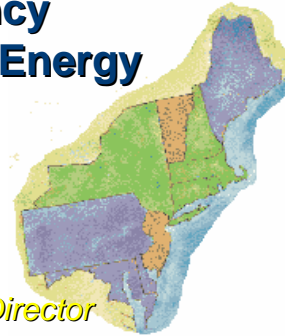


Northeast Energy Efficiency Partnerships: Advancing Energy Efficiency

*Presentation to ASERTTI
Winter Meeting*

By: Sue Coakley, NEEP Executive Director



February 2, 2009

Northeast Energy Efficiency Partnerships

“Facilitating partnerships to advance energy efficiency”

- Regional non-profit organization since 1996
- Serving New England, New York, Mid-Atlantic

NEEP Mission:

Promote the efficient use of energy in homes, buildings and industry in the Northeast U.S. through regionally coordinated programs and policies to achieve:

- Cleaner environment
- Reliable + affordable energy

Primary Audiences Served:

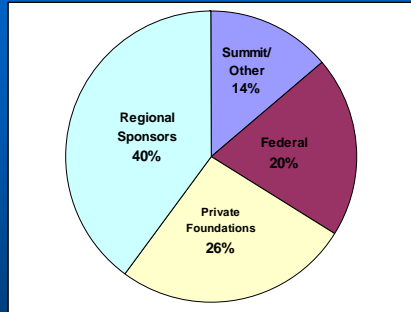
- State Policy Makers
- Efficiency Program Administrators

Approach:

Strategic regional collaboration to overcome barriers to efficiency – public policies and efficiency programs.

Northeast Energy Efficiency Partnerships

2008 NEEP Funding:



Federal \$\$

US DOE
US EPA

Foundations

Energy Foundation
Kendall Foundation
John Merck Fund
Merck Family Fund

2008 Regional Sponsors:

National Grid
NYSERDA
LIPA
NJ Board of Public Utilities
Efficiency Vermont
Efficiency Maine
CT Light and Power
WMECo
NSTAR Gas and Electric
United Illuminating
Public Service Co of NH
Cape Light Compact
CT Municipal Electric Co-op

Building Sector Energy Efficiency:

Top Priority Resource in Northeast States

Northeast Energy Efficiency Partnerships, Inc.



Energy Efficiency: Resource Expansion

Policy Drivers:

Energy Costs: Power → costs among highest in US

Power System Reliability: Growing demand – capacity needed →

Carbon Emissions: Emission levels increasing – sea level rise, environmental damage →

Policy Directives:

Procure Efficiency:

- Portfolio standards
- All cost-effective efficiency – gas + electric → all fuels

Efficiency as Comparable Resource: Efficiency bids in RTO regional capacity markets

Efficiency to reduce emissions/costs: RGGI carbon allowance auction proceeds → fund efficiency

Energy Efficiency: State Goals

RI 2006 Energy Affordability Act → All cost-effective EE

CT 2007 Energy Reform Act → All cost-effective EE

ME 2007 RGGI Act → Funds EE Expansion, new structure

NY 2007 Energy Portfolio Standard → 15% by 2015

NJ 2007 Energy Master Plan → 20% by 2020

MA 2008 Green Communities Act → All cost-effective EE

MD 2008 Empower Maryland → 15% by 2015

PA 2008 Act 129 → 1% by 2011, 3% by 2013

DE 2008 Sustainable Energy Utility → 30% by 2015

DC 2008 Clean, Affordable Energy Act → Goals TBD

VT 2008 EE Utility Expand → Long-term contract, all fuels

Energy Efficiency: Funding Increase

Funding Type	2008	2009 <small>estimate</small>
Societal Benefit Charge	\$800 million	\$1.3 billion
Carbon Allowance Sales	\$145 million	\$200 million
Economic stimulus		Double?

Future Funding Increase → Regional Capacity Markets

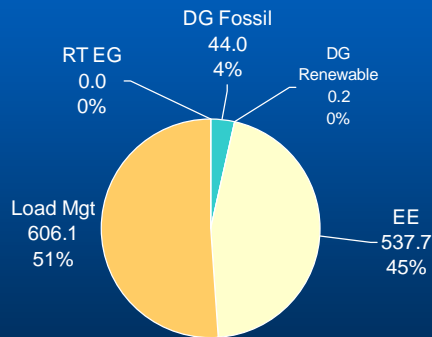
- ISO New England Forward Capacity Market 2011
- PJM Reliability Pricing Model (RPM) 2010

Northeast Energy Efficiency Partnerships, Inc.

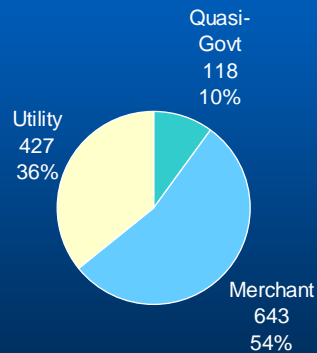


ISO-NE Forward Capacity Market Auction #1: New Demand Resource MW Cleared – Feb 2008

By Measure Type



By Participant Type

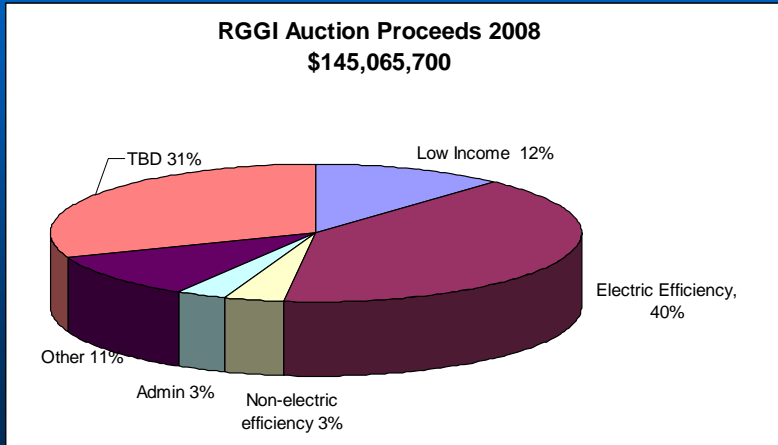


Total Demand Resources Cleared: 1,188 MW
New Supply Resources Cleared: 626 MW

Regional Greenhouse Gas Initiative: Efficiency Funding

2008 Carbon Allowance Auction Results

- Sept 08 → 12,565,400 short tons carbon @ \$3.07/ton = **\$38,575,800** (6 states)
- Dec 08 → 31,505,900 short tons carbon @ \$3.38/ton = **\$106,489,900** (10 states)



Data Compiled by Environment Northeast, Chart by NEEP

Acquiring Energy Efficiency: New Approaches – Policy, Program, Technology and Workforce

Northeast Energy Efficiency Partnerships, Inc.



Expanding Program

- ✓ Super-charge Lost Opportunity – Going Upstream → Cooperative co-promotions
- ✓ Scaling Up Whole Building Retrofit → All Fuels
- ✓ Integrating Efficiency + Demand Response + Combined Heat & Power + Renewables
- ✓ Introducing Home Energy Management & Smart Grid – web-based tools, “dashboards”
- ✓ Community-Based Efforts

Northeast Energy Efficiency Partnerships, Inc.



Taking Policy and Regulation the Next Step

- High Performance Buildings → *Net Zero Energy Buildings as the Long Term Goal*
- Progressive Building Energy Codes
 - ✓ Regular updates → follow national codes
 - ✓ Stretch Code Option → set bar for future upgrades
 - ✓ Independent Energy Code Inspectors
 - ✓ Compliance tracking
- More Appliance Standards
- Building Energy Rating and Performance Requirements

Northeast Energy Efficiency Partnerships, Inc.



Consistent Regional EM&V

Regional Evaluation, Measurement and Verification Forum

- ★ Develop and support consistent use of common protocols to estimate, track and report:
 - *Energy and demand savings*
 - *Related costs and air emission impacts*

Elements:

- Protocol Development – common measurement methods + tools
- Research & Evaluation – common data
- Information Access – publicly available

NEEP Project:

- Julie Michals – Director JMichals@neep.org
- Elizabeth Titus – Research & Evaluation Manager ETitus@neep.org
- See http://www.neep.org/policy_and_outreach/EMV.html

New Technology

Top Priorities:

- Solid State Lighting
- High Efficiency TVs & Consumer Electronics
- Heat Pump Water Heaters
- Commercial HVAC Self-Diagnostic
- Demand-response enabling



New Consumer Resource



- What
- Why
- How
- Who
- Next Steps



What?

- ❑ A transparent system to continuously identify the 10 most energy-efficient products available in the US
- ❑ A dynamic and stringent efficiency benchmark
- ❑ A consumer-friendly web-resource
- ❑ A tool to increase energy efficiency program savings
- ❑ A strategy to speed the introduction of dramatically more efficient consumer products
- ❑ A head-start to strong federal appliance standards



Based on Topten in 11 European Countries

topten.info The best products by a simple click
Save money and the environment
Neutral and independent

[Our mission](#) | [Team](#) | [Efficiency and climate](#) | [Contact](#)

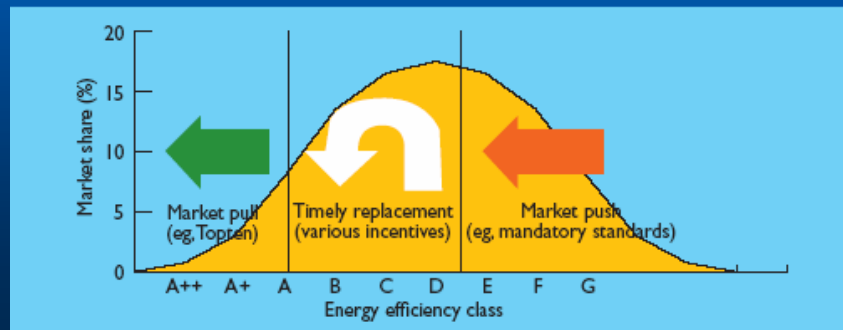
Flags of 11 European countries: Austria, Belgium, Czech Republic, Finland, France, Germany, Greece, Italy, Netherlands, Switzerland, and WWF.



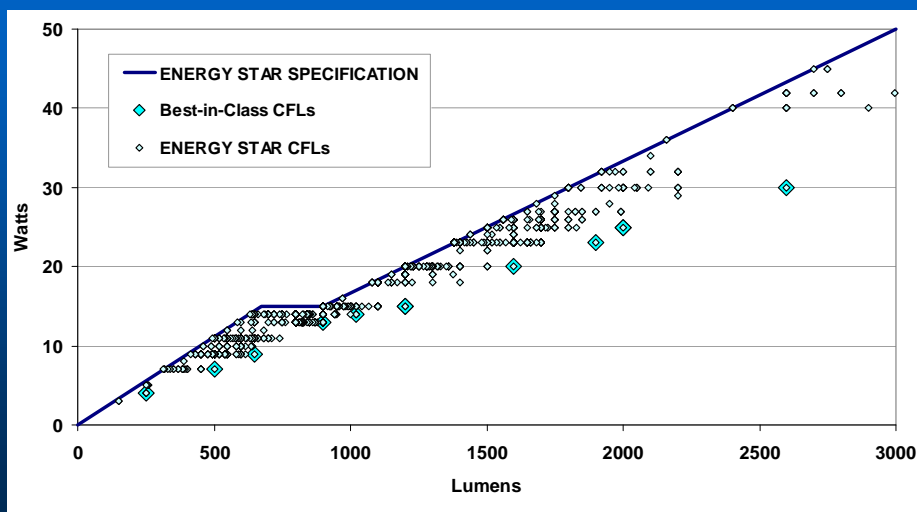
Why?

- ❑ Potential for major energy and carbon savings!
- ❑ Pull more rapid product innovation for public programs (e.g., Energy Star)
- ❑ Enrich savings opportunities for leading states

Market transformation strategy for energy-efficient equipment

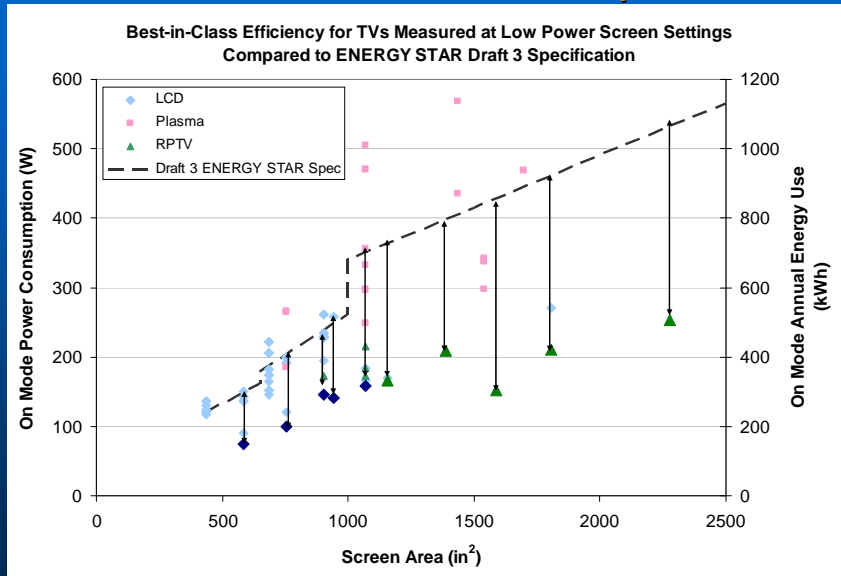


CFL Market Very Mature in the U.S. – New Opportunities for Differentiation through More Efficient CFLs and Solid State Lighting



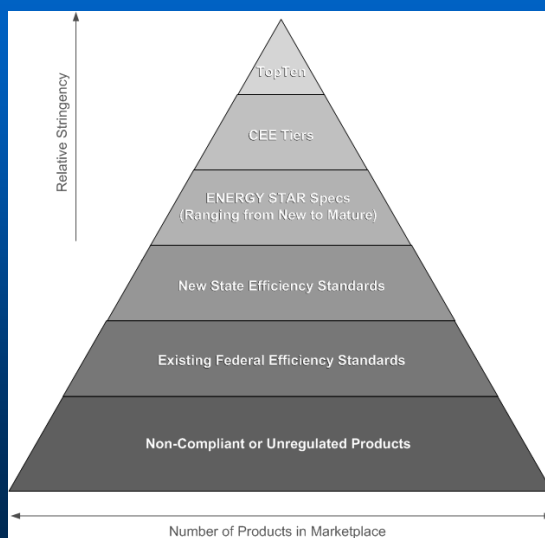
Ecos Consulting

Major Savings Achievable by Promoting the Most Efficient Models in the Marketplace



Ecos Consulting

USA
top ten



Relationship to Existing Programs:

- Top tier - only ten MOST efficient products
- Continuous updating – market driven
- Develop test methods for new products
- Feed product pipeline → support more rapid updates



How?

- ✓ **Ongoing research** to identify top product options → use independent product test data OR conduct product tests
- ✓ **User-friendly website** → serve target audiences:
 - Green consumers
 - Procurement officials
- ✓ **Partner with ratepayer-funded programs** → link program incentives and promotions to TopTen USA listed products
- ✓ **Partner with retailers** → provide quick-finder for specific product options and in-store promotions
- ✓ **Cross marketing** → alliances with consumer and environmental organizations and media outlets
- ✓ **Strategic coordination:**
 - National efficiency programs
 - Product Manufacturers
 - Topten International Group
- ✓ **Ongoing evaluation** → assess savings, continuous improvement



Initial Product Categories

Appliances	Refrigerators; Freezers; Dishwashers, Clothes washers, Clothes Dryers
Electronics	Televisions
Office Equipment	Desktop Computers, Monitors
Heating & Cooling	Room Air Conditioners
Lighting	General Service Lighting (sub- categories: screw-based dimmable and non-dimmable lamps)
Vehicles	Passenger Vehicles



Who?

Sue Coakley, Board Chair and Interim President

Board of Directors:

- ★ Natural Resources Defense Council
- ★ American Council for an Energy-Efficient Economy
- ★ World Wildlife Fund
- ★ Pacific Gas & Electric
- ★ Northeast Energy Efficiency Partnerships
- ★ Northwest Energy Efficiency Alliance

Advisors:

- ↪ Chris Calwell, Ecos Consulting
- ↪ Anne Arquit Niederberger, Policy Solutions



Status and Next Steps:

- Initial foundation funding secured
- Executive Director search underway
- Initial product list in development for four categories
- Additional fundraising underway
- TopTen USA → member of Topten International Group
- Forming National Consultative Group and Technical Advisory Committee
- Seeking initial efficiency program sponsors
- Seeking IRS 501(c)3 determination

Watch www.toptenusa.org for developments!



Questions – Comments?

- ❑ Sue Coakley – SCoakley@neep.org
- ❑ **Product listing**
 - Noah Horowitz, NRDC – NHorowitz@nrdc.org
 - Ed Schmidt, NEEP – ESchmidt@neep.org
 - Chris Calwell, Ecos Consulting - ccalwell@ecosconsulting.com
- ❑ **Topten International**
 - Anne Arquit Niederberger, Policy Solutions policy.solutions@comcast.net
 - www.topten.info

Thank You

Northeast Energy Efficiency Partnerships, Inc.



Susan Coakley
Executive Director
781-860-9177 ext. 112
scoakley@neep.org

www.neep.org