



energy economy environment

ECOFARMSYSTEM 550

quasar's F550:

Tank Capacity: 550,000 gallons

Incoming Biomass Storage: 3 days

Normal Digestion Time: 28 days

Inputs: manure & food waste

Annual Inputs: 15,148 wet tons

Renewable Energy Generated:

Electricity: 250 kW

Valuable Byproducts:

8,600 yards³ per year sold regionally
as nutrient rich soil amendment

Environmental Benefits:

Manufactures Organic Fertilizer

Offsets Fossil Fuel Use

Recycles waste

Rutland, Massachusetts



quasar energy group, llc (quasar) is a Cleveland, Ohio based waste-to-energy company with a state of the art laboratory and engineering facility located on The Ohio State University's Ohio Agricultural Research and Development Center campus in Wooster, Ohio.

The Rutland, MA project uses proven, advanced anaerobic digestion technology to recycle energy from organic waste. Anaerobic digestion is a natural process where microorganisms break down organic waste materials (biomass) in the absence of oxygen. The design of **quasar's** Rutland system has been approved by the United States Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS).

AGreen Energy: 5 Farms

The **AGreen Energy, LLC (AGE)** venture involves the installation of five anaerobic digesters on small dairy farms (250 - 400 animals) in the Commonwealth of Massachusetts. These digesters will be supplied with a mixture of dairy manure from the host farm and liquid source separated organics provided by **Casella Waste Systems** through their wholly owned company New England Organics. The **AGE** projects will be designed, built and monitored by Cleveland, Ohio based anaerobic digestion technology provider **quasar**.

The first of the five projects is under construction on Jordan Dairy Farm in Rutland, MA. The biogas will be used to produce electricity and heat for farm operations and electricity for sale to the utility grid. Anaerobic digestion projects contribute to accomplishing USDA Secretary Tom Vilsack's goal to convert animal manure into renewable energy and reduce agricultural greenhouse gas emissions 25% by 2020.



AGreen Energy, LLC



renewable
ENERGY

for America's
ECONOMY

and a cleaner
ENVIRONMENT

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