aine Conservation Voters ning for the "Environment" Portiland, ME
October 28, 2010

Jon Wellinghoff Chairman
Federal Energy Regulator Commission

Estimated U.S. Energy Use in 2009: ~94.6 Quads


 8)








## Total Installed Generation Capacity



Coal
Natural Gas
Nuclear
Oil
Water
Wind
Biomass
Geothermal Stea
Solar
Waste Heat
Other


## Switching

## Gas - Coal Generator Spread (\$/MWh)





## Utility Today?



## Technologies that Will Impact T\&D Systems Over the Next Decade




TECHNOLOGY. LETS GO.
LETS FIGURE OUT A WAY TO CHARE FOR SUNSHE?

## Clean Energy Generation are Job Creation Engines

## Direct and indirect jobs created per \$1M








Demand Resposnse \% UCAP


## rid Benetits of Demand Response

- PJM Study

Shows that a 3\%
Reduction in demand of Top 20 Five-hour Blocks in 5 MidAtlantic States Could Save \$280 Million per Year

The Brattle
Group Estimates
that a $5 \%$
Reduction in
Grid Peak Load
Can Result in \$3 Billion Savings
Annually, for PV Over 20 Years of


## Nation's Freedom from Oil




## Regulation Supply (incidental charging)



## CaSnOtCK Car



## Thank you!

