



NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS

# STANDARDIZATION IN EVALUATION, MEASUREMENT, VERIFICATION AND REPORTING: A U.S. Perspective

Elizabeth Titus  
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# Why Standardization Helps the EE Industry?

## Key stakeholders want to know...

- What EM&V approach was used to estimate savings (without digging into individual evaluation studies)?
- Do we have confidence in the accuracy of the results - the level of statistical precision in the EE savings?
- How do the EM&V approaches compare across states?
- How do the EM&V approaches used align with any existing state, regional or national EM&V protocols?

*Can we develop a food label 'equivalent' for EM&V Methods?*



<b>Nutrition Facts</b>	
Serving Size 1 Banana (130g)	
Servings per Container 1	
Amount Per Serving	
Calories 300	Calories from Fat 130
% Daily Value*	
<b>Total Fat</b> 16g	<b>24%</b>
Saturated Fat 8g	<b>39%</b>
Trans Fat 0g	
<b>Cholesterol</b> 0g	<b>0%</b>
<b>Sodium</b> 15mg	<b>1%</b>
<b>Potassium</b> 320mg	<b>9%</b>
<b>Total Carbohydrate</b> 44g	<b>15%</b>
Dietary Fiber 4g	<b>16%</b>
Sugars 32g	
<b>Protein</b> 2g	
Vitamin A	2%
Vitamin C	15%
Calcium	2%
Iron	6%
Riboflavin (Vitamin B2)	4%
Vitamin B6	15%
Folate	4%
Magnesium	6%
Copper	4%
Manganese	10%

\* Percent Daily Values are based on a 2000 calorie diet. Your daily values may be higher or lower, depending on your calorie needs:

	Calories	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g

# Regional and National Policies: Where Standardization Matters for Energy Efficiency



- Federal Energy Regulatory Commission on Forward Capacity Markets (FERC's rule is [here](#))
- Independent System Planning and Forecasting of Energy Efficiency as a Resource
- Regional Greenhouse Gas Initiative ([Energy Efficiency Benefits from 2010 RGGI Auction Revenues](#))
- EPA Regulation - National Clean Air Act 111(d)

# Regional and National Efforts at Standardization: Uniform Methods, Uniform Reporting



- North American Energy Standards Board:
- [NAESB Demand Response and Energy Efficiency Standards](#)
- US DOE Uniform Methods Project:
- [Uniform Methods Project for Determining Energy Efficiency Programs](#)
- ANSI: [ANSI EESCC Roadmap](#)
- NEEP: Common Reporting Template:
- Impact Evaluation Summary and Portfolio Evaluation Summary Forms are under Development

# There are Challenges: Developing the Standards and Making Standardization Happen



- Does consensus lead to mediocrity
- Avoiding or creating extra burden
- Structure versus flexibility
- How to define rigor
- Need to clarify roles of protocols (overlap with other products, e.g. Technical Reference Manuals)
- Limits to consistency when federal law mandates state planning
- Potential for misinterpretations

*Education and coordination are and will be important*