



Rock Hall Prep School

A new sports hall for Rock Hall prep school in Northumberland is aiming for low energy with the installation of a 20kW Dimplex ground source heat pump, with grant assistance of up to 35% from the Low Carbon Buildings Programme.

Set within the five acre grounds of the school, a former Jacobean manor, the new hall is being used for sports, theatre productions and dining, as well as providing a facility for use by the local community.

The build was completed in December 2007 and the heat pump to provide heating and hot water was installed by Dimplex installer partner Revolution Power.

Flagship Housing

A Norfolk housing association is putting green energy solutions to the test with a trial site of 20 new homes using a variety of sustainable energy systems, including Dimplex ground source heat pumps.

The new build development by the Flagship Housing Group has secured Low Carbon Buildings Programme Phase 2 grant funding, which provides up to 35% of the capital and

installation costs for the ground source heat pumps. These grants are available to public sector and not-for-profit organisations.

Dimplex SI 5 ME models are being installed in five of the properties to provide heating and hot water, with the units being concealed in purpose-built sheds in the back gardens.

The ground floor of the houses has underfloor heating, while the upper floors are heated using fan convectors.

Trout Farm, Wootton Under Edge

An old trout farm means fishy business for Dimplex, with an unusual installation of a heat pump using heat from groundwater.

The Dimplex SI 7 TE ground source heat pump is being designed and installed by Gloucestershire-based Ecovision Systems and will take low grade heat from a natural water source in a vertical borehole and convert it to heat the farm's offices via radiators and underfloor heating.



Proprietor of the trout farm, Nick Read said, "We're very happy to be able to use this green technology for our buildings. The heat pump will provide space heating for the offices in what was once our fish processing factory, which has now been re-built to modern insulation standards as one part of our plan to make the whole site as eco-friendly as possible."

Self Build Barn Conversion, Northamptonshire



Dimplex SI 11MSR ground source heat pumps are at the heart of a £1.2million 'Grand Designs' style barn conversion in Northamptonshire, designed for optimum energy efficiency and solar gain.

Two 11kW output heat pumps were installed by Cardiff-based WDS Environmental to provide all the power for underfloor heating and hot water for the four-bedroom property, with the four 100 metre-deep boreholes concealed within the two acres of garden supplying up to 75% of the property's heating and hot water requirements.

Unusually, the property's design has a central 'plant room' which cleverly hides all the essential services and controls for the barn.



RNLI Lifeboat Station

Dimplex heat pumps will soon be helping to keep the volunteer lifeboat crew warm at Hoylake Lifeboat Station on the Wirral.

Installed by installer partner Earth Energy, the new build lifeboat station at Hoylake will be heated by a Dimplex SI 9 MS 9kW ground source heat pump linked to buried 'slinky' heat collectors. As the structure is located right at the water's edge, the collectors are laid under the tidal area, a highly efficient means of transferring environmental heat.

Scheduled for completion in summer 2008, the new, economically-heated lifeboat station is set to soon be saving its share of lives in the north-west.

Primary School, Norfolk

The first Dimplex heat pump installation to receive funding from Phase 2 of the Low Carbon Buildings Programme is up and running and delivering low carbon heat to a primary school in Norfolk.

Norfolk-based installer partner Econic supplied three Dimplex SI 21 CS heat pumps to heat the new build extension at Scarning Primary School, which was completed in late 2007 to house new classrooms, an ICT suite, a sports hall a plant room. 'Slinky' ground collectors were laid horizontally under the newly-created playing fields.

The LCBP grant awarded to the school covers 35% of the first 45kW of heat output, including the heat pumps, ground collectors and other equipment, the ground works and the commissioning of the system.



Three Bed Home, South Wales

A three bedroom new build home in a modern development in South Wales has had its fuel bills reduced by 75%, thanks to the installation of a Dimplex air source heat pump.

The LA 11 MS heat pump was installed at the rear of the property by Dimplex installer partner WDS Environmental and provides all the heating and hot water needs for the family of three.

"I've always been interested in heat pumps and when I discovered that air source models are relatively easy to have fitted to an existing house, we decided to go for it. It's made a massive dent in our fuel bills and the house is almost too warm and cosy, even on the chilliest days in winter," said David Griffiths.

National Park Visitor Centre



A £1million visitor centre has been built at Edale in the Peak District using a Dimplex heat pump as part of its model for conservation present and future.

Working with Earthwise Scotland, the National Park Authority specified a Dimplex SI 30 CG ground source heat pump to operate the Moorland Centre's underfloor heating system.

Jonathan Wilson of installer partner Earthwise explains: "There was plenty of room in the grounds to install the two ground loop collection systems but availability of space in the plant room was a practical aspect to consider. As well as

being reliable, Dimplex's product range gives us high power performance, with 30kW output from just one unit as opposed to the two we might otherwise have had to specify."

Moray Housing Partnership, Scotland

Two Dimplex air source heat pumps have been selected to provide heating and domestic hot water for a pilot scheme investigating the potential of using heat pumps to improve indoor comfort levels and reduce tenants' fuel bills.

Installer partner Earthwise Scotland installed the LA 8 MR and LA 10 MR air source systems, which offer a practical solution for retro fits. Prior to the start of the trial, energy audits were carried out and NHER Surveyor 3 software was used to predict the annual energy consumption which is forecast to achieve a 70% running cost saving and a CO₂ reduction of 3.7tonnes per annum.

"Early feedback is encouraging," comments Moray Housing Partnership's Raymond Duguid, "with tenants already telling us that they are delighted with their systems and there's also a significant fuel bill reduction."



Village Community Centre

A village community project is making energy saving a priority in the Garw valley in south Wales.

Supported by Groundwork in Wales, an environmental regeneration charity, a new extension to the building used by the LETS Garw community project incorporates not only a Dimplex LI 8 MEK air source heat pump which

fits neatly in the corner of a room, but also solar panels and a wind turbine, to minimise the project's carbon footprint.

LETS Garw is a local mutual aid network which exchanges all kinds of goods and services, without money. By keeping ongoing running costs to a minimum using free energy drawn from the environment, LETS Garw can now stay warm and welcoming for its community, while using even less money!

Aberdeenshire School

A new build extension to Kincardine O'Neil Primary School on the edge of the Scottish Highlands has a heat requirement on a grand scale. A total of 75kW is needed, but that's no problem for Dimplex's high output heat pumps.

An SI 75 TE ground source heat pump will draw heat from a dozen vertically drilled boreholes to supply low cost, low carbon heat during the harsh Scottish winters. The installation starts in early 2008 and the build will take around a year to complete, at the end of which the school will have a new all-purpose hall and kitchen, amongst other resources.

"It's our biggest Dimplex job to date," says Carl von Savageri, design engineer at heat pump installer partner Earth Energy. "But the three phase Dimplex unit is easily up to the job. With Dimplex's ongoing heat pump support, the school will have no worries about the system's reliability."

Scottish Self Build

A self build property in Scotland was one of the first projects to secure funding from the Scottish Community and Householders Renewables Initiative (SCHRI) for 30% of the total cost of installing a Dimplex air source heat pump.



Dimplex installer partner Earthwise Scotland installed an LA 11 MS outdoor air source heat pump to heat the 300 litre water tank and the underfloor heating system.

Within just three days, the heat pump was operating at full capacity, heating the domestic hot water and delivering a room temperature of 22 degrees Celsius. The underfloor heating system is connected to a timer to make the most of the Economy 10 tariff from Scottish Hydro Electric.



Grange Primary School

The Grange Primary School in Ealing, London, underwent a complete rebuild in 2007, with a Dimplex heat pump providing 40kW of energy efficient, low carbon heat for the new facilities.

Due to the limited space available in the urban area, collectors for the Dimplex SI 40 HS ground source heat pump were installed by installer partner Earth Energy in 10 vertical boreholes. The new building houses fully integrated ICT facilities, a separate music/drama studio and classrooms.

Designer Style London Home

A sleek new designer home in London is styled for the 21st Century with three Dimplex SI 16 MEK ground source heat pumps providing low carbon heating and hot water.

Being installed by WDS Environmental, two of the heat pumps will provide full heating for the house while the third is for the luxury indoor swimming pool. Designed by a property developer whose former design was featured on the hit TV series Grand Designs, the house is strikingly elegant, using natural materials wherever possible and an exterior of glass.

Northshields Community Centre

Meadows Community Centre in Northshields will be using Dimplex installer partner Revolution Power to install a Dimplex 75kW ground source heat pump as part of its vision to be carbon neutral. The heat pump will complement a large solar installation and two wind turbines. The visionary eco centre is a sustainable community centre founded and operated by residents.

Carole Bell MBE, Meadow Well Connected's project manager explains why Dimplex and Revolution Power were selected. "We were looking for a company that was attached to one of the framework suppliers of the Low Carbon Buildings programme and we wanted a local company. The company also had to have the technical expertise and a proven track record in delivering this type of project."

National Trust Visitor Centre, South Wales

A Dimplex heat pump is providing sustainable heat to an important industrial site in South Wales, where a £1.3million new build National Trust visitor information and community resources centre is using an LA 20 AS air source heat pump to power its underfloor heating system.

Power to drive the heat pump is supplied by a hydro-electric water turbine, meaning the entire heating system is entirely sustainable and effectively zero carbon emission.

For the National Trust, it was vital that the principles of sustainability and energy efficiency were at the core of the project. Gower-based installer partner Green Dragon Energy was appointed to advise and supply the low carbon heating.



Mounts Bay School, Cornwall

In Cornwall's mild climate, there's plenty of free heat to be drawn from the ambient environment.

For a new build contemporary performance space for drama and music at Mount's Bay School in Penzance, installer partner Earth Energy supplied a Dimplex SI 17 CS ground source heat pump. Completed in summer 2007 in time for the new academic year, the striking new Garden Building draws 17kW of heat from four boreholes.

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