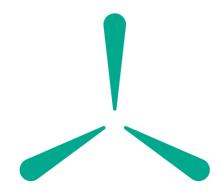
ECP 2-5 Constraints Forecast



Proposed Assumptions - Draft

Constraints Analysis for Solar and Wind





Agenda

- Proposed Improvements
- Background
- Study Scenarios
- Key Changes and proposals\Decision
- Assumptions
- Timeline and Engagement Plan



Proposed Improvements

- Assumption in single document (Green dots)
 - Word Document containing embedded presentation
 - Track updates from draft, Industry engagement and results
- List in single Excel document (Aqua dots)
 - Information tab and revision control
 - Separate tabs for data: Battery, Wind, Solar, interconnector and Appendix A,B & C from Methodology
- Add version control to all documents with history of changes
- FAQ live document
- Labelling of diagrams and columns etc
- Methodology

EirGrid

ECP-2.4 Constraint Rep Solar and Wind

- ECP 2.5 & GSS Industry Engagement Webinar
- ECP-2.4 Constraints Analysis Assumptions Document
- ECP 2.4 Industry Final Assumptions presentation slides
- ECP-2.4 IE Wind and Solar Draft Generation List
- ECP-2.4 Constraints Analysis Initial Draft Assumptions Indus
- ECP-2.4 Solar and Wind Constraints Report Assumptions ar
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Areε
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP-2.4 Solar and Wind Constraints Report Results for Area
- ECP 2.4 Constraint Analysis Results (Excel Format)
- ECP 2.4 Initial Draft Results Presentation
- ECP-2.4 IE Battery List
- ECP-2.4 Constraints Analysis Individual Area Results Webinar
- ECP-2.4 Constraints Analysis Interconnector Flows
- ECP 2.4 Frequently Asked Questions

Standard format for questions submitted

o Source:

- Assumption document or Assumption Webinar
- Input Data
- Modelling
- Result Webinar
- Report Area x

o Reference

- Section or page
- Category
 - Technology e.g. Wind, Solar
 - Demand
 - Generation
 - Network
 - Generic

Labelling of Data set submitted

- Explain source
- Filters used
- Explain labelling of Columns
- Formula

Labelling of questions submitted

- Improve response
- Reduce turnaround time



Example: Assumption document_Section8_Table81_Wind Offshore

Can you please provide an explanation as to why in Initial, 50% and ECP the figure remains the same?

Background



- The Enduring Connection Policy (ECP) 2-5 is the fifth iteration of connection offers for Renewable Energy Sources (RES) planned under ECP 2 by the Commission for Regulation of Utilities (CRU).
- The ECP 2-5 Constraints Analysis is carried out by EirGrid (as mandated by CRU/20/060 decision on ECP 2) to forecast dispatch down levels for ECP 2-5 wind and solar projects.
- EirGrid plans to publish 12 regional constraints reports that will provide ECP 2-5 developers with information on forecasted dispatch down levels in each region.
- Timeframe for completion of this work is Q4 2025.

Generator Type	MEC (MW)
Solar	2731
Wind	902
Battery	900
Total	4533



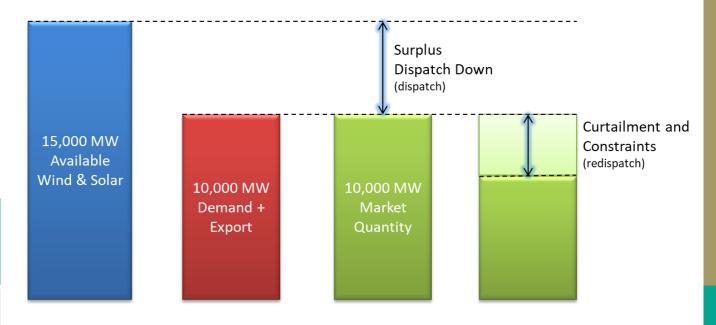
Table 1: ECP 2.5 applied generation per category

Total Dispatch Down - constraint forecast

Total Dispatch Down

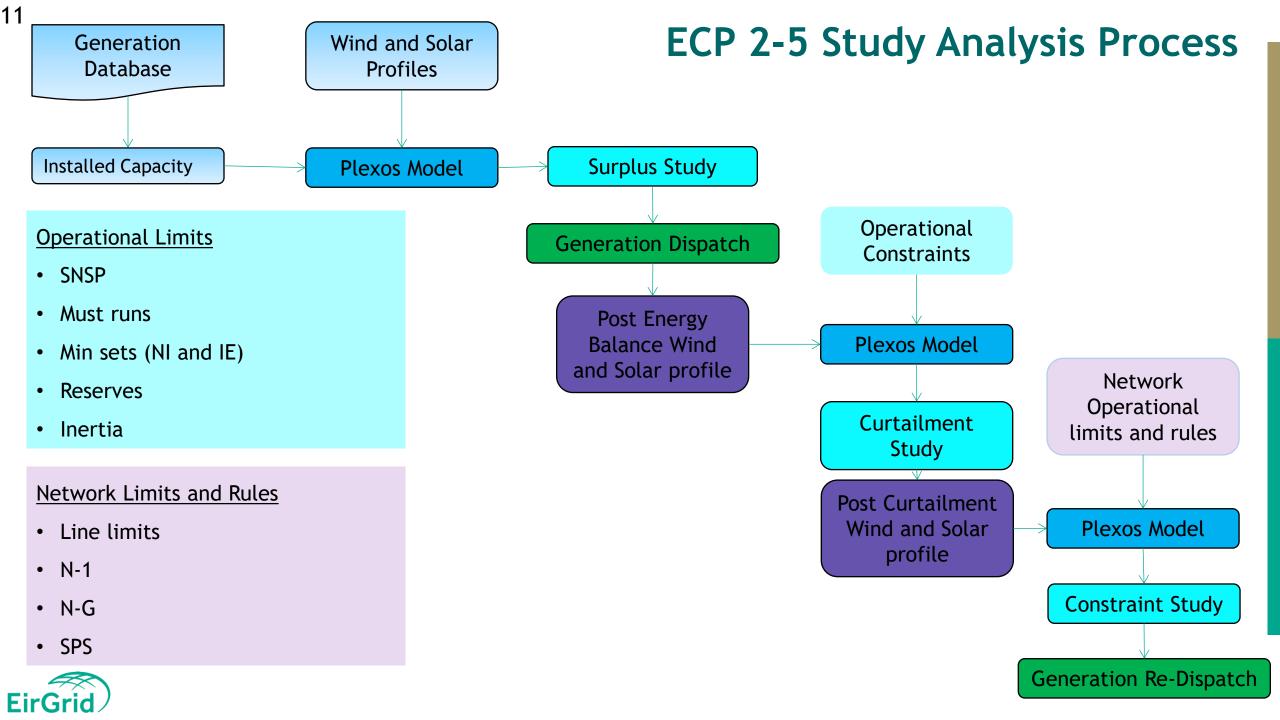
• Sum of Surplus, Curtailment & Constraint

Type of Dispatch Down	Definition
Surplus	Dispatch down applied for energy balancing when generation exceeds demand + interconnector export.
Curtailment	Dispatch Down applied to ensure operational limits are met.
Constraint	Dispatch Down applied to manage network constraints.

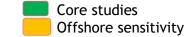


- Surplus & Constraint are shared by only nonpriority renewable generators (grandfathered)
- Curtailment is pro-rata across SEM renewable generation



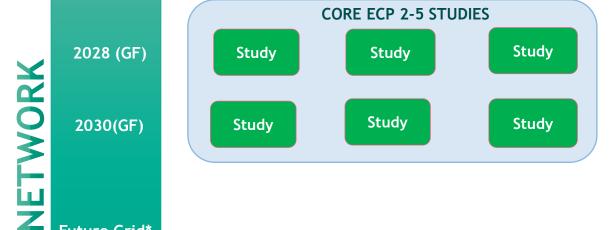


ECP 2.5 Study Scenarios



GENERATION







EWIC, Moyle Greenlink

EWIC, Moyle Greenlink. Celtic

EWIC, Moyle, Greenlink, Celtic, Liric, 2nd France, Mares, 2nd NS

Number of studies:

- 6 core
- 3 offshore sensitivity
- 3 Industry suggestions



Future Grid*

(GF)

Key Changes and proposals\Decision

- Study Year
 - Core 2028, 2030
 - Future Grid (align with NDP, SOEF 1.1)
- Interconnection included
 - Celtic include from 2028
 - 2nd NS include in Future Grid
 - Mares, not included last year, include in Future Grid
 - LirlC and 2nd France included last year, include in Future Grid
- RE-Hubs TBC
- Constraints allocation Grandfathering
- Industry feedback
 - Interconnector (IC) flow model
 - Recent flow on IC's to be considered for modelling
 - Fixed flow in Curtailment and Constraint study
 - Not to have Solar and wind separated for constraints allocation
 - We explored this option, but not included in this iteration
 - This will need significant calculation modifications and QA's steps to be implemented
 - Inclusion of midyear start date at of projects for that specific year
 - We explored this option, but not included in this iteration
 - The effect is marginal for most cases and could also skew the impact



10 Assumptions in ECP 2.5 compared to ECP 2.4

Assumption	ECP 2.4	ECP 2.5
Article 12 and 13	Interim implementation has been updated to pro-rata constraints on RES. Need to consult further	Grandfathering of Surplus and Constraints
Demand	NRAA 2024-2033, shape based on 2022 data	AIRAA 2025-2034
Conventional Generation	NRAA 2024-2033 and capacity auction	AIRAA 2025-2034
RES generation (Ireland)	Updated with ECP 2.4 list	Updated with ECP 2.5 list
Onshore Wind Profile	Profiles from 2020. Each node using a representative profile from that area	Same as ECP 2.4 (will be reviewed)
Offshore Wind and solar Profile	Synthesised 2020 offshore profile (procured from an external vendor).	Same as ECP 2.4 (will be reviewed)
Interconnector	2027 - EWIC, Greenlink, Moyle (Export 400MW). 2029 - EWIC, Greenlink, Moyle (Export 450MW), Celtic, North- South 2. Future Grid - EWIC, Greenlink, Moyle (Export 450MW), LirIC, Celtic, North-South 2, 2 nd France*.	EWIC, Moyle, Greenlink, Celtic in for 2029, 2 nd North South – 2032 LirIC, 2 nd France, Mares
Batteries	Based on current offers and applications. Used for maintaining reserve (POR, SOR, TOR1 & TOR2). 2 cycle per day limit. Portion of the long duration storage to provide energy arbitrage	Same as ECP 2.4 (will be reviewed)
Operational Constraints	Operational roadmap policy	Operational roadmap policy
Outage assumptions (Transmission)	Consistent with ECP 2.3 and ECP 2.2	Same as ECP 2.4 (will be reviewed)
Reinforcement Assumptions	2027 and 2029: Network Delivery Portfolio Future Grid: SOEF 1.1 Roadmap	NDP and SOEF Roadmap 1.1
Northern Ireland Assumptions	Update with NI generation data and network data	Update with NI data

Timeline



Engagement Plan

- Industry stakeholder engagement meeting 22.08.2025 and 19.09.2025
- Submit study scenario for consideration 05.09.2025
- Webinar 12.12.2025
- Publication of Results 19.12.2025
- Area wise webinar 12.01.2026
- Closing date to submit queries 19.01.2026
- Closing date to respond to queries 30.01.2026 (with the odd exception)

