



National Action Plan for Energy Efficiency Addresses Utility Barriers

- Released on July 31, 2006 at the National Association of Regulatory Utility Commissioners meeting
- Goal: To create a sustainable, aggressive national commitment to energy efficiency through gas and electric utilities, utility regulators, and partner organizations
- Over 50 member public-private Leadership Group developed five recommendations and commits to take action
- Additional commitments to energy efficiency – exceeds 90 organizations

National Action Plan for Energy Efficiency Recommendations

- 1. Recognize energy efficiency as a highpriority energy resource.
- Make a strong, long-term commitment to implement cost-effective energy efficiency as a resource.
- Broadly communicate the benefits of and opportunities for energy efficiency.
- Provide sufficient, timely and stable program funding to deliver energy efficiency where cost-effective.
- Modify policies to align utility incentives with the delivery of cost-effective energy efficiency and modify ratemaking practices to promote energy efficiency investments.

Resources for States, Utilities and Stakeholders

- Guides and Papers
 - National Action Plan for Energy Efficiency Report
 - ***Aligning Utility Incentives with Energy Efficiency Investment
 - Resource Planning with Energy Efficiency
 - Conducting Potential Studies for Cost-Effective Energy Efficiency
 - Model Energy Efficiency Program Evaluation
 - National Action Plan Vision for 2025
- Outreach Material and Tools
 - Energy Efficiency Benefits Calculator
 - Communications Kit
 - Resource and sample docket database
 - Educational Briefings

- Fact Sheets
 - Building Codes and Energy Efficiency
- Consumer Energy Efficiency
- Regional Implementation Meetings
 - Policy tracking tables
 - Presentations and meeting summaries
- Sector Collaborative on Energy Efficiency
 - Presentations from June 27 and 28 Meeting
 - Background Paper on Utility Data Availability
 - Energy Consumption Profiles for participating sectors









Expensing v. Capitalization

End-of- year	Annual Energy Efficiency Expenditure	Energy Efficiency Expenditure	Depreciation	Unamortized Balance	Return on Unrecovered Investment	Incremental Revenue Requirements
1	1,000,000	1,000,000	\$100,000	\$900,000	\$90,000	\$190,000
2	1,000,000	2,000,000	\$200,000	\$1,700,000	\$170,000	\$370,000
3	1,000,000	3,000,000	\$300,000	\$2,400,000	\$240,000	\$540,000
4	1,000,000	4,000,000	\$400,000	\$3,000,000	\$300,000	\$700,000
5	1,000,000	5,000,000	\$500,000	\$3,500,000	\$350,000	\$850,000
6			\$500,000	\$3,000,000	\$300,000	\$800,000
7			\$500,000	\$2,500,000	\$250,000	\$750,000
8			\$500,000	\$2,000,000	\$200,000	\$700,000
9			\$500,000	\$1,500,000	\$150,000	\$650,000
10			\$500,000	\$1,000,000	\$100,000	\$600,000
11			\$400,000	\$600,000	\$60,000	\$460,000
12			\$300,000	\$300,000	\$30,000	\$330,000
13			\$200,000	\$100,000	\$10,000	\$210,000
14			\$100,000	\$0	\$0	\$100,000
15/Total	(5,000,000)		\$5,000,000		\$2,250,000	\$7,250,000



Lost Margins (aka, throughput incentive)

	Baseline (rate setting proceeding)	Case 1 (2% reduction in sales)	Case 2 (2% increase in sales)
1. Variable Costs	\$1,000,000	\$980,000 ⁻	\$1,020,000
 Depreciation + other fixed costs 	\$500,000	\$500,000	\$500,000
3. Capital Cost	\$5,000,000	\$5,000,000	\$5,000,000
4. Debt	\$3,000,000	\$3,000,000	\$3,000,000
5. Interest (@10%)	\$300,000	\$300,000	\$300,000
6. Equity	\$2,000,000	\$2,000,000	\$2,000,000
 Rate of Return on Equity (ROE@ 10%) 	10%	10%	10%
8. Authorized Earnings	\$200,000	\$200,000	\$200,000
 Revenue Requirement (1+2+5+8) 	\$2,000,000	\$1,980,000	\$2,020,000
10. Sales (kWh)	20,000,000	19,600,000	20,400,000
 Average Price (9÷10) 	\$0.10	\$0.101	\$0.99
12. Earned Revenue (11×10)	\$2,000,000	\$1,960,000	\$2,040,000
13. Revenue Difference (12–9)	0	-\$40,000	+\$40,000
 % of Authorized Earnings (13 ÷8) 	0	-20%	+20%

Addressing the Margin

Lost Margin Recovery Mechanism (LRAM)

- Estimate the sales reduction associated with EE
- Calculate the associated margin under-recovery
- Periodic true-ups
- Can be complicated to determine what is actually lost

Decoupling

- Many flavors, but basically, calculate allowed revenue or revenue per customer and allow utility to periodically true-up to this level based on changes in sales
- Depending on the details, the adjustments can move prices higher or lower
- Not simply about protecting margins; Very much about removing the incentive to promote sales.





State	Type of Utility Performance Incentive Mechanism	Details
ΑZ	Shared Savings	Share of Net Economic Benefits up to 10 percent of total DSM spending.
СТ	Performance Target Savings and other programs goals	Management fee of 1 to 8 percent of program costs (before tax) for meeting or exceeding predetermined targets. One percent incentive is given to meet at least 70 percent of the target, 5 percent for meeting the target, and 8 percent for 130 percent of the target.
G A	Shared Savings	15 percent of the net benefits of the Power Credit Single Family Home program.
HI	Shared Savings	Hawaiian Electric must meet four energy efficiency targets to be eligible for incentives calculated based on net system benefits up to 5 percent.
IN	Shared Savings/Rate of Return (utility-specific)	Southern Indiana Gas and Electric Company may earn up to 2 percent added ROE on its DSM investments if performance targets are met with one percent penalty otherwise.
KS	Rate of Return Incentives	2 percent additional ROE for energy efficiency investments possible.
MA	Performance Target Multi-Factor Performance Targets, Savings, Value, and Performance	5 percent of program costs are given to the distribution utilities if savings largets are met on a program-by-program basis.
MN	Shared Savings Energy Savings Goal	Specific share of net benefits based on cost-effectiveness test is given back to the utilities. At 150 percent of savings target, 30 percent of the conservation expenditure budget can be earned.
M T	Rate of Return Incentives	Two percent added ROE on capitalized demand response programs possible.
NV	Rate of Return Incentives	Five percent additional ROE for energy efficiency investments.
ΝH	Shared Savings Savings and Cost- Effectiveness Goals	Performance incentive of up to 8 to 12 percent of total program budgets for meeting cost-effectiveness and savings goals.
RI	Performance Targets Savings and Cost- Effectiveness Goals	Five performance-based metrics and savings targets by sector. Incentives from at least 60 percent of savings target up to 125 percent.
SC	N/A	Utility-specific incentives for DSM programs allowed.

More E	xpansive Landscape	
	States	
Direct Cost Recovery		
Rate Case	Arizona, California, Colorado, District of Columbia, Hawaii, Idaho, Illinois, Indiana, Iowa, Minnesota, Missouri, Montana, Nevada, New Mexico, Pennsylvania, Texas, Utah, Wisconsin	
SBC	Arizona, California, Connecticut, Maine, Massachusetts, Montana, New Hampshire, New Jersey, New York, Ohio Oregon, Rhode Island, Vermont, Wisconsin	
Tariff Rider/ surchar	Florida, Idaho, Iowa, Kentucky, Ohio, Utah, Washington	
Lost Margin Recovery		
Decoupling	J <u>Electric</u> : California, Idaho, New York, Rhode Island, Minnesota, Maryland. <u>Proposed Electric</u> : Delaware, DC, New Jersey. <u>Gas</u> : California, Indiana, Maryland, Missouri, Nevada, New Jersey, New York, North Carolina, Ohio, Oregon, Rhode Island, Utah. <u>Proposed Gas</u> : Arkansas, Arizona, Colorado, Delaware, Illinois, Michigan, Minnesota, Pennsylvania, Tennessee, Virginia, Wisconsin	
LRAM	Connecticut, Indiana, Kentucky	
Performance Incentive	is a second s	
	Arizona, California, Connecticut, Hawaii, Idaho, Indiana, Kansas, Kentucky, Massachusetts, Minnesota, Montana, Nevada, New Hampshire, Rhode Island, Vermont.	









For More Information				
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