White Harvest Energy

CHP CASE STUDY

BACKGROUND

The Multy Home facility manufactures floor mats of various types, sizes and colors. The manufacturing process uses equipment that forms, presses and cools the product. Multy Home optimized the electrical and thermal loads and reduced energy costs by implementing combined heat and power module.

APPLICATION

Multy Home's manufacturing process uses two hot oil heaters to provide thermal energy to various process equipment within the facility. There are also a couple of direct gas fired dryers in the process. They also use direct gas fired makeup air units and the direct gas fired unit heaters for seasonal demands. The CHP system supplements both the thermal oil heating process and the space heating at the makeup air units / unit heaters.

SUMMARY OF BENEFITS

- Generates:
  - 530 kW electricity
  - 1,760 MBtu/hr hot water (140°F)
  - 920 MBtu/hr thermal oil (356°F)
- Reduced cost for energy needs
- Lower reliance upon the energy grid
- Reduced carbon footprint
- Improvement in power factor

QUICK FACTS

Site: Multy Home

Location: Toronto, Ontario

Generating Capacity: 2 x 265 kWe

CHP Equipment: Two 2G "Patruus" Reciprocating Engines

Heat Recovery: Thermal oil and hot water

Type of Fuel: Natural Gas

Start Date: Feb 2018



PROJECT TEAM

Owner: Multy Home

Consultant: White Harvest Energy, LLC

CHP Equipment Supplier: 2G Energy

Developer: FVB Energy Inc

CHP EPA COMBINED HEAT AND POWER PARTNERSHIP

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