

Clean Energy and a 20-Year Income: Installing a CHP System on a Monmouthshire Farm

A Novalux Case Study



WHAT OUR CUSTOMER WANTED

Our client wanted to become more competitive in the poultry business by reducing overheads. They already had experience of renewable energy, having previously installed Solar PV and a biomass heating system to offset the energy costs of running the farm.

He was keen to explore what additional benefits CHP would bring. The power generated was to be used on the farm. Along with a poultry shed and storage unit it was also required to heat the woodchip through the dryer.

WHAT WE DID

We started work with the farmer after they contacted us from a CHP advert in a local paper. They had heard good reports about Novalux and the fact that we were a local firm with a good after care service was their main reason for proceeding.

We designed a 50kWe 104kWth unit following a site survey. In April 2016 we began installing the CHP unit into an existing building. This would generate:

- Thermal energy to help heat the sheds and dry the woodchip the unit uses as fuel
- Surplus energy which is exported to the grid, supplying an additional income for the farm



Helpful, efficient and reliable service, I was also very impressed with their technical knowledge.



We also liaised with the District Network Operator to obtain permission for the installation.



HOW OUR CUSTOMER BENEFITED

Installing CHP gave our client a cost-effective way to make his business more competitive. 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	£12,000
Excess energy export income	£14, 550

Total **£26,550**

ANNUAL INCOME FROM INCENTIVES

Renewable Obligation Certificates	£30,960
Biogas Renewable Heat Incentive	£47,192

Total **£78,152**

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

£1,310,606

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