



## **News for Immediate Release**

**Dec. 4, 2009**

### **Governor Rendell Says Green Energy Works! Grants Making Power Generation More Efficient to Protect Environment, Create Jobs**

**\$12 Million in Recovery Act Funds Leverages \$15.7 Million for Nine Combined Heat, Power Projects**

**Harrisburg** – Nine new large-scale heat and power projects announced today by Governor Edward G. Rendell will create enough energy to power 180,000 homes for one year and slash carbon dioxide emissions equal to 180,000 passenger vehicles while creating jobs and stabilizing power distribution networks.

The combined heat and power, or CHP, projects will receive more than \$12 million from the American Recovery and Reinvestment Act through Pennsylvania's Green Energy Works! Grant program.

"We must explore all options and make the best possible use of our available resources to meet our future energy needs," said Governor Rendell. "These large-scale combined heat and power projects maximize those resources by taking a waste formed during one process and putting it to good use in another. This enables us to generate the best possible return on our investments."

Combined, the nine projects will create nearly 15 megawatts of power capacity and generate more than 1.8 million megawatt hours of electricity over their lifetimes — enough to power 180,000 homes for one year. Putting the generated power to more efficient use onsite reduces electricity draws and increases the stability of local power distribution networks. The projects will reduce carbon dioxide emissions by more than 1.1 million tons — the equivalent of the annual greenhouse gas emissions from 180,000 passenger vehicles.

"These projects will provide a significant boost to our economy by creating 23 permanent full- and part-time jobs along with an additional 270 temporary positions," said Governor Rendell. "They will also attract \$15.7 million in additional investments."

"These investments are more evidence that Pennsylvania is becoming a leader in the field of alternative energy. These projects conserve energy and protect the environment, easing our reliance on foreign oil and making our state more energy independent."

Combined heat and power projects generate power and thermal energy from a single fuel source. Heat is a byproduct of conventional power generation but that heat is often wasted. CHP projects recycle that thermal energy and put it to beneficial use such as heating buildings and heating water, processes that would typically require the use of additional forms of energy. CHP projects can also capture waste heat in the form of steam and utilize it to generate electricity.

All projects must start work within six months and be completed within 24 months and before April 30, 2012.

Green Energy Works! will invest a total of \$52 million of federal Recovery funding to develop large-scale green energy technologies that will help Pennsylvanians meet future energy needs. Future Green Energy Works! funding will be awarded to large-scale solar, biogas and wind projects.

For more information, contact the Department of Environmental Protection's Office of Energy and Technology Deployment at 717-783-8411.

To see how the Recovery Act is benefitting Pennsylvanians, visit [www.recovery.pa.gov](http://www.recovery.pa.gov), under the heading "Where is Your Money Going?" click on "Energy Independence."

**Media contacts:**

John Repetz, DEP; 717-787-1323

Gary Tuma, Governor's Office; 717-783-1116

**Editor's Note:** Following is a list of the nine Green Energy Works! combined heat and power projects by county:

**Bradford**

Craftmasters -- \$1,358,869 to install and operate a back-pressure steam turbine that would use existing excess steam to generate up to 1,000 kilowatts of electricity. The electricity produced would offset current electrical consumption.

**Cumberland**

East Pennsboro Township -- \$500,000 to purchase and install equipment to recover and use excess biogas from an existing anaerobic digester at a wastewater treatment plant and convert it to electrical power and heat. Digester gas is currently wasted.

**McKean**

American Refining Group Inc. -- \$831.072 to install a steam turbine and an 875 kilowatt generator to produce electricity from existing high pressure steam while still using low pressure steam.

**Lancaster**

Mount Joy Wire Corporation -- \$1,181,250 to purchase and install a 1 megawatt microturbine combined heat and power system to provide nearly all of its manufacturing process energy requirements.

**Lycoming**

Susquehanna Health -- \$1,500,000 to install a new primary heat source at the Divine Providence Hospital. The project includes a 3.1 megawatt cogeneration unit with a reciprocating natural gas engine, backup boilers and chiller.

**Montgomery**

Abington Memorial Hospital -- \$3,000,000 for the installation of a 4.5 megawatt natural gas-fired combustion turbine that will produce steam as a byproduct and serve approximately 66 percent of its onsite electricity needs.

**Montour**

Geisinger Medical Center -- \$2,250,000 to install and operate a 5 megawatt gas-fired turbine generator coupled with a waste heat-fired tube boiler. This project is anticipated to generate approximately 20,000 megawatt hours of electricity per year that will be used onsite. Geisinger predicts saving more than \$1.4 million annually.

**Philadelphia**

AIMCO -- \$1,087,100 for the installation of eight, 75 kilowatt natural gas-fired reciprocating engines that will provide space heat and hot water at four separate apartment buildings serving approximately 40 percent of the onsite electrical needs.

Philadelphia Gas Works -- \$465,000 for the installation of a 300 kilowatt natural gas-fired microturbine and absorption chiller that will provide approximately 40 percent of the electrical needs and provide supplemental building heat and cooling.

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