Demand Response and Advanced Metering

Update on Policy Developments

Dan Delurey
Demand Response and Advanced Metering Coalition (DRAM)

November 8, 2007
DRAM Members

- Cellnet+Hunt
- Comverge
- Echelon
- EKA Systems
- Elster Electricity
- eMeter
- EnergySolve
- EnerNOC
- ESCO Technologies
- Ice Energy
- Itron
- Landis + Gyr
- Orion Energy Systems
- Sensus Metering
- Silver Spring Networks
- SmartSynch
- Trilliant Networks
DR Policy

- PURPA 1978
- Load Control
- Restructuring
- FERC directives to ISOs/RTOs
- RTP for large customers
- Competitive metering
- Default service pricing
- System benefit funding
- Mega-mandates (CA, Ontario)
- Portfolio standards
- EPACT 2005
EPACT 2005 – Smart Metering

- More than the name implied
- Four main provisions,
  - It is the policy of the U.S. ........
  - DOE Report to Congress
  - FERC Report to Congress
  - New PURPA Requirement
    - States and other jurisdictional bodies must investigate whether or not to provide time-based pricing and advanced metering
    - Flexible compliance
    - All Sectors covered
    - Decide by August 2007
# State Decisions on EPACT 1252

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EPACT – Seeing the Forest instead of the Trees

- Everyone has been not only made aware but educated
- DR and AMI high on the NARUC agenda
- States that have issued a “technical No” have made other moves
- Utilities have begun to view things more opportunistically
- Other policy moves have been made, including in the legislatures
- A critical foundation of understanding and discussion has been established
Pending Congressional Energy Bill

- Accelerated Depreciation for Advanced Metering
- Creation of independent Grid Modernization Commission
- National Action Plan on Demand Response
- National Assessment of Grid with focus on barriers, constraints, technologies
- Interoperability Protocols and Model Standards
- Consideration of new information to customers on time-based usage and price and associated emissions
- Federal Matching Fund for Implementation
- Multiple Provisions on PHEV – loan guarantees, demonstration funding, fleet incentives, research and studies
Pending Congressional Energy Bill

- **Smart Grid Technology Deployment Program**
- **State Consideration of new requirements**
  - Prior consideration of alternative grid options
  - Utility recovery of new and past investments
  - Rate design and decoupling
- **DOE Study on Grid Security**
- **Peak Demand Reduction Standards for Federal Facilities**
- **EPA Report on Environmental Attributes of DR**
- **Incorporation of DR into Energy Star and other programs**
- **Renewable Energy Standards (RES)**
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