

# Can we streamline generator compliance assessments?

EIP024

28 February 2023

# Can we streamline generator compliance assessments?

## Background

- The UK government has set out its ambition to deliver 50 GW of offshore wind by 2030.
- ESO has an ambition to achieve Zero Carbon Operation by 2025.
- To achieve these targets, very high penetration of Inverter Based resources (IBR) is expected to be connected to the system.
- When new generators are to be connected to the system, to comply with Grid Code, detailed analysis required
  - System oscillation, Control interaction
  - ESO provides network models for agreed scenarios
- Main challenge for the ESO to provide network model is the difficulty in sharing already connected generators' models, due to the confidentiality issues
- The current process of Non-Disclosure Agreement (NDA) is time consuming and in some cases generic model is used that is not exact representation of system

# Can we streamline generator compliance assessments?

## Enablers

- This project aims to develop a platform / portal where ESO can provide the required models for third parties without sharing the confidential data
- Users/ Developers would be able to carry out all compliance analysis in a timely manner that could reduce the connection delivery cost and the system security risks

## Constraints

- Due to the confidential data and Intellectual Property (IP) details, there are difficulties in sharing the models to third parties.
- ESO need to get NDA agreement with all parties involved to share the models
- Very time consuming process that could impact the Users/ Developers project timeline and could increase the cost of delivery

# Can we streamline generator compliance assessments?

## **Involvement and Implementation**

- Key Stakeholders are Generators, Developers, Transmission Owners (Tos), Offshore Transmission Owners (OFTOs)
- Target Market are new connecting generators, TOs, new technology development
- The development of a platform where ESO can provide network model without sharing confidential data is expected to take 2 to 2.5 years
- The platform / portal should have the capability for multiple Users, connecting to different part of the system, able to carry out system analysis.
- The project will put a roadmap for background model management, users access and cyber security requirements and the computational resources management.

# Energy Innovation Basecamp

28 February 2023  
ICC Birmingham

## #Basecamp28

Participant joining code  
[Slido.com](https://www.slido.com)

Can we streamline generator compliance assessments?

