NR. (I-003)

PRESENTATION FORM OF LOCAL ENERGY AGENCY

NR. (I-003)

GENERAL DATA

Name of the Agency:
City of Dublin Energy Management Agency (CODEMA)

Address:
Unit 32, Guinness Enterprise Centre, Taylor's Lane.

City and ZIP code:
Dublin 8.

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Ireland.

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Web Site:
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Corporate Nature:
Not for profit limited company

Creation Date: 1997

Nr of staff: 4 permanent + 2 students

The Agency is a member of the following Networks:
Energie-Cities, AIEA

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KEYWORDS

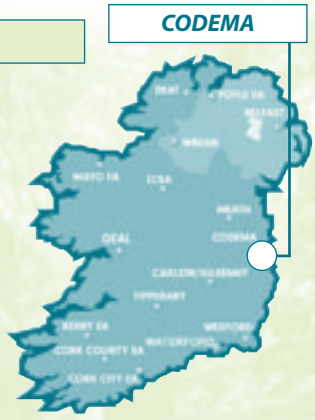
- **Rational use of Energy**
- **Renewable Energy**
- **Transport**
- **Local Authorities**
- **Buildings**
- **Water**

AIMS/OBJECTIVES & ACTIVITIES

The aim of CODEMA is to contribute to the economic, social and environmental sustainability of Dublin through good management, which will benefit the environment and improve the quality of life enjoyed by those who live and work in the city.

Activities:

- *Energy advisor to Dublin City Council in housing and public buildings, transport, water conservation and the environment.*
- *Energy agency services for promoting good practice in energy efficiency, renewable energy and clean urban transport*



CASE STUDIES

CASE STUDY N.1

Title:

RESULTS OF DIRECT ACTION BY DUBLIN CITY COUNCIL & CODEMA

Description:

CODEMA is the primary advisor to Dublin City Council on energy demand, efficiency, renewable energy and water conservation. Through direct action by CODEMA and Dublin City Council a savings of 77,240 tonnes CO_2/year is estimated for the period 1990 -2010 in the following areas:

New Housing:

CODEMA works closely with City Architects to specify top energy design guidelines for newly built social housing. Improved insulation specifications, high-tech glazing and efficient heating systems result in savings of up to 17,184 tonnes CO_2 per year.

Public Buildings:

Direct action in Public Buildings has realised a saving of 13,400 tonnes CO_2 per year. This is achieved by fuel switching to clean efficient natural gas in swimming pools, libraries and other public buildings. Alternative sources of energy are also considered.

Public Lighting:

A cost saving of €575,180/year by the Public Lighting Division has been achieved by the year 2000 through technical developments. At the same time, lumen output has increased by 29% and the number of lighting outlets and their quality has improved significantly, in accordance with public demand and safety requirements.

Combined Heat &Power:

The Civic Officers' Combined Heat and Power unit consists of a 4-stroke spark ignition gas engine with an electrical rating of 922 kW. Total environmental savings of 1,008 tonnes CO_2 per year are directly attributed to the CHP plant.

CASE STUDY N.2

Title:

ENERGY EFFICIENT REFURBISHMENT OF DUBLIN CITY FLATS

Description:

Dublin City Architects are currently undertaking a major refurbishment of their housing stock in consultation with their energy advisors, CODEMA. Dublin City Council is landlord to about 25,000 social housing units, of which 16,000 are in flats. 85% of the flat complexes were designed and constructed prior to the 1973 oil crisis when fuel was cheap and little attention was paid to energy consumption. They were therefore built with little or no thermal insulation, single glazed windows and heating systems that are grossly inefficient by present-day standards.

The overall objective of this refurbishment programme is to develop a high standard of energy-efficient social housing apartments that will be carried out with an overall integrated area plan for social, economic & environmental regeneration of Dublin's inner city. Three main considerations were prioritised:

- *reduction of greenhouse gases*
- *combating full poverty*
- *preservation of housing stock*

In recognition of Dublin City Councils commitment to sustainable energy and the Kyoto Protocol, a grant of €624,220 has been awarded for a demonstration project involving the energy efficient and renewable energy refurbishment of 126 flats. This grant is made available from the National House of Tomorrow Programme which is run by Sustainable Energy Ireland (SEI).

Supported by the European Union's SAVE program Project SEANCE:

Strengthening of Energy Agencies Networks in Countries of Europe Together with five other project partners the goal is to further strengthen the position of energy agencies and to contribute to a sustainable energy development across Europe.

EUROPEAN UNION STRUCTURAL FUNDS

AIEA ASSOCIATION of IRISH ENERGY AGENCIES