

Glen Dimplex to open Global Energy Centre in Dunleer

Glen Dimplex, the world leader in electric heating, has underlined its commitment to the future of the group as a global leader in renewable energy products with the announcement that it will open a Global Energy Centre at its Dunleer site in Co. Louth later this year.



Minister Dermot Ahern TD (right) joins Sean O'Driscoll and Martin Naughton at the announcement of the new Global Energy Centre.

The centre will be constructed using renewable and sustainable building materials. In addition, the centre will include a showroom that will feature products created by the group's research and development personnel.

Glen Dimplex, already the largest producer of heat pumps in Europe, has produced over 30,000 heat pumps in its state-of-the-art factories in Germany and France in 2006 and expects to grow this volume significantly this year. The group is already market leader in Germany, Austria, France, Switzerland, the UK and Ireland. Over 1,000 Dimplex heat pumps have been installed in Irish homes since 2005.

According to the group's Chief Executive, Sean O'Driscoll: "It is important to underline that, as a globally successful home appliance business, we take our responsibilities towards the environment very seriously and have managed to keep our strong level of year-on-year growth by continuing to develop energy efficient products that are the very best the market has to offer."

The Global Energy Centre will be officially opened later this year by Minister for Foreign Affairs, Dermot Ahern TD.

NEW in brief

- Dimplex is to launch new solar packages in January 2008. See the next issue of ecotalk for details.
- A new face at Dimplex is that of **Xavier Boissieux**, who recently joined the Dimplex heat pump team to provide technical support to installers and after-sales services. Xavier, who has over 10 years of experience in industrial refrigeration, heat transfer and heat pumps, worked with Sustainable Energy Ireland on the Greener Homes Scheme before joining Dimplex.



- Ground source heat pumps get facelift. See page 3.

CASE STUDY 1

P. Elliott chooses Dimplex Air-to-Water Heat Pumps for "House of Tomorrow" Homes in Longford

PROJECT:	Ard Michael "House of Tomorrow" Homes	LOCATION:	Longford
INSTALLER:	Henco Ireland	DEVELOPER:	P. Elliott & Co
EQUIPMENT:	Dimplex LA10MR air-to-water heat pumps for heating and domestic hot water		

P. Elliott & Co is setting energy efficiency standards in Longford, where TV presenter Duncan Stewart officially launched the first phase of 50 homes at the company's Ard Michael scheme on 28th April 2006.

The development, which consists of three-bed and four-bed 'House of Tomorrow' homes varying in size from 105m² to 171m², has a 'Grade A' Building Energy Rating (BER), the highest energy rating available.

The homes are heated with Henco under-floor heating and the Dimplex LA10MR air-to-water heat pumps. These pumps extract heat from the air and upgrade it to a higher temperature to provide both space and water heating. The homes are cost effective to run and better for the environment – so by choosing to live in a 'House of Tomorrow' home future residents of Ard Michael will save not only on their fuel bills but also on their global carbon footprints!



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- CASE STUDIES
- SHOWS AND EXHIBITIONS
- INSTALLER NETWORK
- NEW PRODUCTS

CASE STUDY 2

Nursing Home saves €80,000 with Dimplex Air-to-Water Heat Pumps

PROJECT: 130 bed Nursing Home
LOCATION: Longford
INSTALLER: Thomas Vaughan, Geothermal and Solar
EQUIPMENT: 3 Dimplex LA28AS for heating and 1 Dimplex LA26PS (high temperature) for hot water

Dimplex air-to-water heat pumps provide heating and domestic hot water to this 130-bed nursing home, saving over €80,000 in capital costs in the process. Heat is distributed with 2,200m² of under-floor heating, which has been running successfully since September 2006. Rooms are individually controlled by thermostats. The quiet outdoor heat pumps run from a single plant room, which has been kept small because most of the equipment is housed within the outdoor heat pumps.



CASE STUDY 3

Heating a 330m² home for half the cost of a tank of oil

PROJECT: Residential Installation
LOCATION: Oranmore, Co. Galway
INSTALLER: Gerry O'Rourke, Pure Energy Technology
EQUIPMENT: 1 Dimplex air-to-water LA16MS heat pump for heating and domestic hot water

The heat pump was installed in autumn 2006 and provides heating and domestic hot water to this 330m² home. Heat is distributed via under-floor heating throughout the house and every room is fitted with a programmable thermostat to ensure greater use of night rate electricity.

Electricity consumption was monitored between mid-October 2006 and end-March 2007 and the heating cost (for both space and hot water) worked out at €2.20 per day. The total heating cost worked out at €370 for last winter.

Bearing in mind that heating costs for the first season are usually high, because of the drying of the house, the home-owner expects an even lower heating bill next winter.

Real Cost of Heating

HEATING TYPE	DELIVERED ENERGY COST (CENT/KW.H)	SYSTEM EFFICIENCY	REAL COST (CENT/KW.H)
Heat pump (ground source)	12.1 (50% day rate elect.)	430%	2.8
Heat pump (air source)	12.1	330%	3.7
Natural gas	4.09	90%	4.5
Wood pellet	3.97 to 6.8	80%	5.0 – 8.5
Oil	5.44	70%	7.8
Electric storage heater	8.0 (night rate)	100%	8.0
LPG	8.82	90%	9.8

BASED ON SEI ENERGY COSTS, APRIL 2007

FACTS ABOUT HEAT PUMPS

- Heat pumps can save up to 75% on domestic heating by capturing heat from the surroundings (air, ground, or water)
- Ireland has ideal weather conditions for air-to-water heat pumps – fairly constant throughout the year, no extremes in temperature – and high humidity increases the efficiency of air source heat pumps
- Heat pumps are the perfect heating solutions in new-build developments with under-floor heating, providing high levels of comfort with low heating bills
- Air-to-water and borehole heat pumps are suitable for existing projects or retro-fit where a horizontal collector cannot be installed
- High temperature heat pumps enable the use of existing radiators and plumbing in renovation projects
- Ground source heat pumps can be used for district heating solutions for apartments or clusters of houses



Air Source Heat Pumps: the Natural Solution for Ireland

With heat pumps showing definite advantages over conventional heating, Dimplex believes that air source heat pumps offer a low cost, low carbon heating solution for new-build and retrofit developments.

AIR-TO-WATER HEAT PUMPS use the ambient air as their source of heat. The installation cost is low compared to ground source heat pumps because there is no need for large horizontal ground collectors or expensive boreholes. This makes them more practical and cost-effective in many domestic and light commercial applications.

Sales of air-to-water heat pumps have already overtaken ground source heat pumps in countries such as Germany and France, where heat pump technology is well established. Dimplex air source heat pumps are able to extract heat from the air at temperatures as low as -25°C, but with the much milder Irish winter temperature the efficiency improves dramatically – the same technology is ideally suited to the Irish climate with its comparatively mild winters.

With Irish average winter temperatures of around 6°C, average coefficients of performance of around 3.4 - 4.0 can be reasonably expected. While this may be lower than ground source heat pumps in some cases, total installation costs are considerably lower, making air source technology a very attractive renewable energy option. Air-to-water heat pumps also have simplified system design and installation.



NEW PRODUCTS DIMPLEX HEAT PUMPS

Dimplex ground source heat pumps are getting a facelift and gaining new features, including a new controller. New ranges are also coming to market to complement the existing products.

The installer friendly SI KMS heat pump includes all the plumbing components (valves, circulating pumps, expansion vessels, etc.) pre-fitted within the casing.

Dimplex air source heat pumps become more efficient with the new LA KM offering capacities from 6kW to 10kW.



SI MS ▲

SI KMS ▲



LA10MR ▲

CASE STUDY 4

District Heating System saves 66% on heating bills

PROJECT:	Farnham Court District Heating
LOCATION:	Cavan Town
INSTALLER:	Design Environmental Heating System (DEHS)
DEVELOPER:	Keelagh Properties
EQUIPMENT:	4 Dimplex SI75ZS ground source heat pumps with 30 boreholes going 150 metres deep

Heat pumps are providing heating and domestic hot water to two blocks, each with 30 luxury apartments. The heat pumps are located in two plant rooms (one for each apartment block) that provide centralised heating for each individual apartment.

Under-floor heating offers comfortable heating to these high specification one-bed and two-bed apartments. The heating is charged on a pay-for-use basis, with individual meters fitted to each apartment. Each meter is connected to a building management system that interlinks with business software for the issuing of heating bills.



Heat pump technology was chosen because of its efficiency, low maintenance costs, and independence from fuel deliveries.

This development benefited from the House of Tomorrow grant from Sustainable Energy Ireland. The benefits for the home-owner include constant heat at an affordable cost (one-third of the running cost of a conventional heating system).



Network of Approved Distributors

All Dimplex heat pumps are sold through our network of trained installers:



DESIGN ENVIRONMENTAL HEATING SYSTEMS
Enagh West, Virginia, Co. Cavan
Tel: 049 854 7912
email: dehs@eircom.net
www.dehs.ie



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Longston Lodge, Kilgowan, Kilcullen, Co. Kildare
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PURE RENEWABLE ENERGY
Office & Showroom Unit 3, Ring Road Business Park, New Ross, Co. Wexford
Tel: 051 420 777
email: mail@pre.ie
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GRANTS AVAILABLE

GREENER HOMES SCHEME:

For residential installations, funding from €2,000 to €3,500, depending on heat pump type (GHS Phase II, effective from 1st October).

REHEAT:

Commercial grants applicable for public, commercial, industrial and community premises. Funding of up to 30% towards heat pump installation costs. Contribution varies from €20,000 to €600,000 depending on the heating capacity of the system.

HOUSE OF TOMORROW:

Funding of €8,000/ unit (based on 100m²) is aimed at developers for new houses and apartments with high energy efficiency housing (B1 minimum energy rating with two renewable technologies). Dimplex offers a heat recovery heat pump that qualifies for two of the renewable criteria from the House of Tomorrow scheme. The Peter Elliott development featured on page 1 and Farnham Court on page 3 benefited from this grant.

All Dimplex heat pumps are registered / certified for the above Government grants.

Forthcoming Events

Dimplex will be showing its heat pump at the following exhibitions:

SELFBUILD

Punchestown, 7-9 September 2007

SUSTAINABLE BUILDING SHOW

RDS Dublin, 20-22 September 2007

SELFBUILD

Cork, 2-4 November 2007

PLAN EXPO

RDS Dublin, 8-10 November 2007

Come and meet our installers and see our products on our stand.



DIMPLEX HEAT PUMPS

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Register on-line at www.dimplexheatpumps.com to receive the next issue of ecotalk straight to your email.

