

Measuring energy efficiency: Opportunities from standardization and common metrics



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How is the importance of measuring energy efficiency changing?

- The number of energy efficiency policies and programs is growing.
- Common metrics help measure progress towards multiple objectives.
- Clear metrics help consumers make informed energy efficiency choices.

This panel will explore the role of metrics, considering differences across technologies, markets, and policies; as well as the value of improved metrics for future uses.

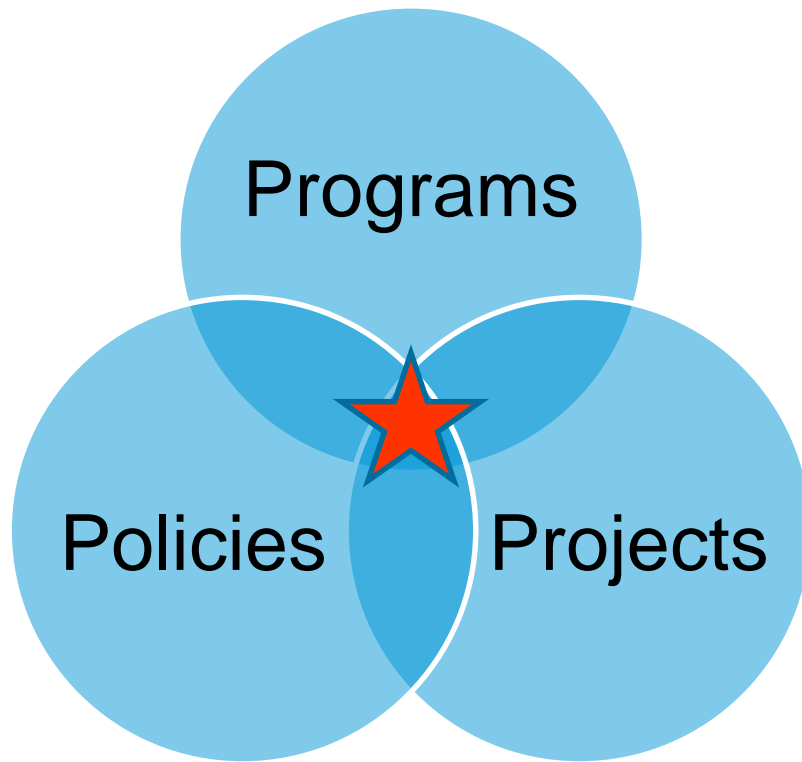
Why is this important to EIA?

- Common metrics help people understand energy.
- EIA conducts the only national surveys of energy consumption and characteristics of U.S. homes, buildings, and plants.
- Standardization helps EIA make better assumptions about the future impacts of energy efficiency technologies and policies.
- Growth in energy efficiency investments has increased requests for related independent statistics and analysis from EIA.

What's new in EIA's consumption data and analyses programs?

- “Cities Pilot”—a home energy survey for local areas, i.e. a mini-Residential Energy Consumption Survey (RECS)
- “Tenant Star”—energy consumption for separate spaces within buildings
- Water-Energy Nexus—Limited collection of water data
- Big Data—leveraging new data technologies and partnerships with benchmarking programs to enhance end-use modeling and the series overall
- Regional Energy Efficiency in Projections—AEO2016 includes energy efficiency program activity in support of Clean Power Plan targets through efficiency rebates for residential and commercial end-use technologies

Where can multiple parties benefit from energy efficiency standardized approaches & common metrics?



Today's panelists provide diverse perspectives on energy efficiency measurement



National

Regional

State

Local

End-User

- **Nikolaas Dietsch**
 - Lead, Clean Power Plan EM&V guidance
 - U.S. EPA
- **Elizabeth Titus**
 - Senior Research & Evaluation Manager
 - Northeast Energy Efficiency Partnerships
- **Allison Porter**
 - VP of Sustainability Services
 - Cushman & Wakefield

