



GenSet Commercial Example : Dairy industry



Industry:
Dairy

Application:

Fossil Fuels (PRV)

Country: UK

Power: 1 x 129 kW

Model: 1 x HP145

Steam in/out:
22.5 Bar G / 9 Bar G

Activities in dairies are typically very electricity and steam intensive, presenting the perfect opportunity for the installation of a Heliex GenSet and Heliex SteamComp.

THE CLIENT

The client is a major dairy processor, producing mainly milk powders, whey proteins and other powders or concentrated products.

They are investigating ways to improve energy efficiency at their recently opened facility, with a focus on steam and electricity intensive activities such as evaporation and spray drying.

THE PROJECT

We recommend that a Heliex GenSet is integrated alongside the Pressure Reduction Valve (PRV) to use the process steam to generate a low cost supply of electricity.

A Heliex SteamComp, steam re-compressor, could also be installed following a flash steam recovery vessel to re-energise steam vapors into usable process steam, allowing for an even higher payback.

THE SOLUTION

A Heliex HP145 would provide 129kW electricity and an annual revenue of €59,854 (£51,026) based on electricity savings of €80,206 (£60,402) per year.

ROI on the Heliex system is less than 3 years, with the machine continuing to provide a reliable supply of low cost electricity for more than 20 years.

