

The SEP/EECBG Technical Assistance Program

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



**STEAB – Washington, D.C.
June 7, 2011**

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DOE Lead , Technical Assistance
Program**

- Goals and Priorities
- TAP by the Numbers
- Solution Center and Resources
 - Local
 - Peer to Peer Exchange
 - Policy Toolkits
 - Community Energy Strategic Planning
 - State
 - Peer to Peer Exchange
 - Energy Service Performance Contracting
 - Private Finance

Goal: To provide SEP & EECSBG recipients with the resources needed to swiftly implement successful and sustainable clean energy programs.

Objectives

- **Accelerate** implementation, by proactively providing assistance to grantees
- **Improve** the performance of programs and projects, by connecting grantees to technical expertise and sharing best practices
- **Increase** the return on Recovery Act investments, by focusing on highly-leveraged initiatives
- **Increase** the sustainability of Recovery Act investments, by assisting grantees in developing policies and programs
- **Build** protracted capacity at the state, local, and tribal level, by supporting and expanding a network of energy practitioners

TAP offers:

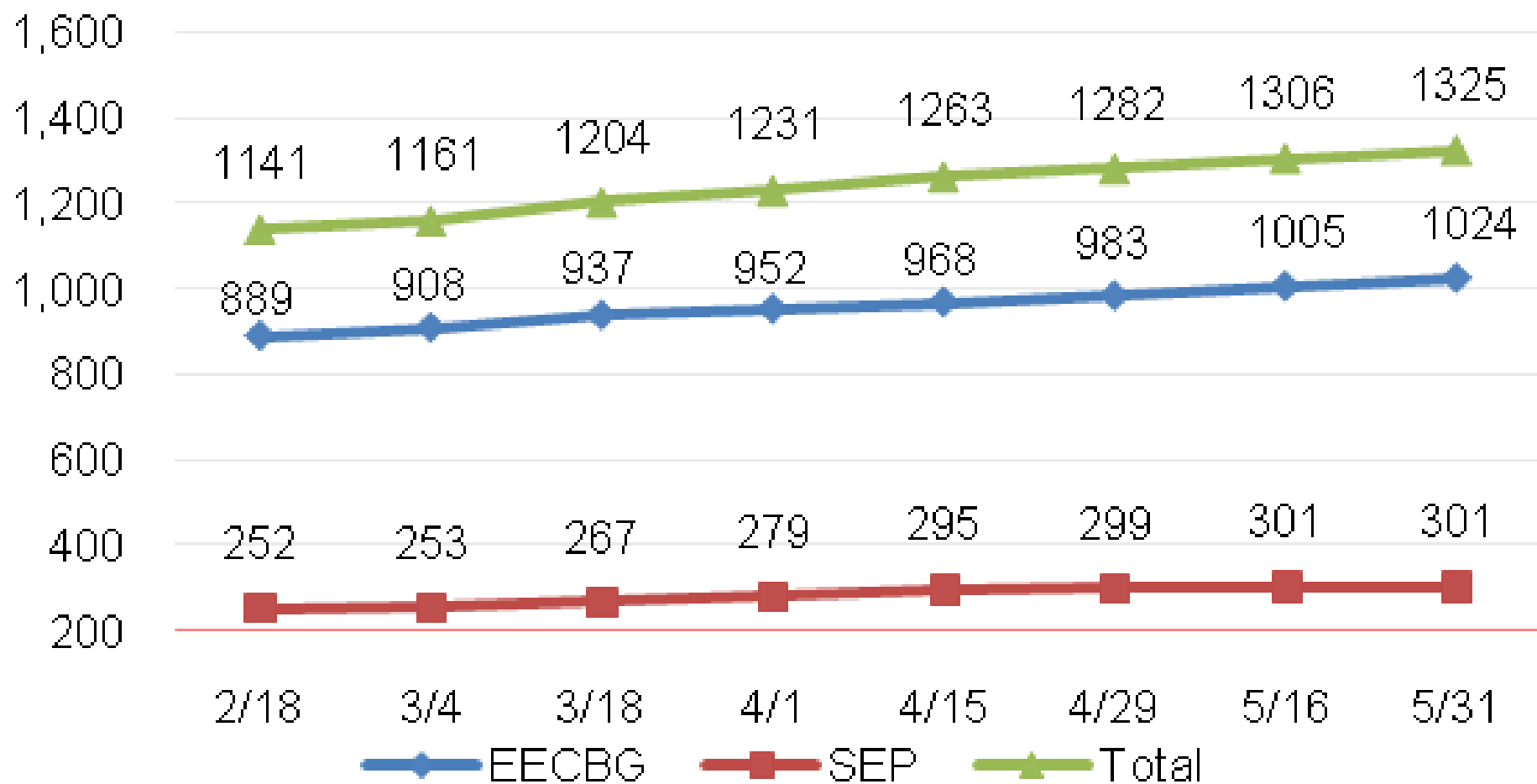
- Direct assistance
- Aggregated Assistance
 - Materials Extensive online resource library
 - Webinars
- Peer exchange
 - Monthly calls
 - Regional Meetings
 - Peer Matching
 - TAP Blog

On topics including:

- Energy efficiency and renewable energy technologies
- Program design and implementation
- Financing
- Performance contracting
- State and local capacity building

- 1,325 requests for direct technical assistance, 1092 closed and 233 in process
- 197 webinars held to date
 - Over 17,600 attendees (on average 175-200 attendees per session)
 - Highest demand for new technologies, alternative financing, and sustainability
- 2068 attendees on monthly regional peer exchange calls
- 655 attendees in 7 regional peer exchange meetings and 8 Tribal meetings

Total Cumulative TAC Requests by Program



EERE Header

Solution Center-Technical Assistance for State & Local Communities

Home

About

Information Resources

Request Technical Assistance

Peer Exchange Opportunities

Search

Program Description

Event Announcements

Flash Rotating Graphic

- Project Map
- EECBG Eligible Activities
- SEP Eligible Activities
- Announcements (new webinars, meetings, blog posts)

I am looking for resources on...

- Strategic Energy Planning
- State & Local Policy
- Program Design
- Financing Solutions
- Technology Deployment
- Evaluation, Measurement & Verification
- Outreach and Coalition Building

Be an Energy Leader

Submit Your Case Study

Peer Exchange Meeting Materials

TAP Blog

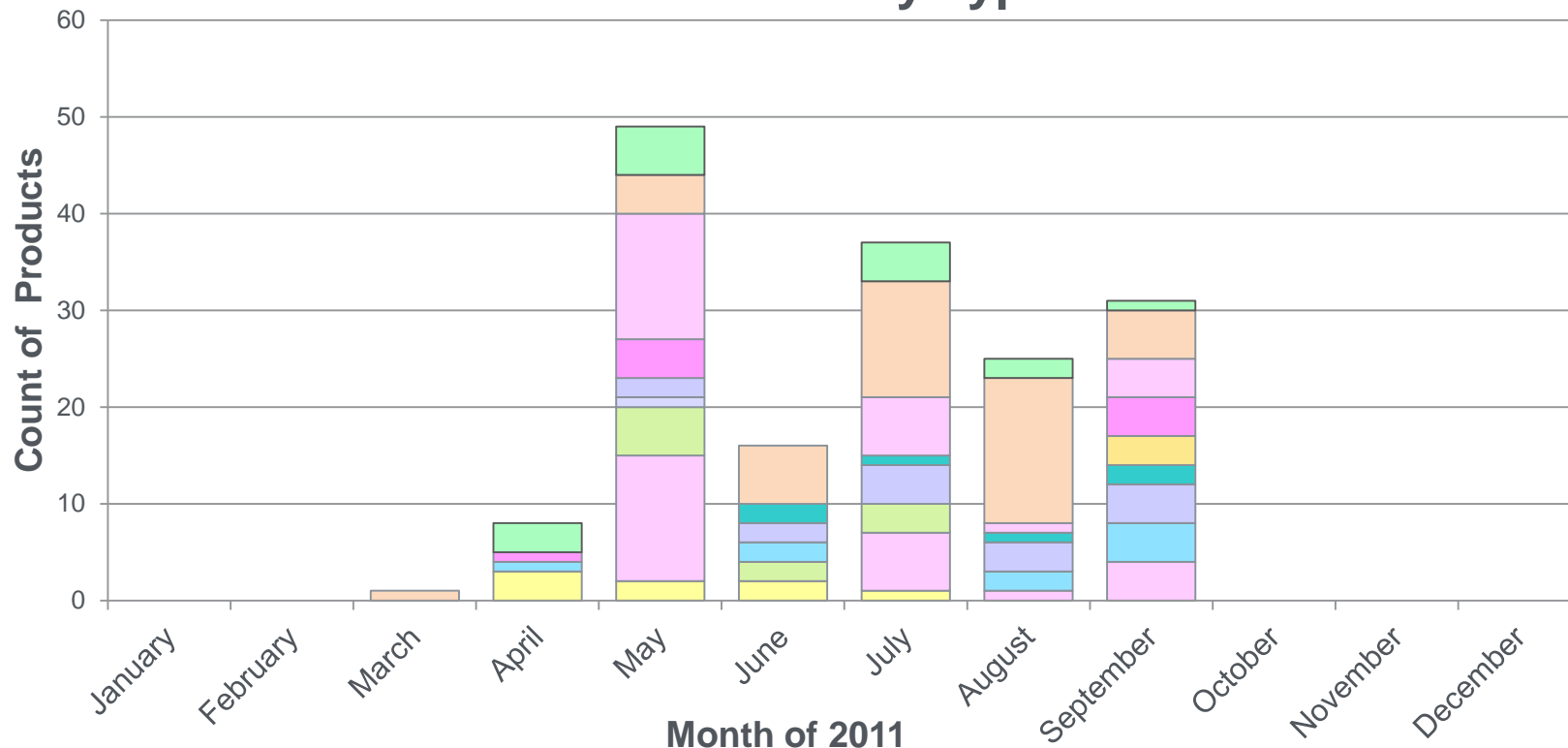
Webcasts

Who is your Regional Coordinator?

Program Guidance

Program News

TAP Products by Type



Case Study

Flyer

Other

EECEBG/SEP Success Story

EECEBG/SEP Success Story

Guidebook

Presentation

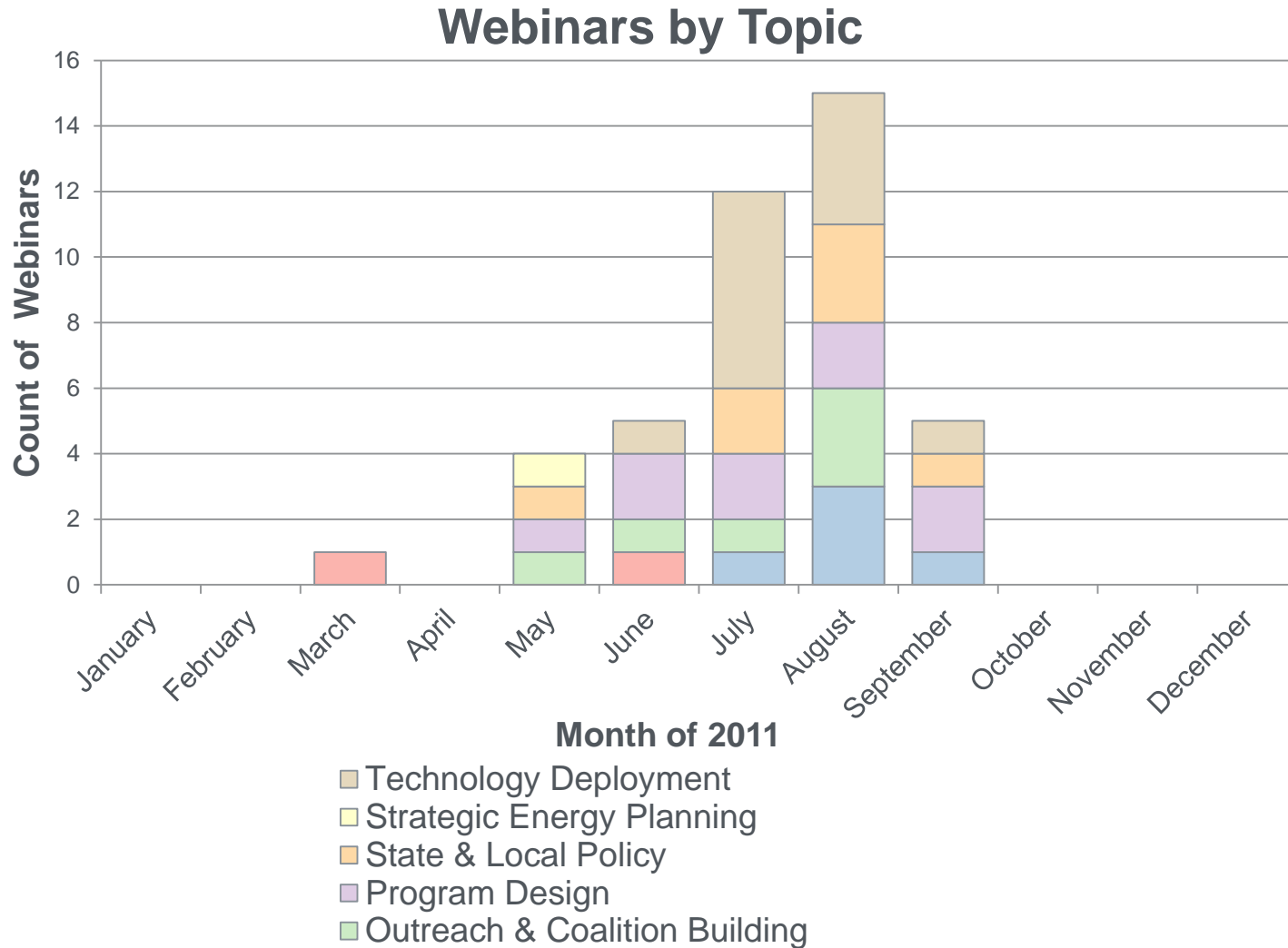
Webinar

Fact Sheet

Issue/Program Brief

TA Impact Statement

White Paper



- **Goal**

Develop regional networks among federal, state and local level energy practitioners and share resources, experiences, and best practices to overcome barriers, and implement EERE projects.

- **Peer Exchange Forums/Results**

- **Monthly Regional Peer Exchange Calls**

- 72 regional calls; 2,068 attendees
- Forum for presentations by grantee and technical assistance providers and office hours
- Useful tool to identify champion grantees, mentors and innovation

- **Regional Peer Exchange Meetings**

- 7 meetings January–March 2011; 490 grantees
- 97% indicated they established connections with fellow grantees
- 90% indicated they left the meetings with new ideas about how to improve their ARRA programs

- Peer-to-Peer Matching (Calls)
 - RCs have identified 98 peer-to-peer (P2P) providers – champion grantees willing and able to help other grantees.
- RC-Facilitated Aggregated Peer Exchange
 - 17 group calls; 58 grantees (does not include peer exchanges via email)
 - Group calls address similar questions from multiple grantees
 - Examples:
 - Northeast RC worked with 10 towns across Rhode Island to set up a larger energy savings performance contract across several jurisdictions.
 - Southeast RC is working with 6 sustainability managers to organize an Appalachian Peer Network that will help local governments engage with their utilities and form partnerships.
 - North Central RC worked with 5 grantees to facilitate a lighting peer exchange call. Grantees continue to assist each other on an individual basis.
 - Southwest RC helped the San Diego Regional Street Lighting Working Group share information with local municipalities and connect them to the interactive file sharing site containing the Working Group's resources.
 - Tribal RC worked with Alaska grantees to exchange best practices for woody biomass heating systems in remote native villages.

- **Residential Retrofit**

- Homes account for 22% of current US energy consumption, and 2/3 of facilities that will be in use in 2050 exist today
- Programs or projects addressing existing buildings made up about 1/3 of the EECBG spend
- Addresses workforce issues; codes and disclosures; incentives and financing; program support

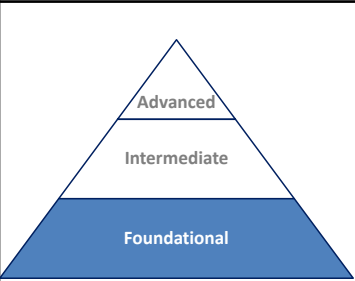
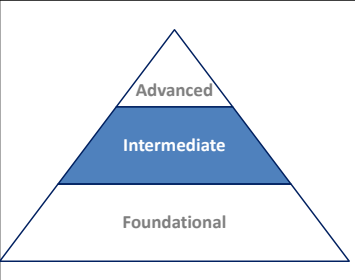
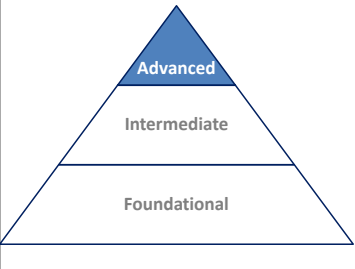
- **Energy Use in Public Buildings**

- Many projects identified in EECBG plans are for public buildings
- Provides savings potential and an ideal opportunity to Lead by Example
- Includes operational as well as building-related policies

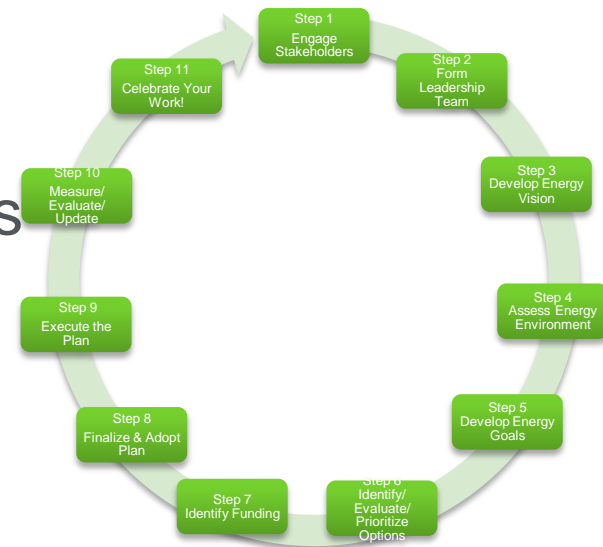
- **High-Efficiency and Alternative Fuel Vehicles**
 - The transportation sector in the US represents 28% of the nation's energy use, and 96% of the sector's energy comes from petroleum-based fuels
 - Local governments also import petroleum products to meet their transportation needs
 - Addresses alternative and high efficiency vehicles; transportation-related operations; education & training; community incentives
- **Local Renewable Energy**
 - Increasing interest in including RE in energy future – over 1800 EECBG grants included RE
 - Addresses goals; codes and permitting; interconnection; government operations and community incentive mechanisms; workforce development

Policy Toolkits Design Framework

Decision Frameworks will provide guidance to users, Residential ex.:

Policies to Consider		Develop a Contractor Network	Offset the Costs of Retrofits	Make Energy Use Transparent	Maintain or Reduce Energy Use
			<p>Foundational</p> <p>Incorporate “green jobs” training into workforce curricula</p> <p>Establish incentives for local financial institutions to finance home retrofits</p> <p>Establish a voluntary rating and disclosure program</p> <p>Set up support mechanism for code inspectors</p>	<p>■</p> <p></p> <p></p> <p></p>	<p></p> <p>■</p> <p></p> <p></p>
	<p>Intermediate</p> <p>Adopt home retrofit worker training requirements</p> <p>Issue bonds to raise funds for efficiency financing</p> <p>Require disclosure of home energy use at time of listing</p> <p>Set codes that require energy efficiency measures during major renovations</p>	<p>■</p> <p></p> <p></p> <p></p>	<p></p> <p>■</p> <p></p> <p></p>	<p></p> <p></p> <p>■</p> <p></p>	<p></p> <p></p> <p></p> <p>■</p>
	<p>Advanced</p> <p>Establish home retrofit worker certification requirements</p> <p>Set up a Property Assessed Clean Energy program</p> <p>Require home energy upgrades at time of sale</p> <p>Establish a clean energy district that keeps energy use flat even with new development</p>	<p>■</p> <p></p> <p></p> <p></p>	<p></p> <p>■</p> <p></p> <p></p>	<p></p> <p></p> <p>■</p> <p></p>	<p></p> <p></p> <p></p> <p>■</p>

- Create 40 local government community energy plans to facilitate achievement of community long term energy goals
- Strategic planning directly impacts long term energy savings and avoided consumer costs
 - Ex. Average 6.5 Million MMBtu savings by 2040 per Academy participant, realizing \$98 Million in annual savings in year 30
 - Ex. Arlington County, VA implemented CESP and since 2007 \$450K in annual energy savings
- Provide effective long-term legacy materials that serve as a guide for strategic planning process and the implementation of energy programs



- State Energy Office monthly regional calls
 - to share best practices 40 states per month
- Regional Topical regional calls
 - special topics like building codes, solar on schools
 - 7-10 states per region per call
- Monthly State/DOE legal issues calls with DOE GC (at least 40 states)
- Monthly financing task force conference calls
 - Focus on near-term ARRA-related financing program obligations, and discuss best practices (18 states)
- State regional meetings on sustaining work post ARRA

TAP Financing Progress -- Private Capital to EERE, 12/2010

Over \$1 Billion of private capital will go to work thanks to

ARRA Programs

Total	ARRA Funds in Reserve or Capital	Private Capital	Total Loan Capital
	\$300 Million	\$1.1 Billion	\$1.2 Billion

Data was collected by TA Engagement Leaders, from grantees who have engaged with TA Team to design, develop, and implement financing programs. Additional financing activity is occurring, though in smaller volume than the grantees represented here. December 2010.

	ARRA Funds	Private Capital	Total Loan Funds
Workshop Attendees	\$132,416,000	\$501,950,000	\$581,300,000
Eagle County	\$900,000	\$17,000,000	\$17,000,000
Boulder	\$8,000,000	\$40,000,000	\$40,000,000
American Samoa	\$500,000		\$500,000
Kansas City	\$5,300,000	\$65,000,000	\$70,000,000
Maryland	\$12,400,000	\$12,400,000	\$24,800,000
Plano	\$700,000	\$7,000,000	\$7,000,000
Shreveport	\$500,000	\$5,000,000	\$5,000,000
Michigan DELEG	\$16,750,000		\$16,750,000
Santa Barbara	\$1,000,000	\$20,000,000	\$20,000,000
San Diego	\$1,200,000	\$26,000,000	\$26,000,000
Rutland	\$1,600,000	\$4,500,000	\$4,500,000
Phoenix	\$4,000,000	\$16,000,000	\$20,000,000
Fort Worth	\$500,000		\$500,000
New Orleans	\$706,000	\$7,000,000	\$7,000,000
Arkansas	\$19,000,000		\$19,000,000
Missouri	\$9,000,000		\$9,000,000
Chicago	\$15,750,000	\$99,250,000	\$99,250,000
Wisconsin	\$4,210,000	\$74,500,000	\$74,500,000
Cincinnati	\$17,000,000	\$85,000,000	\$88,400,000
North Carolina	\$4,800,000	\$4,800,000	\$9,600,000
Bainbridge Island	\$100,000	\$2,000,000	\$2,000,000
Other TA Recipients	\$164,418,000	\$599,478,000	\$661,728,000
Michigan Saves	\$3,000,000	\$60,000,000	\$60,000,000
California	\$54,000,000	\$250,000,000	\$250,000,000
Alabama	\$25,000,000	\$35,000,000	\$60,000,000
Camden City	\$250,000	\$2,500,000	\$2,750,000
Connecticut	\$0	\$25,000,000	\$25,000,000
Kitsap County	\$250,000	\$5,000,000	\$5,000,000
Los Angeles	\$2,500,000	\$25,000,000	\$25,000,000
New Bedford	\$120,000	\$2,400,000	\$2,400,000
Seattle	\$654,000	\$4,578,000	\$4,578,000
Snohomish County	\$654,000	\$13,080,000	\$13,080,000
Southampton	\$1,540,000	\$4,620,000	\$4,620,000
Austin	\$4,000,000	\$40,000,000	\$40,000,000
San Antonio	\$3,500,000	\$35,000,000	\$35,000,000
Delaware	\$12,000,000	\$24,000,000	\$24,000,000
Kansas	\$34,000,000		\$34,000,000
New Hampshire	\$10,000,000	\$50,000,000	\$50,000,000
San Francisco PUC	\$300,000	\$3,000,000	\$3,000,000
Santa Fe	\$150,000	\$1,500,000	\$1,500,000
Toledo Port Authority	\$15,000,000	\$75,000,000	\$78,000,000
Cleveland	\$500,000	\$3,800,000	\$3,800,000
Maryland Clean Energy Comm	\$2,800,000	\$10,000,000	\$10,000,000
University Park	\$125,000	\$1,250,000	\$1,250,000

ESPC Technical Assistance to States and Localities

- Assisting over 20 states in helping develop or expand state Energy Savings Performance Contracting (ESPC) program
 - Assisted over 40 EECBG grantees retrofitting public buildings via ESPC
- Potential Impact of State Direct TA:

Anticipated results (over 3 years) based on trends in implementing ESPC Programs

States/ Territories (examples)	Scope	ESPC projects in pipeline or construction	Job-years created	Energy savings (MMBtu/yr source energy)	GHG avoided (tons of CO ₂)
GA, IA, ME, MI, MN, NM, PR, VI	Develop and implement sustainable, self-funded, statewide ESPC programs	\$450 million	4,950	3,734,100	238,050
AK, CO, KY, LA, NV, VA, WY	Support and expand current efforts to implement statewide ESPC programs	\$250 million	2,750	2,074,500	132,250

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- For tools and resources see the Solution Center 2.0 at:
<http://wip.energy.gov/solutioncenter>
- To place a request for TA, see either the Technical Assistance Center website:
<https://tac.eecleanenergy.org/> or call 1-877-EERE-TAP
(1-877-337-3827)

THANK YOU!