



EE in Wholesale Markets

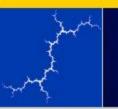
Policies for Energy Provider Delivery of Energy Efficiency North American Regional Policy Dialogue April 18, 2012

Doug Hurley



Energy System modeling, analysis, expert testimony, and stakeholder representation for...

- Consumer Advocates and Public Interest Groups in more than 25 states
- More than 20 PUCs and Attorneys General
- Over 40 Environmental Groups and Foundations
- NEPOOL Representation for Consumer Advocates, Energy Efficiency, Renewable Generation, and Environmental Advocates



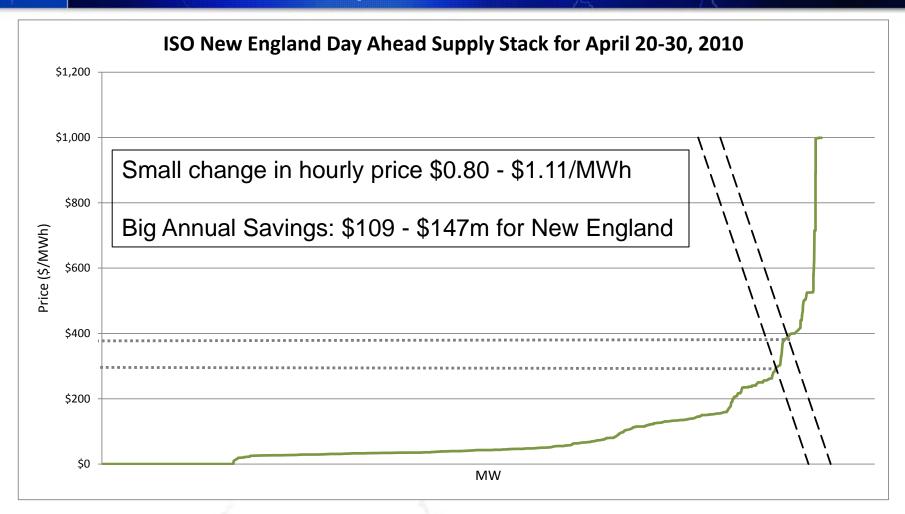
Capacity Market Revenues and EE Budgets

Year	Annual EE Budget (\$m)	Approx. FCM Revenue (\$m)	% extra from FCM
2009	\$ 353.4	\$ 26.4	7%
2010	\$ 535.2	\$ 28.5	5%
2011	\$ 886.3	\$ 24.6	3%
2012	\$ 1,029.4	\$ 24.12	2%

Notes:

- 1. Annual Budget from ACEEE 2011 Scorecard, Table 4.
- 2. Estimated FCM revenues from public data. Does not account for over/under delivery, proration, or multi-year prices.

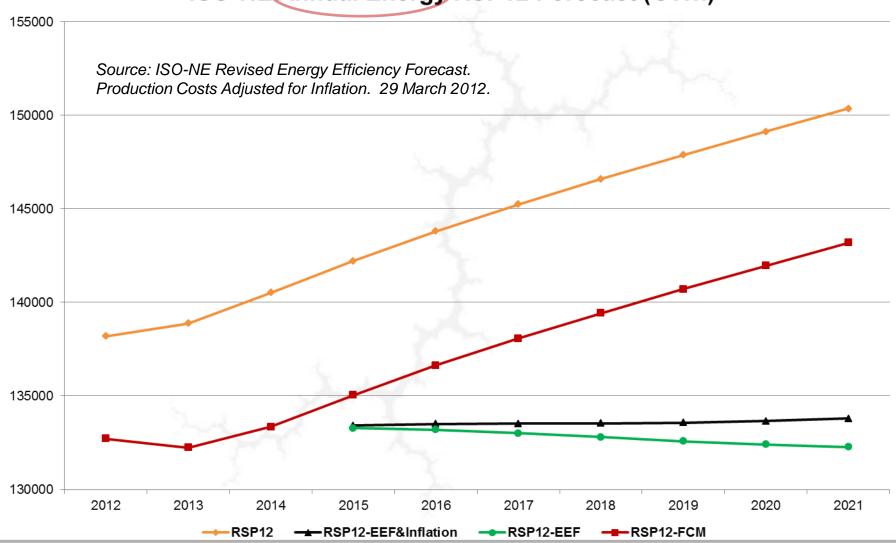
EE Impact on Wholesale Market Price



Single clearing price market. ALL cleared resources get paid the same price.

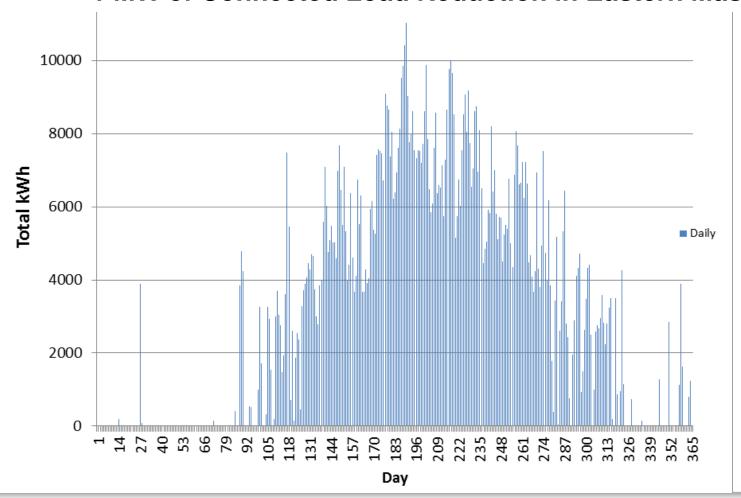
EE in Transmission Planning

ISO-NE Annual Energy RSP12 Forecast (GWh)

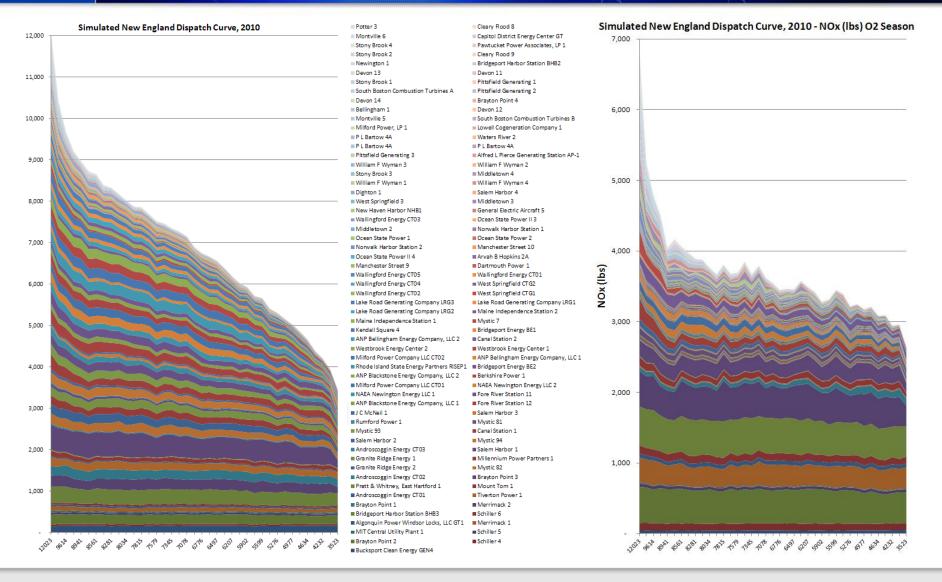


EE Loadshapes

NEEP EM&V Form / KEMA C&I HVAC Savings Tool 12000 1 MW of Connected Load Reduction in Eastern Mass



Statistical Dispatch Model Simulated Dispatch Curve (Generation / Emissions)



Common Arguments, and retorts

Argument you'll hear	A good retort	
Cannot be dispatched by the operating room, so not valuable as capacity.	Neither are numerous other types, including nuclear, some coal plants, other self-scheduled units, and yet we pay them for capacity.	
Would be built anyway, so they don't need the money.	So would many resources that make plenty of money on energy revenues, which includes nearly all baseload and most intermediate units.	
EE is state funded, so they don't need wholesale market revenues.	So are any resources that get built under state RFPs. Absence of due wholesale market revenues make them appear falsely more expensive.	
Can't tell what you're getting.	Appropriate M&V will handle this issue (and is almost always conservative).	
"You mean we're gonna pay for curly light bulbs?"	Yes. And you'll pay less than you would have for a new power plant.	

www.synapse-energy.com

Doug Hurley
Paul Peterson
Sarah Jackson