

Approved Minutes of the Joint Grid Code Review Panel (JGCRP)

14 June 2022

Member Attendance:

<u>Name</u>	<u>Present</u>	<u>Role</u>	<u>Panel</u>
Miriam Ryan	Y	EirGrid GCRP Chair	EirGrid
Niamh Daly	Y	TSO Member	EirGrid
Anne Trotter	Y	TSO Member	EirGrid
Michael McCormack	Y	Grid Connected Thermal Generators	EirGrid
Jennifer Geraghty	Y	Grid Connected Thermal Generators	EirGrid
Oliver Caherty	N	Grid Connected CCGT Generators	EirGrid
Daniel Grandjean	N	Grid Connected CCGT Generators	EirGrid
Mark Coleman	Y	Grid Connected Non-Synchronous Renewable Generators	EirGrid
Peter King	N	Grid Connected Non-Synchronous Renewable Generators	EirGrid
Paraic Higgins	Y	Grid Connected Pumped Storage	EirGrid
Position Open		Grid Connected Synchronous Renewable Generators	EirGrid
Bojan Vijackic	Y	Grid Connected Fast Peaking Plants	EirGrid
Mark Phelan	N	ESB PES	EirGrid
Position open		Independent Electricity Supplier	
Neil O'Sullivan	Y	Transmission Asset Owner	EirGrid
Dylan Ashe	Y	Regulator	EirGrid
Karl O'Keeffe	N	IE - Interconnector Owner	EirGrid
Lenka Poskova	Y	Market Operator	EirGrid
Tony Hearne	N	Distribution System Operator	EirGrid
Vlastik Buzek	Y	Grid Connected Demand Side Units	EirGrid
Paul Troughton	Y	Grid Connected Demand Side Units	EirGrid
Gavin McClean	Y	Grid Connected Demand Customers	EirGrid
Tom Birney	Y	Battery Storage	EirGrid
Carlos Galvan	N	Solar Generation	EirGrid
Marie-Therese Campbell	Y	JGCRP GCRP Chair	SONI

Sam Matthews	Y	Vice SONI Char	SONI
Sarah Friedel	Y	TSO Member	SONI
Brian Mongan	Y	Aggregator Member	SONI
Stephen Hemphill	Y	Interconnector Owners - NI	SONI
Stephen Brownlees	Y	Generators - NI	SONI
Jody O’Boyle	Y	Utility Regulator	SONI
Tim Steele	Y	Utility Regulator Alternate	SONI
Willian Deane	Y	RES – Small Scale Generation	SONI
Lauren Skillen-Baine	Y	SEM Operator	SONI
Krishna Anaparthi	Y	Electricity Storage	SONI

Other Attendees:

<u>Name</u>	<u>Present</u>	<u>Role</u>	<u>Panel</u>
Arlene Chawke	Y	TSO Secretary	EirGrid
Gill Nolan	Y	Alternate EirGrid Chair	EirGrid
Rebecca Russell	Y	TSO Secretary	SONI
Aaron Keogh	Y	Presenter	EirGrid
John Carnwath	Y	Presenter	EirGrid
Deirdre Hughes	Y	Observer	EirGrid
John Paterson	Y	Observer	EirGrid

1. Introduction to JGCRP Meeting & Approval of Minutes

- a) Miriam Ryan (EirGrid GCRP – JGCRP Chair) welcomed all members, observers and presenters to the meeting.
- b) Two comments were received to the previously approved minutes:
 - a. A correction to the spelling of Vlastik Buzek; and
 - b. Gavin McClean attended the previous meeting; in the minutes it was incorrectly noted that he had not attended.
- c) Miriam Ryan (EirGrid GCRP – JGCRP Chair) reviewed the actions from the previous meeting, all actions were deemed closed via the Post Meeting Notes that were included in the previously issued minutes.

2. Update on the Review of Registered Capacity Definition

- a) Miriam Ryan (EirGrid GCRP – JGCRP Chair) noted that following the update given at the previous GCRP meeting and the DCRP meeting that no comments or concerns were received from members. The working group is now looking at the definition of Registered Capacity in relation to “Throttling Devices”, it was acknowledged that the term for these devices may change in the future. Miriam Ryan (EirGrid GCRP – JGCRP

Chair) continued to encourage members to submit any concerns or comments or experiences to gridcode@eirgrid.com or to gridcode@soni.ltd.uk.

- b) Miriam Ryan (EirGrid GCRP – JGCRP Chair) re-emphasised that for now Registered Capacity remains the lower of MEC and Installed Capacity.
- c) Mark Coleman (EirGrid GCRP - Non-Synchronous Renewable Generators) has issued a post-meeting for inclusion in the minutes:

My ultimate ask is that the existing interpretation of Registered Capacity, vis-à-vis grid code compliance references being based off the minimum of (1) installed capacity or (2) MEC be maintained (as per “Registered Capacity Interpretation” paper issued October 2021).

*Based upon the presentations made by the system operators at the JGCRP of 8th March and 14th June 2022, I am fearful that the system operators are seeking to deviate away from this established interpretation with the introduction of a new term – “Installed Capacity”. Potentially on the basis of applying grid code requirements with reference to installed capacity **only**, and losing the allowance afforded to over-installed sites. If this is the proposed intention, I would like you to note my opposition.*

The intention, or spirit, of the existing Registered Capacity definition is to set out the maximum capacity, or rating, the unit could provide on a sustained basis. Irrespective of installed capacity, PPMs are bound by their connection agreements to limit their output to a given MEC, and long-standing rulesets allow for over-installation beyond MEC so long as the PPM actively caps their output at the MEC. In the case of an over-installed PPM site, any potential capability a site may have above and beyond MEC is simply notional as not only is the site prohibited from exporting this power (as per Connection Agreement), but it’s also likely the site cannot provide the additional minimum requirements associated with it – necessitating the reduced MEC in the first place. For example, individual wind turbine convertor sizing needs to be taken into account when establishing reactive power capability of a windfarm site; or similarly, Solar PV sites will have a much larger DC installed capability versus their AC capability due to inverter sizing across their site. Accordingly, the design of all PPM sites are optimised to make the most of these ‘throttling devices’ as well factoring in the variability of the wind/solar resource to achieve a realistic MEC and ensure compliance with the associated grid code requirements.

I would implore the system operators to take account of this reality in their review of the Registered Capacity definition. A change of interpretation as feared above would have considerable implications to non-synchronous generators, which in my view would be unjustifiable.

- d) Brian Mongan (SONI GCRP - Aggregator Member) queried if the review of Registered Capacity is taking the Capacity Auction timelines into consideration.
- e) Miriam Ryan (EirGrid GCRP - Chair) thanked Brian for highlighting the issue and reassured him that the TSO will engage with their market colleagues on this.

3. Low Carbon Sources of Inertia Update

- a) John Carnwath (EirGrid) presented an update on the Low Carbon Sources of Inertia (LCSI) implementation project. Following engagement with industry the TSOs are at the final stages of publishing version 1 of the Implementation Note. The TSOs are also undergoing an exercise to incorporate the requirements into the Grid Code.
- b) Tom Birney (EirGrid GCRP - Battery Storage) requested that the TSOs provide a firmer timeline on the project.
- c) **ACTION: Following this request the TSOs will issue a more detailed timeline for the project.**

4. Storage Units

- a) Aaron Keogh (EirGrid) presented an update on the implementation of requirements for Storage Units into the Grid Codes. The TSOs have acquired the services of a consultant to develop the Grid Code changes required to incorporate the implementation note. It is expected that the Grid Code modifications will be proposed to the panel towards the end of Q3/beginning of Q4.
- b) Paraic Higgins (EirGrid GCRP - Pumped Storage) queried whether the TSOs are future proofing the Grid Code requirements by looking at the future capability of batteries, for example will the Pre-Agreed charging requirements be codified?
- c) Aaron Keogh (EirGrid) noted that the current implementation reflects the current capability of batteries and how the Pre-agreed charging mechanism will be codified has yet to be determined.

5. Incorporation of the RoCoF modifications

- a) Emma Fagan (EirGrid) presented slides on the incorporation of the RoCoF modifications that were previously approved in principle by the Regulatory Authorities. Emma provided detail on the history of the modifications, the Regulatory decisions and the timeline for the formal inclusion of the modifications into the Grid Codes.
- b) The next steps include proposing a Grid Code modification to the EirGrid GCRP members at the autumn meeting and presenting a modification at the proceeding SONI GCRP meeting before it goes out to public consultation for a six-week period.
- c) Marie-Therese Campbell (SONI GCRP - Chair) re-emphasised that these proposed modifications are considered housekeeping modifications given that they have been approved in principle by the Regulatory Authorities.

6. Regulatory Updates

- a) Dylan Ashe (CRU) noted that Security of Supply and Revenue and Tariffs are the current focus for CRU. It is their intention to have all outstanding Grid Code recommendations approved ahead of the next GCRP meeting.

- b) Jody Boyle (UR) updated the members on their decision on the recently proposed modifications by the DRAI and FERA. Currently the UR are not issuing SONI with a direction(s) to revise the Grid Code. The UR would encourage both parties to constructively engage with each other, to allow for further exploration and development of the proposed modification and its potential implementation within the future operation of the Transmission System. He further mentioned that the decisions should be published on the UR website within the next day or two.

7. AOB

- a) No items were raised under AOB.