

# **A mass market for microgeneration in Scotland - how could we get there?**

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- Why support microgeneration?
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# Why support microgeneration?

- Significant potential to reduce CO<sub>2</sub> emissions
- Help meet Scottish and UK renewable energy targets
- Diversify energy supply
- Reduce wasted energy
- Reduce emissions from heat generation
- Help tackle fuel poverty



# Where are we now?

- Installations in low thousands out of potential millions
- Considerable barriers, including:
  - Expensive
  - Lack of public understanding
  - Difficult to sell electricity back to grid
  - Planning barriers
- But there is public support



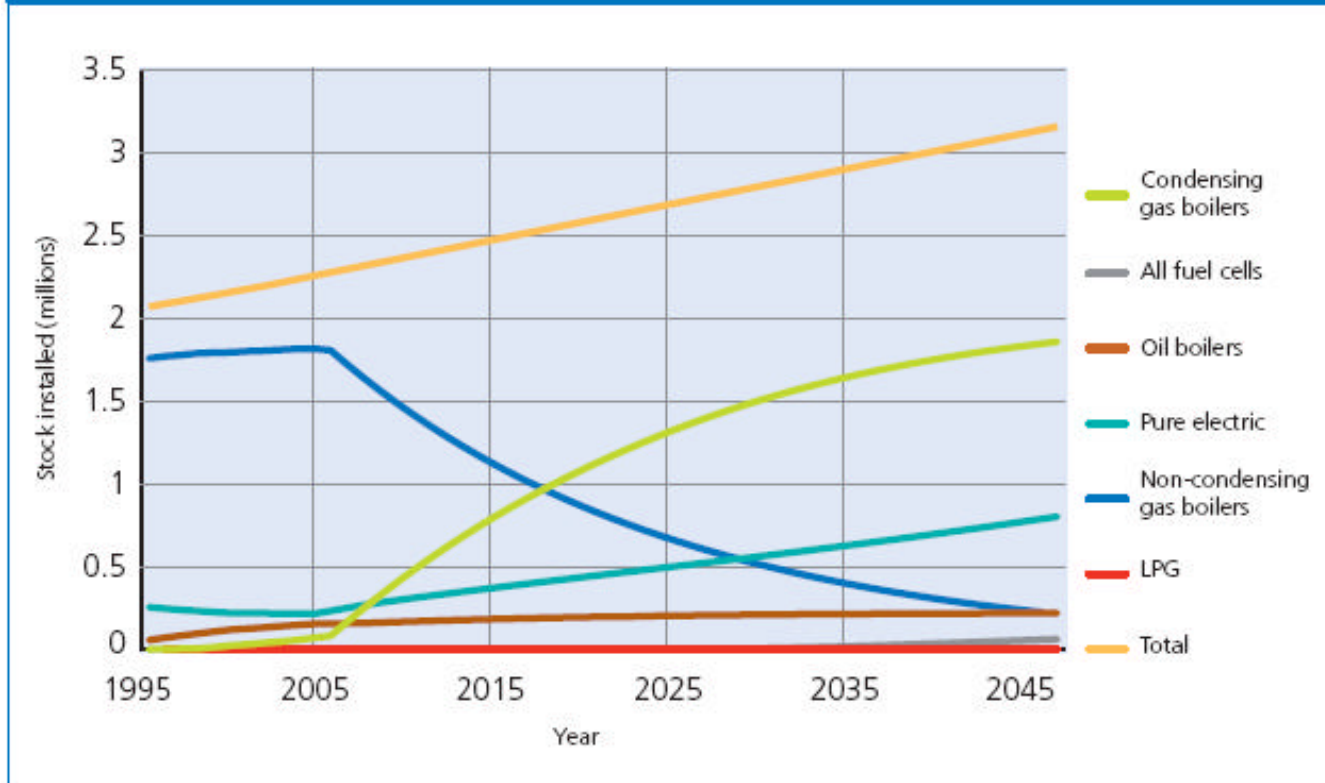
# What did we do?

- Scottish Government funded model
  - built by Element Energy based on principles of consumer behaviour
  - analyses impact of specific policy interventions
  - focus on long term not short
- Consumer research supported by EST
- Combined to produce EST report (published 13<sup>th</sup> May)



# With no support...

Figure 2: Total heating stock installed in Scotland to 2050 under reference scenario



# 12 key recommendations

1. Regulation (long term)
2. Provide 'soft loan' purchasing options
3. Awareness raising
4. Independent information and advice

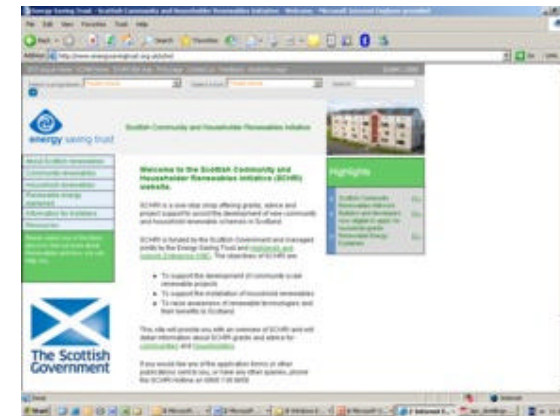
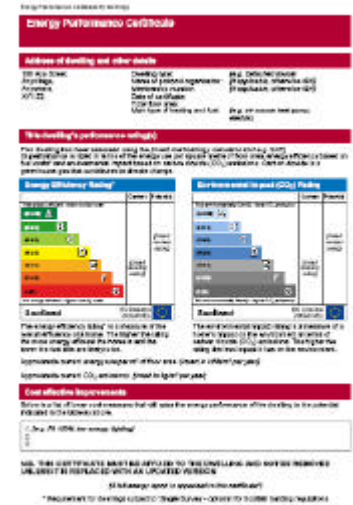


# 12 key recommendations

5. Help householders understand the EPC process

6. Subsidies – ensure their value is sufficient (30%)

7. Provide a clear framework for microgeneration



# 12 key recommendations

8. Consider microgeneration policy in tandem with grid-decarbonisation policy



9. Support early commercialisation measures e.g. field trials

10. Invest in peripheral technology issues



# 12 key recommendations

11. Price carbon at least at  
£20/tonne CO<sub>2</sub> (UK)



12. Provide energy based  
subsidy e.g. guaranteed  
'feed-in' tariff (UK)



# What level of uptake and savings are possible?

- Need a combination of policy interventions to maximise uptake
- A combination of: regulation, grants, low interest loans, subsidising electricity generation, and a £20/tCO<sub>2</sub> carbon tax
- Savings are significant:
  - Up to 9.6MtCO<sub>2</sub> per year by 2050



# Further information

- Copies of report available:
  - on our website: [www.est.org.uk](http://www.est.org.uk)
  - at our stand (E26)
- Contact: [elaine.watson@est.org.uk](mailto:elaine.watson@est.org.uk)