Energy Efficiency Analysts
Needs for Electric Market Data

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The American Council for an Energy Efficient Economy (ACEEE)

- Non-profit (501c (3)) dedicated to advancing energy efficiency through research and dissemination.
- 25+ staffers in Washington, DC, Delaware, Michigan and Wisconsin
- The Energy Efficiency “Think Tank”
- Internationally Respected Source of Research Focus on End-Use Efficiency, Policy and Programs
- Funding:
  - Foundation and Government Grants (55%)
  - Specific Contract work (20%)
  - Conferences and Publications (25%)
Overall Needs

As energy efficiency analysts we need:

• Timely data on:
  – Capacity
  – Generation
  – Fuel consumption
  – Fuel expenditures
  – Retail prices

• Data disaggregated by:
  – State
  – Fuel
  – Ownership (utility, IPP, commercial, industrial)
Need to Historic Data

• Most analyses involve looking at market trends – need consistent time series data
• Most analyses combine electric sector data with other data – e.g., end-use consumption, economic activity, forecasts – need consistent characterization of data across time
Data Challenges

• Differences between electric interconnections and state boundaries
• Explaining differences between NERC and EIA data
• Differences in data quality between electric sector and other sources – electric data sets expectations for other data sectors that is not met
• Prices vary by individual consumer – reported averages obscure impacts of TOU and peak pricing
Specific CHP/Cogen Data Needs

• Installed capacity and Electric generation – state and national
• Estimate of thermal output – need transparency of methodology
• Estimation of small systems – e.g., less than 1 MW
• Distribution of:
  – Capacity by system electric capacity
  – Fuel
  – Technology (e.g., engine, combustion turbine, steam turbine)
Data Challenges Moving Forward

- Changing structure of the electricity sector:
  - Changing roles of utility
  - Non-traditional generators
  - Distributed generation
  - Increasing importance of demand relative to generation

- Changing price structures:
  - Increases in demand-responsive pricing
  - Impacts of advanced metering/controls

- Regional variations in market structure and operation
Contact Information

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