



## MOOGAWATTS

*A Midwestern dairy farm is using the manure produced by its large herd of dairy cattle to generate electric power, while reducing the overall odor of the facility.*



This Co-Generation, or CHP (Combined Heat & Power), unit generates enough electric power to drive the entire dairy farm. Excess power is sold back to the local utility. Heat from the 1200 horsepower generator set is harnessed and used to heat the digester mix to 110 degrees, producing the biogas fuel that powers the engine. The heat is taken from the engine's jacket water and exhaust.

The digester slurry is sterile and odorless, and is an excellent fertilizer. The dry solid digester product is also soft enough to provide an ideal bedding material for the dairy cattle.

Except for planned maintenance shutdowns, the co-generation unit operates year round 24/7.

### SPECIFICATIONS:

#### ENGINE:

- 16 cylinder
- 1,200 horsepower
- Biogas fuel (400 to 650 BTC/cu. ft.)

#### GENERATOR:

- 480 Volts
- 848 kW

#### ENCLOSURE:

- Weatherproof
- Sound attenuated to 85 db(A) @ 1 meter
- Internal switchgear & controls
- Remote external horizontal radiator

