

New Dunsley Poultry Farm

New Dunsley Poultry Farm used funding to install a new heat exchanger on a chicken shed to help the farm cut costs and carbon emissions.



The farm received a £12,000 grant from CO2Sense and Yorkshire Forward from the Rural Development Programme for England, supported by the European Union.

The grant contributed towards the purchase of a heat exchanger to be installed as part of a redevelopment of one of the chicken sheds on the farm.

The heat exchanger replaced the old propane fuelled heating system, reducing carbon dioxide emissions and saving the farm £4,288 per year in fuel bills.

New Dunsley Poultry Farm, based in Holmfirth, West Yorkshire received their grant through the Farm Resource Efficiency Programme – a programme that helps farmers introduce new technology that helps them to cut costs by using energy, manure and water more efficiently.

The heat exchanger works by extracting warm, stale air from the shed and using it to heat fresh air drawn in from outside.

Renewable Energy

- Received £12,000 grant
- Installed heat exchanger in chicken shed
- Reduced propane consumption by 40%
- Saves the farm £4,288 per year
- Saves 23 tonnes CO₂ per year
- Improves health of livestock.

“The new heat system has been a great success, both saving the farm money and making the livestock healthier. It’s been great to be able to install the new heating as part of the redevelopment of the sheds, which we would not have been able to do without this financial help.”

David Sykes - NEW DUNSLEY POULTRY FARM

The heat exchanger works by extracting warm, stale air from the shed and using it to heat fresh air drawn in from outside.

This keeps the sheds warm, and reduces the amount of propane previously used to heat the sheds by 40%, saving 107,799kWh of energy and 23 tonnes of CO₂ each year.

“This is the first heat exchanger we have funded under FREP and is an exciting addition to the programme. This project should see some significant costs savings as well as improved bird health.”

Vicky Wren – CONSULTANT – CO2SENSE



The CO₂ emissions associated with transporting the propane gas to the farm will also be cut.

The heat exchanger will also improve chicken health and living conditions, meaning that the productivity of the farm is increased.

Vicky Wren, from the CO2Sense Farm Resource Efficiency Programme, said “This is the first heat exchanger we have funded under FREP and is an exciting addition to the programme.

“This project should see some significant costs savings as well as improved bird health.”

David Sykes, owner of New Dunsley Poultry farm, said “The new heat system has been a great success, both saving the farm money and making the livestock healthier.

“It’s been great to be able to install the new heating as part of the redevelopment of the sheds, which we would not have been able to do without this financial help.”

The equipment has been successfully installed on several farms across the region, with reductions in use of propane or other fuels often reaching 50% or more.

After the successful installation of the first heat exchanger, New Dunsley Poultry farm may install them in other sheds and buildings on the site.

CO2Sense was established by Yorkshire Forward to help businesses in the region to prosper in the low carbon economy.

We provide expertise and funding to help environmental companies to grow. We work with partners to help all organisations to fund and develop initiatives that reduce their carbon emissions.