



energy economy environment

ECOCITYSYSTEM 980

CLEVELAND, OHIO



Location:
13500 Aspinwall Ave.
Cleveland, OH 44110

Site:
Northern portion of former GM Fisher body Plant

Technology:
Biomass Anaerobic
Digestion Power Facility

Renewable Energy Generation:
Electricity:
1.3 MW per hour

Power Purchaser:
Cleveland Public Power

Thermal Energy:
Exportable thermal
energy of 4.3 million Btu/hr

quasar's C980:
Tank Capacity:
980,000 gallons

Normal Digestion Time:
28 days

Inputs:
Pumpable organic biomass

Annual Inputs:
42,600 wet tons

The Collinwood facility is an anaerobic digestion renewable energy system under construction on Cleveland's east side on the grounds of the former GM Fisher Body Plant. The Collinwood facility applies proven, advanced anaerobic digestion technology to recycle energy from organic waste (biomass). Anaerobic digestion is a natural process where microorganisms break down biomass in the absence of oxygen. The technology has been commonly used in Europe, with over 8,000 systems in operation today. In the United States, anaerobic digestion is emerging as a key component of the country's renewable energy portfolio.

When completed, the facility will be operated by **quasar energy group (quasar)** and is developed under a joint venture with Forest City. **quasar** is a Northeast Ohio company that designs, builds, owns and operates anaerobic digestion renewable energy systems including Ohio facilities in Zanesville, Wooster, and Columbus. **quasar's** state of the art laboratory and engineering facility is located on The Ohio State University's Ohio Agricultural Research and Development Center campus in Wooster, Ohio.

The Collinwood facility is a participant in the Ohio Department of Development's Transforming-Waste-to-Value ARRA State Energy Program.

Preserving Our Environment

Today, the most common methods for disposing of organic waste are landfilling and incineration. Both options pollute the air, soil, and water in surrounding communities without producing any beneficial products. The Collinwood facility will improve the regional environment by processing organic waste that would otherwise be sent to landfills, while producing clean, renewable energy.



renewable
ENERGY

for Ohio's
ECONOMY

and a cleaner
ENVIRONMENT
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