So what's an electric car, really?

High performance batteries store electricity, and an electric motor provides propulsion with zero emissions.

Sounds great! Can I get one?

The automakers produced great electric cars to meet California's Zero Emission Vehicle Mandate. Thousands of people have driven the cars and want to buy one. But industry spent millions lobbying in Sacramento, sued in federal court and successfully eviscerated the mandate.

Now Toyota, GM, and Honda are confiscating and destroying thousands of electric cars, despite offers of cash from satisfied customers. Only a small number of electric cars were ever offered for sale in California. They sold out quickly.

The automakers won't even sell you the electric cars they've already made. They are crushing them instead. They only sell gas cars. Makes you wonder.

Electric cars are very reliable. No oil changes, no tune ups. EVs have fewer than 1/10th as many parts as a gas car. No engine, transmission, spark plugs, valves, fuel tank, distributor, starter, clutch, muffler or catalytic converter.

Electric car resources:

Electric Auto Assn
eaaev.org

DontCrush.com

Gas-Optional Hybrid Project
priusplus.com

EV World Magazine
evworld.com

AC Propulsion
acpropulsion.com

http://www.fueleconomy.gov/feg/noframes/17328.shtml

Electric Auto Association ®
eaaev.org

Why Electric Cars?

No engine.
No gas tank.
No tailpipe.
No emissions.
No noise.
No kidding!

RAV4 EV Specifications

Range 80 - 125 miles

Top Speed 80 mph (governed)

Weight 3480 pounds

Motor 20kW perm. magnet

Batteries 24 12-volt NiMH

Voltage 288-volt system

Charger 220 volts/30 amp;
5kW inductive

Battery Capacity: 25.9kWh

• How many miles can the RAV4 EV go between charges?

The RAV4 EV has a maximum range of about 125 miles on one full charge. But you can add charge anytime. You can charge up at many Costcos. And it's free.

• How fast does it recharge?

Less than a good night's sleep. It charges about 20% per hour.

FAQ

• Where do you charge?

Usually in one's garage overnight, but there are public chargers as well. (www.evchargernews.com)

• Is it expensive to charge?

A buck or two to fill up.

• Aren't electric cars inefficient?

Battery EVs are the most efficient cars on the road:
Toyota RAV4 EV: 887 BTU/mile
Toyota Prius: 2250 BTU/mile
Toyota RAV4 Gas: 4423 BTU/mile
RAV4 EV rated 112 MPG equivalent.

• Aren't hybrids a better alternative?

Pros: • Lower emissions than most gasoline cars. • Somewhat better gasoline mileage. • Longer range than pure battery electric.
Cons: • Gasoline only. Can't plug in. • Still dependent on oil companies and foreign despots. • Not zero emissions.

> ### Plug-in hybrids offer the best of both worlds!

• Isn't hydrogen a solution?

No. Hydrogen fuel cell cars cost one million dollars each and they are 4X less efficient than battery EVs if the hydrogen is produced from electricity.
1.4X less efficient from natural gas. Where and how will the hydrogen be stored? Who will pay for this new infrastructure? (Us taxpayers?)

FAQ

• What about the pollution created making the electricity? Aren't you just moving the pollution?

No. Even using coal, emissions are lower with EVs. And moving the pollution away from population centers is a good thing. But there's more. Utilities have plenty of spare generating capacity at night, which could charge millions of EVs. And while we can clean the grid and increase renewables like wind and solar, even the cleanest gasoline car becomes ever more polluting. An electric car never creates emissions. It just gets cleaner as the grid get cleaner.

> PV/EV: Solar on your roof and an EV gives you true zero emissions driving. Exactly what we need.

What can I do?

Say no to oil! Tell the automakers and dealers you won't buy another new car until you can buy an electric or plug-in hybrid car. Buy an electric scooter or bike. Buy a CNG car. Buy a diesel and use biodiesel. Take public transit (lots of electric!). Bike. Walk.

Buy or make an electric conversion.

Put solar (photovoltaics) on your roof.

Join the Electric Auto Association.