

# Weekly Operational Constraints Update

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Applicable from 08 June 2020 to 14 June 2020  
(Week 24)

Rev 10 June 2020

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## **Disclaimer**

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## Explanatory Notes

- The purpose of this Weekly Operational Constraints Update is to provide information on any forecasted significant network congestion or other issues that could potentially restrict dispatchable generation in a particular area or to flag if dispatchable generation is required in a particular area. These constraints are in addition to those presented in the monthly Operational Constraints Update document which should be read in conjunction with this document.
- In the analysis, a suite of N-1 contingencies are applied to the base case powerflow, and the resulting flows and voltages are compared against the Operational Security Standards. The N-1 contingencies include the tripping of each item of transmission plant and each generator transformer. Groups of generators / demand / wind etc. can be scaled up or down to determine a secure region of operation (known as transfer analysis or transaction analysis).
- The cases incorporate the latest generation and transmission outage information at the time of the study. This information is published on the EirGrid and SONI websites.
- Typically, from a dispatchable generation perspective the worst thermal constraints occur at peak system demand, and therefore only peak system demand scenarios are studied using transfer analysis. If required, other studies are performed, such as system demand valley where high voltages may be an issue.
- The wind levels in the various scenarios assume a flat profile across Ireland or Northern Ireland. We do not test Ireland wind levels above 2000 MW as, typically above these levels, constraints on dispatchable generation are not as binding due to the availability of the wind generation.
- The binding constraints on the flow on the North-South Tie Line from a thermal and voltage perspective tend to be due to thermal constraints on the Ireland side, save for specific Northern Ireland outages. This is why the Inter-Area Flow (North-South Tie Line Flow) Constraints Forecast below is only studied against Ireland wind generation.
- There may be other reasons, apart from voltage and thermal limits that lead to constraints, such as frequency, transient stability and adverse weather conditions. These are usually observed and dealt with close to real-time.
- Moyle Interconnector is limited to 80 MW export due to constraints on the Scotland side. National Grid Electricity Transmission plc performs daily studies to ascertain if this can be increased. Please note that the figures below in relation to interconnectors pertain to the Ireland/Northern Ireland side only.
- Should any of the study assumptions materially change during the week, due to a forced outage for example, we will endeavour to perform new studies and publish results on the next working day.

## Study Assumptions

### Generator and Transmission Outages

Generator and transmission plant outages as per published here:

[All-Island Generator Outages](#) – Under REMIT Publications

[Ireland Transmission Outages](#)

[Northern Ireland Transmission Outages](#)

### Demand

All studies are performed at Weekday Peak System Demand unless otherwise stated

Jurisdiction	Weekday Peak System Demand (MW)	Weekend Peak System Demand (MW)
Ireland	3700	3300
Northern Ireland	1000	900

### Initial Interconnector and Tie Line Flows

	Flow (MW)
EWIC	At zero wind 250 MW Import (GB to IE) At 2000 MW wind 200 MW Export (IE to GB)
Moyle	N/A
North–South Tie Line Flow	0 MW Northern Ireland to Ireland / Ireland to Northern Ireland

## Constraints

The forecast constraints below are at Weekday Peak System Demand.

### South Generation Constraints Forecast (TCG Type: MW; Limit Type B) as per Operational Constraints Update

Ireland Wind Generation (MW)	Minimum South Generation (MW)	Maximum South Generation (MW)
0	0	1300
1000	0	1000
2000	0	700

### Cork Generation Constraints Forecast (TCG Type: MW; Limit Type B) as per Operational Constraints Update

Ireland Wind Generation (MW)	Minimum Cork Generation (MW)	Maximum Cork Generation (MW)
0	0	935
1000	0	935
2000	0	700

### Inter-Area Flow (North-South Tie Line Flow) Constraints Forecast

Ireland Wind Generation (MW)	Maximum Northern Ireland to Ireland flow (MW)	Maximum Ireland to Northern Ireland flow (MW)
0	450	210
1000	360	400
2000	250	400

## Interconnectors

Ireland Wind Generation (MW)	Maximum EWIC Import (MW)*	Maximum EWIC Export (MW)*	Maximum Moyle Import (MW)*	Maximum Moyle Export (MW)*
0	500	530	442	400
1000	500	530	442	400
2000	500	530	442	400

\* Values pertain to the Ireland/Northern Ireland side of the interconnectors only

## Coolkeeragh C30 Running

Northern Ireland Wind Generation (MW)	Northern Ireland Demand (MW) above which C30 must be running with GT8 off	Northern Ireland Demand (MW) above which C30 must be running with GT8 operating as a synchronous compensator	Northern Ireland Demand (MW) above which C30 must be running with GT8 operating as a generator
0	1550	1608	Not required
450	Not required	Not required	Not required
900	Not required	Not required	Not required

## Other Constraints/Notes/Risks

Should market participants identify operational risks related to COVID-19 they should inform the TSO as soon as possible via their normal point of contact. Should this instigate a significant change to scheduling and dispatch the TSOs will update this weekly constraints document to reflect this in a revised publication as soon as possible.

Jurisdiction	Constraint/Note	Reason
Ireland / Northern Ireland	Summer transmission ratings are currently applied.	Seasonal.
Ireland / Northern Ireland	EirGrid and SONI will, subject to system conditions, provide additional notice of intended unit synchronisation and desynchronisation decisions to facility operators in order to accommodate their amended operational practices.	COVID-19 has resulted in restrictions in working arrangements at some generation facilities.
Ireland	New constraint group active: S_NBMIN_HNT_NB  TCG Type: NB Limit Type: N:>= Limit: 2 units at all times. Resources: HNC, HN2, TYC.	Transmission outages.
Ireland	New constraint group active from Thursday 11 <sup>th</sup> June: S_NBMIN_SWENB2  TCG Type: NB Limit Type: N:> Limit: 1 unit Resources: AD2, WG1.	To support South-West voltage, at times of low demand and very low wind generation output in the South-West, additional generation may be required.
Ireland	The constraint ID for the South West Generation TCG is S_NBMIN_SW_NB.	Correction to text in the Operational Constraints Update (29/05/2020) which refers to S_NBMAX_SW_NB.