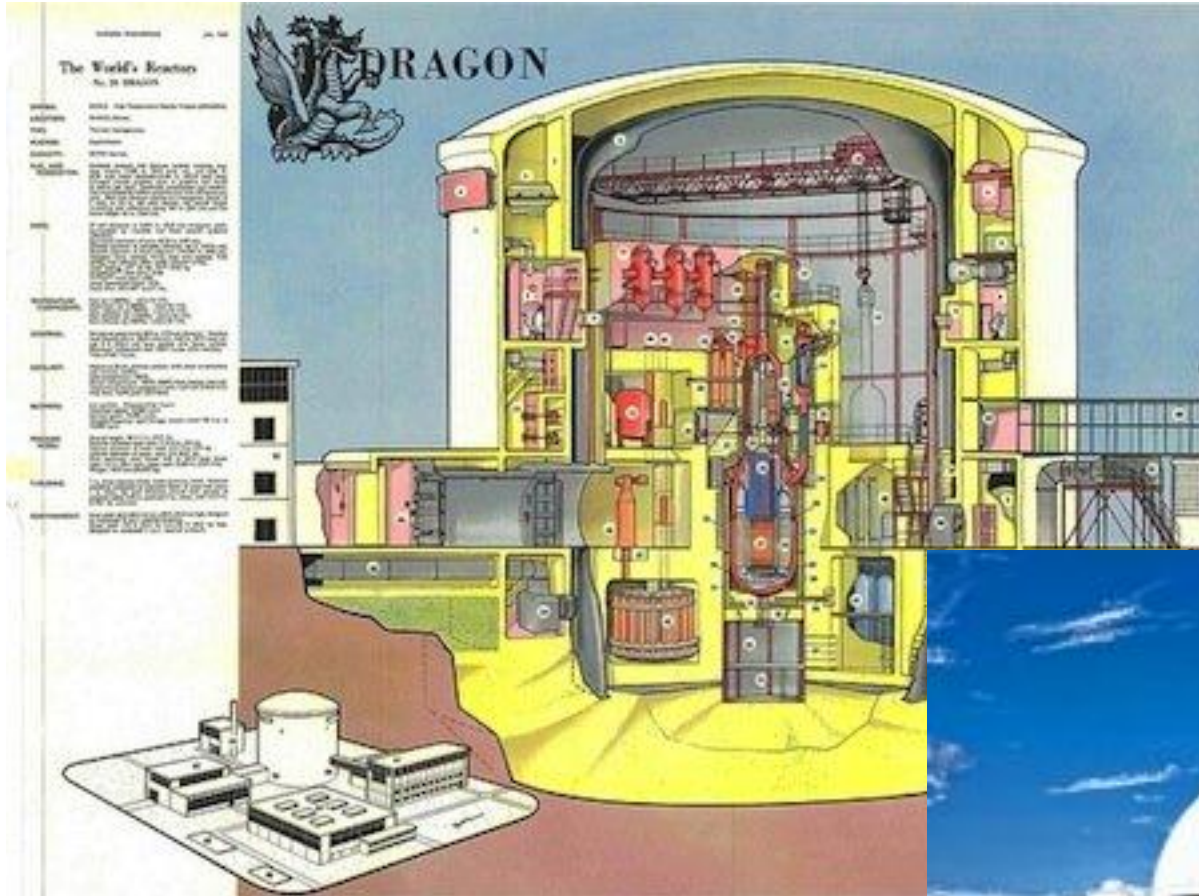


# Thorium and the UK nuclear landscape

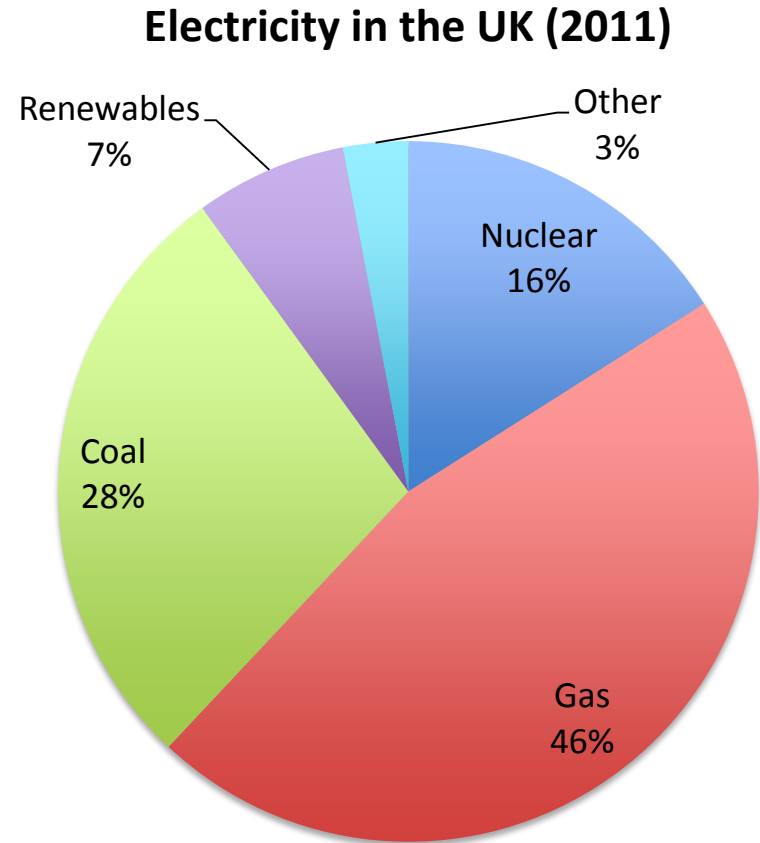
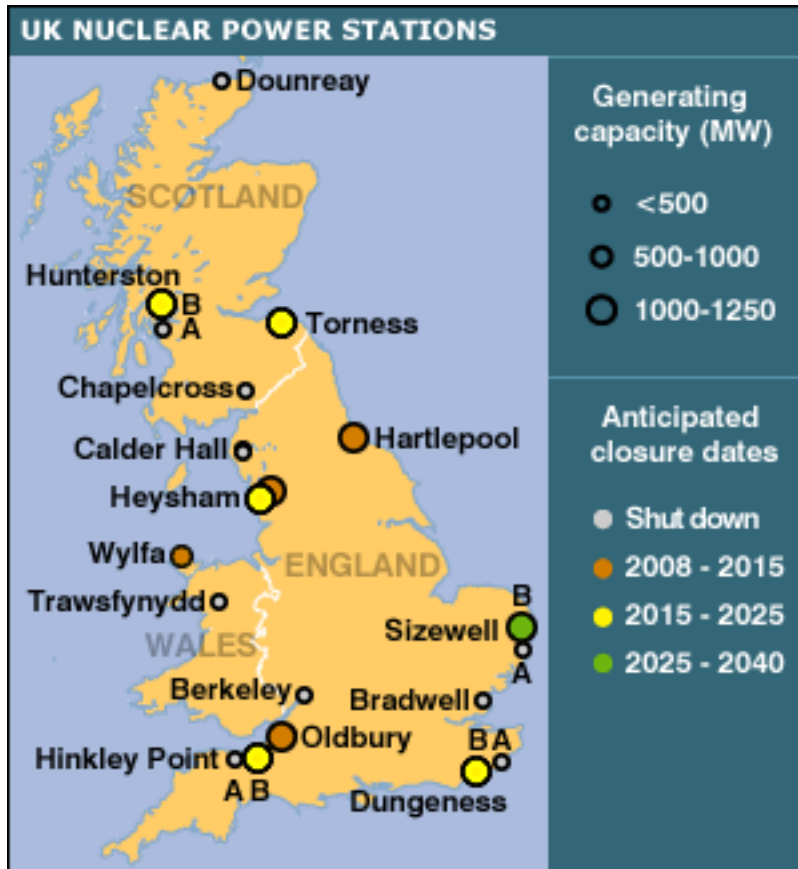
Baroness Worthington

ThEC 2012, Shanghai

# UK's history of innovation



# Nuclear energy in the UK today



# Current policy position

- Legally binding carbon targets to 2050
- Concerns over energy security/depletion of gas
- Life extensions for existing plant
- Replace existing nuclear capacity (16GW by 2025)
- Private sector investment
- 2 PWR designs completed generic licensing process
- 8 sites identified in National Planning Statement
- Price support through Energy Bill 2012

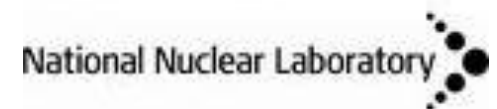
# Developing a long term strategy

- House of Lords Report into Nuclear R&D
- Critical of current situation
- Government Response
- The Beddington Report
- First long-term nuclear strategy
- Renewed funding for fission R&D?



# Molten salts and Thorium in the UK

- Historical research into molten salt reactors (fast breeder)
- Thorium and the Dragon reactor
- Accelerator driven ADSR (Huddersfield Uni)
- Thorium Mox fabrication (NNL for Thor Energy)
- Molten salts in fuel reprocessing (REFINE group)
- Small scale reactors for ships (Rolls Royce and Dalton Institute)





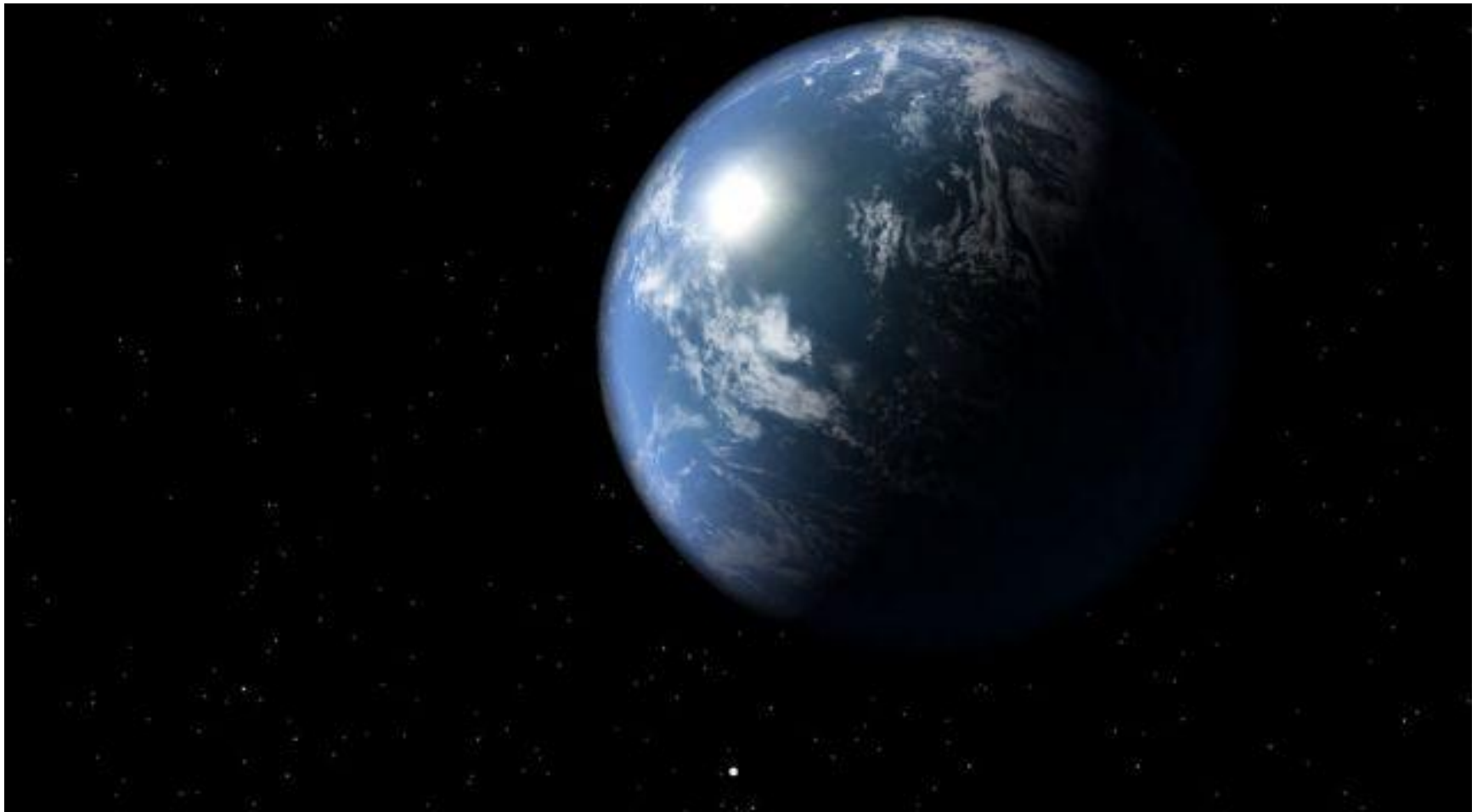
# UK's growing interest

- High awareness of climate change
- Fukushima impact
- The Weinberg Foundation
- Thorium All Party Parliamentary Group
- Public awareness, 'The Good Reactor'



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# A Vision for the Future





Thank you.

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