

New Supports for Bioenergy Implementation in Ireland

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Overview

- **Background**
- **National Policy**
- **Government support**
- **Greener Homes Scheme**
- **ReHeat programme**
- **Biomass CHP programme**
- **Programmes' information**
- **Summary & Questions**

Background

Bioenergy Strategy Group

- Established in 2004
- Identify policy options / make recommendations
- Focus on heat and electricity
- Report - *Bioenergy in Ireland, 2006* – www.sei.ie / REDG Publications.

Bioenergy Strategy Group

- Key recommendations
 - *“Wood heat in buildings – a major opportunity for market growth ...from houses up to large public and commercial buildings”*
 - A grant scheme to be put in place to support bioheat systems
 - Biomass CHP and AD CHP – significant potential

- **Ministerial Task Force on Bioenergy - 2006**
 - to “draw up a comprehensive national bio-energy action plan by the end of 2006, which “will set ambitious targets for deployment of bioenergy, identify priority areas for development and the necessary support measures to encourage supply and demand”.
- **Bioenergy Action Plan for Ireland – 2007**

www.dcmnr.gov.ie / Energy / Sustainable and Renewable Energy Division / Report for website.htm

National Policy

- **Energy Green Paper – 2006**
- **Delivering a Sustainable Energy Future for Ireland – 2007**

www.dcmnr.gov.ie / Energy / Energy White Paper 2007

National Policy - Heat

- **5% renewable heat by 2010**
 - **Bioenergy the key contributor**
- **12% renewable heat by 2020**
 - **Bioenergy the key contributor**

National Policy - Electricity

- **15% renewable electricity by 2010**
 - **Bioenergy a contributor**
- **33% renewable electricity by 2020**
 - **Bioenergy a contributor**
 - **30% co-firing in peat plants (by 2015)**
 - **800 MWe CHP with “emphasis on biomass CHP”**

Government support → RES-H



Budget Announcements 2005 & 2006

Greener Homes	€27M + €20M
ReHeat programme	€22M + €4M

Programmes' timescale	2006 - 2010
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Government support -> RES-E



Budget Announcement 2005

CHP – Capital support	€11M
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Programmes' timescale	2006 - 2010
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REFIT Programme May 2006

Biomass Landfill Gas	€70/MWh
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Other Biomass	€72/MWh
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Greener Homes Scheme

Domestic Heat



Greener Homes Scheme

Technologies supported

Wood chip / pellet boilers

Solar thermal systems

Heat pump systems

Est. capacity supported

5,500 systems

30,000m²

4,000 systems

Expected CO₂ reductions ~ 40,500 tonnes per year

Greener Homes Scheme

Technologies supported

Wood chip / pellet boilers

Solar thermal systems

Heat pump systems

Installed to date

~ 3475 systems

~ 15,500m²

~ 2530 systems

Expected CO₂ reductions ~ 20,000 tonnes per year

ReHeat Programme

Commercial / Industrial Heat



ReHeat programme

Technologies supported

Wood chip / pellet boilers

Solar thermal systems

Heat pump systems

Est. capacity supported

175 – 225 MW_{th}

12,000 m²

1.5 – 2.0 MW_{th}

Expected CO₂ reductions ~160,000 tonnes per year

ReHeat programme

Technologies supported

Wood chip / pellet boilers

Solar thermal systems

Heat pump systems

Approved to date

98 projects: ~ 43 MW

22 projects: ~ 480 sq. m

6 projects: ~ 180 kW

Expected CO₂ reductions ~50,000 tonnes per year

ReHeat programme

Kelly's Resort Hotel, Rosslare

- 350 kW boiler
- Wood chip fuel
- Operational February 06



ReHeat programme

Gardenfield Mushrooms

- 150 kW boiler
- Wood chip fuel
- Operational March 06



ReHeat programme

Mid-Cork Pallets

- 1.8 MW boiler
- Wood chip fuel
- Operational Sept 06



Biomass CHP programme

Technologies supported

Fossil fired < 1 MW_e

**Biomass CHP & AD CHP
(to be launched)**

Est. capacity supported

10 - 20 MW_e

6 - 15 MWe

Expected CO₂ reductions ~120,000 tonnes per year

Biomass CHP programme

Graingers sawmill

- 1.8 MWe
- 3.5 MWth
- Operational May 04



SEI Programmes - information



Greener Homes Scheme: www.sei.ie/greenerhomes

ReHeat Deployment: www.sei.ie/reheat

(Biomass CHP / AD CHP: www.sei.ie/bio_chpgrants)

Summary

- **Bioenergy Strategy Group recommendation on heat**
- **National Policy with ambitious bioenergy targets**
- **Government support through Budget allocations**

Summary

- **Greener Homes Scheme addressing domestic sector**
- **ReHeat Programme addressing the commercial / industrial sectors**
- **Biomass CHP / AD CHP to be launched**

Thank You.

QUESTIONS