

Clean Energy and a 20-Year Income: Installing 2 CHP Systems on a Powys Farm

A Novalux Case Study



WHAT OUR CUSTOMER WANTED

Our client wanted to expand his poultry unit and improve his farm's efficiency. However, adding two more sheds was going to double the unit's existing high demand for heat and electricity.

The farm already generated some of its energy from renewable sources. He was keen to add to this and install CHP so he could avoid an increase in energy costs and benefit from government incentive.

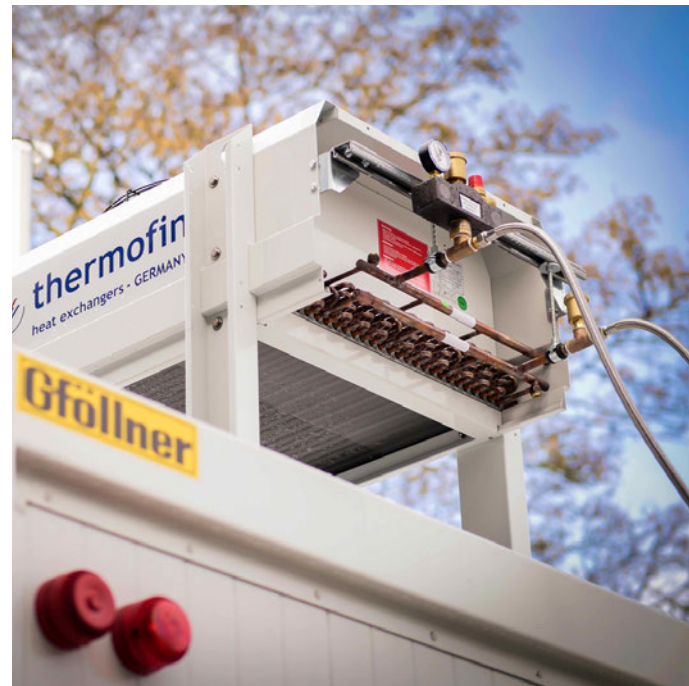
WHAT WE DID

We originally started working with this client in 2014, when another of our customers recommended us. At that time CHP was new to the UK. However, we were watching the performance of the technology and the introduction of government incentive. This meant we could advise him of the best time to proceed.

In December 2015 we surveyed his site. We then designed two 50kWe 104kWth units that would generate:

- Thermal energy to help heat the sheds and dry the woodchip the units use as fuel
- Electricity to power the motors and fans in the poultry sheds, with surplus to export to the grid

From then it took three weeks to install and commission the units.



The office staff are professional and courteous, the field technicians worked extremely hard to meet a demanding deadline, and Joe is a star!



We also completed the tariff applications to OFGEM and advised on how using a Power Purchase Agreement would give him the best returns.



HOW OUR CUSTOMER BENEFITED

Installing CHP gave our client a cost-effective way to expand his business. In addition he now enjoys:

1. Reduced energy costs
2. Reliable energy supply
3. Guaranteed long-term income



ANNUAL SAVINGS AND INCOME FROM ELECTRICITY

Saving on electricity costs	£22,500
Excess energy export income	£27, 287

Total £49,787

ANNUAL INCOME FROM INCENTIVES

Renewable Obligation Certificates	£62,325
Biogas Renewable Heat Incentive	£102,051

Total £164,376

Time to payback cost of CHP Four years

A HEALTHY RETURN ON THEIR INVESTMENT

The CHP system on our clients farm is generating savings in fuel costs and a guaranteed income for 20 years.

TOTAL NET BENEFIT OVER 20 YEARS
£3,178,620

NOVALUX AFTERSALES SERVICE

We provide the farm with a full monitoring and maintenance service for the CHP system.



FOR MORE INFORMATION OR TO ARRANGE A FREE SITE SURVEY PLEASE CALL US ON
01600 463 008