FCEV Uses 4 Times More Energy than EV — US EPA

2003 Honda FCX	
Miles per kilogram of hydrogen **51** city **48** hwy Annual Fuel Cost: **$1515***	
EPA Air Pollution Score	Best 10 (0 – 10)
Range	170 miles
Fuel	Hydrogen
Fuel Cell	Polymer Electrolyte Membrane
Motor	60 kW DC
Energy Storage Device	Ultracapacitor
*Annual fuel cost is estimated assuming 15000 miles of travel per year (55% city and 45% highway) and a fuel cost of $5.05 per kilogram of gaseous hydrogen.	

Honda FCX FCEV

EPA rating:
50 mi/kg H2

Energy to make H2
60 kWh/kg

Energy use per mile:

1.2 kWh/mi

2003 Toyota RAV4 EV

Electric Vehicle

Possible Tax Incentives

Use your Gas Prices | Switch to Metric units

Fuel Economy	
Fuel Type	Electricity
Energy Consumption(city) (kW-hrs/100 miles)	**27**
Energy Consumption(hwy) (kW-hrs/100 miles)	**34**
MPG (city)	**125**
MPG (highway)	**100**
MPG (combined)	**112**
Annual Fuel Cost	**$362**

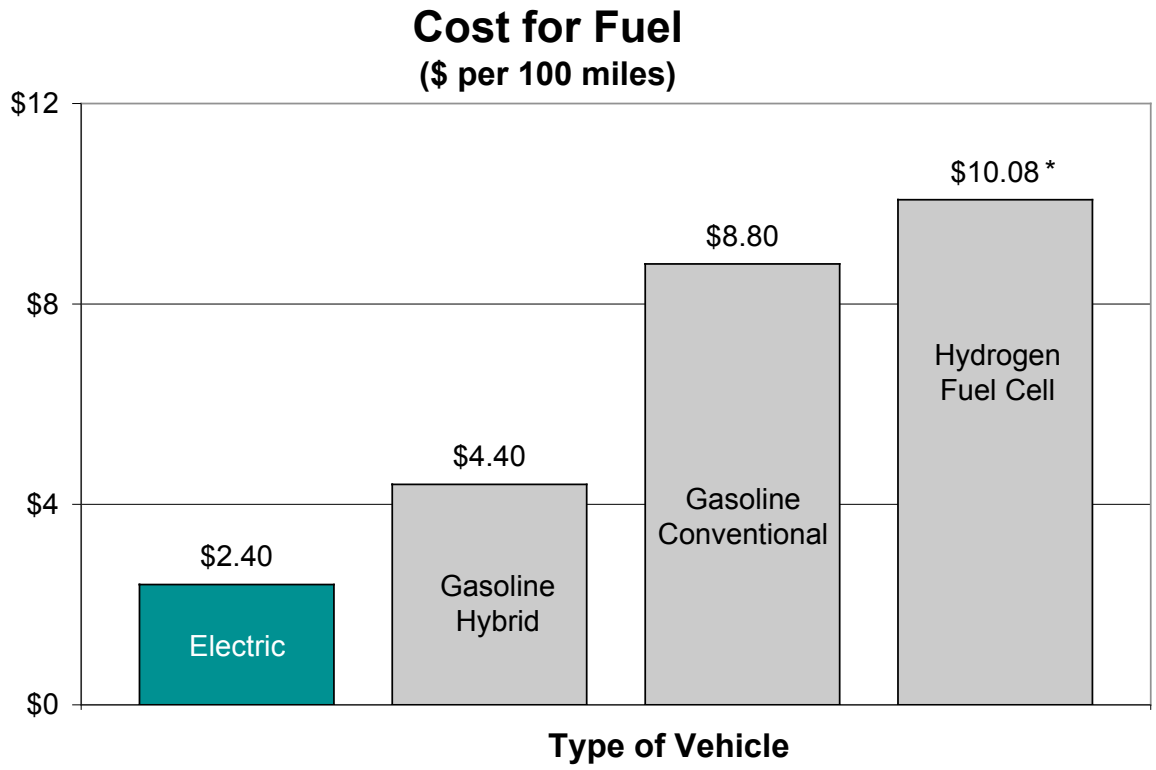
Toyota RAV 4 EV

EPA rating:
30 kWh/100 miles

Energy use per mile:

0.3 kWh/mi

Lower Energy Use Means Lower Fuel Costs



Assumptions:

Electric - 3.3 mi/kWh, $0.10/kWh

Hybrid - 50 mpg, $2.20/gal

Conventional - 25 mpg, $2.20/gal

Hydrogen - 50 mi/kg, 63 kWh/kg for H2 electrolysis+compression (based on Stuart Energy data), $0.08/kWh

* cost of electricity only, does not include infrastructure costs