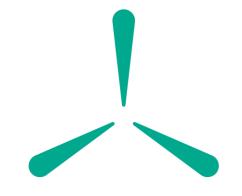
## **ECP 2-4 Constraints Forecast**



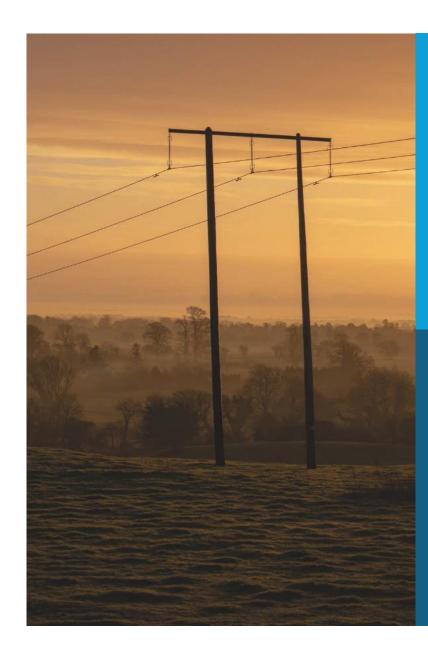
Constraints Analysis for Solar and Wind

**Final Assumptions** 



## Agenda

- Background
- Key Metric: Total Dispatch Down
- Analysis Process
- Assumptions
- Study Scenarios
- Timeline and Status

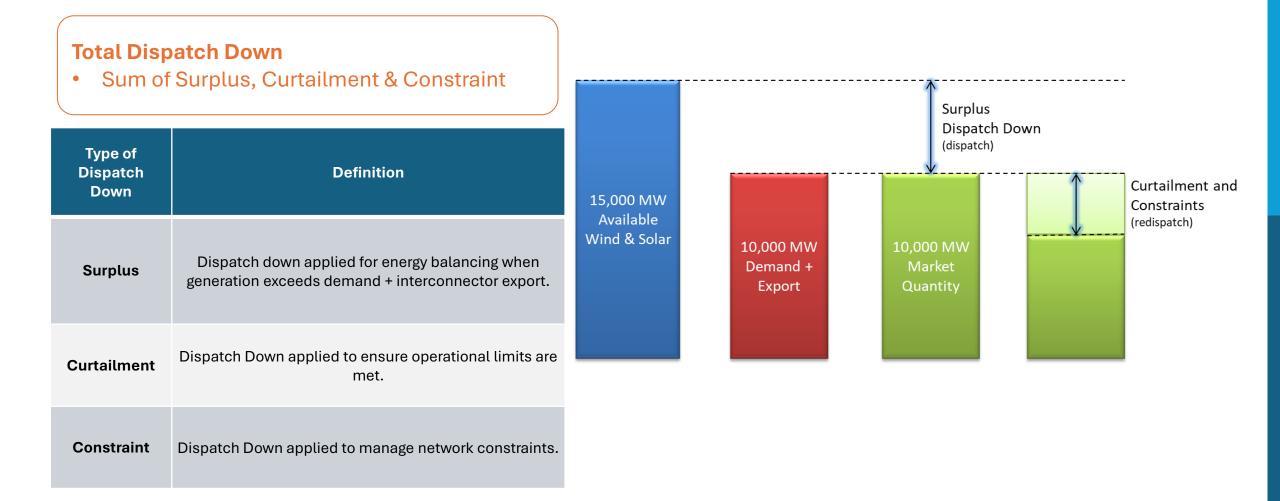


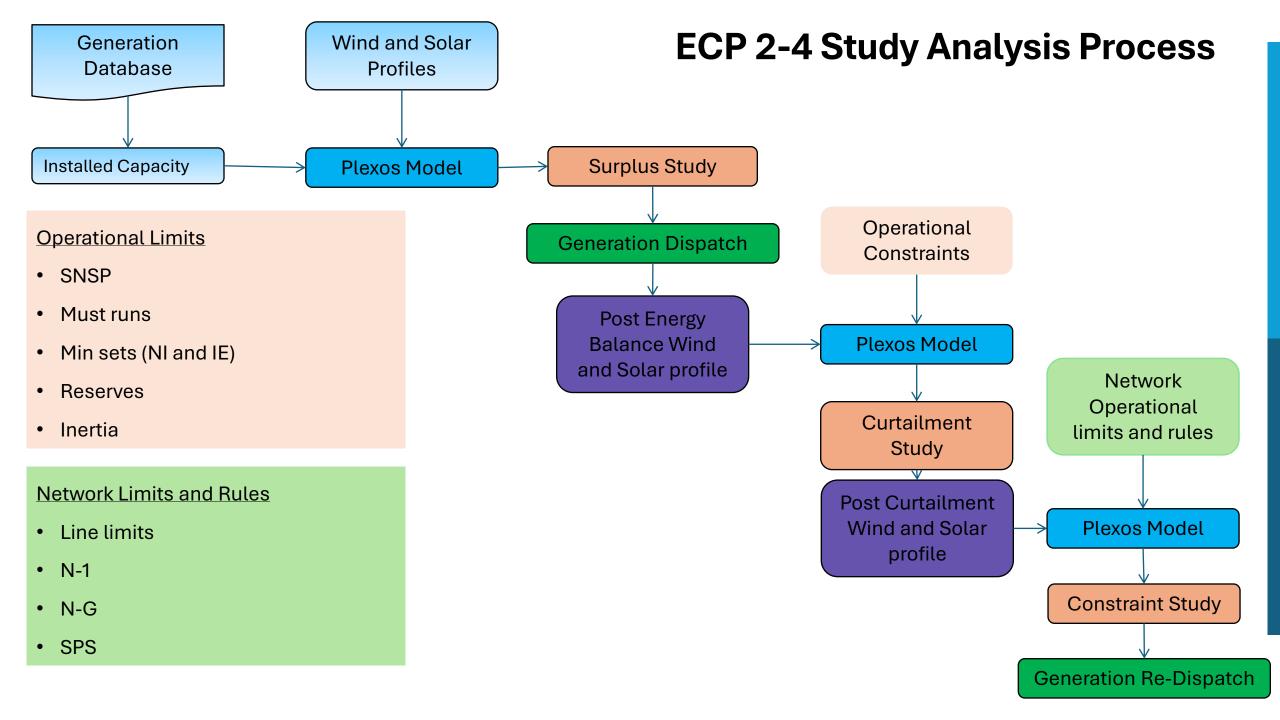


- The Enduring Connection Policy (ECP) 2-4 is the fourth of initially three, now four batches of connection offers for Renewable Energy Sources (RES) planned under ECP 2 by the Commission for Regulation of Utilities (CRU).
- The ECP 2-4 Constraints Analysis is carried out by EirGrid (as mandated by CRU/20/060 decision on ECP 2) to forecast dispatch down levels for ECP 2-4 wind and solar projects.
- EirGrid plans to publish 12 regional constraints reports that will provide ECP 2-4 developers with information on forecasted dispatch down levels in each region.
- ECP 2-4 applicants include:

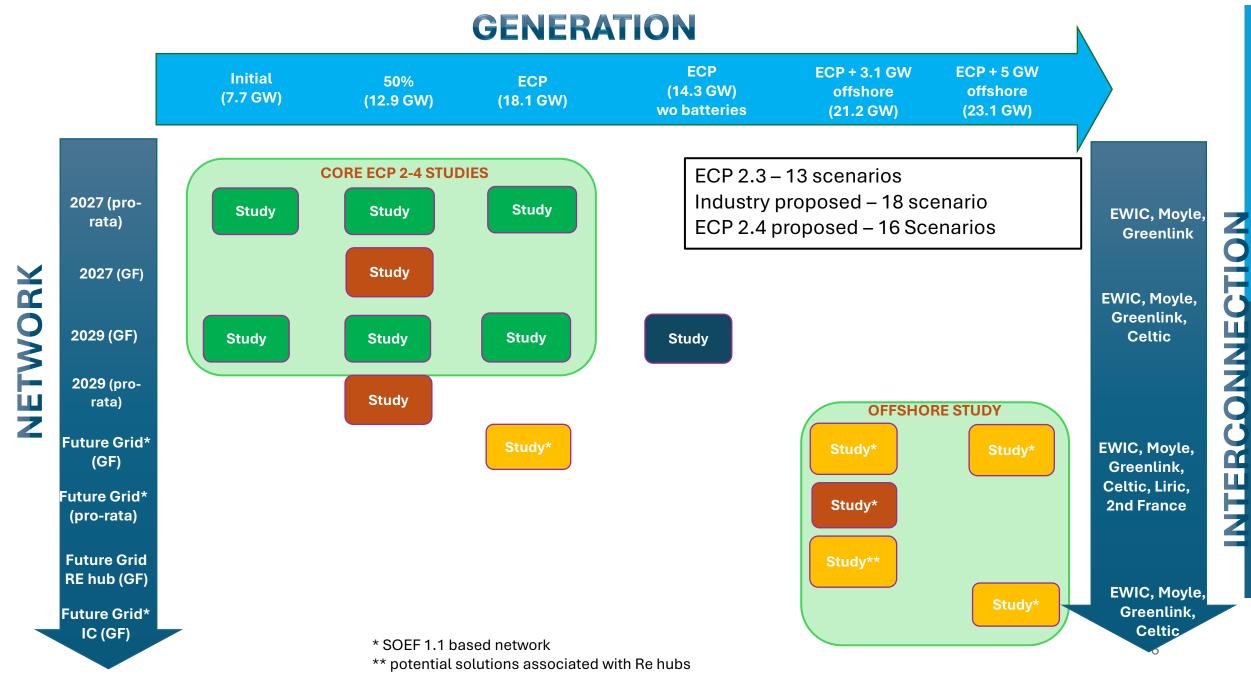
Wind	Solar	Battery
509 MW	1839 MW	1703 MW

#### **Total Dispatch Down – constraint forecast**





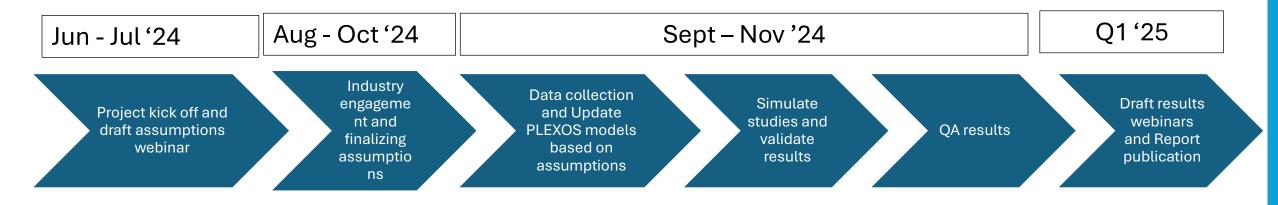
#### **ECP 2.4 Study Scenarios**



#### Assumptions in ECP 2.4

Assumption	ECP 2.4	Assumption	ECP 2.4
Article 12/13 implementation	2027 – base scenario with pro-rata, sensitivity grandfathering 2029 and Future Grid – base scenario with grandfathering , sensitivity pro-rata	Interconnector	2027 – EWIC, Greenlink, Moyle (Export 400MW). 2029 – EWIC, Greenlink, Moyle (Export 500MW), Celtic, North-South 2. Future Grid – EWIC, Greenlink, Moyle (Export 500MW), LirIC, Celtic, North-South 2, 2 <sup>nd</sup> France*.
Demand	NRAA 2024-2033		Based on current offers and applications. Used for maintaining reserve (POR, SOR, TOR1 & TOR2).
Conventional Generation	NRAA 2024-2033 and capacity auction	Batteries	2 cycle per day limit. Portion of the longer duration storage to provide energy arbitrage
RES generation (Ireland)	Updated with ECP 2.4 list	Outage assumptions (Transmission)	Consistent with ECP 2.3 and ECP 2.2
Onshore Wind Profile	Profiles from 2020. Each node using a representative profile from that area	Reinforcement Assumptions	2027 and 2029: Network Delivery Portfolio Future Grid: SOEF 1.1 Roadmap
Offshore Wind and solar Profile	Synthesised 2020 offshore profile (procured from an external vendor).	Northern Ireland Assumptions	Update with NI generation data and network data
	SNSP : 2027 – 85%, 2029 – 90%, FG – 95%	DLR	10-30% additional line rating based on the wind (still to confirm)
Operational Constraints	Inertia : 23GWs for all years (Including Sync Comp) Min sets – 2027 – 7 (4,3), 2029 – 4 (2,2), FG – 3	Potential solutions associated with Re hubs	Details still to be confirm

## Timeline



### **Work Plan and status**

- First industry stakeholder engagement meeting Mid July '24 [completed]
- Industry scenario proposal End of August '24 [Received]
- Engagement with Industry representative September '24 [Done]
- Second industry stakeholder engagement meeting Mid October '24
- Final assumptions publication Dec'24
- Draft Results Q1 '25
- Final area results webinars Q1 '25

# Thank You