

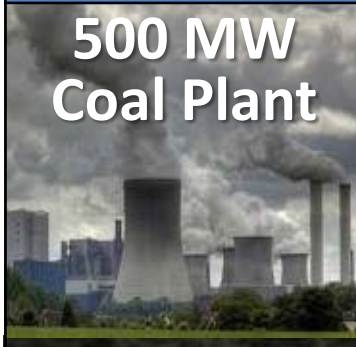
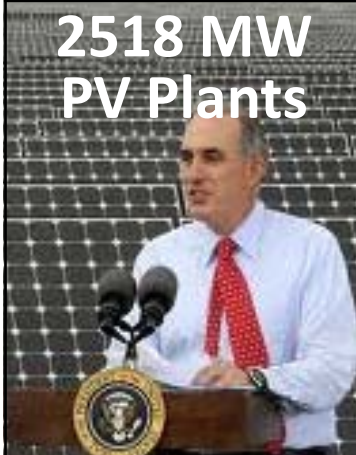
Florida's Energy Costs

- Florida imports almost all of its energy resources
 - Electric Power \$27 billion
 - Gasoline \$30 billion
 - \$57 billion**
- How can Florida reduce its energy import costs?
- Can Florida's energy plants be manufactured in Florida?



Job-Years per MW

- PV: 23 Wind: 8 Nuclear: 4 Natural gas: 3 Coal: 0.5

	Installed date	Capacity Factor	Electricity Production	Cost per MWh (2015)	Job-Years
 <p>500 MW Coal Plant</p>	~2018	0.80	3.5 TWh	\$65-\$150	250
 <p>2518 MW PV Plants</p>	~2015	0.17	3.5 TWh	\$105 - \$115	57,900 ½ manufacturing; ½ installation

“Game Changers” The New Electric Cars

- 26% of Florida vehicles are small cars
- **If all small cars electric**
 - 1.8 billion gallons of gasoline saved per year
 - \$3.2 billion net cost savings per year
 - 15 TWh (billion kWh) additional power needs per year (4 MORE POWER PLANTS)!





Nissan Leaf (all electric)



Chevy Volt (plug-in hybrids)

Florida Photovoltaic Power is Equivalent to \$1.85 Per Gallon Gasoline

	Fuel Efficiency	Fuel Price	Cost per Mile	Cost per 12,000 Miles
 <p>Gasoline Small Car</p>	33 mpg	\$3.50 per gal	10.6¢ per mile	\$1,272
 <p>Electric Car</p>	3 miles per kWh	16.8 ¢/kWh (\$1.85 per gal equiv.)	5.6¢ per mile	\$672