



# National Action Plan for Energy Efficiency

[www.epa.gov/  
eeactionplan](http://www.epa.gov/eeactionplan)

## Achieving the Action Plan's Vision for 2025

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# Overview

- Available tools and resources
  - Help achieve 10 key goals
  - Help organizations achieve public commitments
  - Based on experience guidance of Action Plan Leadership group
- Commitments by organizations and their progress
- How you can be a part



# Available Action Plan Resources

- **Papers:**

- National Action Plan for Energy Efficiency Report -- 2006
- Vision for 2025: Developing a Framework for Change
- Aligning Utility Incentives with Energy Efficiency

- **How-To Guides:**

- Model Energy Efficiency Program Impact Evaluation
- Resource Planning with Energy Efficiency
- Conducting Energy Efficiency Potential Studies

- **Regional Implementation Meeting Materials**

- **Education and Outreach:**

- Online Resource database
- Energy Efficiency Benefits Calculator
- Communications Kit
- Building Codes and Energy Efficiency Fact Sheet
- Consumer Energy Efficiency Fact Sheet
- Sample Educational Presentations

- **Sector Collaborative on Energy Efficiency Materials:**

- Background Paper on Utility Data Availability
- Commercial Customer Energy Consumption Profiles



# Key Tools & Resources

Goal	Type of Tool or Resource		Detailed Action Plan Tools and Resources
	Introduction to Issues in Action Plan Report	Detailed Guide/How to Material	
<b>Goal One:</b> Establishing Cost-Effective Energy Efficiency as a High Priority Resource	X	X	Guide to Resource Planning with EE Guide for Conducting EE Potential Studies Communications Kit
<b>Goal Two:</b> Developing Processes Which Align Utilities Incentives Equally for Efficiency and Supply Resources	X	X	Aligning Utility Incentives with Investment in EE
<b>Goal Three:</b> Establishing Cost Effective Tests	X		Guide to Resource Planning with EE Guide for Conducting EE Potential Studies
<b>Goal Four:</b> Establishing Evaluation, Measurement and Verification Mechanisms	X	X	Model EE Program Impact Evaluation Guide
<b>Goal Five:</b> Establishing Effective Energy Efficiency Delivery Mechanisms	X	X	Regional Implementation Meetings Resources Database



# Key Tools & Resources

Goal	Type of Tool or Resource		Detailed Action Plan Tools and Resources
	Introduction to Issues in Action Plan Report	Detailed Guide/How to Material	
<b>Goal Six:</b> Developing State Policies to Ensure Robust Energy Efficiency Practices		X	Building Codes for EE Fact Sheet
<b>Goal Seven:</b> Aligning Customer Pricing and Incentives to Encourage Investment in Energy Efficiency	X		
<b>Goal Eight:</b> Establishing State of the Art Billing Systems		X	Sector Collaborative on EE; Overview of Utility Data Availability and Proposed Best Practices to Facilitate Energy Benchmarking
<b>Goal Nine:</b> Implementing State of the Art Efficiency Information Sharing and Delivery Systems		X	Paper on Coordination of Demand Response and Energy Efficiency (under development)
<b>Goal Ten:</b> Implementing Advanced Technologies			



# Guides and Papers

## Aligning Utility Incentives with Investment in Energy Efficiency

- Intended audiences:
  - Utilities, state policy-makers, and energy efficiency advocates
  - Those interested in specific options for addressing the financial barriers to utility investment in energy efficiency.
- Scope:
  - Financial effects on a utility of its spending on energy efficiency programs,
  - How the effects could constitute barriers to more aggressive and sustained utility investment in energy efficiency,
  - How adoption of various policy mechanisms can reduce or eliminate these barriers.
  - Examples of such mechanisms drawn from the experience of utilities and states.



# Guides and Papers

## Model Energy Efficiency Program Impact Evaluation Guide

- Intended audiences:
  - Energy efficiency program designers and evaluators
  - Those looking for guidance, resources and references on the evaluation process.
- Scope:
  - Model approaches for calculating energy, demand, and emissions savings resulting from energy efficiency programs.
  - Framework for defining institution-specific or program/portfolio-specific evaluation requirements.
  - Overview of the standard evaluation planning and implementation process, common terms, key evaluation issues, and additional efficiency evaluation resources.



# Guides and Papers

## Guide to Resource Planning with Energy Efficiency

- Intended audiences:
  - Utility resource planners
  - Utility commissions and utility boards
  - Any stakeholder interested in learning more about how to promote energy efficiency resource decisions.
- Scope:
  - Key issues, best practices, and main process steps for integrating energy efficiency into resource planning
  - Elaboration of options, tools and techniques identified in the Action Plan Report





# Guides and Papers

## Guide for Conducting Energy Efficiency Potential Studies

- Intended audiences:
  - Policy-makers, regulators and other state officials
  - Utility staff
  - Efficiency advocates
- Scope:
  - Guidance on how to conduct studies for the purposes of a) building the policy case for energy efficiency; b) evaluating efficiency as an alternative to supply-side resources; or c) formulating detailed program design plans.
  - Overview of the general process to conduct potential studies, common terms and data used, potential study types, key issues, and additional resources.
  - Case studies from existing potential studies



# Sector Collaborative on Energy Efficiency

- Key Year Two activity: broaden utility / end-user dialogue
- Engaged 5 sectors
  - Commercial real estate, hospitality, retail, grocery, and municipal
  - Large share of commercial building energy use
- Key findings:
  - Opportunities for substantial cost-effective energy savings in all sectors
  - Lack of readily available, consistent utility data hinders benchmarking and other energy management efforts
  - Focus on O&M a smart, cost-effective first step
  - Need for sector forums to share best practices
  - Guidelines for procurement and bulk purchasing of energy-efficient products and services would help public and private organizations
- Key outcomes
  - New end-user commitments to reduce energy use by 10 percent or more
  - Recommendation to develop best practices in accessible energy bill information



# Commitments to Energy Efficiency

- Commitments from 120 organizations
  - 15 utility commissions
  - 27 other state/local agencies
  - 34 utilities
  - 7 large-end-users
  - Over 37 others

Type of Commitment	No. of Orgs.
State-level collaborative processes	15
Additional energy efficiency spending	4
New and expanded efficiency programs	17
Policies to align utility incentives	5
Efficiency in resource planning	24
Aggressive energy savings goals	26
Stakeholder education	63



# Organizations That Endorsed the Five Action Plan Recommendations and/or Made Commitments to Energy Efficiency

- Advantage IQ
- Alliance to Save Energy
- American Council for an Energy-Efficient Economy
- American Electric Power
- American Gas Association
- American Public Power Assoc.
- Arkansas Public Service Com.
- Arlington County, Virginia
- City of Aurora, Colorado
- Austin Energy
- Bonneville Power Administration
- Building Owners and Managers Association International
- Connecticut Departments of Public Utility Control, Environmental Protection, and Office of Consumer Counsel
- Costco Wholesale
- Delaware Public Service Com.
- City of Denver, Colorado
- Dominion Virginia Power
- Dow Chemical Company
- California MOU Signatories:  
Governor Arnold Schwarzenegger, Public Utilities Commission, Energy Commission, Anaheim Public Utilities, Burbank Water & Power, Gridley Municipal Utilities, LA Department of Water & Power, Natural Resources Defense Council, Northern California Power Agency, Pacific Gas & Electric Company, City of Palo Alto Utilities, Pasadena Water & Power, Sacramento Municipal Utility District, San Diego Gas & Electric Company, Southern California Edison Company, Southern California Gas Co., Silicon Valley Power, City of Shasta Lake Electric Utility
- Duke Energy
- Eastman Kodak
- Edison Electric Institute
- Efficiency Texas
- Electric Power Research Institute
- Energetics Incorporated
- EnergySolve Companies
- EnerNOC, Inc.
- Entergy Corporation
- Exelon
- Florida Public Service Commission
- Food Lion
- Great River Energy
- Hawaii Department of Business, Economic Development & Tourism
- Hawaii Public Utilities Commission
- HTS Enterprise EERE Institute
- Idaho's Governor, Public Utilities Commission, Energy Division, Depart. of Environmental Quality
- Indianapolis Power & Light
- City of Indianapolis, Indiana
- Iowa Governor, Utilities Board
- ISO New England
- Iowa Utility Association
- Johnson Controls
- Kankakee County Housing Authority, Illinois



# Organizations That Endorsed the Five Action Plan Recommendations and/or Made a Commitment to Energy Efficiency

- Kansas Corporation Commission
- King County, Washington
- Large Public Power Council
- Louisville Metro Gov't, KY
- Maryland Governor, Maryland Energy Administration
- City of Medford, MA
- Mid-America Regulatory Conference
- MidAmerican Energy Company
- Midwest Energy Efficiency Alliance
- Midwest Independent Transmission System Operator
- Minnesota Public Utilities Commission, Department of Commerce
- Town of Mountain Village, CO
- National Association of Energy Service Companies
- National Rural Electric Cooperative Association
- National Association of State Energy Officials
- Natural Resources Defense Council
- New England Conference of Public Utilities Commissioners
- New Jersey Board of Public Utilities
- New Jersey Natural Gas
- New York State Public Service Commission
- North American Insulation Manufacturers Association
- Northeast Energy Efficiency Partnerships
- Ohio Consumers' Counsel Office
- Oregon Governor, Public Utility Commission, Department of Energy, Energy Trust of Oregon
- Orion Energy Systems
- Pepco Holdings, Inc.
- PNM Resources
- Public Service Electric and Gas Co.
- San Miguel County, Colorado
- Santee Cooper
- Seattle City Light
- City of Somerville, Massachusetts
- Southeastern Association of Regulatory Utility Commissioners
- Southern Company
- Stop & Shop/Giant Foods
- Tennessee Valley Authority
- Tri-State Generation and Transmission Association
- United Cooperative Services
- United Technologies Corp.
- USAA Realty
- Utah Governor's Office
- Vectren Corporation
- Vermont Energy Investment Corporation
- Vermont Public Service Board
- Wal-Mart Stores, Inc.
- Washington Utilities and Transportation Commission
- Waverly Light and Power
- Western Conference of Public Service Commissioners
- Whole Foods Market
- Public Service Commission of Wisconsin
- Xcel Energy
- Xerox Corporation



# Progress in Meeting Commitments

- Commitment updates were released on November 12, 2007
  - Full text and press releases from various organizations available on Action Plan website ([www.epa.gov/eeactionplan](http://www.epa.gov/eeactionplan)) under “Commitments”
  - To explore making a commitment contact Katrina Pielli ([pielli.katrina@epa.gov](mailto:pielli.katrina@epa.gov), 202-343-9610)
- Examples include:
  - **Entergy:** new programs in Arkansas; pursuing passage of PBF legislation in Louisiana; co-funding collaborative process in New Orleans
  - **Great River Energy (MN):** efficiency savings goal equal to 1.5% of annual energy sales
  - **Hawaii PUC:** EE Order determined cost recovery and incentives mechanisms
  - **NJ Board of Public Utilities:** With other state agencies, set goal to reduce projected energy use by 20% by 2020
  - **NY PSC:** Energy Efficiency Portfolio Standard (EPS) for a 15% reduction in electricity usage below the 2015 forecasted level; to establish goal for gas
  - **Seattle City Light:** Efficiency is "Resource of First Choice" in IRP—140 average MW of cost effective EE over the next 20 years
  - **Vermont Public Service Board:** 2008 budget is 76% higher than previous EE statutory cap; EE and DSM receiving capacity payments in ISO-NE





# Progress in Meeting Commitments

## Example – Duke Energy

- Active EE collaboratives in 5 states, including customers, education, environmental organizations, regulators, and state government.
- Initiated state-wide energy efficiency summits in 4 states to explore new or revised programs, policies, or partnerships.
  - Planning a second summit in Kentucky for November 2008.
- Filing new energy efficiency programs and supporting rate cases:
  - Duke's Ohio energy efficiency plan kicked off in October, 2007. Teaming up with General Electric, Wal-Mart and Sam's Club on customer rebate programs.
  - Duke filed new rate cases in NC and SC which will collectively result in 1,860 MWs of capacity over a four year period. Increased investment in efficiency programs have been approved in Ohio and further programs will be evaluated in Indiana and Kentucky.
  - Duke Energy has filed a new approach to energy efficiency in NC, SC and IN. In July 2007, Duke Energy gained approval for new energy efficiency programs in Ohio and is now implementing those programs. Each of these plans call for new programs and/or the significant expansion of existing programs.



# Action Plan Leadership Working Across their Spheres of Influence

## Example – Duke Energy

- Duke Energy and CEO Jim Rogers has committed a significant amount of time to promoting the Action Plan objectives and energy efficiency at the national and state level.
  - Including congressional testimonies, television shows, Op-Eds, and over a dozen national speeches.
- Mr. Rogers has reached out to other utilities and as a result
  - Eight utilities representing 20 million customers in 22 states made a commitment to the Clinton Global Initiative
  - They will increase their investment in energy efficiency by \$500 million annually given the appropriate regulatory treatment.
  - With an estimate impact of reducing carbon dioxide emissions by about 30 million tons -- equivalent to removing nearly 6 million cars from the road – at the end of 10 years
  - A new Institute for Electric Efficiency will be formed to promote the sharing of information, ideas and experiences on effective means of delivering energy efficiency.





# Action Plan Next Steps

- Outreach, Training and Recognition
  - Broad outreach including periodic newsletter to share information / spotlight efforts
  - Increased outreach to key stakeholder groups, including NASUCA
- Additional resources to assist in meeting Vision implementation goals
  - Coordination between energy efficiency and demand response
  - Initiative to promote standardized billing information
  - State and Local government lead-by-example energy efficiency efforts
  - Customer incentives for energy efficiency
  - Additional guidance on defining cost-effectiveness of programs
  - More detailed work on codes and standards
  - Energy efficiency program design and implementation
- Additional resources to assist in linking/addressing emerging issues/related policies
  - Energy efficiency workforce planning issues
  - Efficiency to assist in meeting carbon goals
  - Outlining the most energy efficient economy in the world
- Refinement of Measuring Progress toward the 2025 Vision



# How You Can Get Involved

- Share your issues
  - What do you see limiting investment in energy efficiency?
  - How can the barriers be addressed?
- Spread the Word
- Endorse the Action Plan Recommendations
- Make a public commitment to energy efficiency under the Action Plan

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