



NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS
Celebrating 20 Years of Accelerating Energy Efficiency

NEEP 2016 Summit Roundtable

Scaling the Peak: Integrating Energy Efficiency
and Distributed Energy Resources

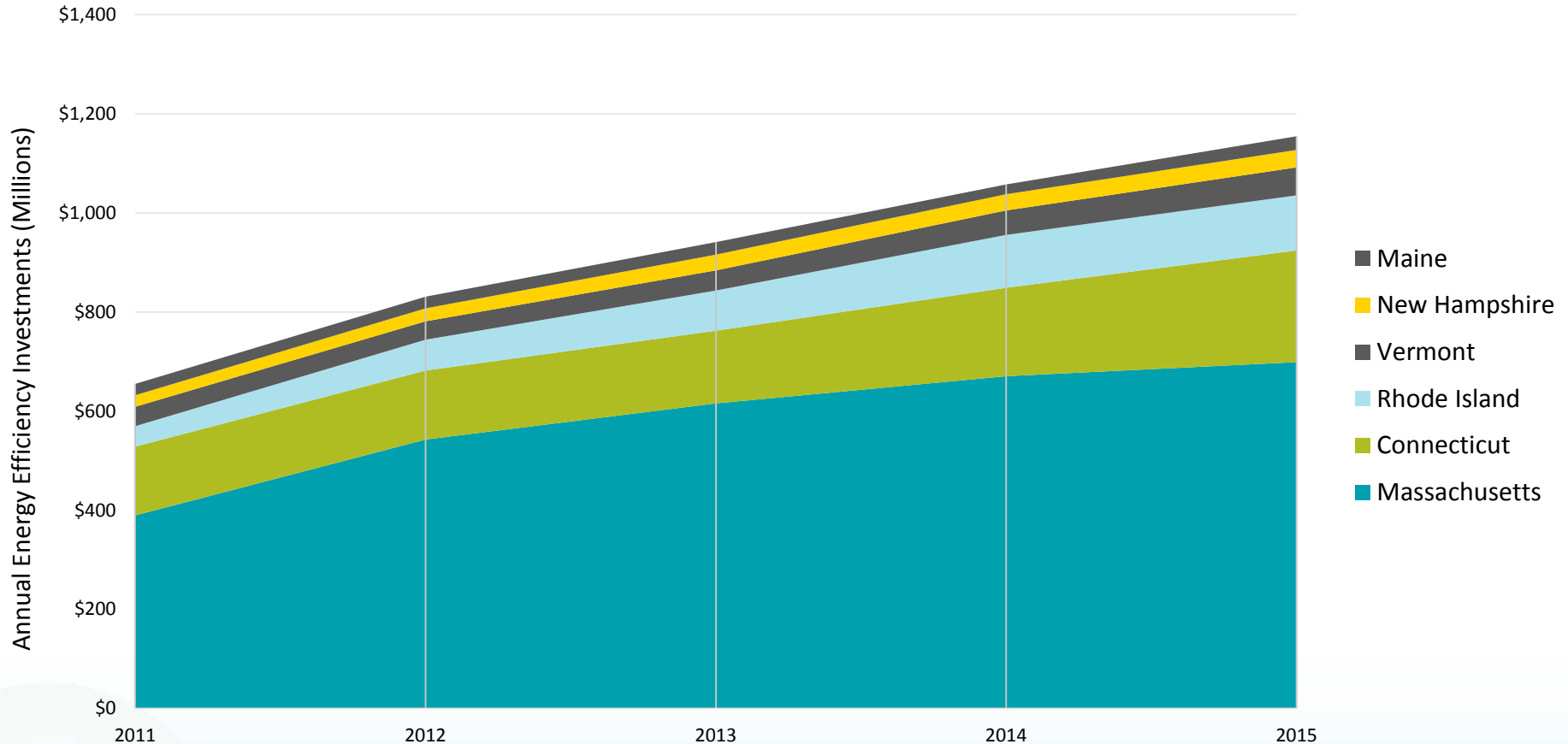
June 13, 2016

1:30pm-3pm

Background:



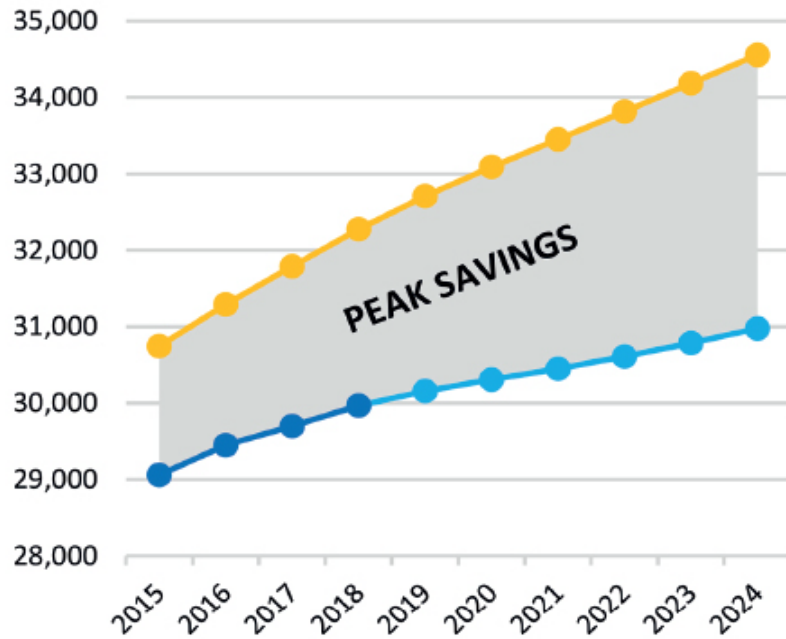
New England EE Investments Double in Past Five Years



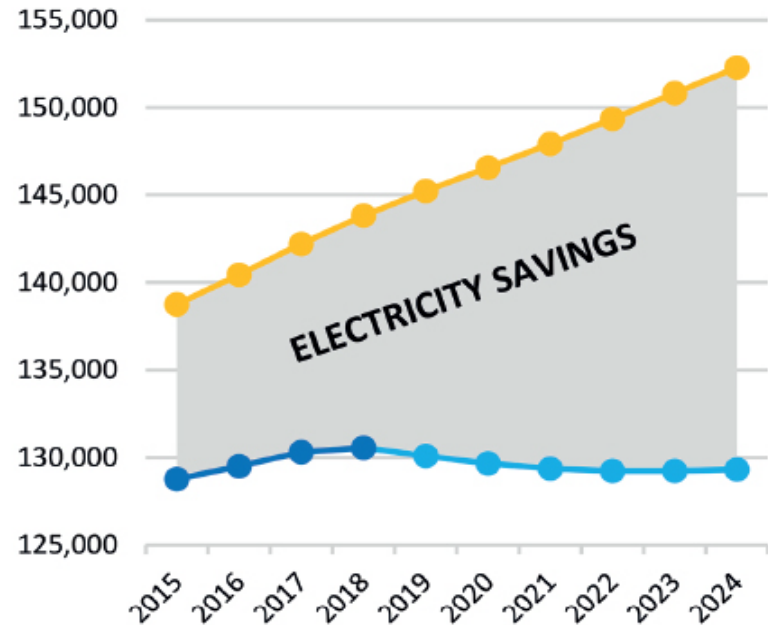
Background:

Energy Efficiency Flattening Energy Usage, but...

Summer Peak (MW)



Annual Energy (GWh)



The gross forecast of peak demand and energy use

The forecast minus the impact of EE participating in the Forward Capacity Market (FCM) to date

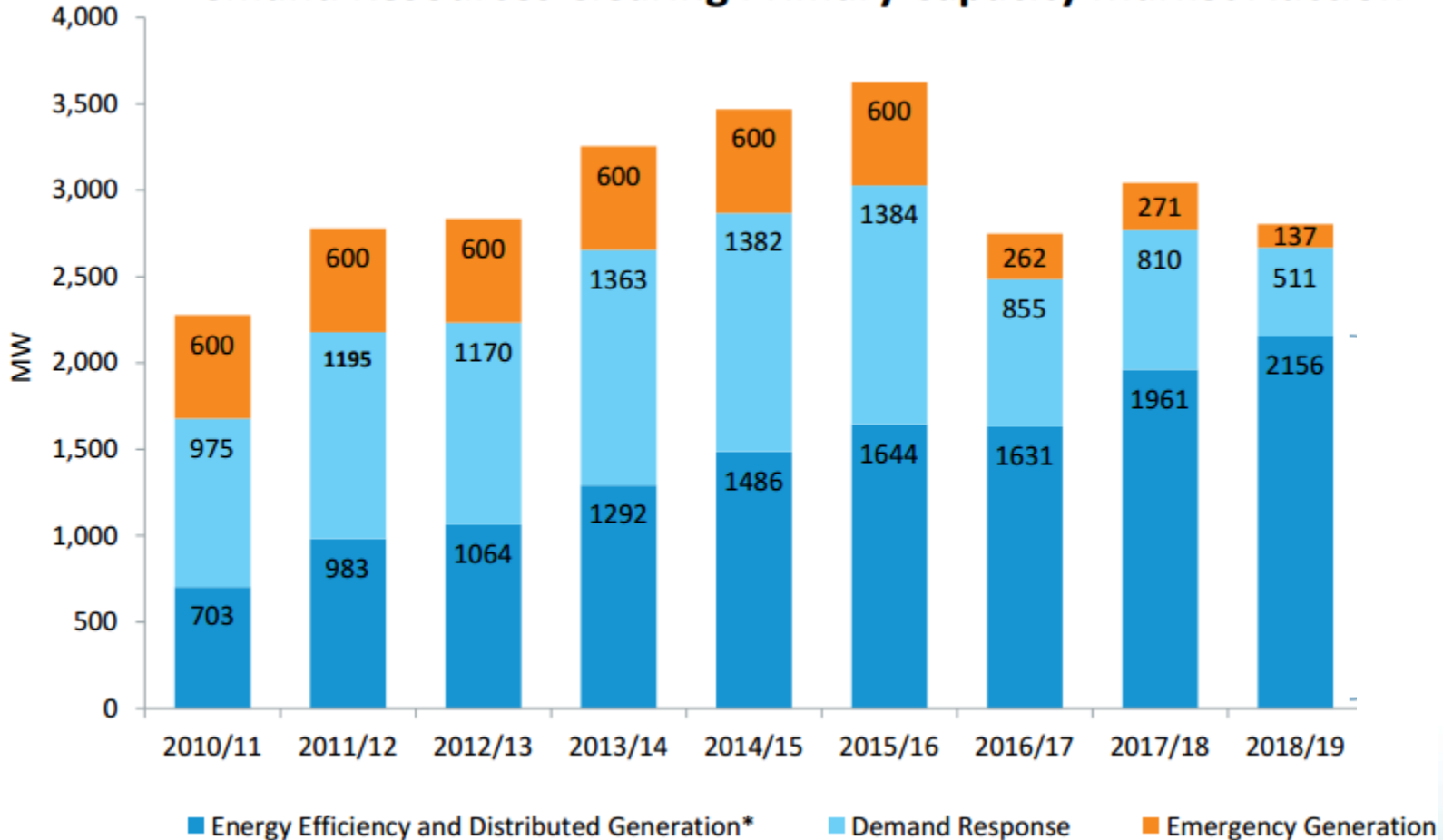
The forecast minus anticipated EE growth beyond FCM years

Background:

Declining DR Bids in Wholesale Markets



Demand Resources Clearing Primary Capacity Market Auction



*DG less than 5% of total Passive DR

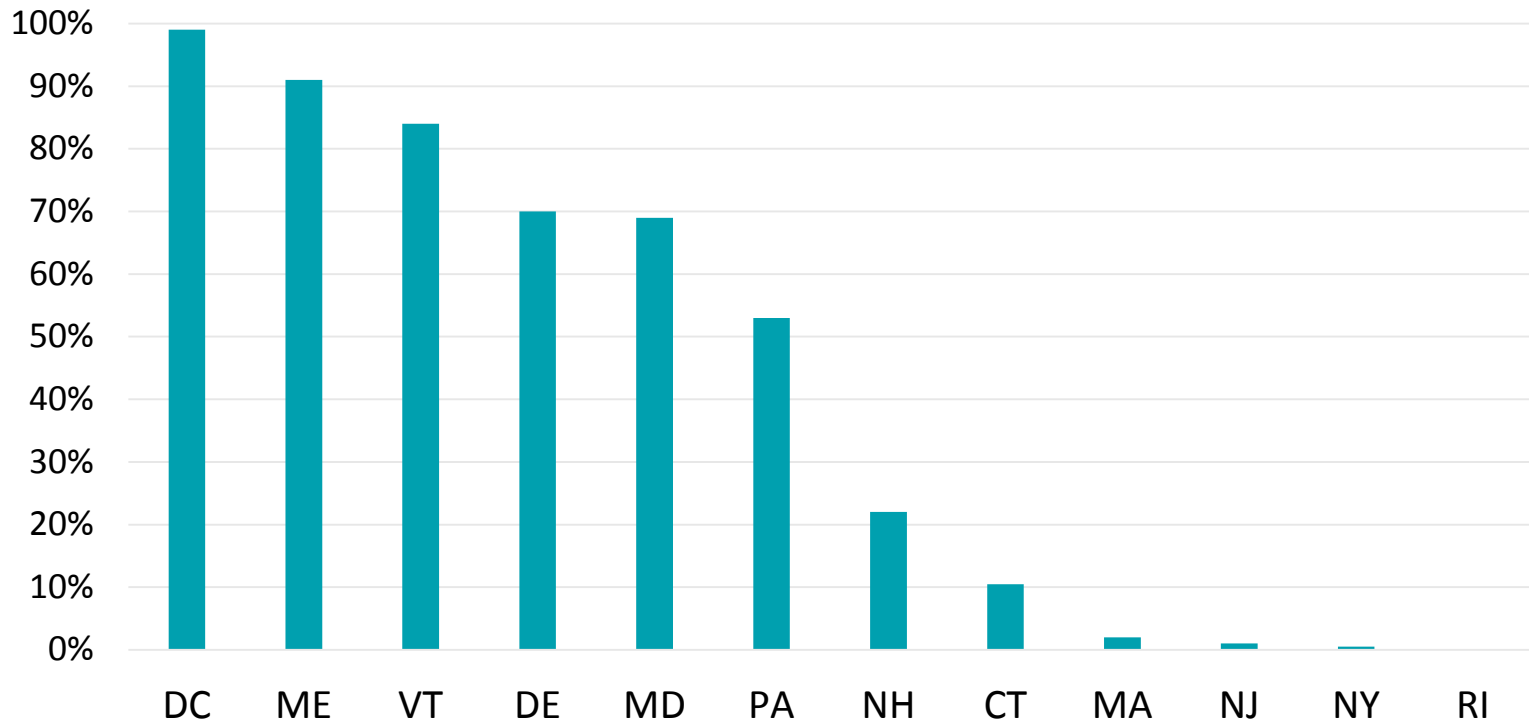
Source: Eric Winkler, ACEEE 2015 Intelligent Efficiency Conference

Background:

Grid Modernization and AMI Rollout



AMI Penetration by State (EIA Form 861, 2014)



Background:

A Revolution in Customer Engagement

Moving beyond switches, toward a proliferation of connected devices

- Smart Phones, T-Stats, Hot Water Heaters, Heat Pumps, HEMs, ARTUs, CALC, energy storage, etc.

Program Administrators Offering Demand Response

- NWA projects throughout the country
- Mass. 2016-18 Plan
- Conn. 2016-18 C&LM Plan
- NY Dynamic Load Management Plans, Smart Home Rate in REV Track II Order
- Pennsylvania Act 129 Phase III
- NHEC Go Beyond the Peak
- Maryland BGE Smart Energy Rewards

Why should utilities should get in the game? Survey Says...

- Those who are enthusiastic about smart tech identify as enthusiastic about EE; 52 percent, v. 27 percent of the general population
- Customers value connectivity almost as much as cost savings

Introductions



1. Lindsay Foley

Senior Project Manager,
National Grid New Energy Solutions
Non-Wire Alternatives Projects



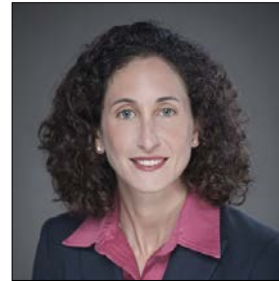
2. Francois Lebrasseur

Marketing Manager
General Electric Water Products
High Performance Heat Pump Water Heaters



3. Marisa Uchin

Opower
Senior Director of Regulatory Affairs
Behavioral Demand Response and HERs



4. Eric Winkler

ISO-New England
System Planning Technical Manager
Discussant

