

Non -nuclear energy choices

Llangefni

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DECC-NGO nuclear Forum

**Evidence to House of Lords EAC inquiry :
the economics of UK energy policy**

- **current and emerging nuclear energy technologies present inherent dangers to energy security, national defence and public safety and are NOT necessary for UK or global climate protection or energy security**

- **UK industrial strategy which is increasingly focussing on new nuclear technologies would, and already is, undermining the deployment, funding and focus on renewable energy systems (RES) and CCS/BECCS technologies in which the UK has considerable academic and industrial leads**

- **Electricity 2030 supply and demand in TWh per year**
- **Demand forecasts = 350 TWh per year in 2030 =**
- **110 RE to 2020 + 0 new nuclear + 40 gas / other RE
+ 10 Sizewell + 190 offshore wind+PV built in 2020s**
- **110 RE to 2020 + 140 new nuclear + 40 gas / other RE
+ 10 Sizewell + 50 offshore wind+PV built in 2020s**
- **Offshore wind + PV built 2010-2020 = 50 !**

- **the cost to consumers (domestic and business) of electricity and heat generated by a mix of renewable energy technologies is likely to be equal or probably lower than that from a nuclear-inclusive system from 2025 to 2050 and beyond**

- **the cost forecasts for commercially-unproven, if not technically unproven, SMR technologies generating electricity eg £ 80 / MWh deployable in the 2030s are still higher than RE cost forecasts in the 2030s.**

- **the export of any commercially-viable future 'British' nuclear technologies would be highly compromised by weapons proliferation concerns**
- **including thorium**

- **there are major national defence differences between nuclear and non-nuclear energy infrastructure**
- **one would be a security nightmare and the other would be highly resilient to malicious actions**

- **future consumers in the UK and globally may well have an increasing preference for devices and local networks that give 'power to the people'**

- **demand for (British made) steel would probably be two to three times greater in the building of non-nuclear energy infrastructure**

- **the planned new-build nuclear programme is difficult to plan or even deliver in comparison to RE deployments**

- **Thanks for listening**
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