

EirGrid GCRP

14 June 2022

Welcome to all members.

Agenda

- **INTRODUCTION:**
 - Welcome to Members;
 - Minutes and Actions from [Previous Meeting](#) (08 March 2022);
- **UPDATES:**
 - Simulation Requirements;
 - Grid Code Derogations;
 - Offshore PPM;
 - CRU;
- **DISCUSSION ITEM:**
 - How user-friendly is the Grid Code (continued)?
- **AOB.**

Simulation Requirements

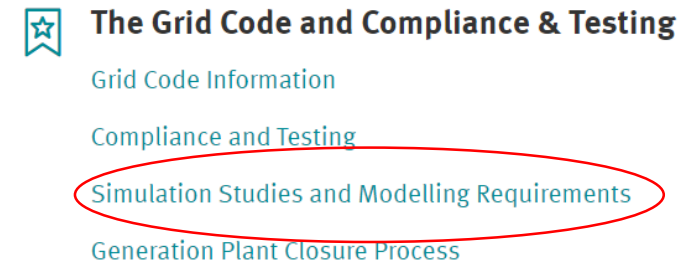
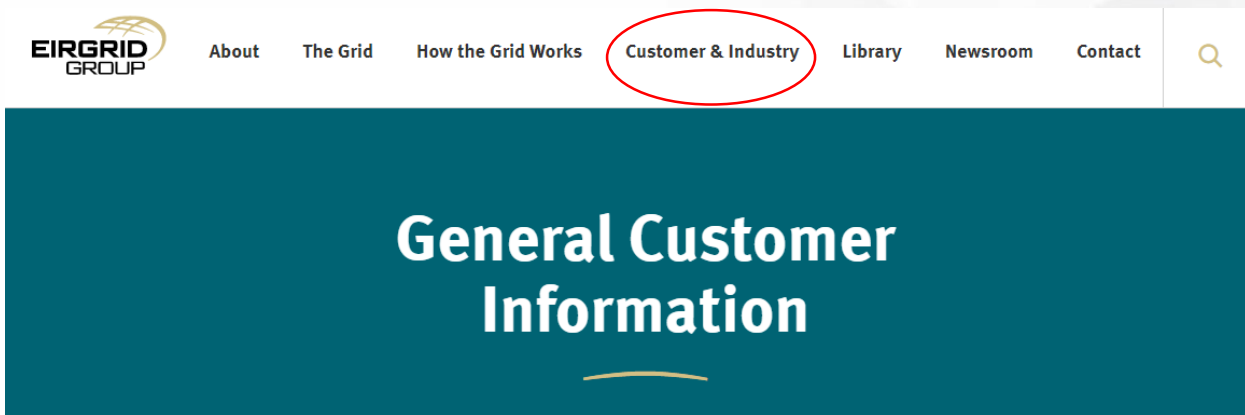
Deva Kumar, EirGrid

EirGrid's Fault Ride-Through Template

Objectives

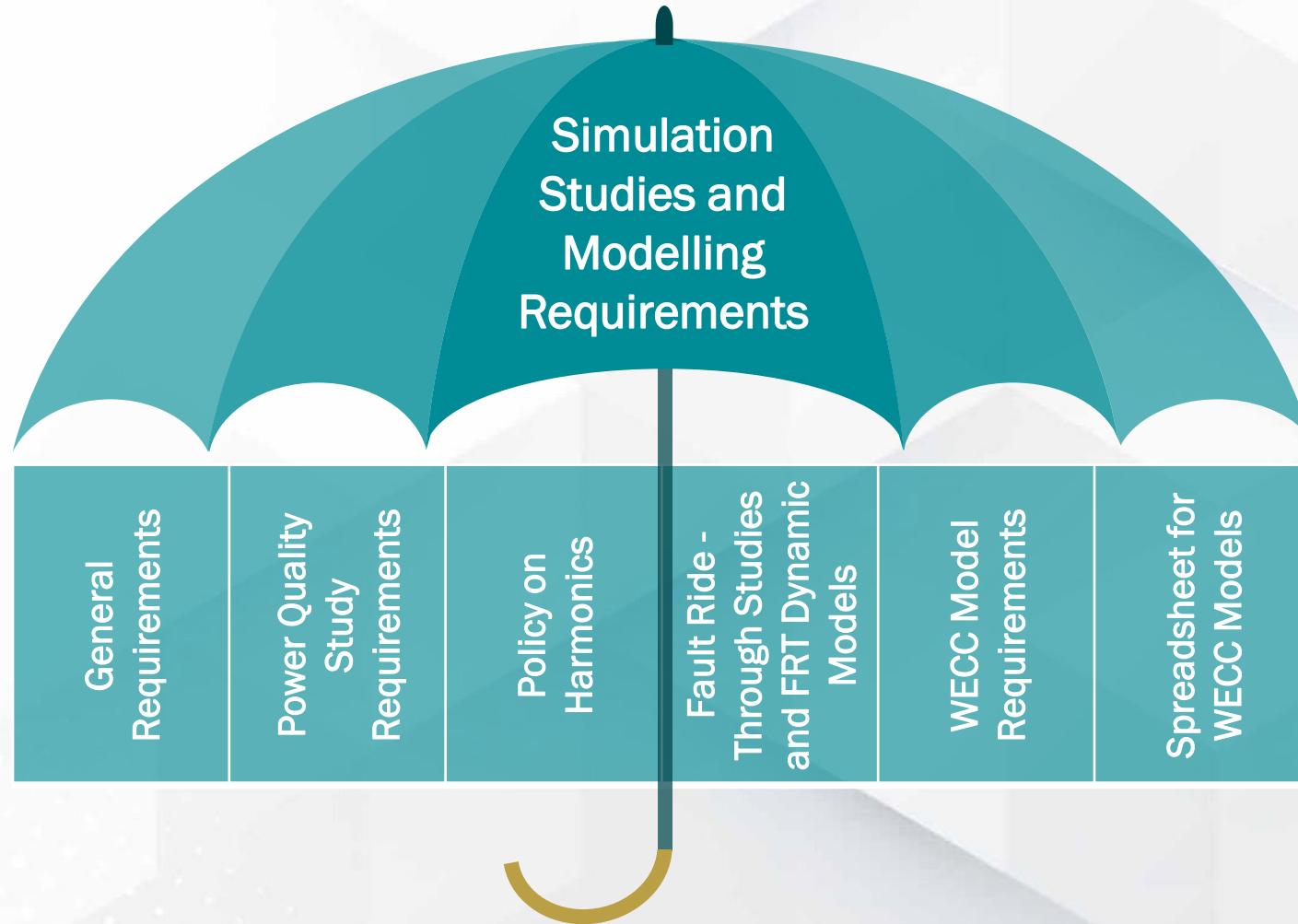
- EirGrid's Webpage for Simulation Studies
- FRT Study Submission Timeline
- FRT Study Requirements
- Customers Required Submitting an FRT study
- High Level Overview on FRT Template v2.1 - Sections

EirGrid's Webpage for Simulation Studies

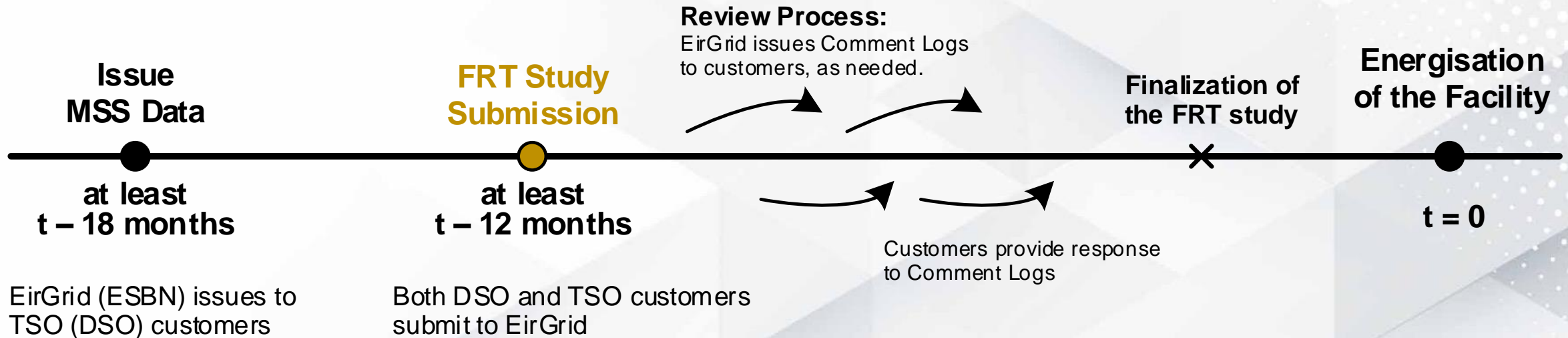


<https://www.eirgridgroup.com/customer-and-industry/general-customer-information/simulation-studies/>

EirGrid's Webpage for Simulation Studies (Continue...)



FRT Study Submission Timeline



FRT Study Requirements

#	Item	Note
1	Customer Self-Assessment FRT Report	Use template heading structure for an effective review.
2	Detailed SLD of the Facility	Must be legible.
3	Facility FRT Dynamic Modelling Files	Provide all modelling files together including libraries during the FRT report submission. (.raw, .seq, .sav, .dyr, .dll and .sld)
4	Validation Report for the FRT Dynamic Model	Factory and/or type tests to validate the responses of the dynamic model developed for the FRT analysis.
5	Documents Used as Reference	For EirGrid's records.
6	Other Supporting Documents	If needed.

Customers Required Submitting an FRT study

Customers Required Submitting an FRT Study	
Customer Type	Registered Capacity
TSO Generation Customers	All Customers
DSO Generation Customers	<ul style="list-style-type: none">• for CP \geq 110 kV: All Customers• for CP < 110 kV: Reg. Cap. \geq 5 MW*

* EirGrid doesn't require an FRT study from the DSO customers < 5MW for CP < 110 kV. These customers shall contact ESB on the FRT study requirements.

High Level Overview on FRT Template v2.1

- Sections

1. Introduction

- **Description of the sections**
- **Overview of the Requirements** i.e. Customer self-Assessment FRT Report, SLD, FRT Dynamics modelling files, Validation report, etc.
- **Customer Report Introduction** i.e. Facility info, FRT study data (Software used, version, etc.) & technical data.

2. Grid Code Requirement

- **RfG and Non-RfG Generation Units**
- **Grid Code Clauses**
- **Clarifications on Grid Code Requirements** i.e. Provision of Active Power (Proportionality, Priority & Recovery), Provision of Reactive current (Proportionality, Supply, Rise & settling Time), Returning to Pre-Fault Control Mode & other Reactive Devices.

3. Network Dynamic Modelling

- **Dynamic Model Capabilities**
- **Modelling of External Grid & Generation Facility**

High Level Overview on FRT Template v2.1

– Sections (Continue...)

4. Study Methodology

- Simulation Procedure
- Faults to Apply
- Fault Parameters for TSO Customers
- Fault parameters for DSO Customers

5. Simulation Results

- Plotting Requirements i.e. Sample Tables & Sample Plots.
- Case Studies i.e. Sample Plots were provided showing the level of detail and clarity required in the simulation results.

6. Conclusion

- References
- Appendix i.e. Supporting Information, Sample MSS Data Report & Checklist.

For any questions on FRT Template document, customers are advised to contact ped@eirgrid.com.

Grid Code Derogations Update

Anne Trotter, EirGrid

Derogations Update

Total to be Assessed by TSO	170
Total with CRU for Decision	129

Since 01/03/2022

Approved by CRU	0
TSO Recommendations Sent to CRU	3
Submitted to TSO	6

Offshore PPMs

Louise O'Flanagan, EirGrid

CRU Update

Dylan Ashe, CRU

How user-friendly is the Grid Code

Miriam Ryan, EirGrid



Thank you.

We will circulate the draft minutes by 28 June.