

EIP104

Enabling 'Plug and Play' Construction of Transmission Network



Scottish & Southern
Electricity Networks

TRANSMISSION

Problem Statement

- Recommendation SE1 of the Winser report:
A forum should be created between the Future System Operator (FSO), Transmission Owners (TOs), equipment manufacturers and Ofgem to review and update equipment standards used within Great Britain.
- *Implementation of updates to rationalise and align equipment standards.*
- *The TOs and the ESO/FSO will develop a process to implement equipment standardisation recommendations agreed at the forum.*

Opportunity

- We invite ideas for:
 - Harmonisation of the digitalisation of designs
 - New equipment design that allows plug-and-play construction methods, including offsite commissioning.



Transmission Equipment Standards Working Group

Purpose:

Working group kick off with TOs and OEMS, to gain understanding from the suppliers of long lead & primary plant of what could leverage increased/expedited output of equipment, (list from SSE below, agreement between TOs needed on what are the key equipment items)

Transmission Networks to collaborate on what common design standards, models and types, could facilitate an increased output.

- Discuss hierarchy of specs & standards
- Discuss opportunity to rationalise system need

Ideas to be proposed to the:

- *Transmission Equipment Standards Working Group.*
- *Ideas that will facilitate harmonisation and standardisation,*
- *Ideas to optimise and develop the supply chain.*
- *Digital solutions to facilitate standardisation*
- *Learnings from other countries*

Key Stakeholders

- All transmission Networks
- National Grid
- Scottish Power
- ESO
- Ofgem
- Equipment manufacturers

Supply Chain Considerations

- Global demand for transmission equipment makes challenging context for GB to meet its order needs
- Perception that GB is less able to compete due to limited visibility of long term order book, potential resulting in supply chain not prioritising GB requests.
- Opportunities to improve efficiency in supply chain, e.g. through standardisation, supporting SC investment, for example achieving ASTI may require supply chain investment.

Other Considerations:

- Can 'over' standardisation limit the supply chain/ availability .
- How can innovation still be encouraged.
- Competition.

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