



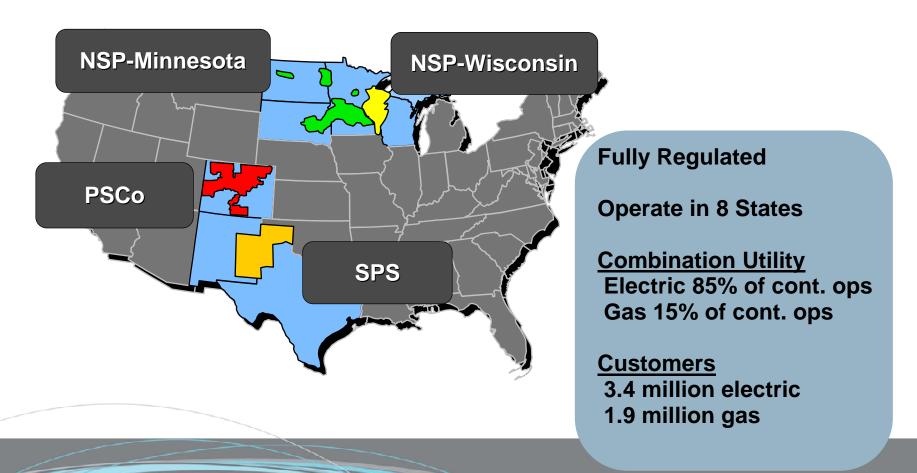
The Role of Energy Efficiency in Utility Resource Plans in the Rocky Mountain Region Public Service of Colorado

ACEEE National Conference on Energy Efficiency as a Resource

September 27, 2011



Company Profile



Emphasis on Energy Efficiency Grows in Colorado

- PSCo's History of Energy Efficiency Orders
 - **2000-2005:** Achieve 124 MW
 - No energy goals
 - 2006-2013: Achieve 800 GWh
 - Avg. 100 GWh per year
 - 2009-2016: Achieve 2083 GWh
 - Avg. 260 GWh per year
 - 2012-2019: Achieve 3435 GWh
 - Avg. 429 GWh per year

DSM Spend	2008	2009	2010	2011	2012	2013
Actual and Planned	\$19.6M	\$50.5M	\$54.7M	\$68.5M	\$76.0M	\$86.0M

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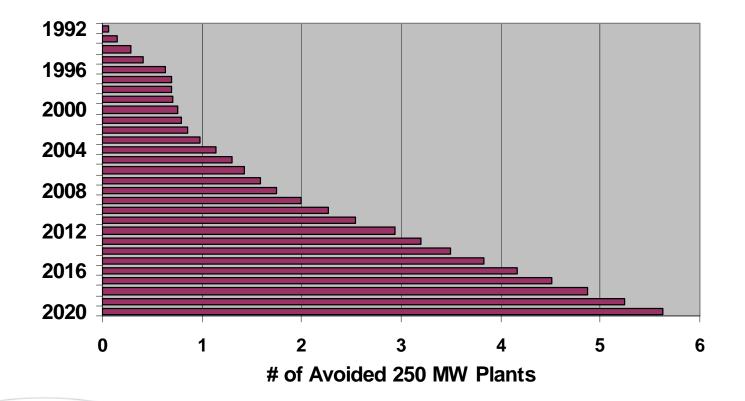
PSCo's Current Approved Goals

Year	% Sales Reduced	GWh Saved
2010	0.9%	220/252*
2011	0.9%	235/256**
2012	1.14%	330
2013	1.21%	356
2014	1.28%	384
2015	1.35%	411
2016	1.42%	441
2017	1.51%	472
2018	1.59%	504
2019	1.66%	537
2020	1.68%	549

* Commission ordered goal/actual achievement.

** Commission ordered goal/filed annual plan goal.

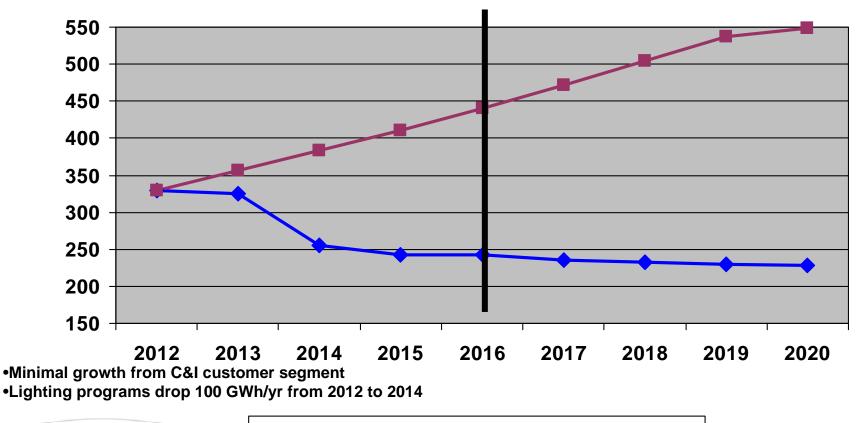
Estimated Plants Avoided by DSM — Colorado



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Colorado Gap Analysis

2012-20 "Existing Programs minus code impacts vs. Goal"

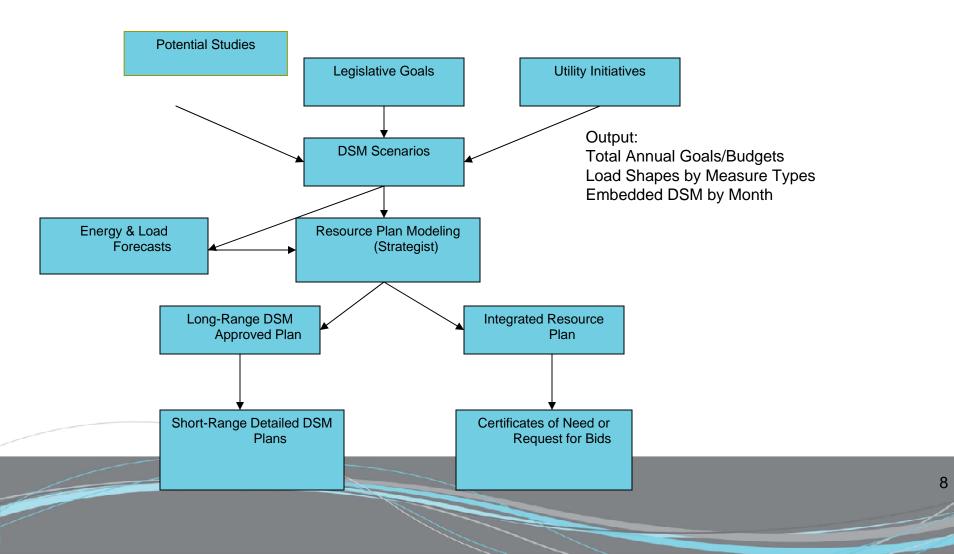


Existing Programs minus code impacts — GWh Goal

Filing the Gaps Depends on Several Factors

- Rapid, sustainable growth in current programs.
- Maximize near-term CFL opportunities.
- Expand residential Behavior Change.
- Evaluate commercial Behavior Change.
- Introduce and expand LED solutions.
- Multiple new technologies.
- Targeted higher rebates.
- Improved services.
- Expand market transformation programs.

EE & Resource Planning Cycle



Treatment of EE in Colorado Resource Planning

PSCo's Expected EE Achievement Impacts included in Sales and Demand Forecast

Approved Goals through 2015

2015+ limited to 411 GWh

Achievement of Approved Goals will be included as a sensitivity

Tested on Net PV of Revenue Requirements

EE decisions allow EE resource to be determined outside resource planning process but reflected in RP process

Issues to Consider

Forecasting Long-Term Energy Efficiency

- Planners need reliable forecasting methods for energy efficiency over resource plan time horizon.
- Increasing Budgets
 - Energy efficiency costs born by customers earlier than costs for adding future supply.
 - Concept of least-cost difficult for customers to understand.
- Utility Financial Disincentives
 - Energy efficiency should be equal or more profitable than the supply side options.

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