# MEETING SUMMARY

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| MEETING: | Connection Simulation Tool Industry Working Group Session 2 |
| DATE: | Thursday, 9 December 2021 |
| TIME: | 10am – 12noon |
| LOCATION: | Virtual |
| TELECONFERENCE DETAILS: | Teams |

ATTENDEES:

| NAME | COMPANY / DEPARTMENT |
|---|---|
| Siham Knowles<br>Alistair Wells<br>Elliott Kuhlmann<br>Dave Lenton<br>Sarah Squire<br>Chris Graham<br>Souvik Mitra | AEMO |
| Thai Vo | GE Renewable Energy |
| Sylvain Grandidier | Siemens Energy |
| Charbel Antoun | TransGrid |
| Corey Chin (delegated by Hieu Nguyen) | Powercor |
| Amir Mehrtash | Power System Consultants |
| Scott Partlin | NEOEN |

APOLOGIES:

| NAME | COMPANY / DEPARTMENT |
|---|---|
| Natasha Thompson<br>Ronny Schnapp | NEOEN |
| Patrick Rossiter | GE Renewable Energy |
| Wai-Kin Wong | AGL |

Disclaimer - This document provides an overview of the main points of discussion at an industry working group convened by AEMO on 9th December 2021 to provide information and invite perspectives and feedback on matters relating to the Connections Simulation Tool.

Readers please note that:

- This document is a summary only and is not a complete record of discussion at the forum.
- For presentation purposes, some points have been grouped together by theme and do not necessarily appear in the order they were discussed.
- The views expressed at the forum and reflected here are not necessarily those of AEMO.
- Views will be taken into consideration through the development of the solution however there is no commitment to address all points raised.

The working group members were provided with an update of received feedback, a brief demonstration of the tool, and details of the solution, pricing considerations and network visibility options. CSTIWG Terms of Reference

## 1. Features and the broader connections process

No feedback provided

## 2. Proposed End to End Process

### 2.1. Assess Request

Requests will be assessed based on connection location, purpose of study, conditions of study, and how you want to use the tool. AEMO will determine if it is a valid case. This is to ensure that AEMO adheres to the NER access requirements

A request may be declined if

- It does not meet these requirements
- Further information is required
- Where a specific issue is requested to be replicated, if it cannot be replicated in the tool
- AEMO does not have capacity to take on the request
- Where a requested use for the tool is not appropriate

### 2.2. Making changes to the case

- Minor changes
  Once a case has been approved most changes would be able to be done by the user directly to their models within the tool
- Changes requiring the model to be updated
  For changes which require upload of new files to amend/alter the users provided PSCAD cases, these could mostly be captured in the 'update case' feature of the tool, however may need a 'case recreation' in some fringe scenarios
- Major changes
  Major updates such as a introducing a completely different plant model are possible and the mechanism for this is currently being worked through. The creation of a new case (where AEMO goes through the process of integrating a model into our network models, and configuring those network models) would be required for major updates.

  Industry users may require a number of updates through the study process through their model tuning

### 2.3. Configuring Tool

The 4 state model will include committed plants and users will be asked if there are specific generators you want to include.

## 3. Demo

A demo was provided which showed users logging into the system and creating a case. Working group members indicated the fields are clear and intuitive. The following data entry fields were explained:

**3.1.** **Special Protection schemes** should outline any protection schemes which operate based on external network factors (so that AEMO can pass those signals to the plant). Examples could include trip schemes for particular line faults, or fast runback schemes for certain network events.

**3.2.** **Additional Information** is any information not covered in other entry fields which is of relevance to the plant and its integration into a reflective network case, such as future augmenting of transmission network or the identification of future work on the plant.

## 4. Technology

### 4.1. Load conditions of the network

There is value in allowing users to assess their plant with different load conditions/different network configurations. The project is still working on this functionality.

## 5. Pricing structure

Factors related to the pricing model were presented. The length of time the environment is available is a key cost. It was noted that users would normally have a good idea on the length of time required to run studies but sometimes it would run longer. The tool is designed to stay open until the user closes it out.

## 6. Network Visibility

A number of options were presented. The proposed solution is to make accessible only the Point of Connection

- Nodes within the network will be accessible
- Whether the POC of another generator can be exposed is being determined
- Access will not be provided beyond the POC of another generator