



Energy solutions
for a changing world

Regional Cooperation on Energy Efficiency

A Path to Achieving Targets in the SPSC
High DSM Case and Lowering Costs

Committee for Regional Electric Power Cooperation
Presented by Lisa Schwartz

April 11, 2011

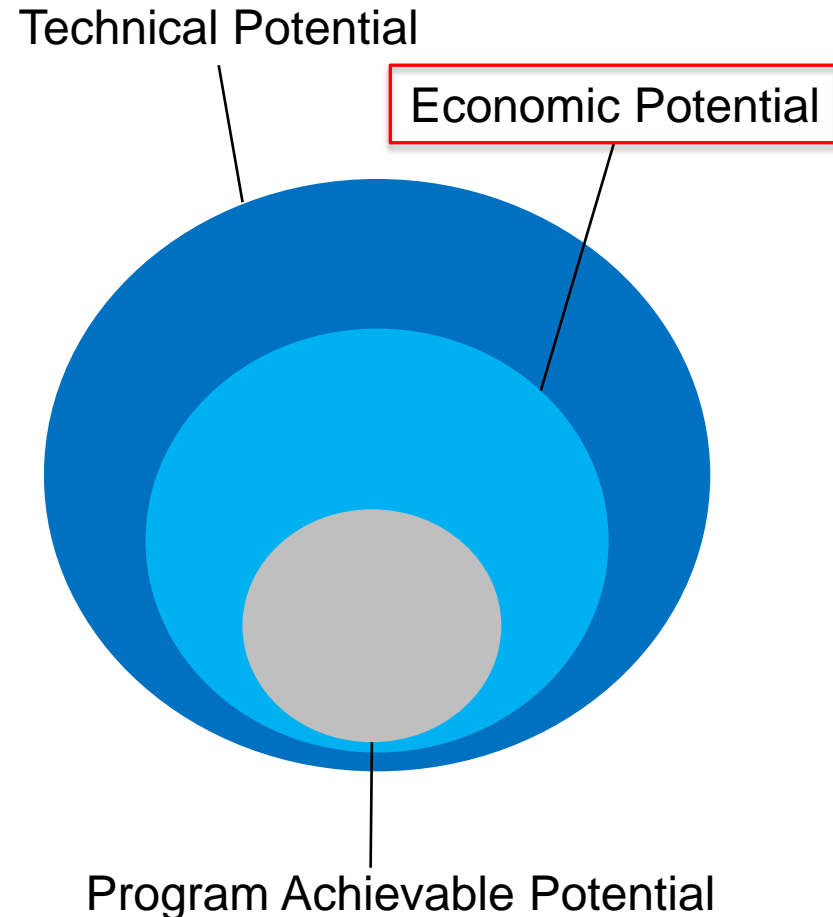
The Regulatory Assistance Project

50 State Street, Suite 3
Montpelier, VT 05602

Phone: 802-223-8199
web: www.raponline.org

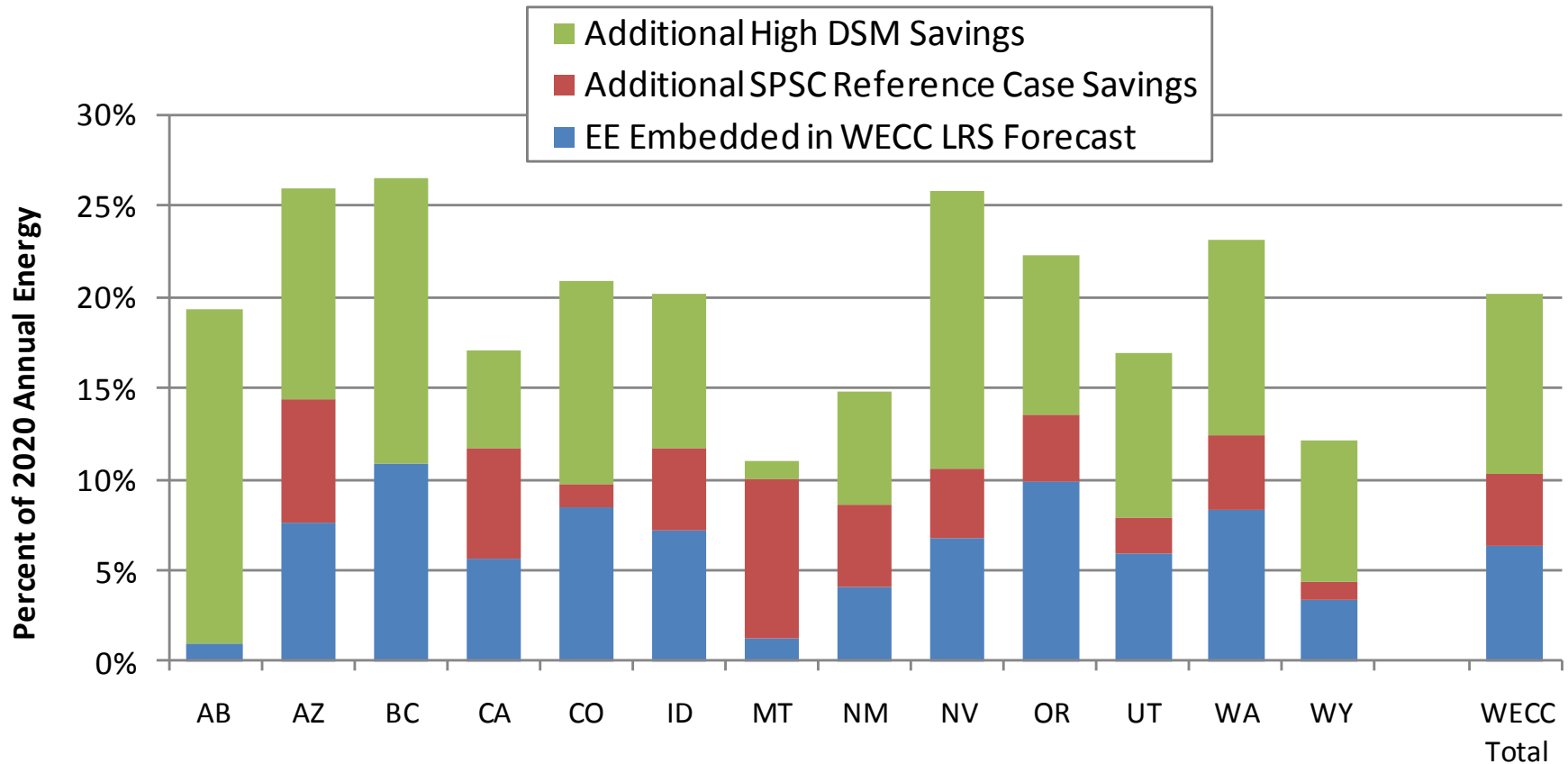
SPSC's High DSM Targets

- For WECC transmission studies, DSM Work Group developed a High DSM scenario to reflect more aggressive programs and policies than exist today
 - LBNL analysis using existing potential studies, BA surveys
 - Based on achieving full *economic* potential for end-use energy efficiency in West + aggressive DR programs
 - Customer-side distributed generation is not included



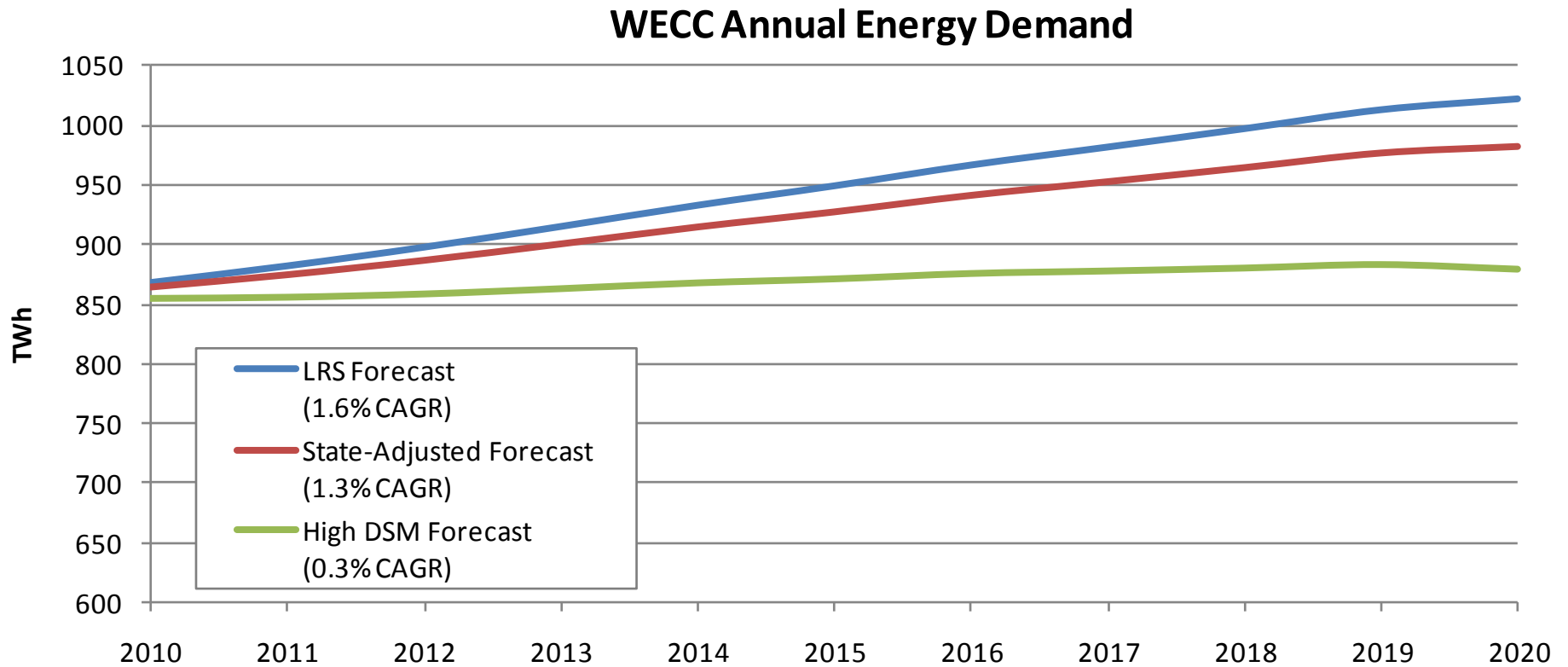
SPSC's High DSM Targets

2010-2020 Cumulative Energy Savings



LRS - Load forecasts from BAs to WECC's Load and Resources Subcommittee (WECC base case)
 SPSC reference case - Reflects savings expected from current energy efficiency policies and programs (including federal standards), **after** accounting for savings embedded in BA forecasts

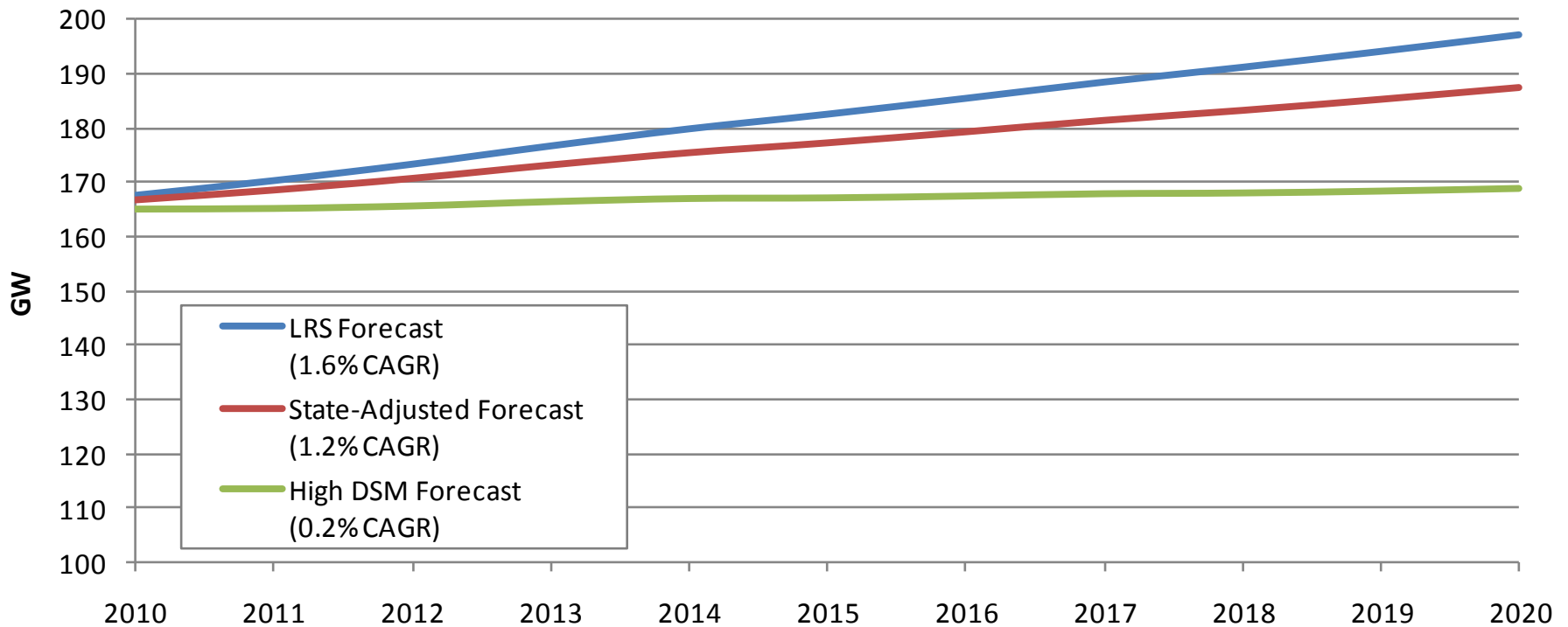
Achieving the high DSM case would flatten energy use



... and flatten demand

High DSM case represents a 10.4% reduction in annual energy use and 9.8% reduction in peak demand in 2020, compared to SPSC reference case (“state-adjusted forecast”)

WECC Annual Non-Coincident Peak Demand



Cooperation and Coordination of State and Utility Programs Are Needed to Achieve These Aggressive Targets

- To realize economies of scale not possible with isolated programs by individual utilities, states and provinces
- To transform regional markets, making energy-efficient products and services widely available and changing the way people make energy-related decisions
 - Identify and remove market barriers and leverage opportunities to accelerate adoption of energy efficiency as standard practice
- Within states/provinces and across jurisdictions
- With natural gas, water utilities for selected initiatives

Some Considerations for Cooperation on an Energy Efficiency Initiative

Technical Potential

- Energy and demand savings
- Magnitude of benefit

Leverage

- Economies of scale
- Cost efficiencies
- Lessons learned
- Existing expertise

Level of effort required

Timeframe

Will it happen without a broader effort?

Will it help states/provinces and utilities achieve their energy efficiency goals?

Does it address a trend in energy consumption?

Could it lead to locking in savings through codes and standards?

Adapted from Consortium for Energy Efficiency

Possible Levels of Cooperation

- Coordinated/co-funded demonstration and testing of new technologies and practices
- Joint agreement with retailers, manufacturers, etc. to buy down costs of energy-efficient products
 - Could include system to facilitate multiple funders
- Common program coordinator
- Utilities in other parts of the West participating with Northwest Energy Efficiency Alliance (NEEA) on a selected initiative (e.g., CA utilities and flat-screen TVs)





- Shared training/certification and installation verification
 - e.g., NEEA's ductless heat pump program includes contractor training and quality assurance
- Shared media campaigns
- Standard energy efficiency levels
- Standard evaluation, measurement and verification protocols

For More Information

- LBNL's analysis for SPSC reference and high DSM cases
http://www.wecc.biz/Planning/TransmissionExpansion/RTEP/10272010/Lists/Presentations/1/WECC%20Webinar_102710_2-2.pdf
- Regional organizations
 - Northwest Energy Efficiency Alliance
<http://neea.org/>
 - Midwest Energy Efficiency Alliance
<http://www.mwalliance.org/>
 - Northeast Energy Efficiency Partnerships
<http://neep.org/>
- Consortium for Energy Efficiency
<http://www.cee1.org/>

About RAP

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Lisa Schwartz, Oregon

802-498-0723 (office); 541-990-9526 (cell)

lschwartz@raponline.org



Global
US
China
EU

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50 State Street, Suite 3
Montpelier, Vermont 05602

phone: 802-223-8199
fax: 802-223-8172

www.raponline.org