




CODEMA




City of Dublin Energy Management Agency

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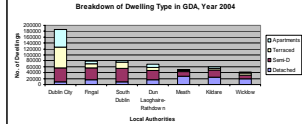
Greater Dublin Area

Presentation of possible pilot projects in GDA (status) – discussion








Residential Sector

- Statistical Analysis results
 - 577,538 Residential Buildings in GDA
 - 91,529 Apartments in GDA






- WP2 - 10 Apartments


Identification of Buildings

- Workshop for Building Control Unit in DCC, May 2005
- DCC possesses Asset Inventory of all Private Apartments
- Meeting with Building Control Unit Senior Building Surveyor, August 2005 to further discuss BUDI project and WP2
- DCC as an 'Authorised Person under Section 11 of Building Control Act 1990' has ability to request data to demonstrate compliance with TGD Part L – Conservation of Fuel and Energy
- 24 Private Apartments were identified by DCC (recent construction 1997 onwards)










Identification of Buildings

Queens St. Apartments





Bridgefoot St. Apartments



Identification of Buildings


- DCC officially requested CODEMA to examine 10 apartments for compliance with Part L - Conservation of Fuel & Energy
- Letter were sent out to all 24 building owners requesting information 'as will demonstrate compliance with Part L of the Second Schedule to the Building Regulations':
 - Dimensional drawings – identify size, extent, orientation, composition etc
 - U-values of the different enclosing elements (walls, roofs, windows, doors, floors) or such information required to calculate elemental u-values
 - Technical description of the space heating systems and controls installed
 - Technical description of the hot water heating system and controls installed
 - Technical description of permanent and variable openings in the different enclosing elements
- CODEMA has received information on 9 Apartment Blocks (so far)
- Information easy to obtain - regulatory route



Methodology

- Existing methodology for calculating the energy performance of a building - Heat Energy Rating
- HER is based on the Standard Assessment Procedure (SAP) as used by the UK Government agencies
- HER method possibly form the basis of the "calculation engine" on which future building energy rating calculation methods are based
- HER takes account of the following:
 - Energy requirements –
 - heat loss through the fabric, including at thermal bridges
 - air infiltration and ventilation
 - provision of domestic hot water
 - Energy inputs
 - solar gains
 - occupancy including the use of energy-using appliances
- Heating system responsiveness to demand and degree of control
- BER- need to take account of boiler efficiency and fuel type



Thank You For Your Attention