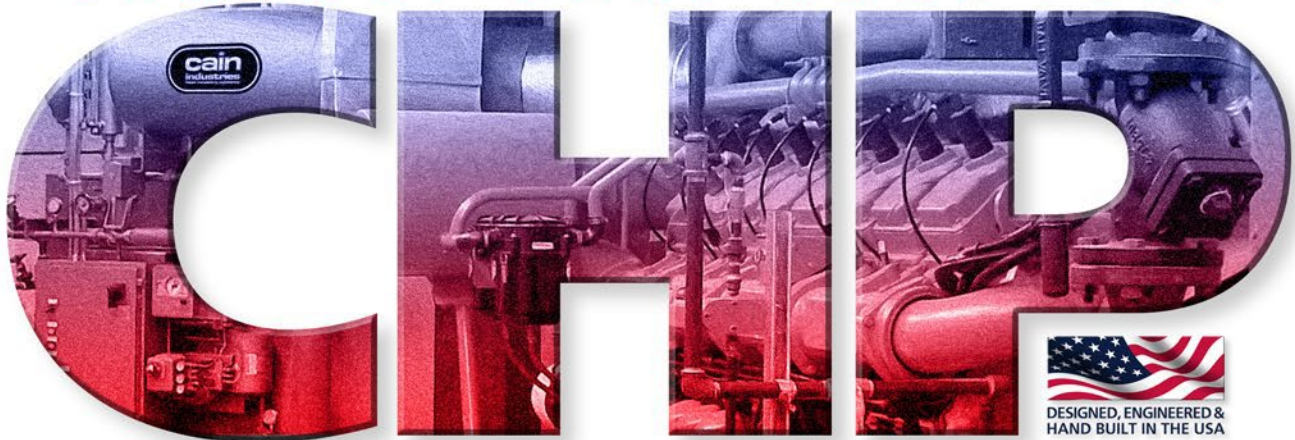


# EXHAUST HEAT RECOVERY



## Combustion Sources:

- Engines
- Turbines
- Microturbines
- Fuel Cells

## Fuel Types:

- Natural Gas and Propane
- Diesel to Heavy Fuel Oils
- Digester and Landfill Gas
- Biogas

## Heat Sinks:

- Steam Production
- Thermal Fluids
- Glycol
- Water

Cain Industries manufactures exhaust heat exchangers and heat recovery steam generators (HRSG) for gas and diesel engines, gas turbines, microturbine generators and fuel cells. Captured BTUs are transferred back into a desired water, glycol, thermal fluid or steam production heat sink. Suitable fuel types for combustion sources include natural gas, propane, biogas, digester gas, landfill gas, diesel fuel and light to heavy fuel oils. Tremendous savings result from overall system efficiency improvements when recovered energy is repurposed within the facility and processes.

## CHP Case Study

A City of Industry, CA dairy depends on a Cain Industries ESG1 Heat Recovery Steam Generator and an HRSR Heat Recovery Silencer Radial working in series to capture the exhaust heat produced from their engine generator. The roof mounted units (shown below) recover almost 4,000,000 BTUs per hour. The energy is repurposed for steam demand and a water loop used in dairy production. The Cain duo save \$244,964 of energy annually (\$30.62 per hour) and almost \$5,000,000 over the 20-year life expectancy of the equipment. Payback on both units was less than 10 months.



## Cain Industries

PO Box 189  
W194 N11826 McCormick Drive  
Germantown, WI 53022 USA  
262-251-0051 • 800-558-8690  
sales@cainind.com

A Proud Partner of:

