



# Transition Programme

## Energy & Environment

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# What does CODEMA do?

Contributes to the sustainable development of Dublin through good energy management, which will benefit the living environment and improve the quality of life of the people who live and work in Dublin

# Ballymun Regeneration

Developed to a high energy and environment specification





# Energy & Environmental Strategy

The heating and domestic hot water in the buildings have been given special attention in order to give occupants a high comfort level, which is individually controlled, at no extra running cost.

# Recommendations

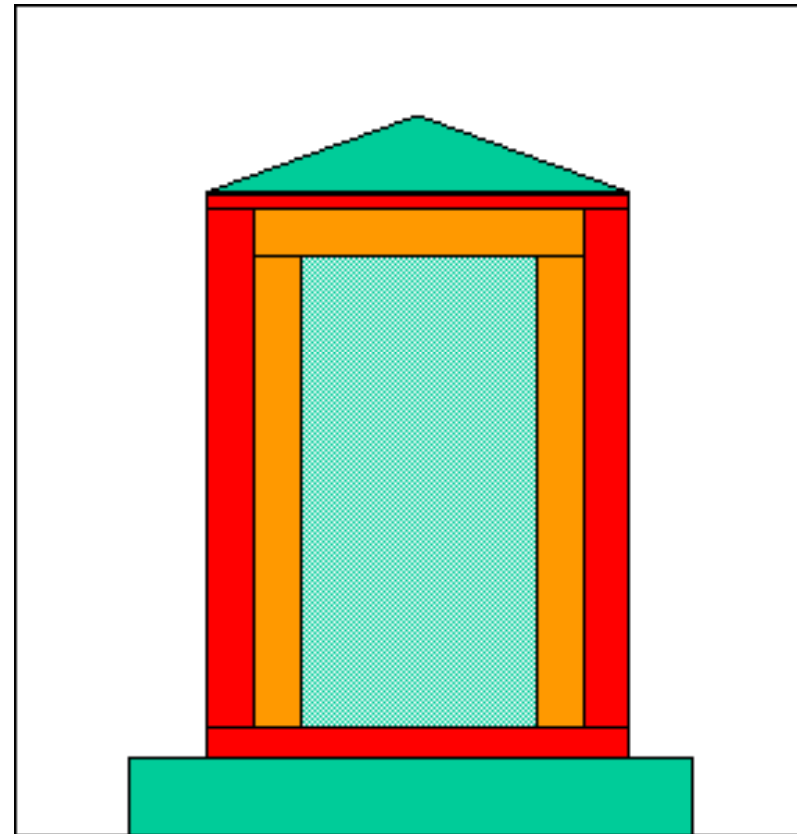
- Individual high efficiency gas boilers with thermostatic controls and timers, allows tenants to regulate their individual environments
- High insulation levels keep heating costs down
- The smart card system as a method of payment to allow for budgeting on a weekly basis

# Insulation

Extra Insulation in roof,  
floors, walls

- Roof insulation is increased by 20%
- Floor insulation is increased by 50%

Wall insulation is increased by 50%



# Windows

- Low-e double glazed windows
- looks like ordinary double glazed windows
- have a special invisible layer to reflect the heat back into the room
- This makes them as good as triple glazed windows



# Heating System

- High efficiency condensing boiler for heating
- These boilers are much more efficient than standard boilers
- This reduces fuel costs and fuel usage



# How to pay for heating

- Smart Card

- pre-paid cards
- top-up similar to mobile phones
- no bills



- How to use card

- Top up card at local shop
- Insert it into slot as shown



# Controls

Thermostatic Radiator valves (TRVs)



# Controls

- Hot water Cylinder has an insulating coating around it
- The hot water temperature is controlled by the cylinderstat - Set this to  $\sim 60^{\circ} - 65^{\circ} \text{C}$



# Controls

## Immersion

Hot water is heated automatically when heating system is on

To heat water

“On” and “Sink”

“On” and “bath”

Remember to switch off after use



# Environmental features

- CFC & HCFC free insulation
- Sustainable timber from managed forests
- Low-flush (6 litres toilets)

# Ventilation

- Allows movement of air throughout the house and across the walls of the house.
- Good ventilation stops condensation & damp spots around the house, musty smells and mould growth
- Windows will have trickle type air vents that can be opened & closed

# Some energy tips

- Switch off lights & appliances when not in use
- Use energy efficient light bulbs
- Open fires losses a lot of heat through the chimney, use the central heating instead
- Curtains should not cover the radiator & closed at night to reduce heat loss
- When purchasing a new washing machine or fridge look out for the energy label

# Free Information

- Sustainable Energy Ireland (SEI)
  - [www.sei.ie](http://www.sei.ie)
  - Hotline: 1850 734 734
- Power of One Campaign
  - [www.powerofone.ie](http://www.powerofone.ie)
  - Tel: 1850 221 122
- ROSH
  - [www.rosh-project.eu](http://www.rosh-project.eu)



# Benefits

- For You

- Lower heating costs
- Better comfort
- You control the heating of your own home

- For Environment

- Better local air quality
- less global warming
- protect ozone layer