



Why sustainable energy?

Climate change



Energy security

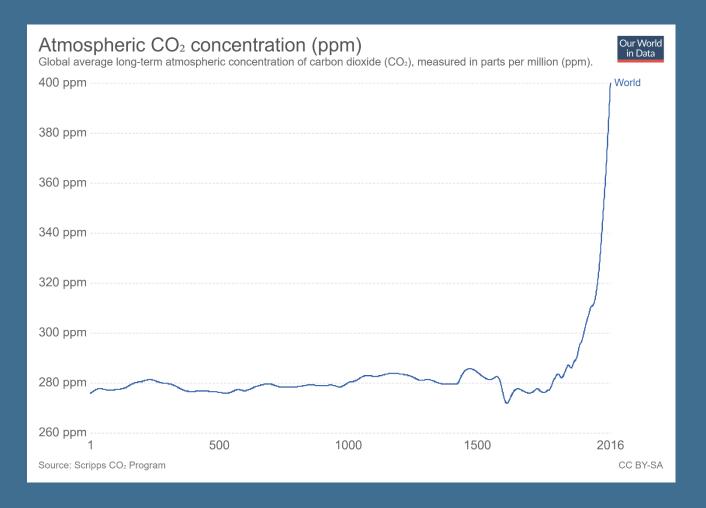




Climate Change: Atmospheric CO2

97% of climate scientists agree that climate change is being caused by greenhouse gas emissions.

Direct correlation between carbon dioxide concentration in the atmosphere and global average temperature.



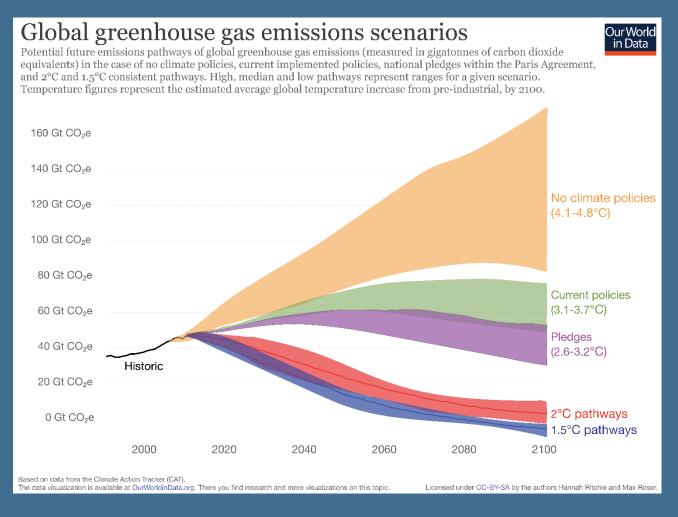




Climate Change: Pathways

+1°C now: already seeing more storms, flooding, heatwaves, drought, and island nations at risk of going underwater.

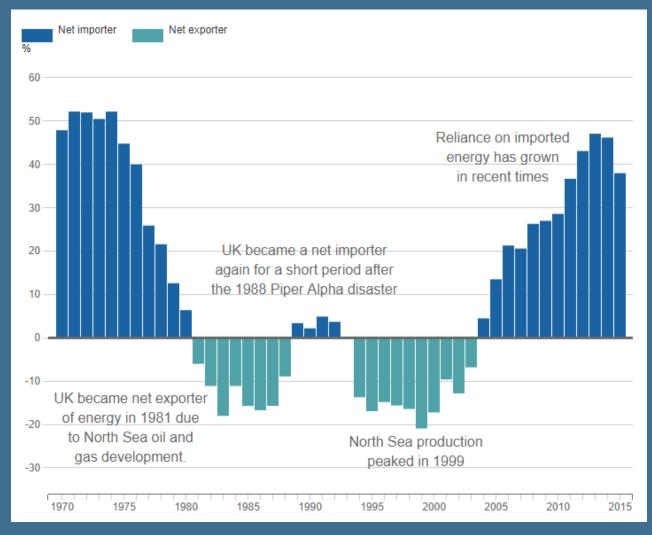
+2°C is going to mean a lot of human suffering, and tremendous damage to the planet, and a requirement for more energy.







UK Energy Imports

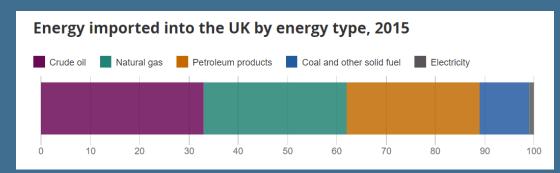


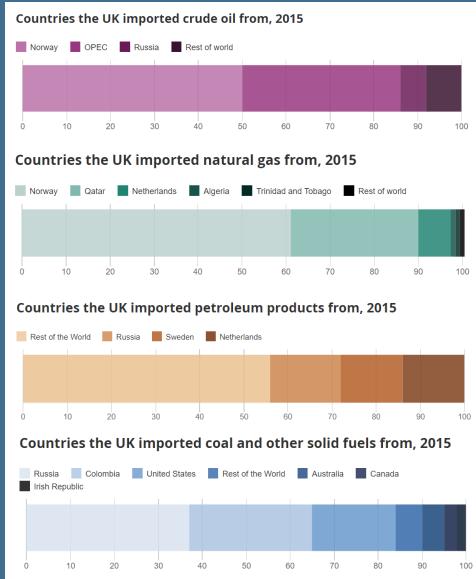


EXETER \$ Falmouth Harbour Commissioners

UK Energy imports

By fuel

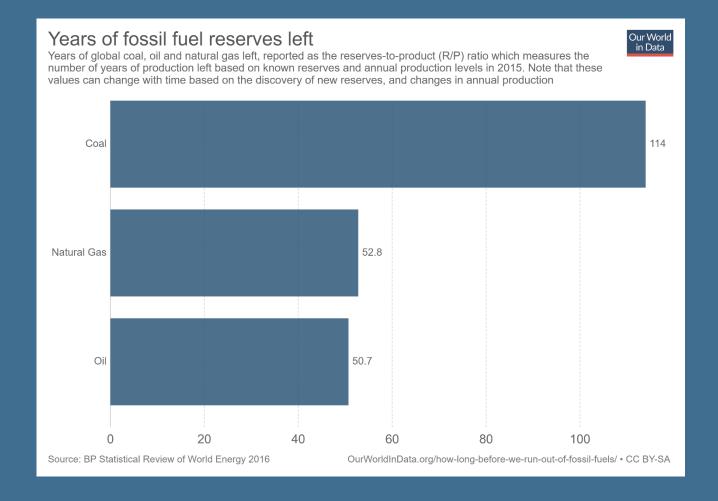






Global Reserves

Fossil Fuels



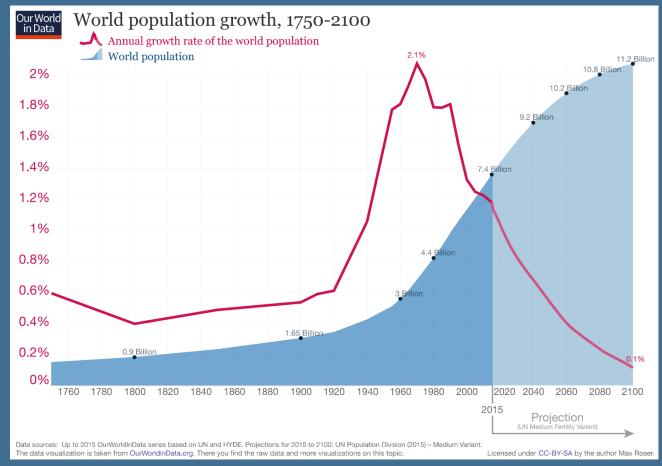




Population growth

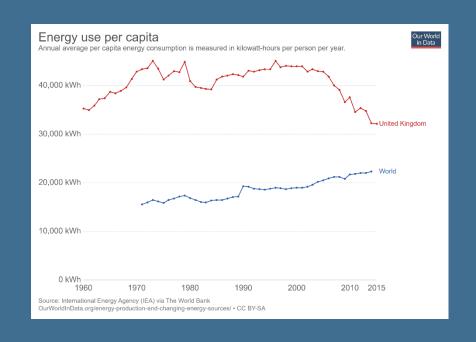
& human displacement

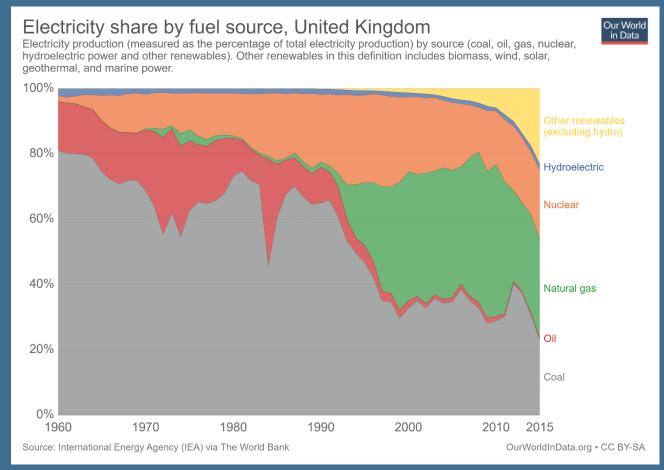






UK Energy









Renewable Energy Penryn Campus

Energy Policy

Solar Energy

Energy Storage

Electrical Power Systems

Marine Renewable Energy

Offshore wind energy

Tidal energy

Wave energy



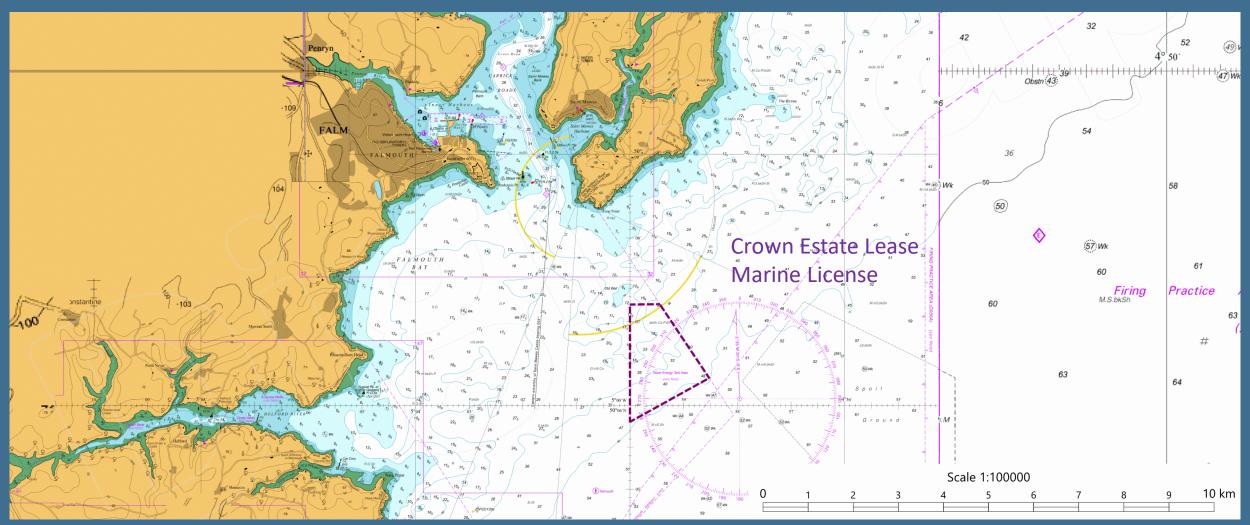




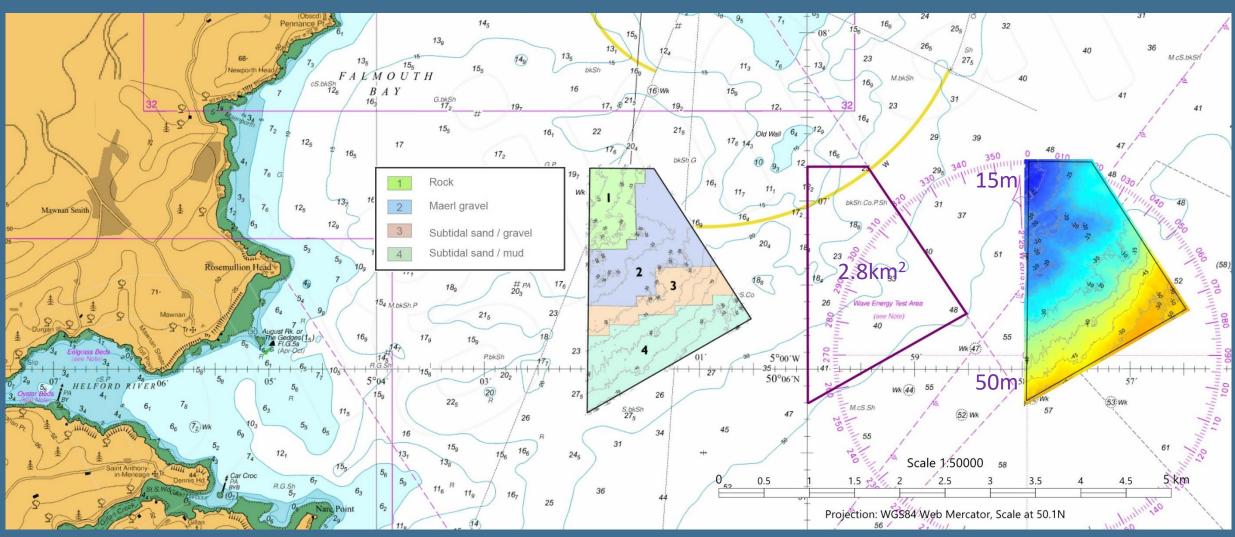




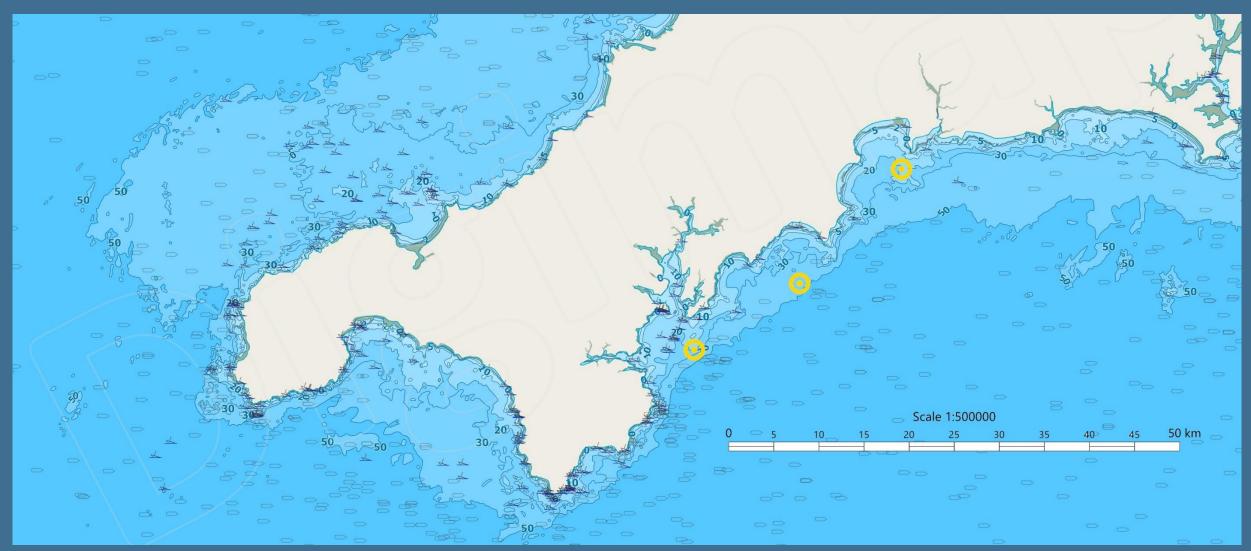














2016 **BOLT Lifesaver** Fred Olsen

26 month deployment at FabTest

- Proved robustness of design and construction
- Wide range of operational conditions including storm events
- Determined real world operating performance following numerical modelling and tank testing

"Proximity of site to technical support facilities in Falmouth and backing of Harbour Commissioners to manage regulatory interfaces has been a winning formula for the project"

Now deployed at a Hawaiian 'commercial site'













2018 WaveSub MPS

Towed from Milford Haven
Installed at FaBTest
Submerged wave energy device
Undergone 3 months testing
Refitted and ready for redeployment









2019 AMOG

Floating wave energy converter
Fabrication commencing February 2019
Installation expected summer 2019



