



Background





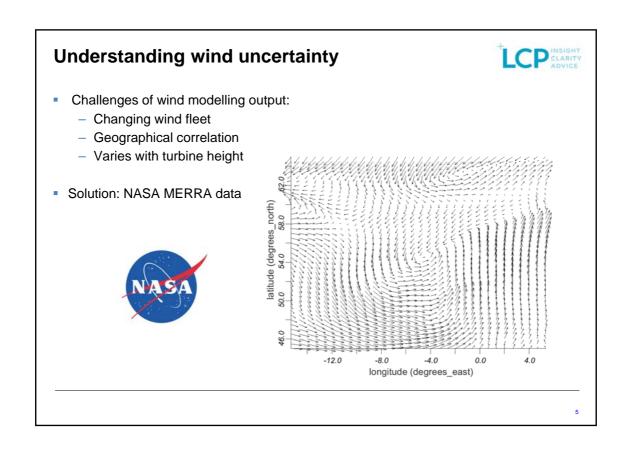
- GB power market is about to undergo fundamental reform:
 - Contracts for Difference to reduce emissions
 - Changing the way low carbon generation is incentivised
 - Capacity mechanism to keep the lights on
 - Change in the way power plants earn income
 - Auction run to procure new power plants or keep existing ones online
 - Government determine the level of capacity require
 - How much capacity do we need?

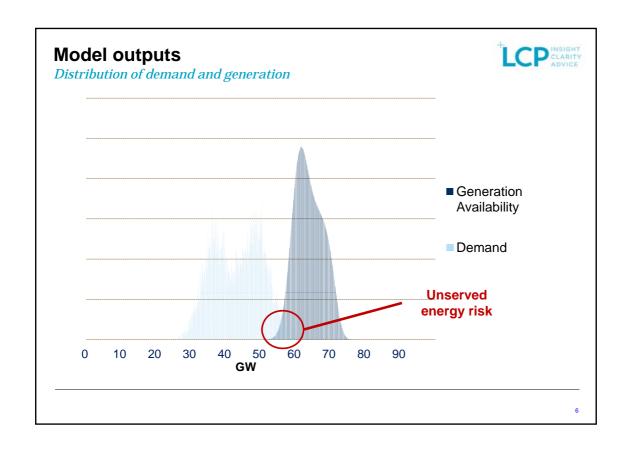
Energy security

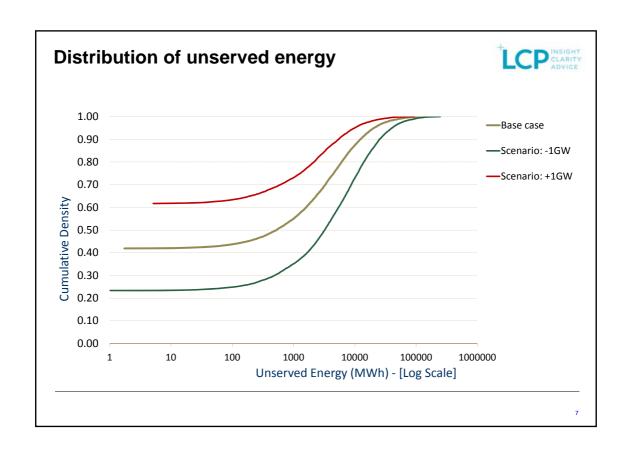


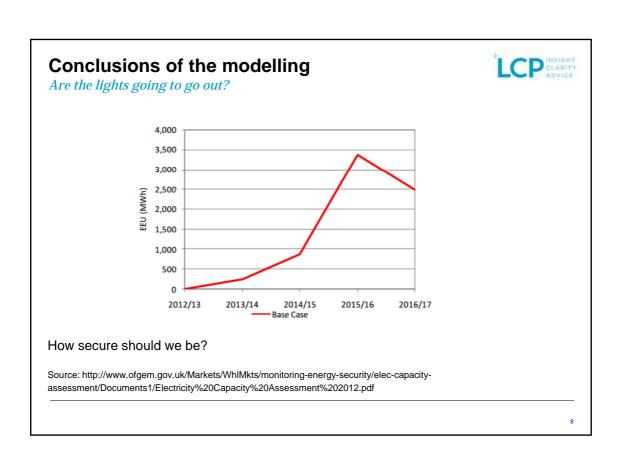
- Historically security measured by a "Derated Capacity margin"
- Not easily adapted to allow for generators with correlated output eg. wind. This requires a probabilistic approach.
- Three main sources of uncertainty
 - Demand variation
 - Power plant outages
 - Intermittent generation

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Scope



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