MICROTURBINE CO-GENERATION FOR A HIGH SCHOOL

An Eastern school district had a requirement for a co-generation unit for one of their large high schools.

Working with a prominent manufacturer of microturbines, Enercon Engineering custom engineered and assembled a co-generation package for four 60 kW microturbines.

The co-generation system provides electric power, hot water for heating, and absorption chilling for school air conditioning.

SPECIFICATIONS:

MICROTURBINES:
- Four 60 kW microturbines, continuous run
- Natural gas fuel
- Efficiencies of 57% to 80%

CHP:
- 240 kW power output
- Absorption chiller output of 12ORT
- 1,100 MBH hot water heating
- Backup power capability
- Three 252" long, 102" wide, 8" high microturbine skid bases

PACKAGE:
- 5 kVA 480/240 V ac stepdown transformer
- 800A distribution switchboard with 8-125A circuit breakers
- 8-125A Nema 3 non-fusible disconnect switches
- Prepiped power/control conduits

ENERCON ENGINEERING, INC.®

CUSTOM SWITCHGEAR • CONTROL SYSTEMS • PACKAGING • POWER MODULES • ENCLOSURES • CO-GENERATION

1.800.218.8831 • WWW.ENERCON-ENG.COM