

Plugging In – one family's experiences

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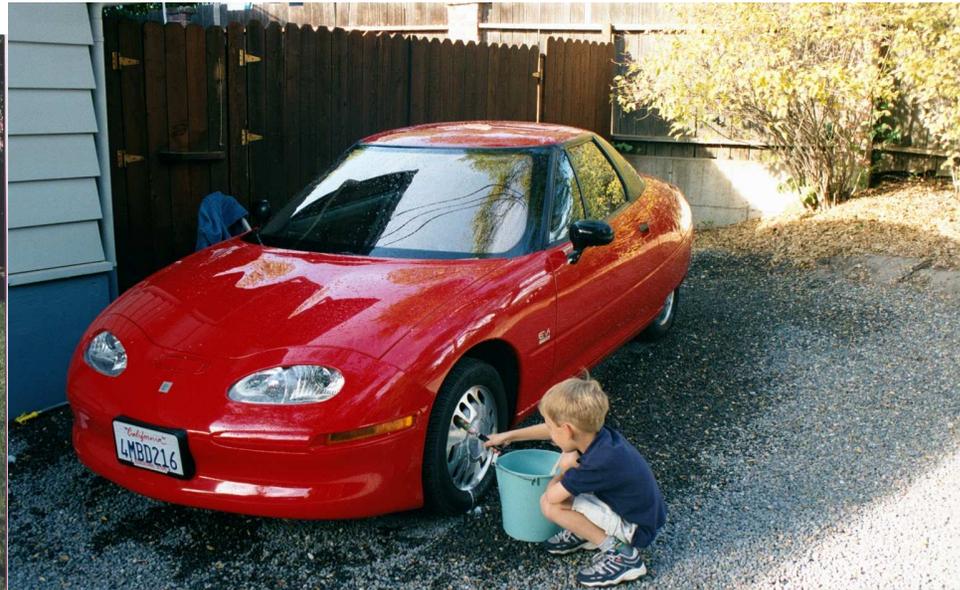
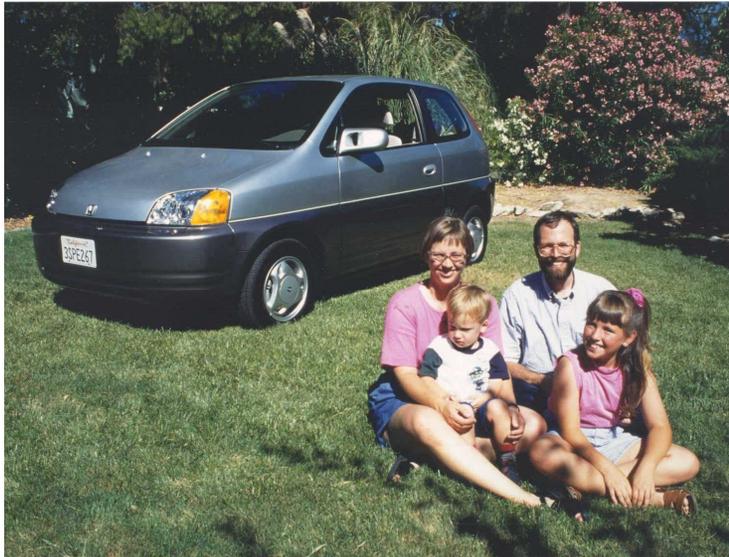
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An overview

- We're a typical family: Mom, Dad, two children and a cat.
- We live in a ranch style house built in 1960, ~ 2200 sq. ft. located in the greater Sacramento area.
- Mom's a CPA, Dad is an engineer.
- We started with a Honda EV Plus in May 1997.

Hastrup Family EV's along the way:



1996 – “before EV’s”

- 1994 Volvo 850 wagon
 - 10250 miles, 458.5 gal. of gas, 22.3 mpg, 38 fill ups
- 1996 Saab 900 Sedan
 - 10984 miles, 428.0 gal. of gas, 25.7 mpg, 38 fill ups
- Total household energy usage:
 - 6339 KWh (\$753.07)
 - 414 Therms of natural gas (\$229.57)
 - 886.5 gallons of gasoline (\$1166.24)
 - 76 trips to the gas station



2005 – plugged in

- 2002 silver RAV4EV
 - 8248 miles, 2499 KWh
- 2002 white RAV4EV
 - 9103 miles, 2758 KWh
- 2004 Prius hybrid sedan
 - 4517 miles, 93.3 gal. of gas, 48.4 mpg, 17 fill ups

Christine took her driver's test in the RAV4EV!

2005 – plugged in con't

- Household energy summary:
 - PV generation: 4787.7 KWh
 - 5431.5 KWh house usage
 - 2617.0 KWh home EV charging
 - ~ 2641 KWh public and office EV charging
 - (Total EV energy usage = 5258 KWh)
 - Total electricity bill for 2005 = \$298.13
 - 203 Therms of natural gas (\$250.54)
 - 93.3 gallons of gas (\$219.12)
 - 17 trips to the gas station

Hastrup Family	1996	compared to	2005
total miles driven	21232		21868
total gallons	886.49		93.26
miles driven per gallon purchased	24.0		234.5
gasoline cost	\$ 1,166.24		\$ 219.12
\$/gallon	\$ 1.32		\$ 2.35
Fill ups	76		17
time at gas stations (hrs)	9	We save 7 hrs per year	2
PV generation (KWh)	0		4787.7
House usage	6339.0		5431.5
House usage cost	\$ 753.07		\$ 54.55
EV usage (KWh)	0		5258.0
EV home charge (KWh)	0		2617.0
EV public charge (KWh)	0		2641.0
EV charge cost	\$ -		\$ 243.58
Total Elec & gas \$	\$ 1,919.31		\$ 517.25
adjusted for inflation	\$ 2,460.78		

Savings in 2005 dollars: **\$ 1,943.53**
 Pure EV driving: 79.3% of miles driven

We make >90% of the energy our EV's use

Summary

- Plugging in is great. We make no sacrifices!
- We save time by not going to the gas station as often. It's like an extra day of vacation each year!
- We generate a significant portion of our own energy (almost as many KWh/year as our EV's use).

Summary con't

- We've significantly reduced our exposure to future energy price increases, and helped our country increase its energy independence.
- Our RAV4EV's are the first cars we've ever owned that have appreciated in value.
- We're not unique! Most folks we've talked to would love to join us plugging in.