

A banner for the Southwest Regional Energy Efficiency Workshop. The banner features a green and orange color scheme with a mountain range silhouette. The text is arranged in three lines: 'SOUTHWEST REGIONAL' in white on a green background, 'ENERGY EFFICIENCY WORKSHOP' in green on an orange background, and 'NOVEMBER 9 & 10, 2009 PHOENIX, AZ' in orange on a white background.

SOUTHWEST REGIONAL

ENERGY EFFICIENCY WORKSHOP

NOVEMBER 9 & 10, 2009 PHOENIX, AZ

Arizona ARRA Programs

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Arizona ARRA

- Low-Income Weatherization
- State Energy Programs
- Energy Efficiency and Conservation Block grant program
- Appliance Rebate Program

Low-Income Weatherization Program

- Arizona received 57 million in ARRA Weatherization funding.
- Work is competed by 10 local non-profit/governmental entities.
- DSM/ARRA links
 - Direct link – DSM funding of Low-Income
 - Indirect link – Training of Home Performance Contractors

DSM Funding

- APS, SRP, Southwest Gas and TEP/Unisource provide DSM Low-Income funding.
- Program funding (DOE and DSM) utilize the same program requirements (what work can be done).
 - Provides consistency in the home.
 - Provides consistency with training.
 - Provides consistency in the office.

Training

- Through the ARRA Training and Technical Assistance funds, Weatherization is training a large numbers of contractors.
 - Last year we certified 20 contractors through the Building Performance Institute (BPI).
 - This year we have over 150 new contractors certified.

Southwest Building Science Training Center

- Operated by Foundation for Senior Living Home Improvement.
- Funded through the Department of Commerce Energy Office and Local Utilities.
- Primary focus is training for the Low-Income Weatherization Program .
- BPI affiliate.
- Does provide training and BPI certification to building trades.

Training Classes

- BPI training and certification
- WAP Boot Camp
- Pressure Diagnostics
- Health and Safety
- Thermal Performance and IR
- Others: for details contact
 - <http://www.azhomeperformance.com>

Training Facilities

- Classroom
- Computer lab
- CO lab
- Pressure lab
 - The labs are simulators, we can modify the performance of the structure



Performance Testing is Standard Practice in the Field

- As standard practice, someone who does not test is open to higher risk.





CO lab – learn CO testing procedures on operational equipment



Pressure Lab – Simulations of various leakage/pressure situations.



**Manipulate duct leakage, room pressures,
air leakage & zonal pressure**

State Energy Program

SEP

- State Energy Program was expanded with \$55.4 million in ARRA funding – focused on advancing energy efficiency and renewable energy projects in Arizona.

Energy Efficiency and Renewable Energy in Schools Grant Program \$20,000,000

- Funding will be divided into two pools, 70 percent for school energy efficiency projects and 30 percent for solar projects. The School Facilities Board (SFB) will distribute the funds to local school districts through a competitive grant process.

State Building Energy Performance Contracting Program \$10,000,000

- Funding will be used for efficiency and renewable energy performance contracting projects in State Buildings. The Department of Commerce will enter an Interagency Service Agreement with Department of Administration (ADOA) to be project manager for energy performance contracts for state building retrofit projects.

21st Century Energy Grant

\$11.947 million

- The program would fund studies to develop new, significant solar, wind or other renewable energy generation systems on public lands and to fund demonstrations of renewable energy systems on high profile public buildings and public spaces and a biofuels infrastructure grants programs.

Distributed Energy Leadership

Proposed Amount of Funding:

\$10 million

- **PROPOSAL ONLY - Guidelines are currently being established.**
- This program works through partnerships with the state's utility companies and will increase or match incentives provided by the utilities for distributed energy including solar water heating, solar photovoltaic, wind, and combined heat and power projects.
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Revolving Energy Loan

Proposed Amount of Funding:

\$2 million

- Funding will be used for a proposed Revolving Energy Loan fund for energy efficiency and renewable energy projects in commercial buildings in Arizona and also loans to manufacturers of renewable energy or energy efficiency equipment/technologies.

Agricultural Renewable Energy Conversion Incentive \$1.5 million

- This proposed competitive grant program will use the Arizona Natural Resource Conservation Districts (AZNRCD) State Association to deliver a Renewable Energy Conversion cost-share program through local Conservation Districts. The goals of the program are to reduce the reliance on fossil fuels for agricultural production in rural Arizona.

Energy Efficiency and Conservation Block Grant Program (EECBG)

- EECBG help local governments reduce greenhouse gases and promote energy efficiency in their jurisdictions. Funds can be used community wide, not only for government owned facilities and infrastructure.

Energy Efficiency and Conservation Block Grant Program (EECBG)

- Arizona received 63.8 million. Funding is divided among “Direct and Non-Direct” entities. “Direct” entities are cities or towns with a population of more than 35,000 and receive their funding directly for DOE.

Energy Efficiency and Conservation Block Grant Program (EECBG)

- The State of Arizona received \$9.5 million to help local governments under 35,000.

Arizona Appliance Efficiency Program

- Arizona was awarded \$6.2 million. Pending final DOE approval, rebates are expected to be available to Arizona consumers by early 2010.