



FREEDOM FORMULA FOUNDATION

### THE MISSION

If you think it's unwise for the U.S. to pay \$600 Billion each year to import oil then you already agree with Freedom Formula Foundation's mission. We can end this devastating transfer of wealth by using cheap domestically produced

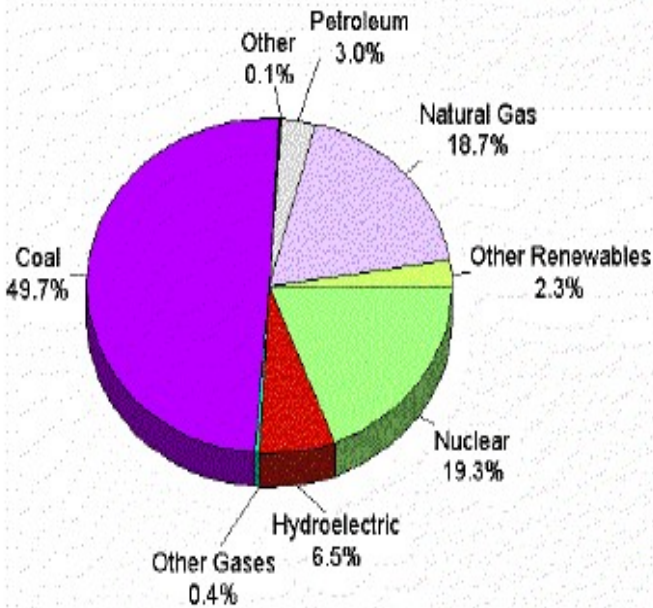


Figure 1 – U.S. electric generator fuels

electricity to run our vehicles. Figure 1 shows that only 3% of the fuels used to produce electricity in the U.S. are made from oil. But more important is, modern (70% efficient) electric generating plants only use ONE FOURTH as much fuel as a typical (15% efficient) car engine even after distribution losses are factored in.

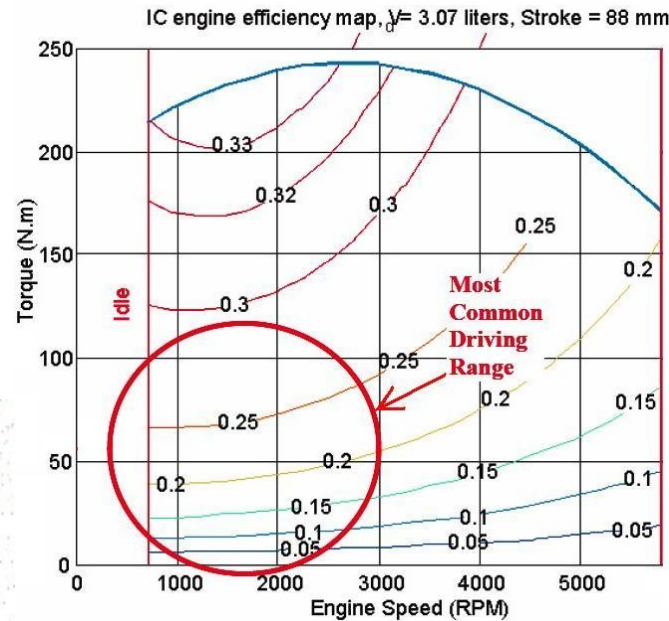


Figure 2 - Internal combustion efficiency

Since electric vehicles (or EVs) offered such advantages, U.S. auto companies began producing them in the late 1990s using California as the first test market. EV owners found their “fuel” cost was about 1 cent per mile while the average car would cost about 5 cents per mile (15 cents today). This verifies that the EV's energy efficiency is about 400% better.

So what does this mean for us?

1. The EV equivalent to a conventional 25 MPG car would get 100 MPG even if the electricity is generated by fossil fuel.



1998 Saturn EV-1 Electric Vehicle (EV)

	Country	(million barrels / day)
1)	<i>Saudi Arabia</i>	11.1
2)	Russia	9.5
3)	<b>United States</b>	<b>8.2</b>
4)	<i>Iran</i>	4.2
5)	Mexico	3.8
6)	China	3.8
7)	Canada	3.1
8)	Norway	3.0
9)	<i>U.A.E.</i>	2.8
10)	<i>Venezuela</i>	2.8
11)	<i>Kuwait</i>	2.7
12)	<i>Nigeria</i>	2.6
13)	<i>Algeria</i>	2.1
14)	Brazil	2.0

\* All countries over 2 million barrels / day

2. If a car produces 200 lbs of pollutants per week, the electric plant can power your EV while only producing 50 lbs.

3. Current U.S. petroleum consumption (400 million gallons / day) could be cut to 100 million gallons or 75% less CO2!!!

4. And best of all; instead of importing 200 million gallons/day we would import

only ZERO gallons, because 40% of our petroleum is produced from domestic sources. So, deploying EV technology would make the U.S. an oil EXPORTER!!!

## THE ENVIRONMENT

Reducing consumption of vehicle fuels by 75% serves every environmental cause on the planet, but, environmental groups like the Sierra Club, don't like switching to Electric Power because so much coal is currently used. If there is no agreement on how to generate the additional electric power for EVs, how could anyone argue with this: *"Burn the gasoline now consumed by cars at the power plant"* and reduce consumption and all associated emissions by 75%!

Electricity is the ultimate ALTERNATIVE FUEL because it is not an energy source, it IS THE ENERGY, and as such can be made from various energy producing processes. So as our technology, public policy, and fuel costs change, the coal can be replaced with GREEN FUELS. But without EVs how can we run our vehicles on non-fossil fuels like wind, solar, hydroelectric, or nuclear power?!? Think about it.

## THE FUTURE

In 1912 about 1/4th of the automobiles in America were Electrics but due to the

batteries' weight and inconvenience gasoline vehicles eventually prevailed.

Batteries are still the major reason EVs are heavy, inconvenient and expensive, but the Plug-In Hybrid-Electric Vehicle (or PHEV) is changing all that. Both EVs and PHEVs are recharged from standard wall outlets, but with 75% less battery capacity a PHEV weighs and costs much less, and makes up for the shorter range by adding an on-board generator. So a PHEV like the Chevy Volt prototype can go 30 to 40 miles on battery power alone, but gets 50MPG when powered by the on-board generator.

Now, THAT'S a Win-Win Alternative !!!



The 2010 (???) Chevy Volt Series Hybrid

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Top World Oil Net Exporters, 2005\*  
(OPEC members in italics)

	Country	(million barrels/day)
1)	<i>Saudi Arabia</i>	9.1
2)	Russia	6.7
3)	Norway	2.7
4)	<i>Iran</i>	2.6
5)	<i>United Arab Emirates</i>	2.4
6)	<i>Nigeria</i>	2.3
7)	<i>Kuwait</i>	2.3
8)	<i>Venezuela</i>	2.2
9)	<i>Algeria</i>	1.8
10)	Mexico	1.7
11)	<i>Libya</i>	1.5
12)	<i>Iraq</i>	1.3
13)	Angola	1.2
14)	Kazakhstan	1.1
15)	<i>Qatar</i>	1.0

\* All countries over 1 million barrels / day