Choose a green power source such as wind and enjoy a zero-emission home.

Go Electric

Put your purchasing power where your heart is.
With some effort you can find an electric car, or convert a car to pure electric.
www.eaaev.org/eaeevsforsale.html

Get Involved

Do you want to help make the case for Pittsburgh to legislate for electric vehicles?
Send me a note and I will keep you in the loop. <illah@ri.cmu.edu>

[See back page for more](#)

[[The Robotics Institute](#) | [Carnegie Mellon University](#)]

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