



Client

Meadows
Neighbourhood Centre

Products

Dimplex SI 50 TE ground
source heat pumps

Partners

Revolution Power

Heat and two veg from Dimplex at largest heat pump installation in North East

A sustainable community centre in Newcastle has installed a Dimplex heat pump system in what is believed to be the largest installation in the north east – under its organic vegetable patch.

The North Shields Meadows Neighbourhood Centre's Terra Nostra (our earth) project aims to create a completely sustainable building and be a centre of excellence for renewable energy sources. As well as Dimplex ground source heat pumps, the centre has a rainwater recovery system, two wind turbines, solar thermal water heating and borehole water recovery to make the centre self-sufficient in water, plus it aims to be entirely carbon neutral.

Carole Bell MBE, Meadows Neighbourhood Centre's project manager, says: "The Dimplex ground source heat pump is part of our scheme to become carbon neutral by the end 2008. We are delighted with the results, and look forward to lower bills next year."

The Dimplex SI 50 TE ground source heat pump system at Meadows Neighbourhood Centre has a 45kW heat output and has been planned to feed in to both the heating system and hot water tanks at the centre.

The site had a horizontal ground works installation due to the large area available under what will become the organic vegetable patch. An area 1800m² was dug to a depth of 1.2m to install 3km of pipe in the ground to collect the heat.

The total cost for the installation including ground works and necessary building works is around £80k. The Low Carbon Buildings Programme Phase 2 funded half of this with the remainder from Tudor Trust, SITA Trust and other sources. The system is expected to halve the heating costs of the centre, currently standing at £6,500. What's more, it is also expected to save around 215 tonnes of CO₂ over the system's 25-year lifetime.

Dimplex heat pump installer partner Revolution Power was commissioned to design, install and commission the ground source heating system and the company was recently awarded the Dimplex Non Domestic Heat Pump Installation of the Year for this project. The Dimplex judges said this project summed up what this award should be about; projects that will benefit the community, promote the use of renewable technologies and of course be delivered to a very high standard.

Carole Bell MBE, adds: "We found Revolution Power's expertise to complete the installation and to overcome problems on site to be invaluable."

Dimplex ground source heat pumps provide low carbon emission heating with up to 50 percent lower CO₂ emissions per kWh than gas. It has lower running costs than conventional heating systems, reducing the impact on costs of fuel cost increases. The systems also have a 20-25 year life expectancy and usually provide 100 percent of the heating and hot water demands from an energy source that is always available. The Dimplex system at Meadows Neighbourhood Centre will provide low cost heating without the reliance on gas or oil, with minimal carbon emissions. And it is easy to use with no fuel deliveries or boilers for Centre staff to manage.



Comfort. By design

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