

# Ian Llewellyn - From Labs to Whitehall

  
 Department for  
 Business, Energy  
 & Industrial Strategy



After being made redundant from Nortel, I spent a few years in the telecom regulator, Ofcom, and then in academia. I joined the Civil Service in 2012 as Head of the Technical Energy Specialists (TES) team based in the Department of Energy & Climate Change, but in 2016 this was combined with the Department of Industry & Skills to become the Department for Business Energy & Industrial Strategy (BEIS).

This what I do now....



Rob Arnold  
Nuclear



Will Kirkson  
Grid



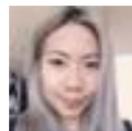
Dr Malwina  
Gradecka  
Renewables



Dr Patrick  
Royce  
Modelling



Dr Jose  
Mendez  
Shale & ACT



Dr Noramalina  
Mansor  
Fuel cells /  
batteries



Chris Quarton  
Hydrogen



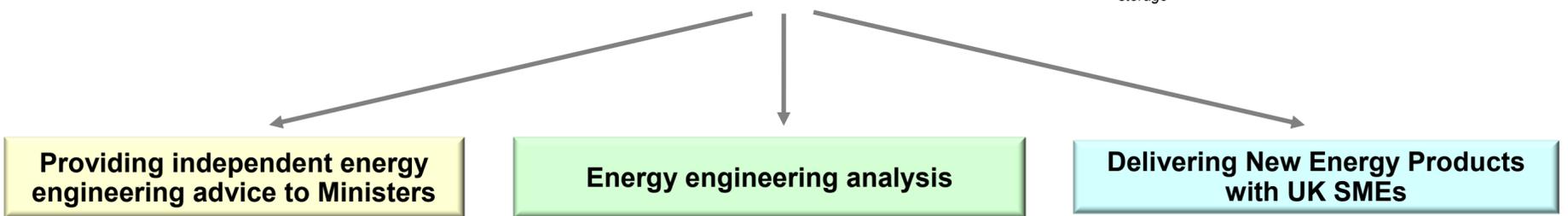
Dr Georgina  
Hammond  
Carbon  
capture &  
storage



Dr Nina Klein  
Smart energy  
systems



Dr Duncan  
Leeson  
Materials for  
Energy



## Providing independent energy engineering advice to Ministers



The Rt Hon  
Claire Perry MP



The Rt Hon  
Greg Clark MP



Richard  
Harrington MP



The proposed Swansea Bay tidal lagoon scheme that was abandoned by the Government this year.



There are more offshore wind turbines in UK waters than in all other seas and oceans combined.



When can we finally end coal generation in the UK such as from plants like Drax?

Renewable energy now makes up nearly third of all electricity generated in UK.

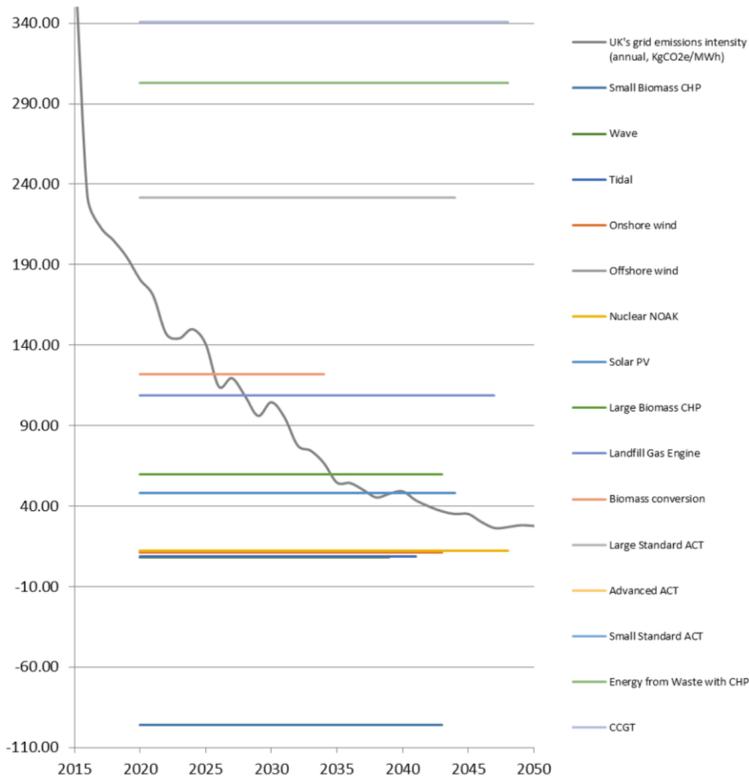




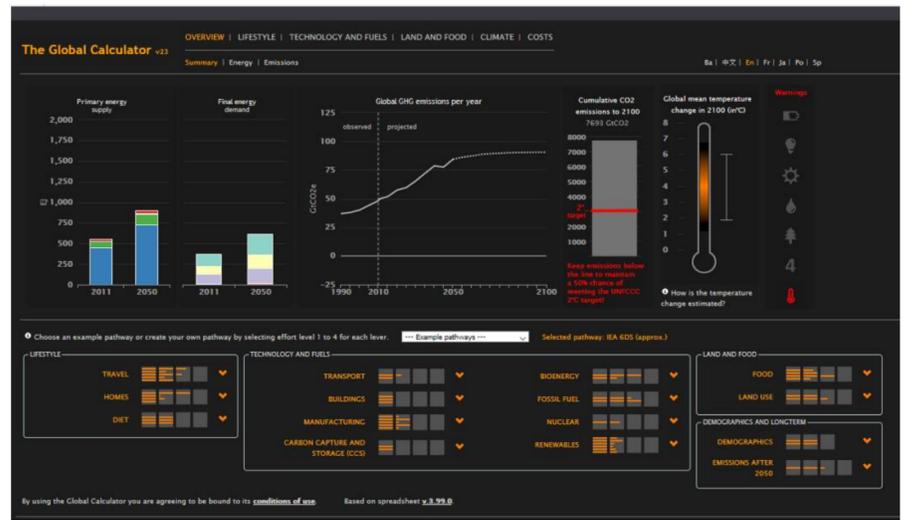
## Energy engineering analysis

Analysing the best way to use technology to meet the Government's energy targets:

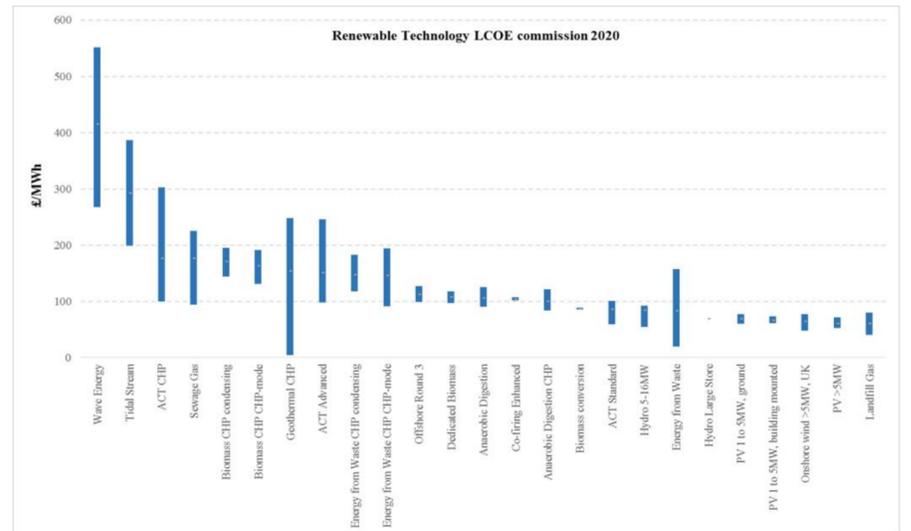
- 90% decarbonisation by 2050
- Reliability of the energy network
- Lowest cost to bill payers



How the carbon intensity of electricity generation will decrease and the carbon intensity of various generation technologies (in g/kWh).



Your chance to save the world by preventing climate change using our modelling tool: [www.globalcalculator.org](http://www.globalcalculator.org).



How much it costs to produce 1MWh of electricity using renewable energy.



## Delivering New Energy Products with UK SMEs

- The UK Government has a £505M innovation pot of money to spend on developing new low carbon products in conjunction with UK industry
- The TES team manage these projects on behalf of HMG when they have a large technology element.



Green Running has been given a grant managed by TES looking at developing a high resolution energy monitoring tool (now available on Amazon).

Q-Bot- an underfloor robot that can insulate the underside of your floor.



We developed an interface box to the Marriott hotels' air conditioning system, so it could be remotely turned off at times of network stress.



We are funding Powervault to produce a home electricity storage battery.