




# CODEMA

City of Dublin Energy Management Agency

## Setting up & Maintaining European Energy Agencies

Dr Gerry Wardell  
Director CODEMA


Friday 23<sup>rd</sup> September 2005



### Drivers

- **Economic - Lisbon Strategy**  
*"the most competitive and dynamic knowledge-based economy in the world, capable of sustainable economic growth with more and better jobs and greater social cohesion".*
- **Environmental – Kyoto Protocol**  
**Climate Change** was one of the principal themes of the G8 summit and the UK Presidency  
**Combat Climate Change** is main theme of Irish Energy Awareness Week, Sept 18-24, 2005

Dr Gerry Wardell, CODEMA 3




### Profile: Local Energy Agency

*-Set up and operations*

- Initiative of Local Authority
- Not-for-profit Organization
- Supported by European Commission
- Small offices –1 to 8 staff
- Networked to 16 Irish and 350 EU similar organizations

Dr Gerry Wardell, CODEMA 4




### City of Dublin Energy Management Agency

CODEMA acts as the local energy agency for Dublin City Council

*The aim of CODEMA is to contribute to the economic, social and environmental sustainability of Dublin through good energy management, which will benefit the environment and improve the quality of life for the people of Dublin who live and work in the City*

Dr Gerry Wardell, CODEMA 5




### Profile: Local Energy Agency

*-Fields of operation and Activities*

Fields of operation:	Activities:
<ul style="list-style-type: none"> <li>• Energy Efficiency</li> <li>• Renewable Energy Sources</li> <li>• Clean Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Independent energy advisor to Local Authority</li> <li>• Help local partners with EU and other energy projects</li> <li>• Dissemination of energy information</li> </ul>

Dr Gerry Wardell, CODEMA 6



### Overview of Presentation

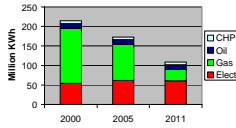
- Set-up of an Energy Agency
- Maintenance of an Energy Agency
- European Energy Agencies

Dr Gerry Wardell, CODEMA 2

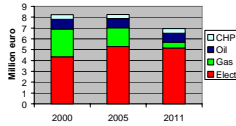
# Energy Consumption

## Dublin City Council

Energy Consumption projection to 2011



Energy Cost projection to 2011 (at 2000 prices)



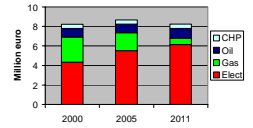
Dr Gerry Wardell, CODEMA

7

# Increasing Energy prices

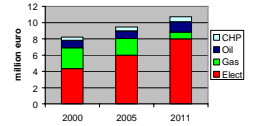
- Forecast (July 2003 - oil \$27 per barrel)

2% p.a. increase



- Higher tariffs
- Carbon tax
- Emissions Trading

5% p.a. increase



Dr Gerry Wardell, CODEMA

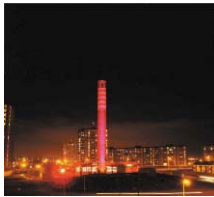
8

# Reducing Costs & Emissions

- Social Housing

## • Ballymun Regeneration

- €1.5 m/year boiler house gas bill greatly reduced
- CO2 emissions reduced by 15,000 tonnes/year
- Monitoring by CODEMA proves heating costs for residents no higher than in highly subsidized old flats



Supported by EC FP5 & SEI

Dr Gerry Wardell, CODEMA

9

# Reducing Costs & Emissions

- Housing Refurbishment

- Energy efficient specification
- SEI 'House of Tomorrow' Demonstration
- CO<sub>2</sub> emissions reduced by 40,000 tonnes/year
- Eradication of Fuel Poverty in Dublin City flats



Supported by SEI

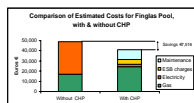
Dr Gerry Wardell, CODEMA

10

# Reducing Costs & Emissions

- Finglas Swimming Pool

- Combined Heat & Power
- Efficient pumps & Lights
- Water Conservation



Supported by SEI

Dr Gerry Wardell, CODEMA

11

# Energy Performance of Buildings Directive - BUDI

- Preparing for implementation of the EU Directive

- Trial Certification of
  - 10 Apt Blocks
  - 8 Public Buildings
- In partnership with 4 other EU cities/regions



BUDI

Dr Gerry Wardell, CODEMA

12

## Other activities of CODEMA

- Water Conservation
- Green Dublin Initiative



- Renewable Energy Dublin

Dr Gerry Wardell, CODEMA

13

## Association of Irish Energy Agencies (AIEA)

- Network of 16 similar agencies on island of Ireland
- Launched by Minister Joe Jacob, Dublin 2000 and supported by Minister Noel Dempsey
- Exchange practical experiences & know-how



Dr Gerry Wardell, CODEMA

14

## AIEA Training

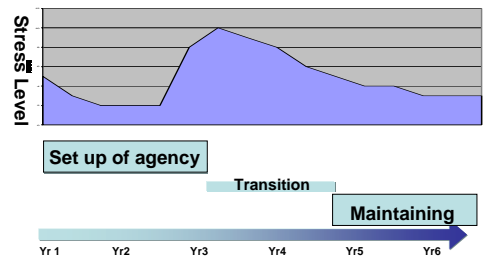
-Heat Energy Rating for buildings



Dr Gerry Wardell, CODEMA

15

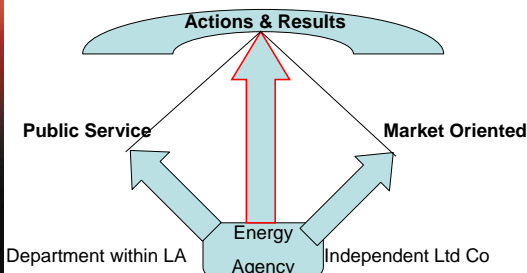
## Maintaining Energy Agencies



Dr Gerry Wardell, CODEMA

16

## Maintaining Energy Agencies



Dr Gerry Wardell, CODEMA

17

## Maintaining Energy Agencies

- Ongoing recommendations

- Clear definition of identity and role of EA
- Independence of EA - technically, politically, commercially
- Strong link with Local Authority
- Support local/regional economic development
- Participate in European networks & projects
- Check out video broadcast 'The Survival of Energy Agencies', 19 March 2004  
[www.managenergy.tv](http://www.managenergy.tv) archive

Dr Gerry Wardell, CODEMA

18

## European Energy Agencies

- LOCAL 145
- REGIONAL 183
- NATIONAL 37
- ASSOCIATIONS 16

SAVE L & R 68%  
Non-SAVE 30%



Dr Gerry Wardell, CODEMA

19

## ManagEnergy

-Initiative of European Commission, DG TREN

### Service Provider

- Conferences
- Internet broadcast ([www.managenergy.tv](http://www.managenergy.tv))
- Case Studies
- Partner search
- Information platform ([www.managenergy.net](http://www.managenergy.net))



### Reflection Group

- Associations
- Networks
- CEMR



Dr Gerry Wardell, CODEMA

20

## EU Green Paper on Energy Efficiency -Doing More with Less

- Priority of Commissioner for Energy, Andris Piebalgs
- EC initiative to launch major energy debate
- **Commission urges energy agencies to lead discussion at local and regional level**
- [europa.eu.int/comm/energy/efficiency/index\\_en.htm](http://europa.eu.int/comm/energy/efficiency/index_en.htm)

Dr Gerry Wardell, CODEMA

21

## EU Green Paper on Energy Efficiency -Doing More with Less

- Aims for 20% energy savings by 2020
- Half (10%) is achievable through implementing existing measures in:
  - Buildings
  - Domestic appliances
  - Heat production
  - Transport
- Cannot be achieved without agencies and actors at **city and county level**

Dr Gerry Wardell, CODEMA

22

## EU Green Paper on Energy Efficiency -Doing More with Less

### Reflection Group submission

1. Please take the 25 questions from the Green Paper and select some important ones
2. Send your comments to your Association of Energy Agencies, or e-mail direct to:
  - Boris Papousek: [papousek@grazer-ea.at](mailto:papousek@grazer-ea.at)
  - Konstantinou Reacm Anatoliki: [reacm@anatoliki.gr](mailto:reacm@anatoliki.gr)
  - Gerry Wardell: [gerry.wardell@codema.ie](mailto:gerry.wardell@codema.ie)
3. The Reflection Group will synthesise your contributions and submit to the EC

Dr Gerry Wardell, CODEMA

23

## Useful Web sites

- [www.aiea.ie](http://www.aiea.ie)
- [www.managenergy.net](http://www.managenergy.net)
- [www.managenergy.tv](http://www.managenergy.tv)
- [www.europa.eu.int/comm/energy/efficiency/index\\_en.htm](http://www.europa.eu.int/comm/energy/efficiency/index_en.htm)
- [www.combatclimatechange.ie](http://www.combatclimatechange.ie)
- [www.codema.ie](http://www.codema.ie)
- Thank you for your attention

Dr Gerry Wardell, CODEMA

24