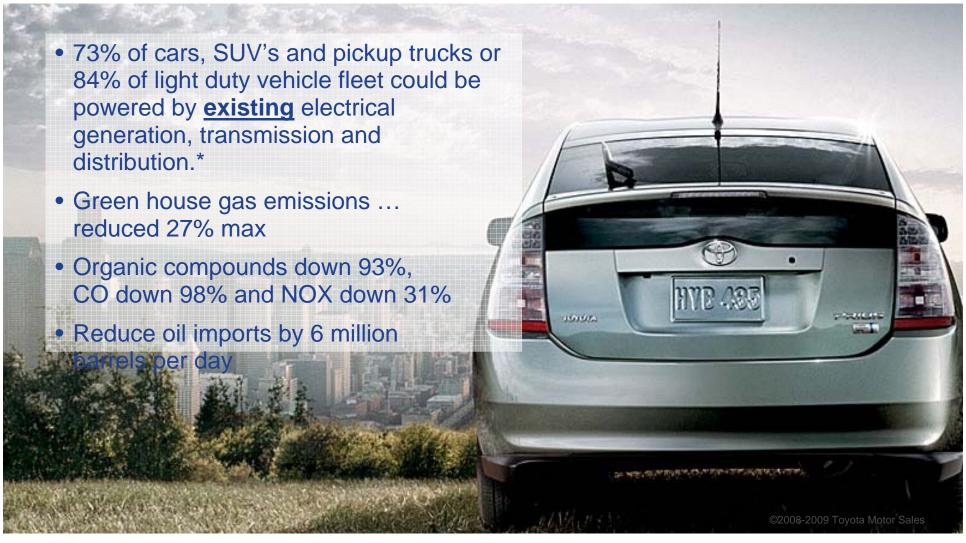
GE Energy

Molding The Future Electric Utility Mark S. Dudzinski February 2009

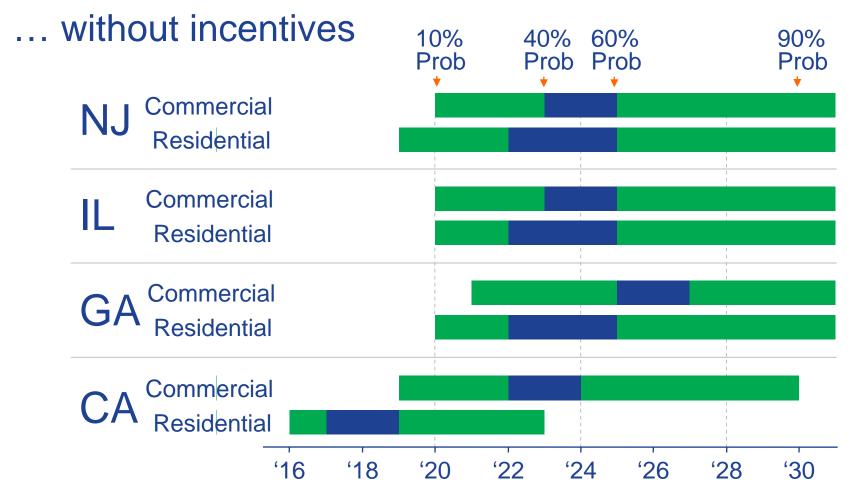


The EV/PHEV is coming





PV grid parity is coming

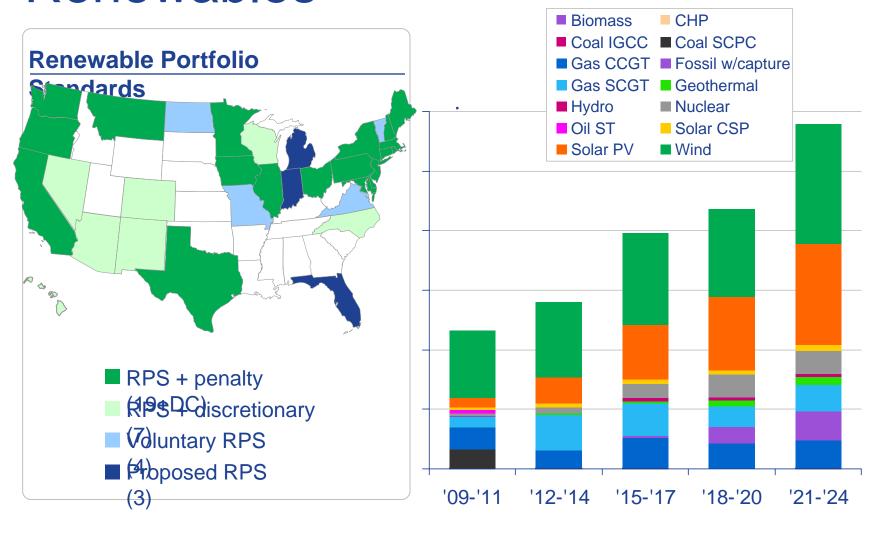


10-25% IRR's today in AZ, CT, HI, MA, NJ, & OR with



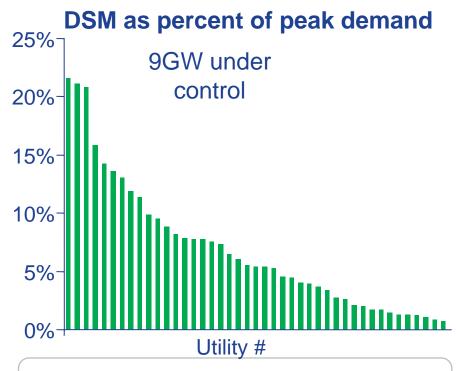


Renewables





Demand side management

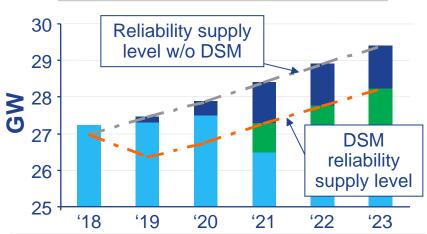


If all utilities performed on top

- 75,000 MW of generation would be avoided
- 168,600,000 tons of CO2 emission / year would be avoided

Value of peak reduction – generation example





Potential Savings	NPV
Generation avoidance	\$1,200MM
T&D deferment (2 yrs)	\$50MM
Energy reduction	\$130MM



Policy implications

Help utilities deal with the inevitable

- Incentivize inevitable
 Smart Grid functions
 - Time use of metering
 - Distribution management system
 - New and more protection
 - Volt/VAR management

Be the custodian of good electric policy

- Demand side management
- Long term plan



Focus on consumer - society benefits

- Lower cost to charge EV/PHEV at night
- Net metering with easy interconnect standards
- Consumer empowerment

Energy efficiency reduce T&D losses by 20%