

# **“The role of utility companies in sustainable energy”**

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Energy Services

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# Presentation Overview

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- Business drivers
- SSE's renewables portfolio
- Investments in sustainable energy
- SSE's energy service offering (ESCos)



## Drivers

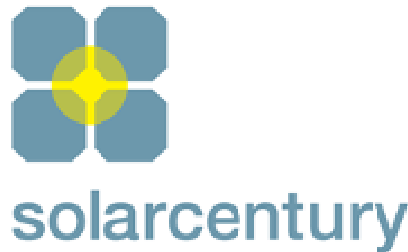
- Carbon intensity Te/MWh an important metric of competitiveness
- Government renewables targets to address climate change & energy security
- Strategic focus on renewables to reduce business risk: hedge fossil fuel security & price volatility
- New investment opportunities in UK, Ireland and further afield
- New markets: gas storage, telecoms, water, long-term energy products, contracting



## SSE's renewables portfolio

- 2000MW → 4000MW+ by 2013
- Large hydro
  - Glendoe (100MW)
- Wind on-shore and off-shore
  - Airtricity acquisition
  - Clyde, Scottish Borders (483MW)
  - Greater Gabbard, Thames Estuary (504MW)
- Biomass / waste
  - Slough Heat and Power acquisition

# SSE Ventures



Insource Energy





## Energy Services: our approach

- On-site solutions to achieve Client targets: carbon saving, energy efficiency, renewables
- Design, build, finance, operate & maintain, provide customer service & billing
- Adopting infrastructure built by others is an option
- Long-term agreements: 15 years ++
- Integrating a wide range of SSE Group skills
- Deliver appropriate technologies, including SSE new ventures
- In partnership with private / public Clients
- A wide range of scales, 30 houses → Ecotowns



## Energy Centre & local networks

- Gas fired reciprocating engines,
- Biomass boilers
- Geothermal heat pumps,
- Other RE technologies
- Heat connections to premises
- Cooling for commercial if required
- Private or Public Wire electricity within current regulatory constraints



Solar PV



CHP/Biomass/Trigeneration

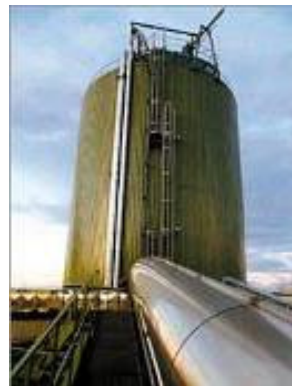


Ground Source Heat Pumps

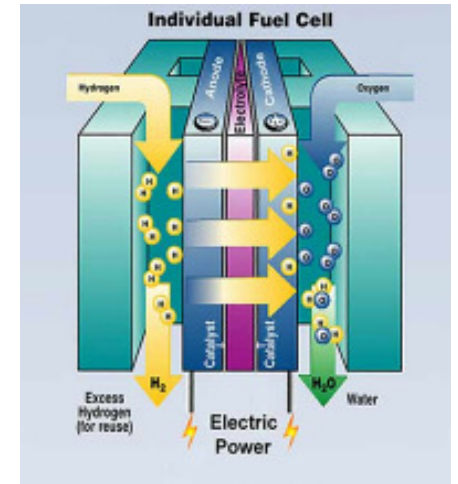
**Energy Centre**



Solar Thermal



Anaerobic Digestion and Waste to Energy



Fuel Cells



# Royal Arsenal, Woolwich

- Phase 1 = 460 apartments
- Gas CHP with DH
- 24% carbon saving





# Community / Commercial Wind

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- Localised generation & use of green energy
- Flexible finance
- Long term revenues give community / Client benefit
- A fully managed service



# Stage 1

## What we need from you

- No. of development units
- Geographic location
- Housing density
- Commercial load
- Planning obligation
- Technology requirements
- Understanding of
  - Project timescales
  - Environmental objectives

## What we provide

Proposal containing

- **Outline of technical solutions**
- **Infrastructure layout**
- **Estimated capex**
- **Estimated financial contribution**

# Scottish & Southern Energy plc

Thank you