

Sustainable Energy Ireland in partnership with the Irish CHP Association

Presents:

A COMBINED HEAT & POWER INFORMATION AND DEMONSTRATION DAY

And invites you to its second Combined Heat and Power (CHP) Information and Demonstration Day at the Crowne Plaza Hotel, Dublin Northwood, Santry Demesne, Santry, Dublin on Friday 11 July 2008.

BACKGROUND INFORMATION

In the 2006 Budget, the Minister of Finance announced the allocation of €65 million to “launch several innovative grant schemes relating to biofuels, combined heat and power, biomass commercial heaters and domestic renewable heat grants”. An indicative allocation of €11m was made for a CHP programme to run in the 2006 to 2010 time frame. The SEI CHP Deployment Programme provides grant support to assist the deployment of small-scale (<1MWe) fossil fired CHP and biomass (anaerobic digestion (AD) and wood residue) CHP systems. It supersedes the Combined Heat and Power R D & D Programme.

The programme includes feasibility studies to assist investigation into the application of CHP across all size ranges and technologies and investment grant support for small-scale fossil fired CHP with a capacity 50kWe and < 1MWe.

For further information go to www.sei.ie/chpgrants

WHAT IS CHP?

CHP, often referred to as cogeneration, is the combined production of heat and power in a single process. It takes advantage of the heat rejected in the thermo-dynamic conversion process from primary fuel to power. This heat is then supplied for useful purposes. It therefore typically saves around 25% of the energy that would have been required to produce electricity in a conventional power station and heat in separate heat-only boilers.

The vast majority of CHP users in Ireland qualify as auto-producers i.e. they produce electricity for use on a single premises. A small number hold a licence to supply electricity. Therefore, for most CHP users, although the CHP unit is connected to and

synchronised with the electricity system, payment is made for any additional electricity units imported, but no payment is given for any surplus units exported. Larger schemes are more likely to actively participate in the electricity market, where a spill payment is made for exported electricity.

The most promising markets for CHP in Ireland include:

- ▶ hotels
- ▶ hospitals
- ▶ nursing homes
- ▶ leisure centres
- ▶ universities
- ▶ schools
- ▶ residential group housing schemes
- ▶ retail parks
- ▶ commercial and public offices

The benefits of CHP when compared to importing electricity and using boilers to generate heat include:

- ▶ reduced energy costs
- ▶ CO₂ emissions savings
- ▶ independence and security of power supply
- ▶ conservation of valuable fuel resources

The purpose of this *free* CHP information and demonstration day is to update the market on the latest CHP developments and support mechanisms with a number of presentations and case studies from technology experts leading the CHP movement in Ireland. Leading product and service suppliers will share their expertise and experiences in showcasing the very latest in CHP innovation. The day concludes with a rare chance to see the CHP tri-generation installation at the AIB in Swords.

Programme

- 10.00 **Delegate Registration**
Tea & Coffee
- 10.30 **Welcome & Introduction**
CHP Support Instruments
Nessa Duggan (SEI)
- 10.40 **CHP for Irish Hotel's** – The Rochestown Park Hotel Case Study
Michael Mullarney (Temp Technology) & Tom Lyons
- 11.10 **A Sustainable Pathway for CHP in Commercial and Public Buildings**
– The St Patrick's Hospital Case Study
Aidan McDonnell (F4 Energy)
- 11.30 **CHP Options for Supermarkets and Retail Chains** – The Tesco Case Study
Michael McNerney (Tesco)
- 11.50 **CHP/Tri-Gen Solutions for Commercial Buildings and Industry**
Brendan Marren (CESenergy)
- 12.20 **Banking on Onsite Generation**
Kevin Mulligan (AIB)
- 12.40 **Plenary Panel Question and Answer Session with all Speakers**
- 13.00 **Lunch**
- 14.30 **Study Tour to AIB Swords – Tri-Generation, Heating-chilled beams**
Hosted by AIB / CESenergy
- 16.00 **Close**

Registration:

TO register for the FREE event please email your full contact details to: deirdre.farrelly@sei.ie

**For further information please contact
Nessa Duggan (Sustainable Energy Ireland)
on 01-8082273 / 042-9391525**