

Transmission Sharing Update

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Shifting Transmission Investment Background

- Increasing proportion of investment based on CBA;
 - Draft TransmiT academic reports
 - ELSI model
 - SQSS proposals
 - Cost of investment vs cost of constraint

- Still requirement to assess peak demand criteria

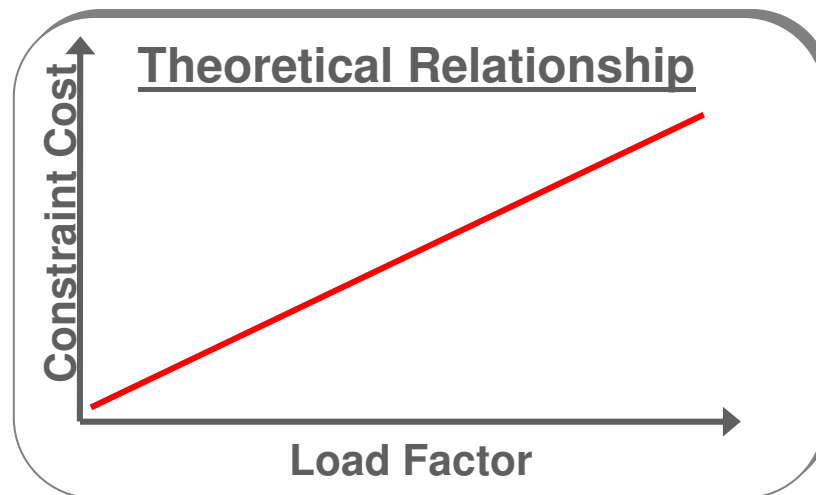
- Need to reflect in TNUoS methodology;
 - Consideration of year round effect
 - How to measure user's impact?

Reflecting Future Cost of Investment on User

- Future investment costs for user affected by;
 - Location
 - Time of use
 - Diversity of adjacent generation
 - Level of output
 - i.e. Load factor

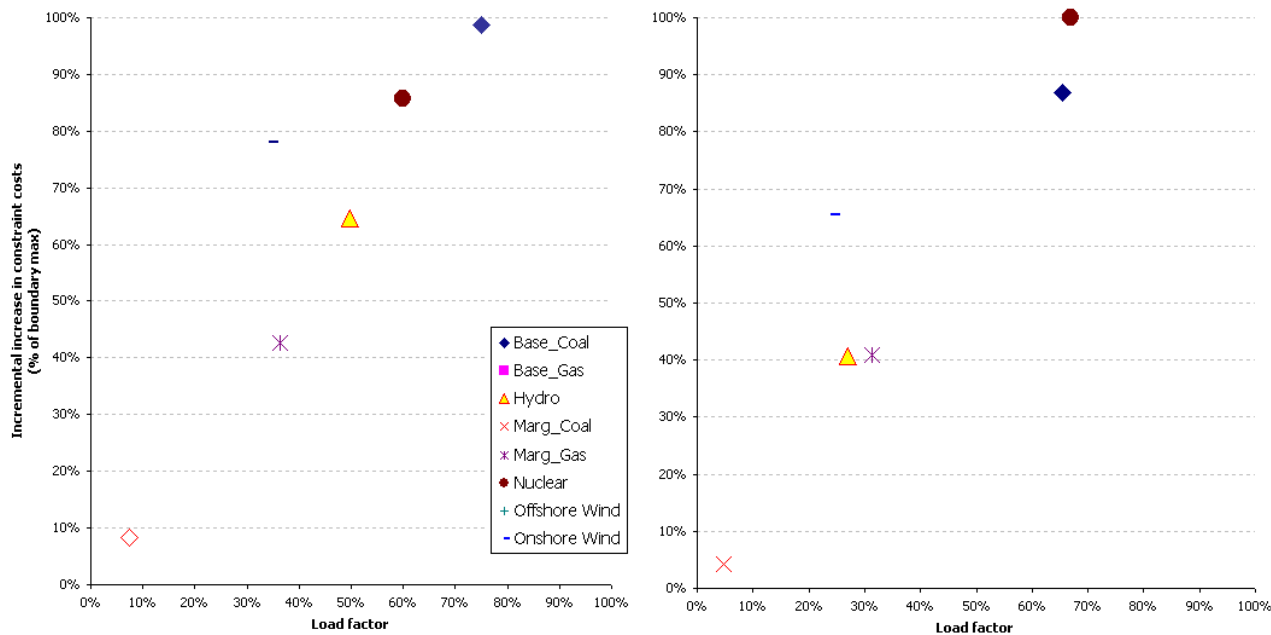
Impact of Load Factor

- Generation load factor has a direct relationship with constraints incurred, i.e. low load factor plant causes proportionally fewer constraints.
- If load factor sustained over a period of time, it can directly affect the level of required transmission investment.
- Issue of predictability of load factor



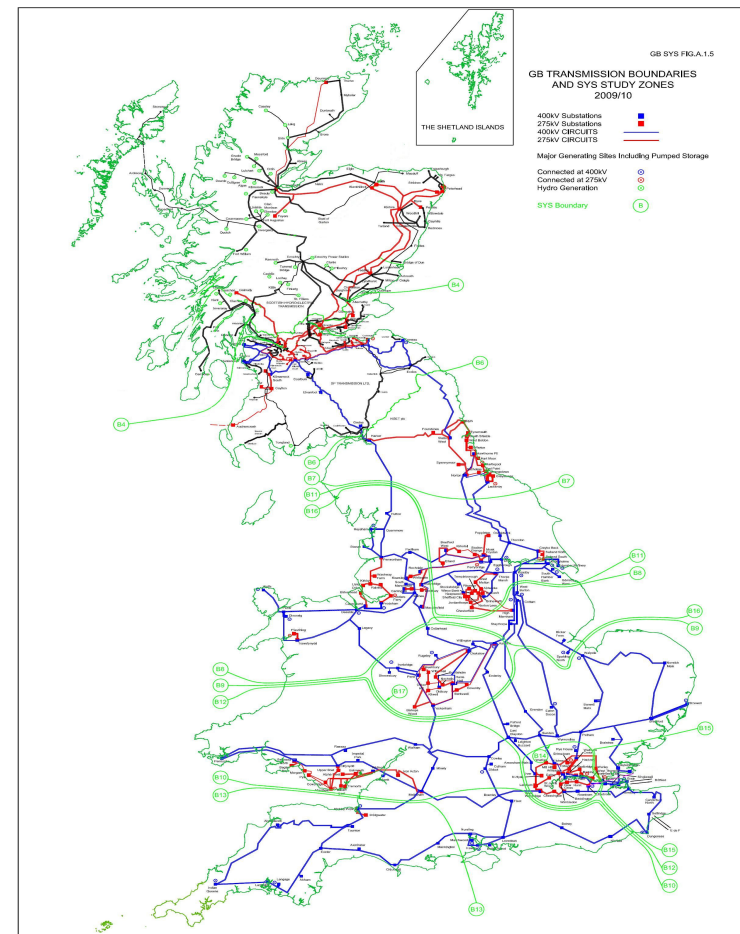
2011 Analysis

- A reasonably linear relationship between constraints and load factor using 2011/12 network background



Assessment of Future Years

- 2020/21 model assessment underway;
 - Uses the Electricity Scenarios Illustrator
 - Initial analysis supports 2011 results
 - Further work to be done



Further Work Areas Identified

