



CHP UNIT INSTALLATION for meat processing industry

"Consumers want to see how producers are 'going green.' By adopting systems like combined heat and power, we can say the pork industry is moving in the right direction." Darcy Fitzgerald, Executive Director, Alberta Pork

Alberta Pork is one of the pork meat producers in Canada. To ensure market leadership it was necessary to reduce energy requirements and carbon offsets, so certain environmental steps had to be taken. One of them was the installation of a TEDOM cogeneration unit, which can provide both electricity and heat to the company.

Using the CHP unit also reduces the company's costs. Approximately 90 % of all produced heat can be used during nine months of the year, which translates into a 35 % reduction in overall energy costs or more than \$230,000 per year. In just under three years, the system is expected to have paid for itself, while the life of the equipment is estimated to be 15 years.

CHP unit type	TEDOM Cento 375
Fuel	Natural Gas
Electrical Output	375 kW
Heat Output	483 kW
Total Efficiency (LHV)	89,3 %
Commissioning Date	August 2019
Place of installation	Alberta, Canada



Foto: canadianhogjournal.com (2019/12/06)

Combined heat and power production, also known as cogeneration, is an electricity production method that utilizes the heat released by the electricity production process in a useful manner. In doing so, a high utilisation efficiency of the energy from fuel is attained when the fuel is mostly a natural gas, LPG or biogas. Cogeneration pays off where demands for higher supplies of heat or cold exist. The power generated in the CHP unit can be utilised for the plant's own consumption or it can be distributed to the power grid.