



Stjohn O'Connor

Dept. of Communications, Energy and Natural Resources



Department of Communications, Energy and Natural Resources
An Roinn Cumarsáide, Fuinnimh agus Acmhainní Náúrtha

Renovate Europe

11 October 2012

Dr. Stjohn O'Connor
Department of Energy
Ireland



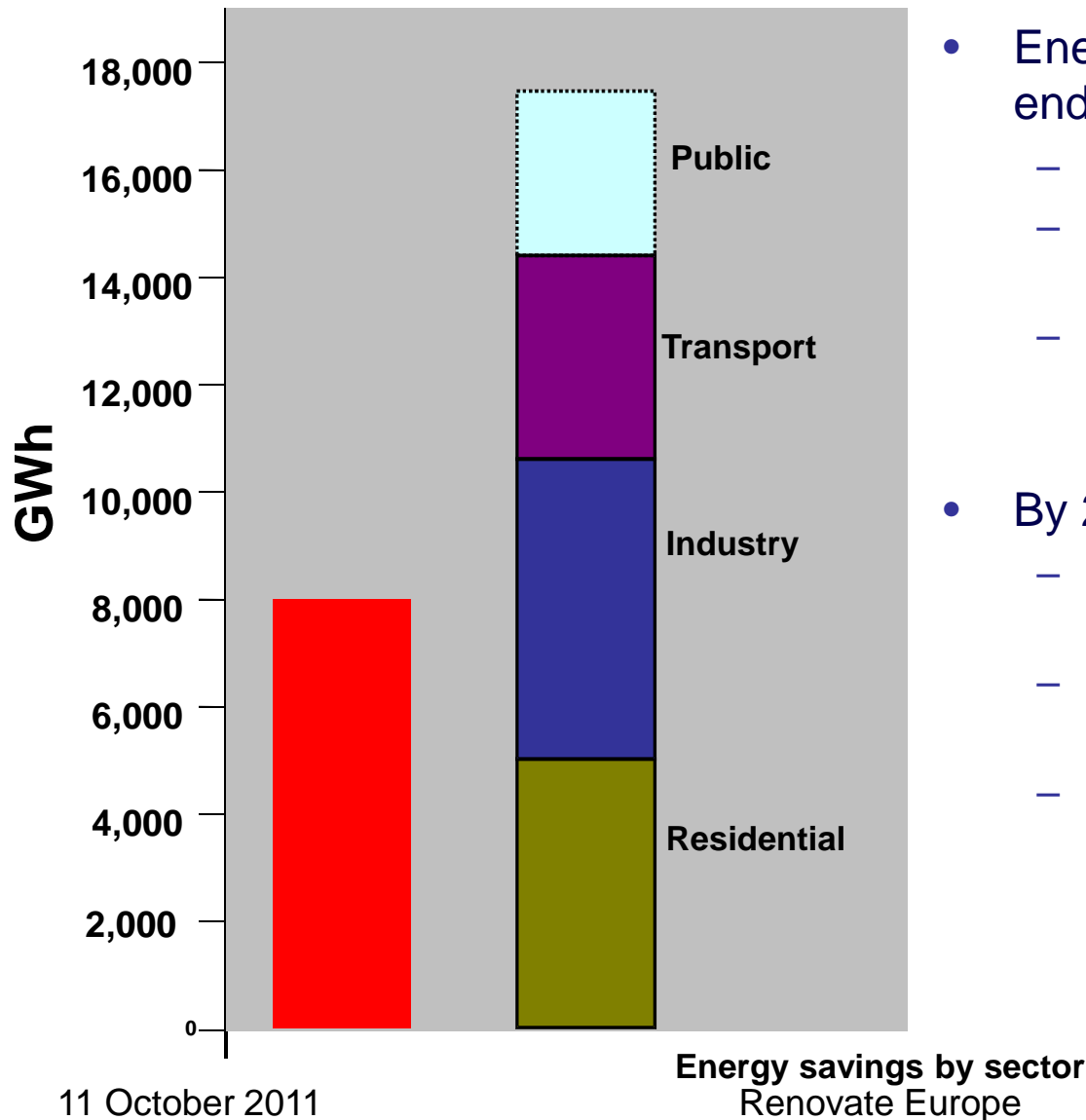
Scale of Ambition

- 1,000,000 building upgrades
- Total cost €10 billion
- Value of energy savings €16 billion
- 8,000 to 10,000 jobs





Energy saving potential: NEEAP 1



- Energy savings achieved at the end of 2010
 - over 8,000 GWh per annum
 - reduction in CO2 emissions of over 2 Mt.
 - reduction in energy spend of over €485 million (€2011) per annum
- By 2020
 - Energy savings of 34,044 GWh per annum
 - reduction in annual emissions of around 7.7 Mt.
 - reduction in energy spend across all sectors of approximately €2.25 billion (€2011) as a result of the savings.



Typical household savings

- 3 bed semi-detached
- Annual energy expenditure (heating) €2,100
- Investment in energy efficiency - €10,000
- Energy bill reduction 30% - 40%
- 10 – 15 year payback





Typical Commercial Projects

Royal Victoria Eye and Ear Hospital

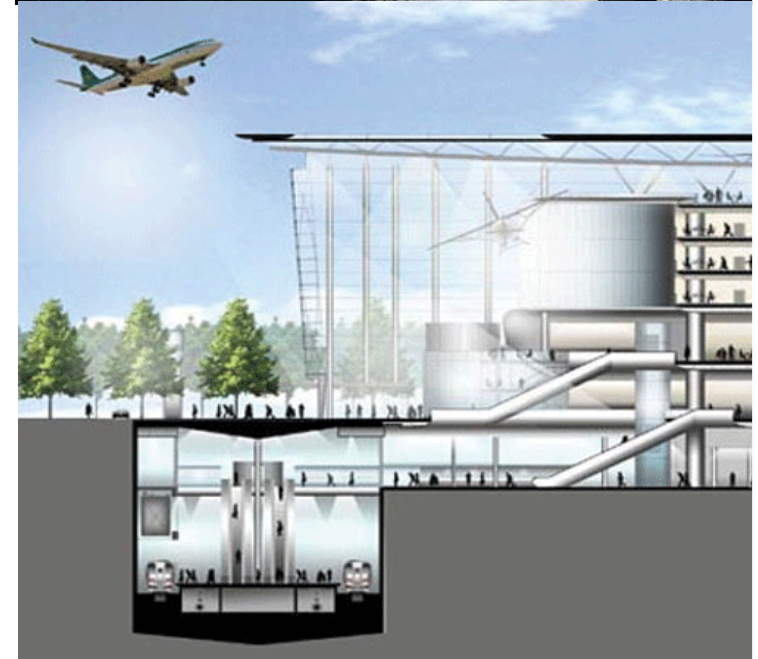
- Project Cost - €330,000
- 25 -30% site energy saving
- Project payback 5 years

Aer Lingus

- Project Cost - €244,000
- 17% energy savings
- Project Payback 3 years

Green Isle Foods

- Project cost – €1,200,000
- Energy Saving – 6%
- Project Payback < 3 years





2020 - Realising the Ambition

- Access to finance is the single biggest challenge faced by policymakers
- Need for innovative solutions from policymakers and the market:
 - EU: EIB, JESSICA/Structural, ELENA, EEEF;
 - State funds
 - Bank funding: domestic and international; and
 - Other third party equity
- Sustainable solutions – PAYS/Green Deal?
 - Domestic
 - Non-domestic