

Advanced Energy Job Stimulus Program

A key component of Ohio's program to create new jobs and encourage economic development, the \$150 million Advanced Energy Job Stimulus Program is designed to support new technology projects on a fast track toward commercialization. As part of the \$1.57 billion job stimulus package signed into law by Governor Ted Strickland in June 2008, the goal of the program is to employ Ohio workers in the advanced energy jobs of the future. The \$150 million advanced energy funding (over three years) seeks to increase the development, production and use of advanced energy technologies in the state, and is divided into two parts:

- \$66 million for clean coal technology projects administered through OAQDA's Ohio Coal Development Office (OCDO) (reviewed by staff, outside reviewers and the Technical Advisory Committee and approved by OAQDA); and
- \$84 million for non-coal-related projects in three \$28 million annual appropriations administered by OAQDA (reviewed by staff and outside reviewers, the Development Finance Advisory Council, approved by OAQDA and brought before Controlling Board for final approval).

**Project Name:****Schmack BioMass of Columbus, OH Anaerobic Digester****Project Location:**

Columbus, Ohio (Franklin County)

Applicant Information:

Schmack BioEnergy (which recently changed its company name to quasar energy group), is recycling energy in North America from organic wastes. Based in Cleveland, Ohio, Schmack is a full service waste-to-energy company with a laboratory and engineering facility at The Ohio State University's Ohio Agricultural Research and Development Center (OARDC) campus located in Wooster, Ohio. The company has applied the best technology available across more than 8,000 worldwide systems to North American plants.

Schmack technology solves waste management issues facing agricultural farmers, industrial food companies, municipal treatment plants and ethanol producers. The company's continuous mix, high solids anaerobic digestion technology is proven, reliable and advanced.

Schmack creates a system that recycles energy from waste that would usually be incinerated or hauled to landfills. Instead, our process generates EQ biosolids. Resulting biogas becomes reusable energy while remaining liquid and solids can be used for fertilizer and organic soil amendments.

Project Description:

Schmack is building a \$7.2 million anaerobic digester system in Columbus at 2500 Jackson Pike. This facility is designed to accept multiple streams of organic waste from Columbus and surrounding business entities and use its technologically advanced process to digest the waste safely and capture biogas during the process. This type of technology exists around the world, but has yet to be commercially successful in the U.S. Also, this facility (industrial digester) will be the largest of its kind in the U.S. The 750 kilowatt system will process over 35,000 wet tons of organic waste per year which will be kept out of landfills. Schmack will use a portion of the energy generated and sell the remainder, likely to the City of Columbus.



Anaerobic digester system in Akron



Company headquarters in Cleveland



Waste-to-energy project under construction at The Ohio State University Ohio Agricultural Research and Development Center in Wooster.

Funding Request (adjusted): \$9 million

Approved Funding: \$3.06 million loan over seven years; \$100,000 of original principal balance to be forgiven if job commitment met three years from the closing of the loan

Total Projected Investment: \$7,281,843

Use of Stimulus Program Funds: Acquisition of fixed assets (machinery)

Jobs Created: 7 new full-time jobs, 14 jobs retained

Type of Jobs Created: Machinery operators, general labor and lab technicians

Qualifying Technology Categories: Waste-to-energy, efficiency

Industry Sector Customers: Energy, food, food processing, utilities

Industry Sector Suppliers: Manufacturing, construction, transportation, financial, engineering, technical, services, technology



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