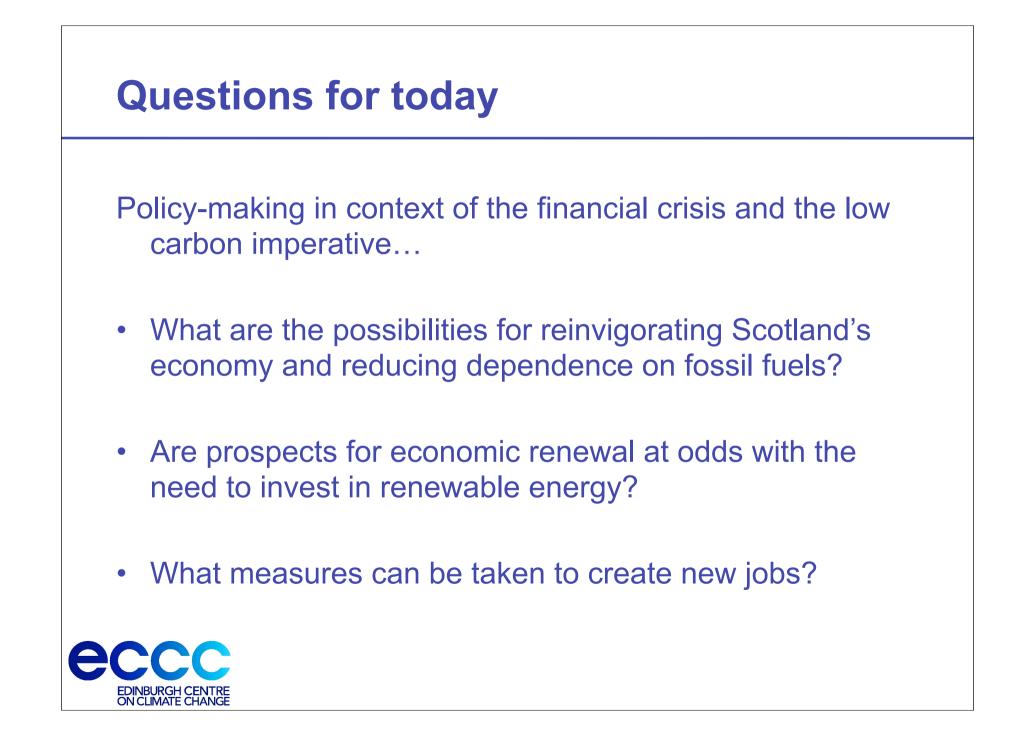
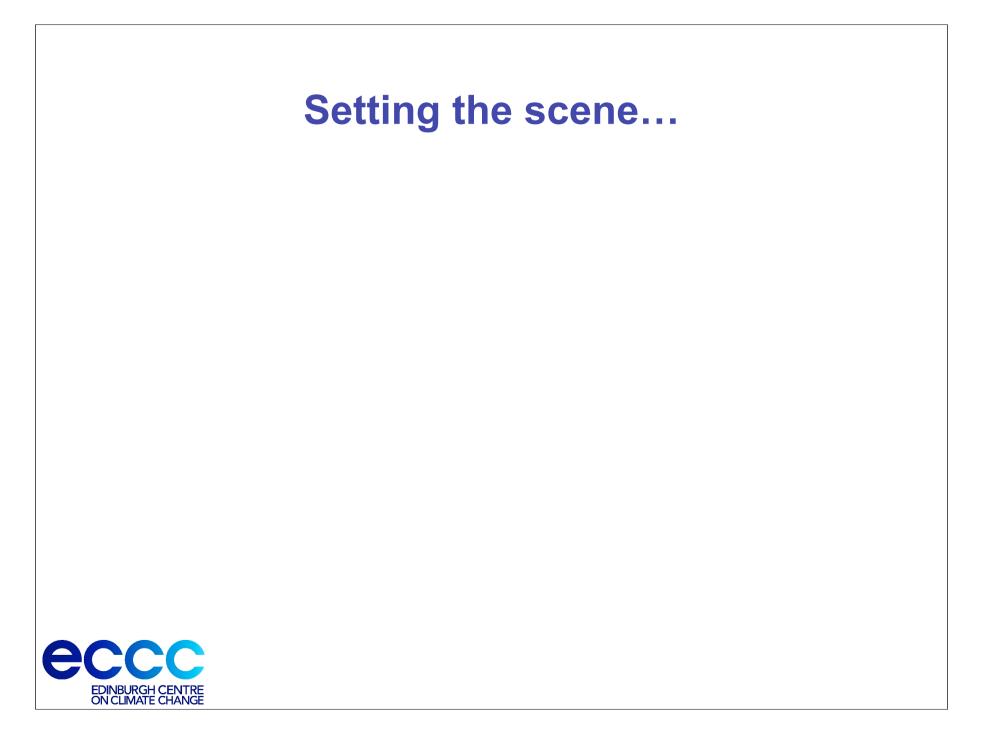
# Climate change & renewable energy policy

Andy Kerr Director, SAGES







## Scotland's climate change targets

## Climate Change (Scotland) Act (2009):

- Reduction of at least 80% from 1990 levels by 2050
- Interim 2020 target of at least 42%
- Reductions of at least 3% per year from 2020
- Annual targets out to 2022.
- Targets include emissions from international aviation and shipping.

### **UK Climate Change Act (2008)**

- 80% reduction in GHGs by 2050
- At least 34% reduction by 2020, rising to 42% if EU takes 30% target
- 1st 3 carbon budgets from 2008-12; 2012-2017; 2018-2022
- Established UK Committee on Climate Change



# Climate Change (Scotland) Act / UK Climate Change Act

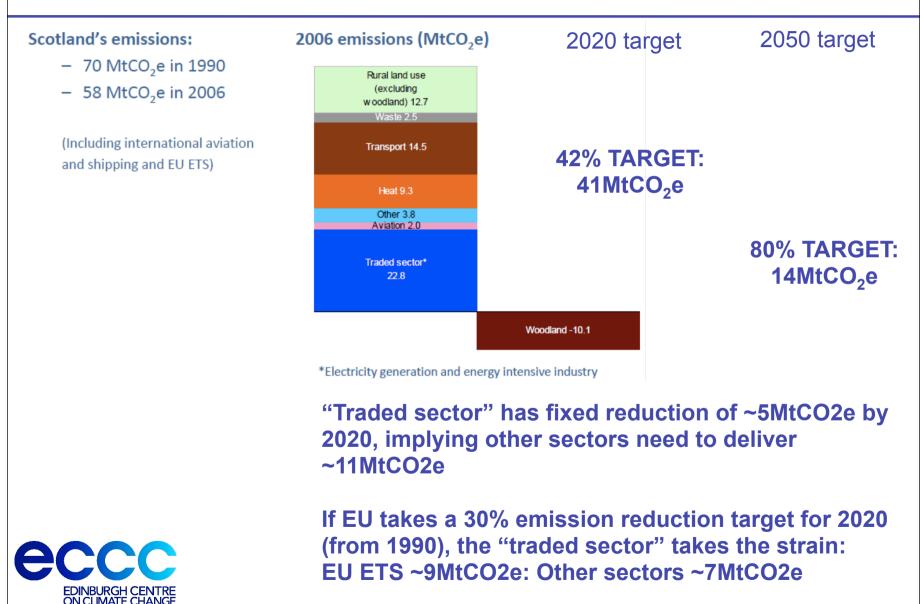


2(1) "The Scottish Ministers must ensure that the netScottish emissions account for the year 2020 is at least42% lower than the baseline."

Net Scottish emissions account = Scottish territorial emissions – carbon units credited + carbon units debited



# **Current situation (2006 figures)**







## ~100% by 2030



~46% by 2020



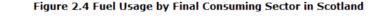
~10% by 2020





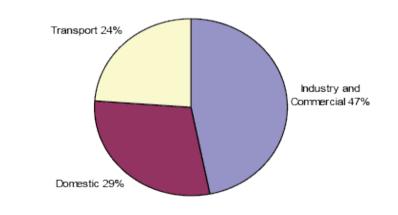
~32% by 2020

## Scotland's renewable energy targets



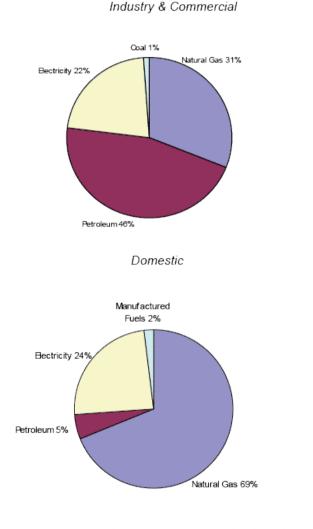
## Key drivers

- Comparative advantage
- Export markets
- Economic growth
- Energy security
- Reducing emissions Scottish Final Energy Consumption (%) by Demand Sector 2006



Source: DECC, Regional Consumption Data 2006, June 2009 update





Source: DECC. Regional Energy Consumption (2006)

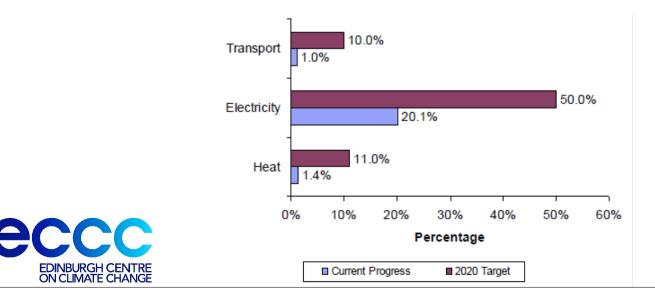
## **Scotland's renewable energy targets**

### **Headline figures**

- 20% of total energy use to come from renewable sources by 2020
- 50% of electricity demand from renewable sources
- 11% of heat demand from renewable sources
- 10% of transport demand for energy from renewable sources

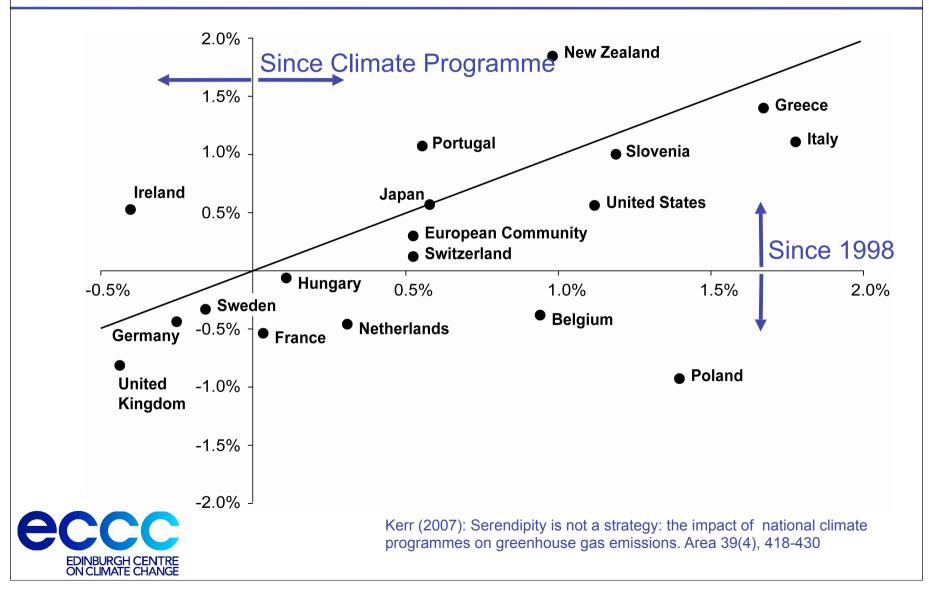
#### Where are we now?

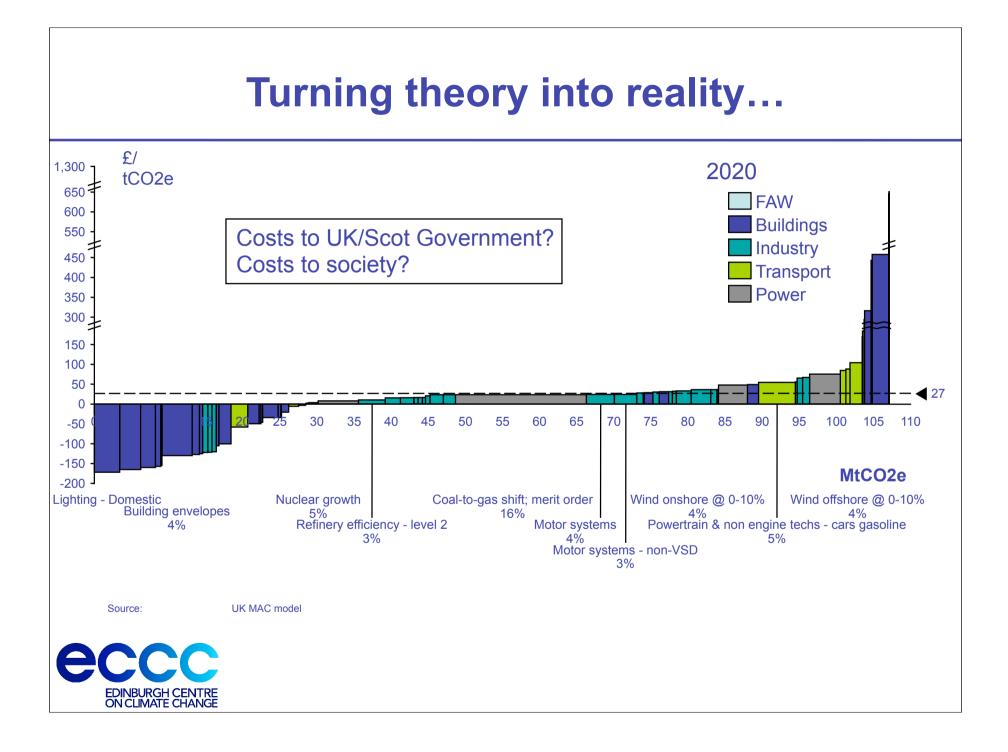
• Total renewable capacity in Scotland - May 2010: 3.7GW





# Initial Outcomes of National Climate Change Programmes







# **Issues for Scottish policy making...**

- Financing + opportunity costs...
- Balancing higher energy costs with developing an enticing place to do business / social equity
- Planning frameworks and locking in high carbon frameworks
- "Enabling" infrastructure to deliver structural change
- Overcoming barriers to change: e.g. upfront costs
- Skills shortages
- Innovation within economy
- External drivers [export markets]
- Behavioural change / social context
- Carbon accounting & PR gap

