



# HISTORY

## Building an Industry in Ohio:

**Schmack BioEnergy** is introducing this renewable energy technology to Ohio. In 2008 **Schmack** relocated its Engineering & Laboratory Offices to The Ohio State University's Agricultural Research and Development Center (OARDC) campus in Wooster, Ohio to collaborate with the largest university agbioscience research center in the nation.

This private public partnership combines agricultural and biological research with an emerging industry in Ohio. Together, we can build a new service and component manufacturing industry that will bring new green collar jobs to Ohio. The **Schmack BioEnergy/OARDC** relationship has been praised by The Wooster Daily Record for being "the first piece of the BioHio puzzle."

**Schmack** and OARDC have plans to build a high-solids Farm Digester in Wooster. The Wooster plant has been designed to manage biomass in the forms of manure, crops and foodwaste from local sources. The *ecoFARMsystem 550* is a farm-scale version of **Schmack's** Industrial Digester which has processed Akron, Ohio's municipal solid waste since 2007. **Schmack** is beginning construction on a similar industrial facility in Columbus, Ohio in the spring of 2010.

The **Schmack/OARDC** relationship can be the first step in building a new clean industry in Ohio.

## The German Biomass Market:

**Schmack** has over 15 years of experience building, owning and operating high-solids anaerobic digestion facilities in Europe. Anaerobic digestion is a natural process where microorganisms break down organic waste materials (biomass) in the absence of oxygen. Germany has successfully used this process as a means for generating sustainable renewable energy.



\* Based on a US biomass analysis approved by the OARDC. 7,721 plants are based on a combination of **Schmack** farm scale & industrial scale plants.

# STATISTICS

## German Market Statistics:

Renewable Energy Generated: 20%

Jobs: 96,100 in 2007\*

**Schmack** Market Share: 7%

Plants in Germany: 3,800

**Schmack** Plants: 263

\* Source: Renewable Energy World 4-8-08, Germany Renewable Energy Jobs from Biomass in 2007

## Renewable Resources Generated:

Energy: Natural Gas, Electric, CNG



Animal Bedding, Compost, Peat Alternative, & Fertilizer

**Environmental Benefits:** Reduced Odor, No Greenhouse Gas Emissions, Nutrient Management

# LAB



The building on the right is **Schmack's** Laboratory facility at the OARDC Wooster campus. The laboratory is home to eight pilot scale anaerobic digesters.

# PIONEERING



# COLLABORATING FOR OHIO

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