



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

pennsylvania PA

American Recovery and Reinvestment Act

State Energy Plan Update



RECOVERY.GOV





Pennsylvania DEP ARRA Program Goals

- *Create Jobs and Enduring Opportunities for Employment*
- *Increase the Amount of Renewable and Alternative Energy Generated in PA*
- *Save energy in PA through Conservation and Efficiency*
- *Maximize matching Private Sector Investments to spread the impact of ARRA Funding*



ARRA Energy Funding Overview

\$136.5 Million for Energy Programs

- \$99.6 Million for the State Energy Plan***
- \$23.5 Million for EECBG***
- \$11.9 Million for Appliance Rebate (Home Heating Equip.)***
- \$1.3 Million for Energy Assurance Planning***
- \$350,000 for Save Energy Now Industrial Energy Efficiency Assessment Program***

Note: \$253 million is also allocated to the Weatherization Assistance Program under the Department of Community and Economic Development



Progress

- *By July 2010, DEP will have allocated \$126,656,714 (or 92%) of the \$136,544,964 in ARRA energy funds available for grant funding.*
 - *DEP has committed to allocating the final 8% of ARRA funding, approximately \$10 Million to:*
 - ***Solar II Clean Advanced Energy Manufacturing***
 - *Support deployment of manufactured products that help PA achieve AEPS – to be committed to Heliosphera in the fall*
 - ***PEDA ARRA 2010 Sustainable Business Recovery***
 - *Project applications received and under review*
 - *Projects to be awarded in August and committed in grant agreements in September*



Energy Program Funding Results

- *Total ARRA energy funding invested (in grant contracts now):* **\$114.7 million**
- *Total Match from grantees:* **\$333.9 million**
- *Total Leverage from grantees:* **\$188.5 million**
- *Total Investment:* **\$637.1 million**
- *155 projects, 1 loan program, 1 rebate program*
- *One loan program (Residential Geothermal) and one rebate program (PA Sunshine) and several projects (PEDA 2010) (Solar II) will be added to this list.*



PA EECBG Formula Grant PA Conservation Works!

- ***Conservation Works! – Received \$23,574,800***
 - *\$22,144,463 Awarded (100 grants executed)*
 - *\$1,430,337 for Administration*
 - *All funding is allocated*
 - *\$9,202,514 has been advanced to the Grantees*
 - *All projects have started*
 - ***Two are completed and seven projects are greater than 75% complete.***



PA Conservation Works! - Results

■ *Completed Projects*

- *Saegertown Borough - \$37,000 replaced the borough's two oldest turbine pumps with submersible pumps to provide process and cooling water to local manufacturers, resulting in an energy savings of 28 percent. Total energy savings estimated to be 993,370 kwh/yr.***
- *Riddle Memorial Hospital - \$38,862 to install new lights in the hospital's parking garage. Total kilowatt hours saved are estimated to be 2,534,270.***



PA Conservation Works! - Results

■ *Nearly Completed Projects (75% or greater)*

- Carlisle Borough - \$250,000 to upgrade HVAC and lighting and photovoltaic panels*
- Bloomsburg University of Pennsylvania – \$250,000 to improve HVAC controls with energy management functionality and lighting efficiency improvements*
- Chester County Historical Society – \$250,000 HVAC system replacement in Horticultural Hall*
- Elk Regional Health Center – \$149,041 to upgrade lighting system*
- Jameson Memorial Hospital – \$222,351 for HVAC upgrade*
- Millcreek Community Hospital – \$250,000 for HVAC upgrade*
- Town of Bloomsburg - \$14,918 energy efficient lighting replacement*



PA SEP ARRA Formula Grant Green Energy Works!

- *ARRA Funds: \$99,684,000*
- *\$78,904,203 in Executed Grant Agreements (obligated)*
- *\$2,993,508 for Administration*
- *\$19,838,043 Invoiced and reimbursed*
- *Remaining funding*
 - *Geothermal Loan to be obligated by June 30*
 - *PA Sunshine to be invoiced and reimbursed by August*
 - *PEDA projects to be obligated by September*
 - *Solar manufacturing to be obligated by November*



Green Energy Works! - Results

- *54 projects supported to deploy energy generation assets (CHP, Biogas, Solar, Wind, etc.)*
- *1 loan program deployed*
 - *(Green Energy Loan Program)*
- *53 of the 54 projects are under grant contract and have begun work*
 - *One projects is complete and fully reimbursed*
 - *6 projects are more than 90% complete*
 - *One project is awaiting final financing assurance*



Green Energy Works! - Results

- ***Completed Project***

- *Campus Square Partners -- \$281,000. Installed a 50 kilowatt solar photovoltaic system to reduce energy costs and help the building qualify for LEED certification.*

- ***Nearly Completed Projects (90% or greater)***

- *Crayola, LLC -- \$1.5 million. Installed a 1.9 MW solar energy system for use at its headquarters and manufacturing site. Also constructing a solar educational center for over 350,000 visitors (mainly children) per year.*
- *The Wagner Free Institute of Science -- \$250,000. Replaced its single steam boiler with four high efficiency, high performance boilers.*



Green Energy Works! - Results

■ *Nearly Completed Projects (90% or greater) cont'd.*

- Food Markets, Inc. (Wegman's) -- \$1,009,176 for installing an alternative fuel distribution technology for fueling 150 new energy efficient hydrogen fuel cell-powered material handling equipment vehicles, provided by Lift Inc. of Lancaster*
- Aqua PA Inc.'s Ingram's Mill Solar Farm -- \$1 million for the installation a 1MW solar energy system for use onsite*
- Hollidaysburg Area School District -- \$500,000 for the installation of a geothermal exchange system at the senior high school*
- Bridge Business Center LP -- \$1 million for an advanced energy system to recycle waste heat from their operations and meet all of their own energy needs*
- Buckman's, Inc. -- \$520,000 to install a 620 kW solar energy system*



Green Energy Works! - Results

- *Green Energy Loan Program*
 - *\$12 million in ARRA capital*
- *Match of \$36 million from The Reinvestment Fund to create a \$48 million revolving loan fund*
- *Supports high efficiency buildings and businesses*
- *Loan Program opened in May*
- *Loan Fund Manager TRF is preparing to present potential loan fund applicants and projects to DEP in the coming weeks.*



ARRA Heating Equipment Rebates

- *\$11.9 million formula grant to Pennsylvania from the U.S. Department of Energy*
- *Rebates for non-electric water heaters, furnaces, and boilers*
- *Program opened on April 21, 2010*
- *23,320 website hits and over 1080 phone inquiries*
- *Over 4903 reservations, totaling \$1,466,650, have been requested*
- *26% of the funds are reserved*
- *Average rebate reservation to date is \$299*