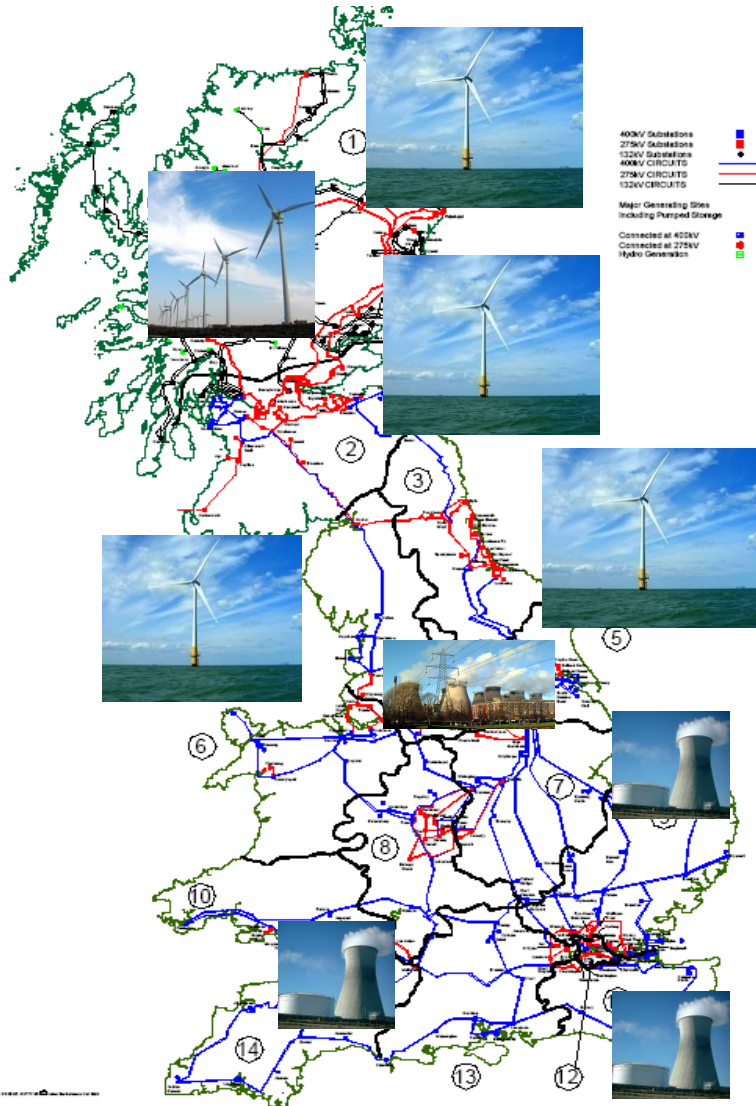


Smart Grid Opportunities to Aid a Low-Carbon Future

Professor Tim Green



New Generation Patterns



UK Example

By 2020: 35% of energy demand to be supplied by renewable generation

By 2030: Decarbonisation of electricity system

.... while incorporating heat and transport sectors into electricity system

A major change to generation mix and demand growth.

- Cessation of (non-abated) coal and gas and existing nuclear
- 30% Wind; 30% New Nuclear; 30% New Carbon Capture Coal/Gas