



U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

UPDATE on EERE's Weatherization & Intergovernmental Program

February 7, 2014

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Recovery Act in Summary

Accomplishments figures are combined SEP and EECBG data and represents the most updated sums for the entire Recovery Act period through December 31, 2013; Data is subject to change daily, even after the reporting period ends.

SPENDING



- ☐ **SEP:** \$3.05 (99.6%) spent of \$3.1B Allocated
- ☐ **WAP:** \$4.81 (99.6%) spent of \$4.84B Allocated
- ☐ **EECBG:** \$2.72 (98%) spent of \$2.77B Allocated

ACCOMPLISHMENTS



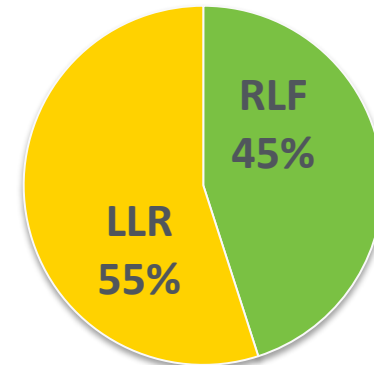
- ☐ Nearly **195,000 buildings (1.4B square feet)** retrofitted
- ☐ More than **42,000 Renewable Energy Systems (850,000 kW)** installed
- ☐ More than **300,000 energy efficient traffic signals** and **210,000 street lights** installed

State ARRA-funded Financing Programs (RLF & LLR)

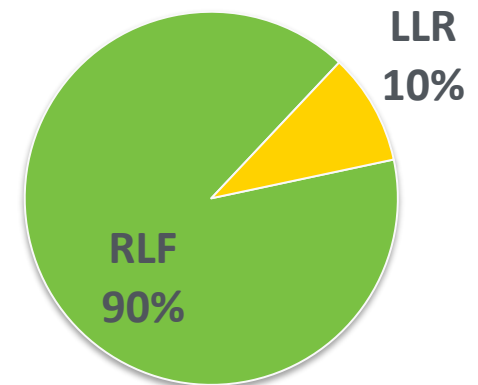
- \$664 million in SEP ARRA funding has been budgeted to 39 state-run loan programs (RLF & LLR).
- \$483 million (73% of funds) in loans have been made to date.

Sector breakout	Number of Loans Given	Amounts of Loans Given
Agricultural	24	\$720,048
Commercial	207	\$85,356,321
Industrial	82	\$103,628,945
Institutional	19	\$19,757,234
Public	1,112	\$225,852,570
Residential	3,162	\$47,839,079
TOTAL	4,606	\$483,154,197

Program Type, by loan count



Program Type, by loan value



Weatherization Assistance Program

- Less than \$18 million remains from the \$4.8 billion in Recovery Act funds; states have reported more than **803,000 homes weatherized** using Recovery Act funds, **48,000 homes in FY13** with annual appropriations, and already **5,700 homes in FY14 Q1** with annual appropriations.

WAP Funding FY 2008-2014 (thousands)

	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
Weatherization Assistance Formula Grants	222,713	436,770	176,700	171,000	65,000	61,502	171,000
Training and Technical Assistance	4,509	13,230	3,300	3,300	3,000	2,826	3,000
Innovations in Weatherization	-	-	30,000	-	-		-
Total	227,222	450,000	210,000	174,300	68,000	64,066	174,000

**ARRA not included.*

Note: FY 2013 amount does not include \$ in DOE supplemental funding.

- 2014 State Plan Application process will be initiated in late February to help Weatherization applicants with timely and effective submissions in 2014.

Weatherization Assistance Program

- WAP continues to support the accreditation of training centers and instructors by the Interstate Renewable Energy Council. Several training centers have received or are preparing for accreditation.
- Quality Work Plan Implementation: Starting this month, the WAP T&TA team will provide targeted training and technical assistance to Project Officers and grantee staff to ensure that all individuals involved in administering the QWP have the knowledge and resources to implement the plan in an efficient manner.
- WAP is currently developing new audit and workforce guidelines for multi-family energy professionals.
- At the NASCSP Mid-Winter Conference in March the first two days will be dedicated to orientation of new WAP directors and is free to states. Register on NASCSP's website now.

State Energy Program

- 5 of 56 ARRA grants retired, representing an investment of \$285M (100% spent); 44 of 56 ARRA grants now inactive (pending retirement), representing an investment of \$2.39B (99.74% spent); 7 ARRA grants remain active, representing an investment of \$432M.
- Beginning the week of February 17, calls will be conducted between WIP and the State Energy Office directors to discuss issues or concerns with ARRA, formula or competitive grants.
- SEP is developing an annual grant risk assessment framework to be used for assessing the need for on-site monitoring of annual grants.

SEP Funding FY 2008-2014 (thousands)

	FY 2008	FY 2009*	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
Formula	33,000	25,000	25,000	39,000	30,000	36,600	39,000
Competitive & TA	11,000	25,000	25,000	11,000	20,000	10,300	11,000
TOTAL	44,000	50,000	50,000	50,000	50,000	46,900	50,000

**ARRA not included.*

SEP Formula Grants 2010 - 2013

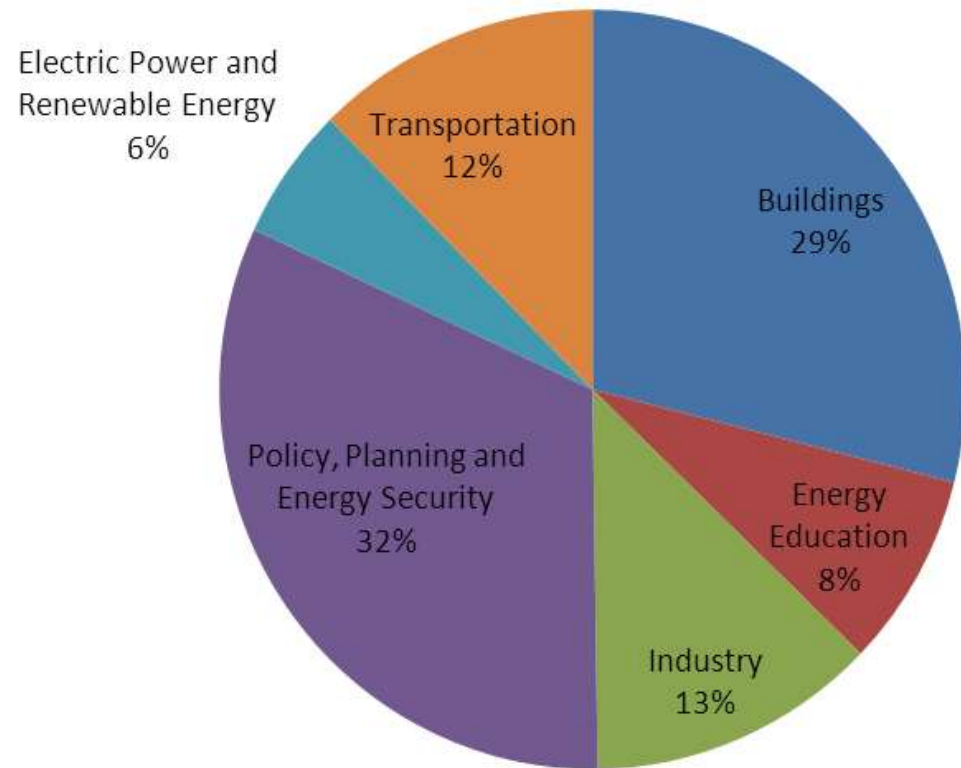
Eligible Activities

- Demonstrations of EE & RE technologies
- Public education on EE & RE
- Increasing transportation efficiency
- Financing for EE & RE projects
- Energy audits & retrofits of buildings and industrial processes
- Emergency Planning
- Demand reduction
- Training & incentives for builders & building designers

Ineligible Activities

- Research
- Utility rate demonstrations
- New construction
- Purchase land or buildings
- Loan guarantees

Formula Grant Program Area Summary



SEP FY13 Competitive Awards

SEP awarded more than \$4 million to 13 states to increase statewide energy savings and boost the energy efficiency of public institutions, local governments, and industrial sectors.

Area 1: Advancing Industrial Energy Efficiency

Develop programs and strategies resulting in greater investment in energy efficiency and combined heat and power (CHP) and a corresponding increase in the productivity and competitiveness of the industrial sector

AL, IA, KY, MN, MS, OR, TX, WI

Area 2: Stimulating Energy Efficiency Action

Develop high-impact policy and program frameworks to support investment in energy efficiency and increase energy savings

AR, MS, AK, TX*, KY*, MS*, NH**, WA****

Area 3: Driving Demand for Public Facility Retrofits

Stimulate demand for public facility retrofit programs in local government facilities, public housing and state facilities

IA, MD, MA, SC, TN, WI

Area 4: Clean-Energy Economic Opportunity Roadmaps

Develop economic development strategies focusing on clean-energy products, clean-energy services and industrial efficiency improvements

MI, NC, WA

SEP FY13 Competitive Awards

Area	No. of Awards	Funding Levels
1	8	\$750,000
2	2	\$1,000,000
3	6	\$2,100,000
4	3	\$1,100,000
Total	19	\$4,950,000

SEP FY13 Competitive Awards: Area of Interest 1

Advancing Industrial Energy Efficiency and CHP

<i>States</i>	<i>Goals</i>	<i>Outcomes</i>
Alabama Iowa Kentucky Minnesota Mississippi Oregon Texas Wisconsin	<ul style="list-style-type: none">• Identify State-specific policy, regulatory, utility and market barriers to deployment of CHP; develop corresponding action items• Increase awareness of the opportunities and benefits of CHP/IEE with stakeholder base• Expedite and assist in the CHP policy and project development process	<ul style="list-style-type: none">• 8 Action Plans developed through stakeholder engagement with policymakers, utilities, and industrial sector.• 2 States with improved permitting process to expedite CHP project development.• 1-2 incentive programs to drive CHP deployment in the industrial sector.• 7 guides and/or tools to help manufacturers identify CHP opportunities and guide them through the project development process.• 4 States with potential CHP/IEE demonstration projects in industrial subsectors.• 3 States recruit industry/institutions to undergo detailed CHP feasibility studies.• 2 CHP education curricula and materials developed and deployed.

SEP FY13 Competitive Awards

Stimulating Energy Efficiency Action

<i>States</i>	<i>Goals</i>	<i>Outcomes</i>
Arkansas Mississippi	<ul style="list-style-type: none">Arkansas: Meet and exceed AR's second cycle of efficiency targets as part of the phased EERSMississippi: Implement, support and enhance <i>Chapter 29 Conservation and Energy Efficiency Programs</i> to provide significant savings	<ul style="list-style-type: none">Policy mechanisms for investor-owned, cooperative and public utilities that create incentives for investment in energy efficiency.Strategies to enhance previously adopted energy efficiency rules to provide significant energy savings.Robust stakeholder engagement strategies to broaden the base of support for energy efficiency.

SEP FY13 Competitive Awards

Retrofitting Public Buildings

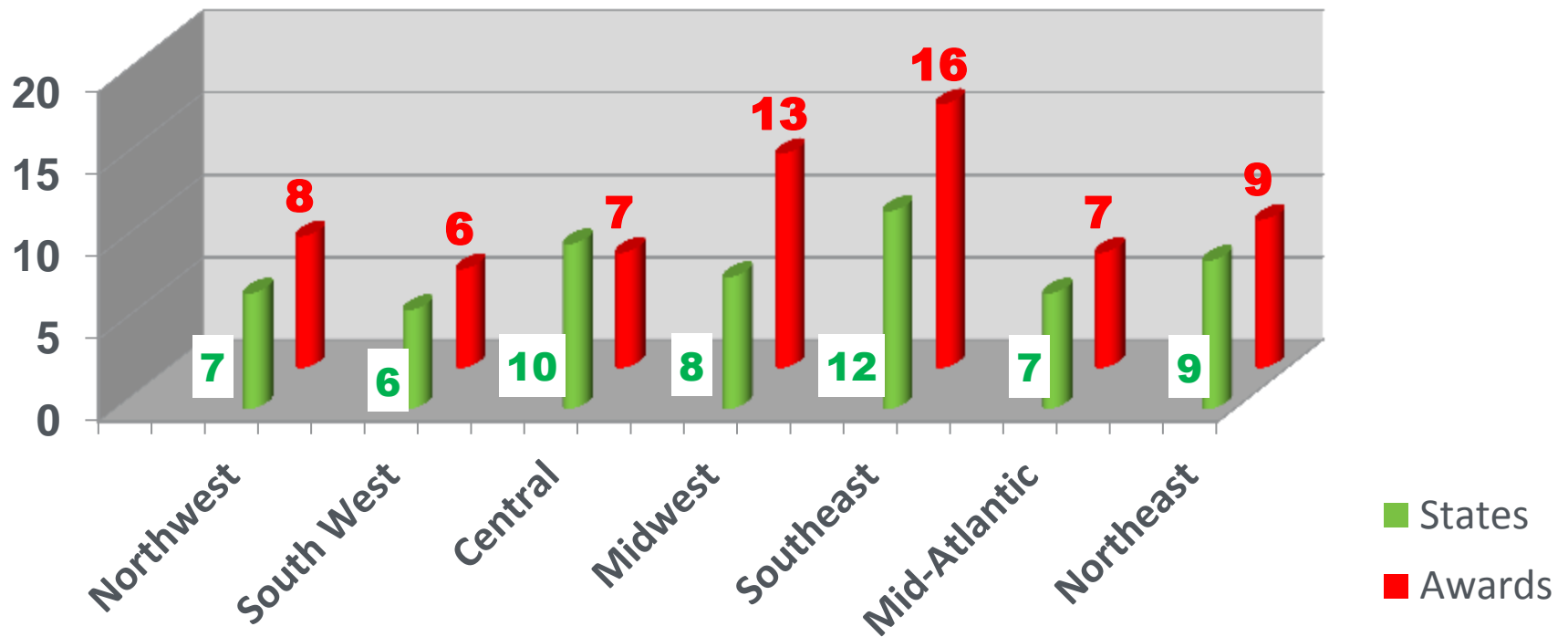
<i>States</i>	<i>Goals</i>	<i>Outcomes</i>
Iowa Maryland Massachusetts South Carolina Tennessee Wisconsin	<ul style="list-style-type: none">• Establish solutions across six States to facilitate the use of energy savings performance contracts (ESPC) and other sustainable financing mechanisms.• Implement plans to drive demand for retrofit projects, particularly in underserved sectors of State and municipal buildings, including public housing, small buildings, and schools.• Demonstrate sustainable financing mechanisms in actual retrofit projects.	<ul style="list-style-type: none">• 6 model approaches impacting 45M+ square feet of public buildings, including the underserved sectors of schools, public housing and small buildings.• 4 technical assistance programs to overcome barriers to sustainable financing.• 3 marketing/educational outreach strategies to increase demand for energy efficiency retrofits.• Pilot projects demonstrating sustainable financing.

SEP FY13 Competitive Awards

Clean Energy Economic Opportunity Roadmaps

<i>States</i>	<i>Goals</i>	<i>Outcomes</i>
Michigan North Carolina Washington	<ul style="list-style-type: none">• Create regional economic development strategies focusing on clean-energy products, services and manufacturing.• Develop partnerships with the nation's public and private sectors, universities, think tanks, and other stakeholders to identify and commit to pathways to encourage investment in clean-energy manufacturing	<ul style="list-style-type: none">• Three Models for Clean-Energy Economic Opportunity Roadmapping:<ul style="list-style-type: none">• Baseline the region's existing clean-energy assets (production facilities, services providers, supply chains, R&D capacity, workforce development)• Examine clean-energy market opportunities to assess their alignment with existing regional manufacturing capabilities• Identify key areas of regional competitive advantage

SEP Competitive Awards 2010 – 2013 by Region



SEP Competitive Funding FY 2010 - 2013

Sector and Focus	Investment	Awardees
Buildings		
FY 10 – Strengthening Building Retrofit Markets	\$25,000,000	7 States: AL, MA, ME, MI, NV, VA, WA
FY 11 – Streamlined Standards & Policy Initiatives to Enhance Commercial Building Retrofits	\$ 4,000,000	5 States: CO, MA, NV, VT, VA
FY 12 – Advancing EE in Public Buildings	\$ 8,000,000	13 States: AZ, HI, IL, IA, MD, MA, MS, MO, NJ, NM, NY, RI, WI
FY 13 – Advancing Industrial EE	\$ 750,816	8 States: AL, IA, KY, MI, MS, OR, TX, WI
FY 13 – Clean Energy Economic Opportunity Roadmps	\$ 1,059,917	3 States: MI, NC (w/SC, GA & VA as partners), WA
Total Buildings	\$38,810,733	
Finance		
FY 12 – Deploying Fee-based Self-funded Public Facility Programs	\$ 5,000,000	8 States: AK, CA, KY, MN, NC, NV, VA, WA
FY 13 – Driving Demand for Public Facility Retrofits	\$ 2,099,448	6 States: IA, MA, MD, SC, TN, WI
Total Finance	\$ 7,099,448	
TOTAL	\$45,910,181	

Program Evaluations

SEP

- FY 2008 and ARRA, driven by a sample of common efforts across all grantees rather than each grantee's specific activities.
- Data collection was complete as of December 2013.
- Evaluation expected to be complete and published by the fourth quarter of FY 2014.

WAP

- 40 studies in total between the Retrospective (Program Years 2007 and 2008) and ARRA period.
- Retrospective evaluation expected to be complete by end of February 2014
- ARRA period evaluation expected to be complete by September 2014.

EECBG

- Conducting telephone and web surveys on 316 projects which include 350 activities to examine outcomes achieved during ARRA; purpose is to reliably quantify principal outcomes achieved.
- Data collection expected to be complete by April 2014.
- Evaluation expected to be complete by September 2014.

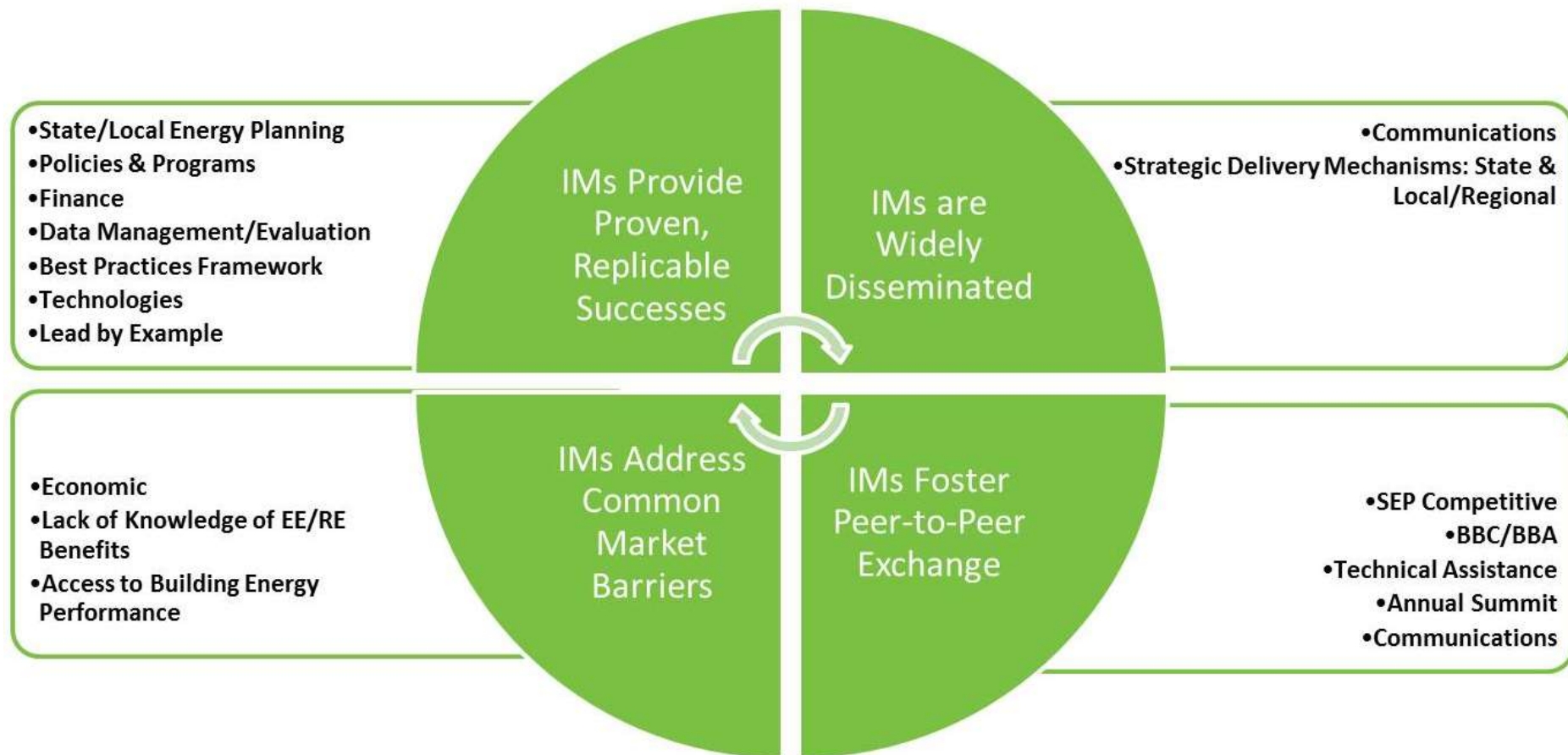
Better Buildings Challenge (BBC) Update

- BBC Partners and Allies have made significant progress, with more than 60 showcase projects and nearly 40 implementation models have been completed or are underway highlighting innovative, aggressive, and realistic strategies for realizing energy savings.
- In June of 2013, DOE and HUD partnered to expand BBC to the multifamily residential sector as part of the President's Climate Action Plan. As of December, 50 Organizations with Multifamily Residential Housing Joined the Challenge.
- More than 50 State and Municipal Partners and 16 Education Partners as of December.



SEP & BBC Competitive Implementation Models (IMs)

SEP Competitive Awardees and BBC partners are developing implementation models that address market barriers and identify replicable solutions to the cost-effective adoption of renewable energy and energy efficiency technologies and practices.



IMs Representing Geographic and Topic Diversity

To more effectively manage their energy and water use in state-owned buildings, the **State of North Carolina established a comprehensive energy and water management program** resulting in nearly \$550M in avoided utility costs and reduced energy and water consumption by 27% and 26% respectively.

STATE OF NORTH CAROLINA



CITY OF GILLETTE, WY



The City of Gillette established a GIS-based inventory process, depreciation schedule and tracking system to more effectively manage maintenance and repair of City Hall's HVAC equipment. Due to the limited access to funding, staff members often find themselves managing large volumes of deferred maintenance, lobbying for replacement budgets, and making equipment purchase decisions with less than optimal data. This newly established system will help the City proactively prepare for its capital needs and is highly replicable for any building facility.

Pittsburgh created the “Green Trust Fund” to set aside funds for energy conservation projects and to recycle project savings back into fund for further reinvestment. As savings are realized from reduced rates from aggregated energy purchases, energy efficiency projects, and renewable energy generation, those funds are revolved back into the Fund for investment in additional projects.

CITY OF PITTSBURGH



State & Local IMs Completed and in Production:

SEP Competitive IMs (FY 10, 11 and 12) in Production		BBC State IMs in Production	BBC Local Government IMs Completed
State of Alaska	State of Mississippi	State of Delaware	City of Atlanta
State of Arizona	State of Missouri	State of Maryland	District of Columbia
State of Hawaii	State of New Jersey	Commonwealth of	City of El Paso
State of Illinois	State of New Mexico	Massachusetts	City of Gillette, WY
State of Iowa	State of New York	State of Minnesota	City of Houston
State of Kentucky	State of Rhode Island		City of Los Angeles
State of Maryland	State of Texas		City of Pittsburgh
Commonwealth of	State of Wisconsin		Kitsap County, WA
Massachusetts			

2014 Better Buildings Summit – SAVE THE DATE!

May 7 - 9, 2014; Washington, D.C.

Better Buildings Initiative Partners and other stakeholders will join to catalyze investment in energy efficiency across the public, private, commercial, industrial, and multifamily sectors. Leaders will be recognized and innovative market solutions and best practices highlighted.

<http://www1.eere.energy.gov/buildings/betterbuildings/summit/>

<i>Innovative Replicable Solutions from Market Leaders</i>	<i>Making Energy Efficiency Investment Easier</i>	<i>High Impact Technologies</i>	<i>Collaborations and Partnerships</i>
Track will feature sessions on the energy management practices and demonstrated business solutions Better Buildings partners are putting in place to achieve their energy goals while transforming the energy efficiency marketplace.	Track will feature sessions on how Better Buildings partners make use of data and information and the strategies they have adopted to mobilize capital and/or secure financing for energy savings projects.	Track will feature sessions on the types of technologies deployed by Better Buildings partners and the systems/whole-building approaches they take to improve energy efficiency across an entire portfolio.	Track will feature sessions on how to collaborate or partner with labs, utilities, manufacturers, cities, states, and other energy efficiency stakeholders to achieve the Better Buildings Initiative goal to cut energy waste in our nation's buildings by 20% in 10 years.

Better Buildings Initiative: ESPC Accelerator

As part of the President's Climate Action Plan, DOE is engaging leaders in a set of **Better Buildings Accelerators** which are designed to demonstrate specific innovative policies and approaches to accelerate investment in energy efficiency.

1. **Performance Contracting Accelerator** is designed to expand the use of performance contracting by federal, state, and local governments, K-12 schools, and others.
2. **Energy Data Accelerator** is designed to demonstrate low-cost, standardized approaches for providing energy data for the purpose of whole building energy performance benchmarking.
3. **Industrial Superior Energy Performance (SEP) Accelerator** is designed to demonstrate cost savings from implementing SEP enterprise-wide, as well as to demonstrate strategic energy management through SEP as an effective ratepayer-funded energy efficiency program offering for industrial facilities.



<http://www1.eere.energy.gov/buildings/betterbuildings/accelerators/>

ESPC Accelerator Partners *(as of December)*

Performance Contracting (16 partners)

- City of Cincinnati, OH
- City of El Paso, TX
- City of Fort Worth, TX
- City of Houston, TX
- City of Newark, NJ
- Philadelphia School District
- State of Alabama
- State of Colorado
- State of Hawaii
- State of Massachusetts
- State of Michigan
- State of Minnesota
- State of New Mexico
- State of Virginia
- State of Washington
- The Virgin Islands

Energy Data (34 partners)

- 16 Utilities
- City of Atlanta, GA
- City of Austin, TX
- Cities of Boston and Cambridge, MA
- City of Chicago, IL
- City of Columbus, OH
- District of Columbia
- City of Houston, TX
- City of Kansas City, MO
- City of Los Angeles, CA
- City of Minneapolis, MN
- City of New York, NY
- City of Philadelphia, PA
- Cities of San Diego and Chula Vista, CA
- City of San Francisco, CA
- City of Santa Monica, CA
- City of Seattle, WA

Industrial Superior Energy Performance (9 partners)

- Enterprise-wide Pathway
- 3M Company
- Cummins Inc.
- General Dynamics Ordnance and Tactical Systems
- Nissan North America, Inc.
- Schneider Electric
- Volvo Group North America

- Ratepayer-funded Pathway
- Bonneville Power Administration
- Efficiency Vermont
- Northeast Utilities



QUESTIONS?

Thank You

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