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**European Heat Pump Association  
Annual Conference & Assembly**

**The EU Heat Pump Market, Current  
Status & Development Potential**

**The Irish Heat Pump Market**

*Paul Dykes*  
**SEI REIO Manager**  
**Paris – 4 May 2007**



**Heat Pumps in Ireland  
Presentation Overview**

- Role of SEI REIO
- Heat Pumps in Ireland, the Market Situation
- Support Mechanisms
- Training & Certification

# SEI-REIO's Solar CD-Rom

04/03/04


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## Sustainable Energy Ireland's Renewable Energy Information Office



Created in 1995 as a service of SEI to promote RE in Ireland  
2004 Awarded Best European RE Agency by the EC

## Heat Pumps in Ireland Great Potential




- Booming Building Sector – 50,000 new houses annually in the medium term
- Main Market for HP– one-off construction (around 20,000 detached houses a year) & Large Buildings > 400m<sup>2</sup>
- Increasing demand for alternative source of thermal energy – increasing energy prices

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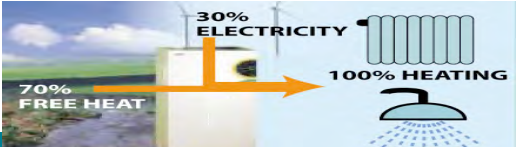
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## Heat Pumps in Ireland The Market Situation




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- **1999** - 1 Manufacturer / 3 Suppliers
- **2005** - 1 Manufacturer / 15 Suppliers
- **2007** – 1 Manufacturer / > 60 Suppliers
- **2006** – 2972 Domestic Installations (mainly GSHP) / 270
- **2007** – over 6000 Domestic Installations / 500 Large Scale Installations (> 400m<sup>2</sup> building > 20 kW HP)



## Heat Pumps in Ireland Market Situation



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SEI administering a number of funding programmes including two for the Heat Pump Market

- Greener Homes Grant Scheme – Residential
- ReHeat Deployment Programme – Commercial

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## Heat Pumps in Ireland The Greener Homes Scheme Heat Pumps


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### Heat Pumps – Grant Support

Air Source	€4,000
Water Source	€4,300
Ground Source	
Horizontal	€4,300
Vertical	€6,500










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## Heat Pumps in Ireland The Greener Homes Scheme Heat Pumps

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### Greener Homes – 26.03.06 – 31.01.07

Heat Pumps	Applications	Installed
Air Source	438 (127/311)	124 (43/81)
Horizontal	1779 (183/1596)	657 (56/601)
Vertical	759 (162/597)	175 (52/123)
Water to Water	54 (20/34)	16 (2/14)
<b>Total</b>	<b>3030</b>	<b>972+ 270</b>

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## Heat Pumps in Ireland ReHeat Programme



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Budget Announcement 2005	€65M
Included BioHeat Programme	€22M
Budget Announcement 2006 to expand BioHeat Programme to include Solar Thermal and Heat Pumps	€4M
ReHeat Grants	€26M

## Heat Pumps in Ireland ReHeat Programme Objectives




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- **Increase the use of renewable energy heating systems installed in commercial, industrial, public and community premises**
- **Increase the deployment of biomass boilers (fuelled by wood chips and wood pellets), solar thermal systems and heat pumps**
- Ensure renewable energy heating systems are designed and installed to operate efficiently
- Achieve carbon emission savings and fossil fuel displacement

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## Heat Pumps in Ireland Programme funding levels



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**Renewable Heating Capital Investment grants - Up to 30% of the eligible cost of the heating system, including storage, installation and commissioning to a defined maximum**

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**Renewable Heating Feasibility studies - Up to 40% of eligible costs to a maximum of €5,000 per technology investigated**

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## Heat Pumps in Ireland training & Certification



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<b>Interim Inspection</b>	Inspection of collector for heat pump systems during installation
<b>Installation Inspection</b>	Inspection of installation shortly after commissioning
<b>Operational Inspection</b>	Inspection of system 12 months after commissioning

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## Heat Pumps in Ireland training & Certification Eligibility Criteria



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- In Ireland **NO** actual industry standard for heat pumps exists
- All SEI registered heat pumps and all relevant components must carry the CE mark. The heat pump must be certified as meeting the European standards EN378:1999 refrigeration and EN14511, EN255 (for performance) or equivalent and tested by an accredited laboratory to the these standards.
- SEI minimum criteria for heat pumps is in line with the minimum performance criteria for DACH approval - widely recognised mark of performance and quality
- Best Practice is encouraged with regard to heat pump installation – e.g. RE installer Academy, EU Cert heat pump training manual

## Heat Pumps in Ireland Training & certification Why -The REIA?




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- No training available for installers / designers
- Not enough installers
- Examples of poor installations
- Need for Independent inspections
- Protecting the customers / building customer confidence


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## Heat Pumps in Ireland Training & certification Key elements of the REIA



- [www.reinstalleracademy.org](http://www.reinstalleracademy.org)
- Accredited training courses for installers and designers of renewable technologies
- Database of existing installers and installations completed
- Code of Practice
- Registration of installers
- Quality inspections

## Heat Pumps in Ireland Training & certification The REIA



- Six Training centres including Dundalk IT & Lisburn for HP
- European Advisors delivered training for Lecturers within each Institute – HP's - Arsenal Research
- FETAC accredited – so far 74 installers have completed the 3-day course
- Wider Roll Out across NI & ROI

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**Get in touch!**



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