## Improving Mid-Term Energy Forecasts for Buildings

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## Speakers

- Robert Latta, Ph.D., Consumption Analysis & Methodology Team Leader, Energy Information Administration
  - Developing Energy Consumption Estimates by End Use for EIA's Buildings Surveys
- Edward Barbour, MBA, Senior Engagement Manager, Navigant Consulting, Inc.
  - Developing Energy Efficiency and Cost Projections of Future Building Technologies for NEMS
- Frank A. Monforte, Ph.D., Vice President of Forecasting, Itron, Inc.
  - Leveraging NEMS to Produce State-Level Commercial End-Use Forecasts

Data De	escription	Coverage	NEMS Usage	Geography	
EIA Suppli	ier Surveys				
	gy Data System Develops sumption estimates based on formation.	Universe	Control total for national accounting in NEMS "benchmarking" totals	States	
FIA End U	ser Surveys				
Commercia	al Buildings and Residential	Statistical Sample	Used for household and building characteristics data (see panel below for survey energy data usage)	Census Divisions	
from End Statistically	ed End Use Consumption User Survey y estimated or developed with external estimates as part of CBECS	Statistically Derived from Sample Data	Used to estimate service demands and intensities for NEMS	Census Divisions	
urvey Results					
S	t Type Detail by End Use				
' '	in or for NEMS	Derived using External Sources and Assumptions	Drives the end use detail in the models prior to benchmarking.	Census Divisions	
Modeling					
State Leve	State Level Modeling				
Adapts Ene	ergy Consumption Data from nsus Divisions to State Level	Derived using External Sources and Assumptions	Statistical / econometric benchmarking allows application states / service territories.	State Level, Utilities	