

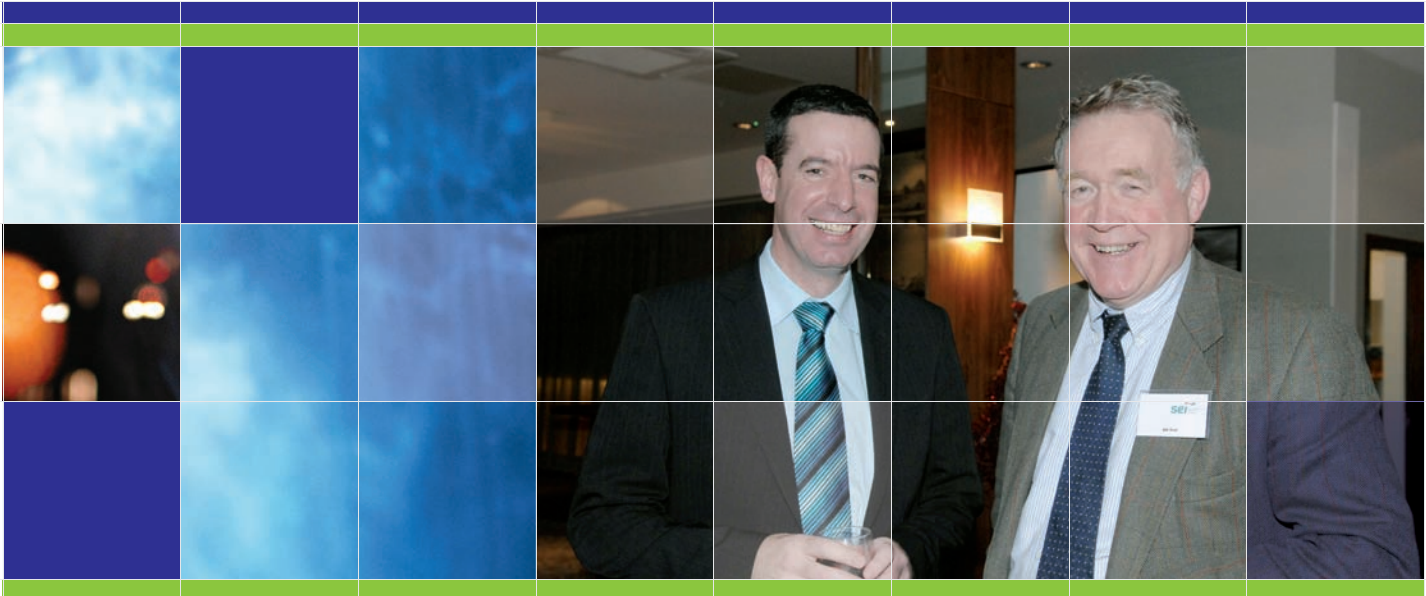


Seventh  
EU Framework  
Programme  
IRELAND

Showcasing Ireland's success in European Research Programmes

Part of the FP6 Case Study Series

**Holistic Optimisation Leading to Integration of Sustainable Technologies In Communities (HOLISTIC)**



“The Holistic Project will cement Dundalk’s status as an innovative gateway and is a demonstration of sustainable energy best practice. It is stimulating a change in energy investment that can be used as a model across communities in Ireland and the European Union.”

Declan Meally, SEI

**Enhancing coordination**

The inter-related challenges of climate change, security of energy supply and competitiveness are multifaceted and require a coordinated response. Such coordination requires a harnessing of various technologies to achieve energy policy objectives. The HOLISTIC Project aims to stimulate a paradigm shift in energy efficiency and the use of renewable energy technologies by supporting innovation, demonstration and deployment within an exemplar community.

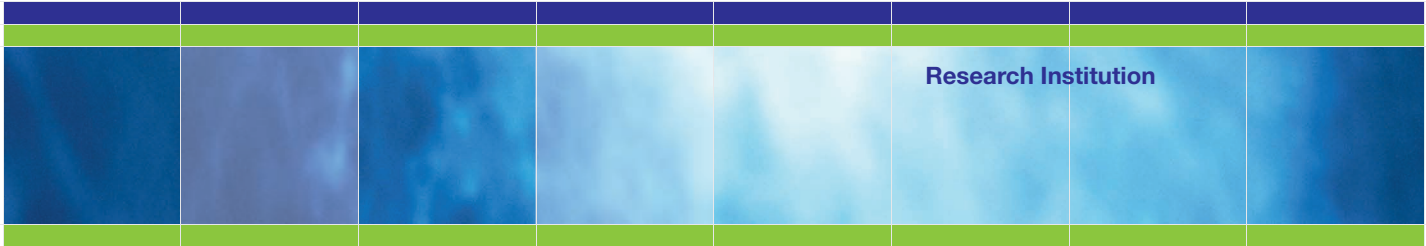
**The Project Team and Goals**

The HOLISTIC project involves three partner communities, across three member states, and was funded under the Concerto strand of the Sixth Framework Programme, FP6. The project is being coordinated by Sustainable Energy Ireland (SEI), and will demonstrate how a transformation to more sustainable living patterns can be initiated. The HOLISTIC project, with negotiated funding of €10.7 million, commenced in June 2007 and consists of 24 European Partners.

A total of €3.5 million will be allocated to fund the development of the Dundalk Sustainable Energy Zone to become Ireland’s first sustainable energy community. The Dundalk community will act as a test bed for technologies, techniques, policies and measures that will lead to a more sustainable energy future. Various renewable technologies and a range of technologies for the rational use of energy, and for managing supply and demand, will be demonstrated.

This project brings together the three cities, Dundalk (Ireland), Mödling (Austria) and Neuchâtel (Switzerland), each of about 30,000 inhabitants, who will undertake concentrated demonstration activities within a defined zone. The project will achieve a substantial increase in the supply of renewable energy, a significant improvement in the energy performance of the built environment, the provision of intelligent management of the supply and demand balance and greater energy autonomy for the community. The HOLISTIC Consortium also has three observer communities: Aachen (Germany), the Ministry of the Environment (Italy) and Newry and Mourne District Council (United Kingdom).





## Research Institution

### The Project Team and Goals

Actions in Dundalk include installation of a 1.8MW wind turbine on an industrial site; building a biomass district heating system within the central part of the zone; refurbishing over 100 houses to bring the energy performance to at least the standard required of new houses in Ireland; building 100 new houses with an energy performance that is at least 30% above that required by national building regulations; installation of wood chip boilers in both new and old houses; building one commercial building (office block) with an energy performance 30% above building regulations; rolling out the new national programme of voluntary agreements with industry; establishing an energy bureau within the energy zone and using an Energy Services Company (ESCO) to build, operate and manage the output of the district heating and large wind turbine systems and the demand of their users.

Further project aims specific to the Dundalk community include

- Establishing a greater national impetus to promote the uptake of sustainable energy by:
  - advancing development of best sustainable energy practice in industry, commerce, housing and services
  - utilising that region as an exemplar to assist spread enhanced sustainable energy
  - establishing a regeneration programme for Dundalk in order to attract forward looking enterprises and specifically enterprises within the energy sector.
- To provide a focus to assist emergence of an all-island energy market,

### More details

#### Project details:

<b>Contract type:</b>	Integrated Project
<b>Coordinator</b>	Sustainable Energy Ireland
<b>Number of Partners</b>	24
<b>European Funding</b>	€10, 700,000
<b>Funding to Irish Partners</b>	€3,500,000
<b>Project website</b>	www.sei.ie/dundalk2020 or www.concertoplus.eu

**Photo:** Insert caption here...

The HOLISTIC Consortium has ambitious targets to achieve by 2012 but is confident that they can be achieved. The targets for the 3 zones are:

#### Dundalk (have set a local timeline to meet these targets by 2010)

- 20% of heat used within the zone to be from renewable sources
- 20% of the electricity used within the zone to be from renewable sources
- 40% improvement in energy efficiency within selected buildings.

#### Mödling

- 10% improvement in energy efficiency within selected buildings..
- 8% increase in energy from renewable sources
- 11% annual reduction in CO2 emissions

#### Neuchâtel

- 23% reduction in the use of non-renewable energy
- 27% increase in electricity from renewable sources

This series of case studies is designed to provide an insight on participating in the Seventh EU Framework Programme for Research and Technological Development (FP7) 2007-2013 from the perspective of both individual researchers and companies that were successfully funded in FP6.

If you are interested in finding out more about participating in FP7 or reading more case studies about the experiences of academic researchers, small & medium enterprises and multinational companies in FP6 visit [www.fp7ireland.com](http://www.fp7ireland.com)  
The FP6 case study series was produced by the National Support Network for FP7 in Ireland, [info@fp7ireland.com](mailto:info@fp7ireland.com)

## Member organisations of the National Support Network for FP7 in Ireland



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