Constraint Forecast Analysis Reports for Enduring Connection Policy (ECP) 2.5

Results for Area G for Solar and Wind

Version 1.0

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EirGrid

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Revision History						
Revision	**Date**	**Description**	**Originator**	**Reviewer**	**Checker**	**Approver**
R0	11.02.2026	Overview results and node results in Area G	ECP Team	ECP Lead	ECP Senior Lead	Economic Analysis Manager

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1 Overview for Area G

Figure 1-1 Network Map for Area G

Area G, in the east of the country, includes a mix of wind and solar generation. The counties that are covered in this area include Monaghan, Louth, Meath, Cavan (partial) and Westmeath (partial). The transmission network in Area G and the surrounding areas is shown in Figure 1-1. The 400 kV circuits are shown in red, the 220 kV circuits in green and the 110 kV circuits in black. The area is connected to Northern Ireland through the North South Interconnector. Possible future transmission stations and lines for the connection of new generation are also shown on the map above.

1.1 Introduction

This document is for customers wishing to see the estimated Total Dispatch Down for Area G. For information on the study assumptions, methodology and Ireland summary report please refer to the ECP webpage[1]. This document contains two main sections:

Section 1: An overview of the estimated surplus, curtailment, and constraint values for Area G for a range of scenarios. There are a total of six core ECP-2.5 studies and eight sensitivity studies presented in this report. The results highly depend on the study assumptions, which are described in the Assumptions Document.

[1] https://www.eirgrid.ie/industry/customer-information/ecp-constraint-forecast-reports#Enduring%20Connection%20Policy%20(ECP)

Section 2: Area G Node Results: provides a table of results for each renewable generator type at every node in the area. This table documents the installed capacity, available energy, surplus, curtailment, and constraint for every node in Area G.

1.2 Key Summary

Area G is well connected to Area J which has Ireland's largest load centres. This includes the majority of Large Energy Users (LEU) demand that has been assumed for the study. The EWIC interconnector is also located in Area J which can potentially export when renewable generation is high.

In general, when renewable generation is high, power flows are predominantly from Area A and B towards Area G which then flows towards Area J to supply the demand and the EWIC flow. A transmission bottleneck between Area G and Area J can be affected by power flows coming from other areas.

Constraints in Area G can be caused both by local and wider system issues. Constraints in the model are optimised on a system-wide basis so, in theory, an increase in the installed generation in another area can increase constraints in Area G.

In Area G, any loss of the 220 kV circuits will put additional stress on the supporting 110 kV circuits, causing dispatch down of RES generators in the area. The 110 kV parallel paths are critical transmission infrastructure in these areas during times of high wind. Any loss of these 110 kV parallel lines results in additional dispatch down. Additionally, the loss of a 220 kV circuit applies additional stress on the 110 kV circuits in the region. During the high-RES scenarios, the power from Areas A, B and C also flow onto the 220 kV circuits, and then towards the load centres in Dublin. Loss of 220 kV lines connecting the Gorman, Louth and Woodland stations can cause congestion in 110 kV parallel lines to Drybridge. Hence a bottleneck is created around the Louth, Meath hill, Drybridge and Gorman region. Additional power flow from other areas towards Area G creates increase in contingency binding in Area G for the 2030 scenario. List of binding contingency and overloaded lines are given in ECP 2.5 Ireland summary report in ECP webpage.

1.3 Generation Overview

A detailed system-level overview of the renewable generation scenarios used in these studies is given in the area non-specific all Island Summary Report. The distribution of generation in each scenario based on technology, area and node is given in Assumptions document. The node-level installed wind and solar generation for Area G in the "ECP" scenario is given in Table 1-1. Installed and controllable energy in Area G is given in Table 1-2 for solar and Table 1-3 for wind.

Node	SO	Status	Solar	Wind
Balruntagh	TSO	due to connected	134	
Balruntagh	TSO	due to connected		50
Baltrasna	DSO	connected	17	
Deenes	TSO	due to connected	85	
Drybridge	DSO	connected	4	
Drybridge	DSO	due to connected	13	
Drybridge	DSO	connected		6
Dundalk	DSO	due to connected	55	
Dundalk	DSO	connected		16
Garballagh	TSO	connected	95	
Garballagh	TSO	due to connected	120	
Gaskinstown	TSO	connected	85	
Gorman	TSO	due to connected	46	
Lisdrum	DSO	due to connected		33
Lislea	TSO	connected		49
Louth	TSO	due to connected	125	
Meath Hill	DSO	due to connected		
Meath Hill	DSO	connected		35
Meath Hill	DSO	connected		16
Meath Hill	DSO	connected		18
Navan	DSO	connected	4	
Navan	DSO	due to connected	12	
Navan	DSO	due to connected	17	
Oriel 220Kv	TSO	due to connected		160
Oriel 220Kv	TSO	due to connected		210
Ratrussan	TSO	connected		79
Ricetown	TSO	due to connected	63	
Shankill	DSO	due to connected	11	
Shankill	DSO	connected		22
Shankill	DSO	connected		6
Total			886	700

Table 1-1 Wind and Solar Generation Summary (MW) in Area G for Generation Scenario "ECP"

Solar	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Ireland (MW)	9312	9312	9312	9312	9312
Installed Area G (MW)	887	887	887	887	887
Installed Controllable Area G (MW)	870	870	870	870	870
Available Controllable Area G (GWh)	1115	1115	1115	1115	1115

Table 1-2 - Installed MW and Available GWh for Area G - Solar

Wind	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Ireland (MW)	8197	11271	13197	13197	13197
Installed Area G (MW)	330	330	700	700	700
Installed Controllable Area G (MW)	300	300	670	670	670
Available Controllable Area G (GWh)	937	937	2488	2488	2488

Table 1-3 - Installed MW and Available GWh for Area G - Wind

1.4 Subgroups

There is a post-processing step between the PLEXOS simulation and this report to ensure an appropriate allocation of constraints among generators sharing the bottlenecks. This is done by creating constraint subgroups within an area or spanning multiple different areas. The subgroups are selected based on an assessment of the raw PLEXOS results and based on TSO experience of dispatch down on the real system. The subgroups are chosen to group those generators into a constraint group that are expected to experience similar constraint levels. The subgroups are selected on the basis that they share a common transmission bottleneck, or they are electrically close to a congested area within the network.

A bottleneck is created around the Louth, Meath hill, Drybridge and Gorman region and forms a G North subgroup. The G South region is affected by the loss of north Dublin 220 kV circuits and parallel 110 kV circuits from Drybridge to Corduff or Finglas. Hence, the south part of Area G is grouped together with Area J City to form the J City, G South Subgroup.

The subgroup nodes for Area G are given in Table 1-4. The individual node level dispatch down is given in Section 2.

Subgroup	Nodes
G North	Balruntagh
	Dundalk
	Lisdrum
	Lislea
	Louth
	Meath Hill
	Navan
	Oriel 220 kV
	Ratrussan
	Ricetown
	Shankill
J City, G South	Baltrasna
	Deenes
	Drybridge
	Garballagh
	Gaskinstown
	Gorman

Table 1-4 Area G generator nodes and their subgroups

Figure 1-2 Subgroups G North and J City & G South (subgroups outlined by blue dashed line)

1.5 Area G – Summary Results

The Total Dispatch Down results for Area G are provided below in Table 1-5 to Table 1-12 and Figure 1-3 to Figure 1-6. These include the breakdown between surplus, curtailment, and constraint. The Table 1-6, Table 1-8, Table 1-10 and Table 1-12 gives the results of constraint sensitivity scenario. The Total Dispatch Down percentages are based on the total available energy. The Total Dispatch Down is the sum of surplus, curtailment, and constraint. The node level breakdown of surplus, curtailment and constraint are given in Section 2. The results show that the system level Total Dispatch Down increases with additional installed capacity due to a significant increase in surplus. However, the Total Dispatch Down reduces when the 2030 studies are compared with 2028 and there is a further reduction in the Future Grid scenario owing to increased demand, network reinforcement, interconnection, and relaxed system level operational limits.

For each generation type in Area G (solar non-priority, wind non-priority and wind priority), the total installed capacity in MW and total available generation in GWh are given in Table 1-5, to Table 1-12. The total generation in GWh after dispatch down and the corresponding percentage Total Dispatch Down are also included in the tables for each scenario. Details on the generation and network scenarios are given in the Assumptions document and Methodology report.

1.5.1 Non - priority Solar Results for J City & G South

The solar non-priority data is given in the following table.

Area G (J City, G South)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	213	339	465					
Installed Capacity (MW)	2030	213	339	465	465	465			
Installed Capacity (MW)	FG						465	465	465
Available Energy (GWh)	2028	273	435	597					
Available Energy (GWh)	2030	273	434	596	596	596			
Available Energy (GWh)	FG						596	596	596
Generation (GWh)	2028	241	351	395					
Generation (GWh)	2030	244	357	418	352	388			
Generation (GWh)	FG						447	408	475
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 1-5 - Surplus, Curtailment and Constraint for Solar Non-priority in Area G (J City, G South)

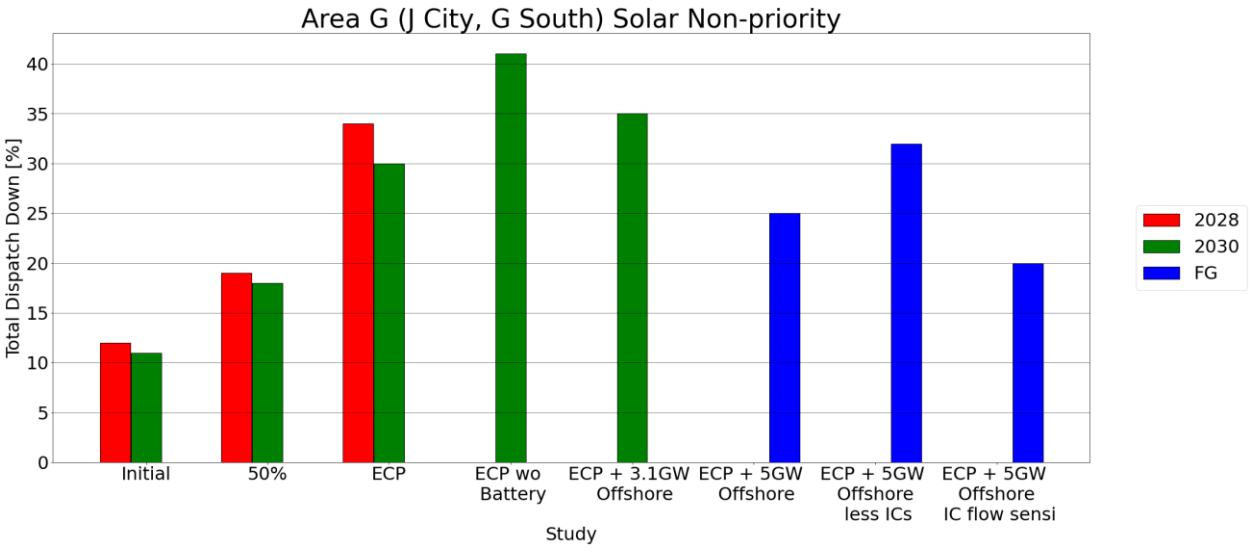

Figure 1-3 - Results Solar Non-priority Area G (J City, G South)

Area G (J City, G South)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	465	
Installed Capacity (MW)	2030	465	465
Available Energy (GWh)	2028	597	
Available Energy (GWh)	2030	596	596
Generation (GWh)	2028	395	
Generation (GWh)	2030	418	388
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 1-6 –Surplus, Curtailment and Constraint for Solar Non-priority with Sensitivity in Area G (J City, G South)

1.5.2 Non - priority Solar Results for G North

The solar non-priority data is given in the following table.

Area G (G North)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	8	206	405					
Installed Capacity (MW)	2030	8	206	405	405	405			
Installed Capacity (MW)	FG						405	405	405
Available Energy (GWh)	2028	10	265	519					
Available Energy (GWh)	2030	10	264	519	519	519			
Available Energy (GWh)	FG						519	519	519
Generation (GWh)	2028	9	217	362					
Generation (GWh)	2030	9	217	367	307	341			
Generation (GWh)	FG						384	352	409
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	0 %	1 %	1 %					
Constraint (%)	2030	0 %	1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028	12 %	18 %	30 %					
Total Dispatch Down (%)	2030	11 %	18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 1-7 - Surplus, Curtailment and Constraint for Solar Non-priority in Area G (G North)

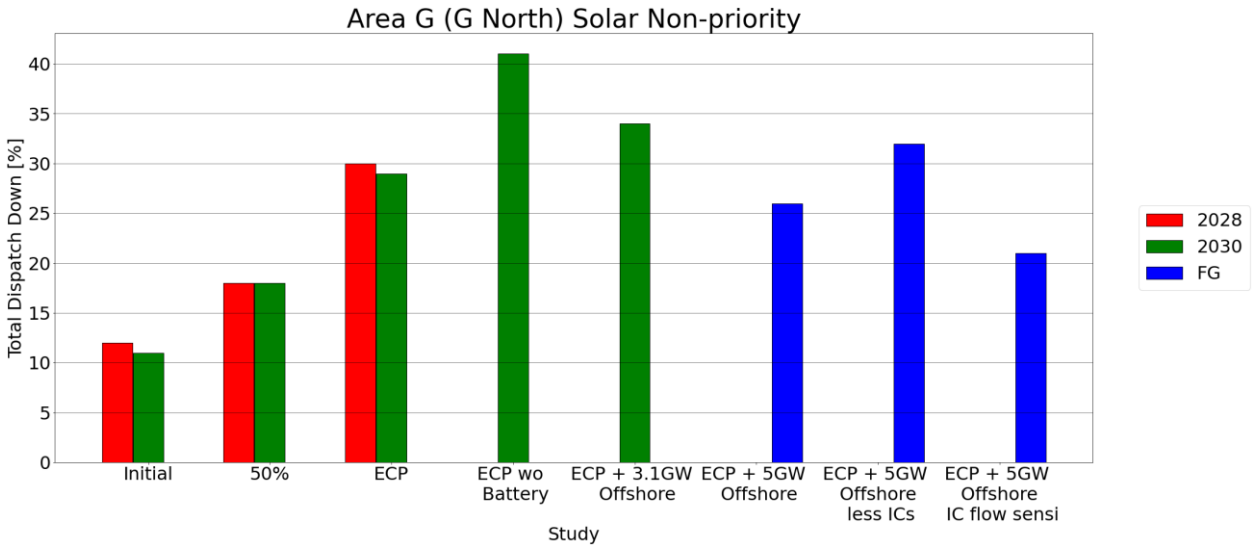

Figure 1-4 - Results Solar Non-priority Area G (G North)

Area G (G North)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	405	
Installed Capacity (MW)	2030	405	405
Available Energy (GWh)	2028	519	
Available Energy (GWh)	2030	519	519
Generation (GWh)	2028	362	
Generation (GWh)	2030	367	341
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 1-8 –Surplus, Curtailment and Constraint for Solar Non-priority with Sensitivity in Area G (G North)

1.5.3 Non - priority Wind Results for G North

The wind non-priority data is given in the following table.

Area G (G North)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	116	142	167					
Installed Capacity (MW)	2030	116	142	167	167	167			
Installed Capacity (MW)	FG						537	537	537
Available Energy (GWh)	2028	366	446	525					
Available Energy (GWh)	2030	364	443	521	521	521			
Available Energy (GWh)	FG						2071	2071	2071
Generation (GWh)	2028	253	309	337					
Generation (GWh)	2030	244	309	336	261	284			
Generation (GWh)	FG						1382	1279	1631
Surplus (%)	2028	17 %	22 %	28 %					
Surplus (%)	2030	13 %	23 %	29 %	34 %	42 %			
Surplus (%)	FG						33 %	37 %	20 %
Curtailment (%)	2028	6 %	5 %	5 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	8 %	4 %	3 %					
Constraint (%)	2030	15 %	4 %	3 %	11 %	1 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	31 %	31 %	36 %					
Total Dispatch Down (%)	2030	33 %	30 %	36 %	50 %	46 %			
Total Dispatch Down (%)	FG						35 %	40 %	22 %

Table 1-9 - Surplus, Curtailment and Constraint for Wind Non-priority in Area G (G North)

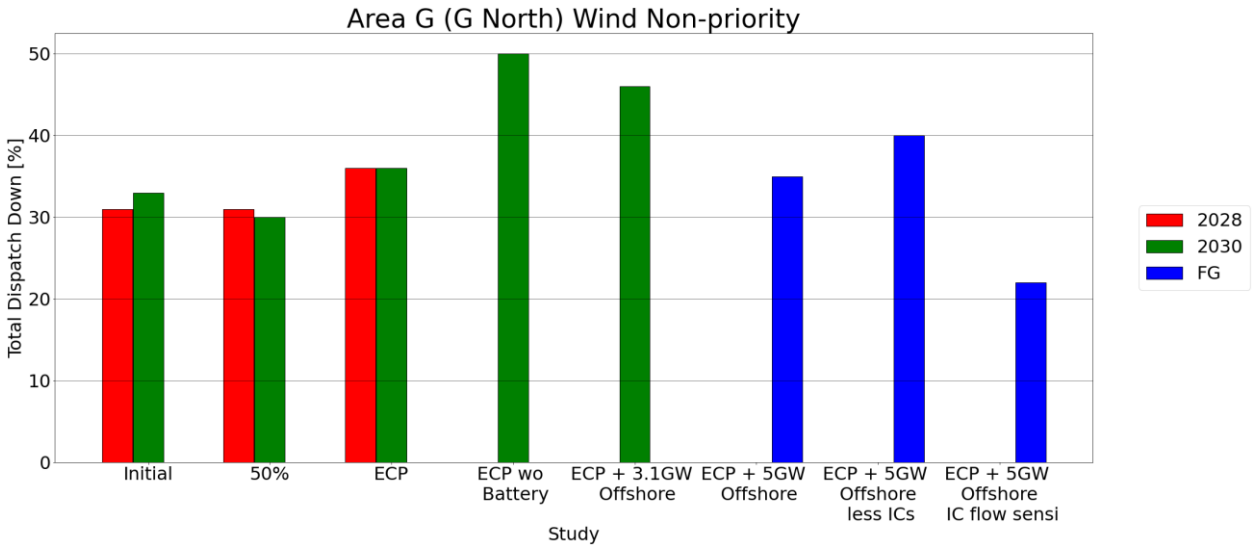

Figure 1-5 - Results Wind Non-priority Area G (G North)

Area G (G North)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	167	
Installed Capacity (MW)	2030	167	167
Available Energy (GWh)	2028	525	
Available Energy (GWh)	2030	521	521
Generation (GWh)	2028	345	
Generation (GWh)	2030	344	287
Surplus (%)	2028	28 %	
Surplus (%)	2030	29 %	42 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	34 %	45 %

Table 1-10 –Surplus, Curtailment and Constraint for Wind Non-priority with Sensitivity in Area G (G North)

1.5.4 Priority Wind Results for G North

The wind priority data is given in the following table.

Area G (G North)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	133	133	133					
Installed Capacity (MW)	2030	133	133	133	133	133			
Installed Capacity (MW)	FG						133	133	133
Available Energy (GWh)	2028	419	419	419					
Available Energy (GWh)	2030	416	416	416	416	416			
Available Energy (GWh)	FG						416	416	416
Generation (GWh)	2028	376	380	377					
Generation (GWh)	2030	388	392	391	380	386			
Generation (GWh)	FG						392	393	404
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	9 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailment (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	10 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 1-11 - Surplus, Curtailment and Constraint for Wind Priority in Area G (G North)

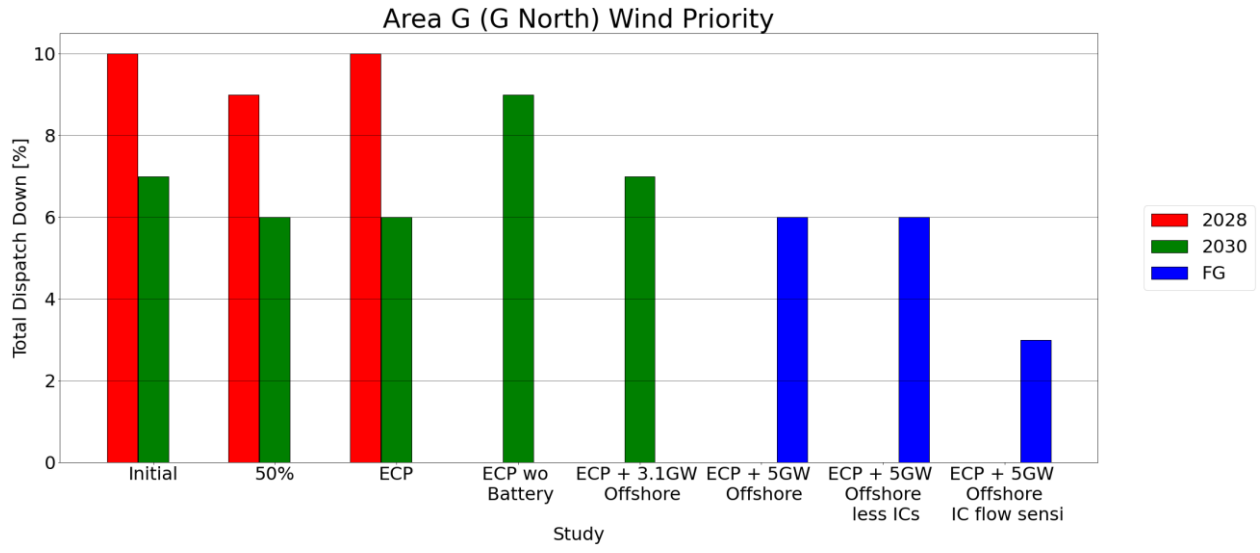

Figure 1-6 - Results Wind Priority Area G (G North)

Area G (G North)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	133	
Installed Capacity (MW)	2030	133	133
Available Energy (GWh)	2028	419	
Available Energy (GWh)	2030	416	416
Generation (GWh)	2028	369	
Generation (GWh)	2030	383	383
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	8 %	8 %

Table 1-12 –Surplus, Curtailment and Constraint for Wind Priority with Sensitivity in Area G (G North)

2 Area G Node Results

This section presents results for 17 nodes in Area G.

In each node section:

- One table presents a list of the generators at each node that are included in the study.
- For each generator type (solar not priority, wind not priority or wind priority), one table contains the estimated levels of surplus, curtailment and constraint that generators estimate to experience are reported for all study scenarios. Note that the constraint dispatch down allocation is based on Grandfathering, which results in non-priority generators being reduced ahead of priority generators for constraint reasons.
- In addition to the core studies, one table contains a set of sensitivity studies results are also included, which employs pro-rata allocation of constraints.

Example

If you take Balruntagh, the below table identified which are Grandfathering and Pro-rata, the entire rest of this document is structed in this manner.

Table 2-2	Grandfathering	
Figure 2-2	Grandfathering	
Table 2-3	Pro-rata	From table 2-2 to table 2-3, constraints dispatch down % and total dispatch down % are different.

2.1 Balruntagh

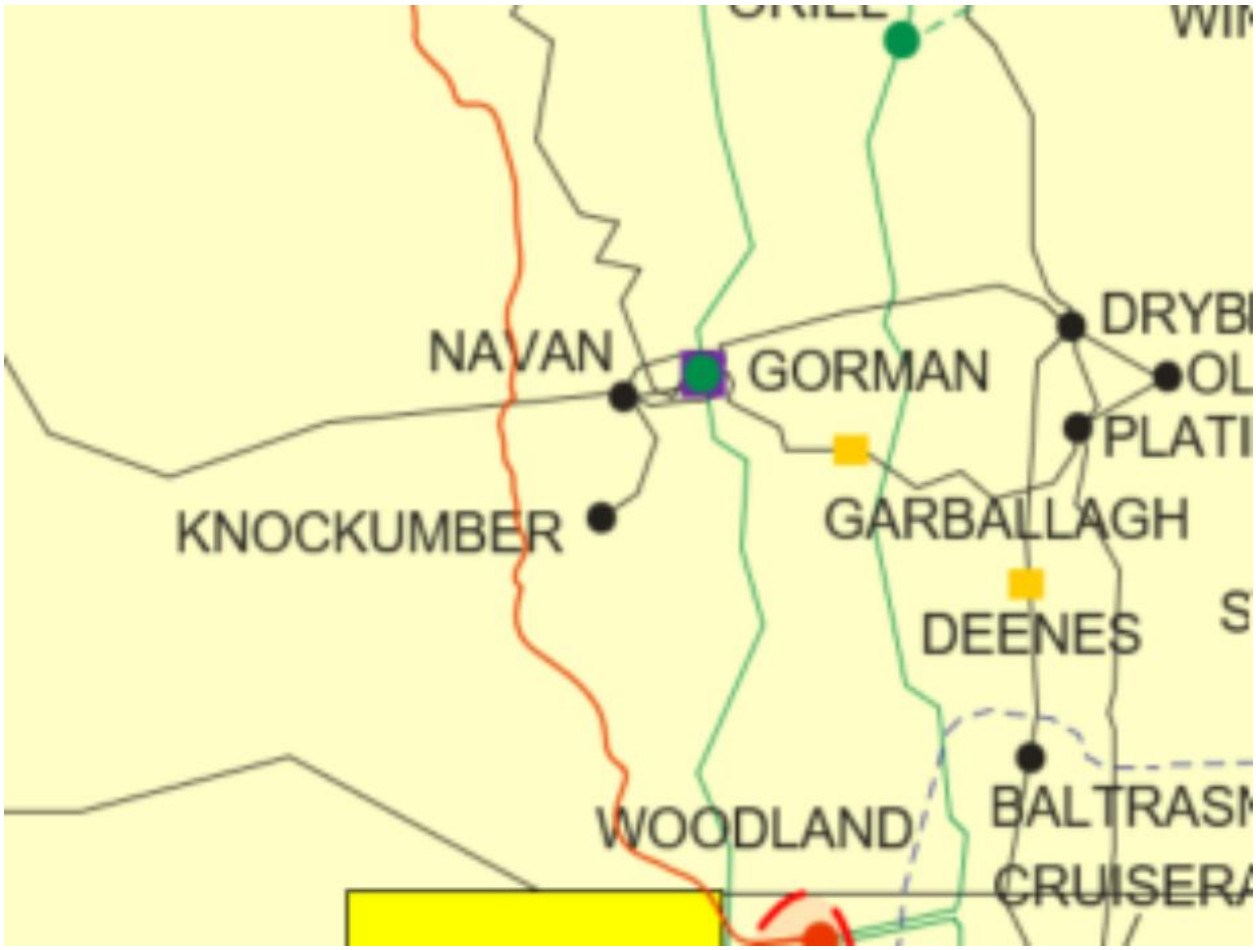

Figure 2-1- Location of node Balruntagh

Generator	SO	Capacity	Type	Status
Milltown Solar	TSO	115.0	solar not priority	due to connected
Knockanarragh	TSO	50.4	wind not priority	due to connected
Milltown ph2 solar	TSO	19.0	solar not priority	due to connected

Table 2-1 - Generation Included in Study for Node Balruntagh

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		67	134					
Installed Capacity (MW)	2030		67	134	134	134			
Installed Capacity (MW)	FG						134	134	134
Available Energy (GWh)	2028		86	172					
Available Energy (GWh)	2030		86	172	172	172			
Available Energy (GWh)	FG						172	172	172
Generation (GWh)	2028		70	120					
Generation (GWh)	2030		70	121	102	113			
Generation (GWh)	FG						127	117	135
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		1 %	1 %					
Constraint (%)	2030		1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028		18 %	30 %					
Total Dispatch Down (%)	2030		18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-2 - Surplus, Curtailment and Constraint for Solar non-priority for Node Balruntagh

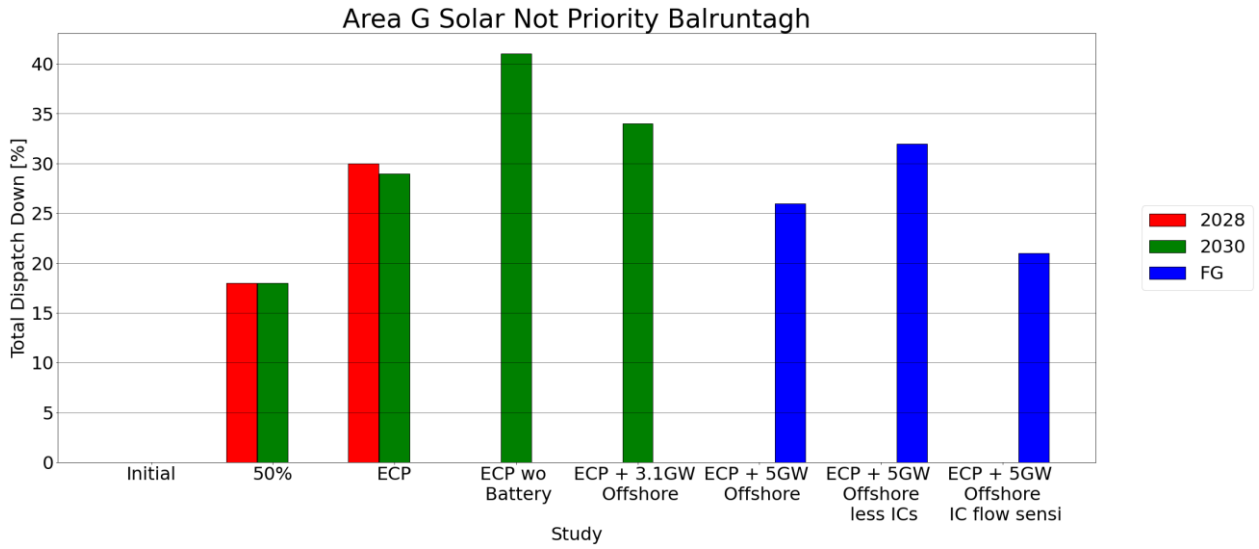

Figure 2-2- Total Dispatch Down for Solar not priority for Node Balruntagh

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	134	
Installed Capacity (MW)	2030	134	134
Available Energy (GWh)	2028	172	
Available Energy (GWh)	2030	172	172
Generation (GWh)	2028	120	
Generation (GWh)	2030	121	113
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 2-3 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Balruntagh

The wind not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		25	50					
Installed Capacity (MW)	2030		25	50	50	50			
Installed Capacity (MW)	FG						50	50	50
Available Energy (GWh)	2028		79	159					
Available Energy (GWh)	2030		79	157	157	157			
Available Energy (GWh)	FG						157	157	157
Generation (GWh)	2028		55	102					
Generation (GWh)	2030		55	102	79	86			
Generation (GWh)	FG						101	93	121
Surplus (%)	2028		22 %	28 %					
Surplus (%)	2030		23 %	29 %	34 %	42 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailment (%)	2028		5 %	5 %					
Curtailment (%)	2030		3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		4 %	3 %					
Constraint (%)	2030		4 %	3 %	11 %	1 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028		31 %	36 %					
Total Dispatch Down (%)	2030		30 %	36 %	50 %	46 %			
Total Dispatch Down (%)	FG						36 %	41 %	23 %

Table 2-4 - Surplus, Curtailment and Constraint for Wind non-priority for Node Balruntagh

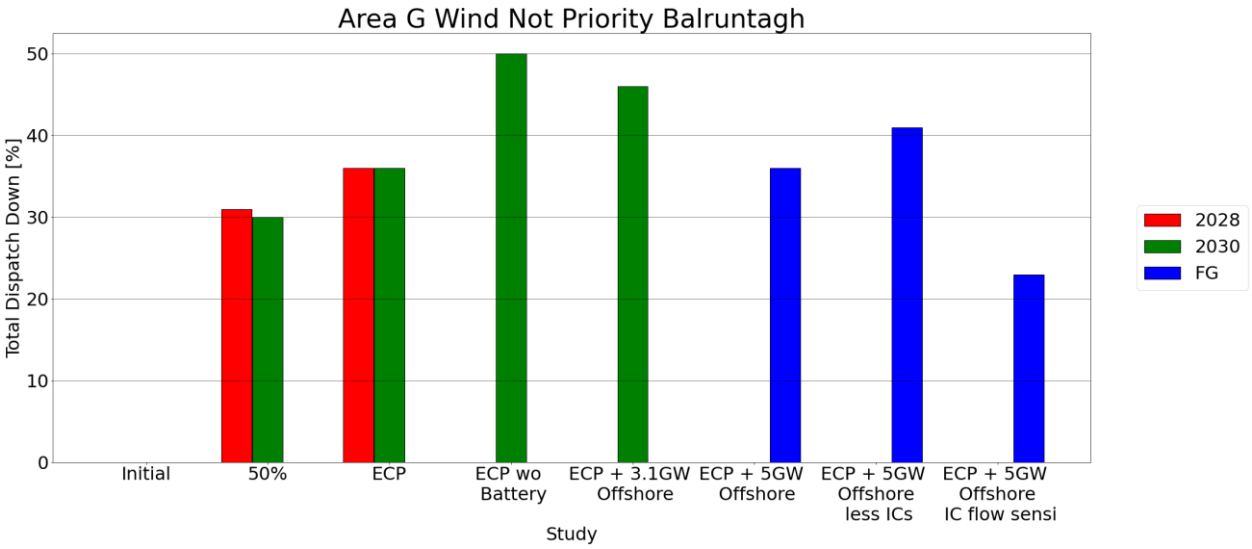

Figure 2-3- Total Dispatch Down for Wind not priority for Node Balruntagh

The wind not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	50	
Installed Capacity (MW)	2030	50	50
Available Energy (GWh)	2028	159	
Available Energy (GWh)	2030	157	157
Generation (GWh)	2028	104	
Generation (GWh)	2030	104	87
Surplus (%)	2028	28 %	
Surplus (%)	2030	29 %	42 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	34 %	45 %

Table 2-5 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Balruntagh

2.2 Baltrasna

Figure 2-4 - Location of node Baltrasna

Generator	SO	Capacity	Type	Status
Hilltown PV	DSO	9.99	solar not priority	connected
Painestown Hill Solar Farm	DSO	7.14	solar not priority	connected

Table 2-6 - Generation Included in Study for Node Baltrasna

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	17	17	17					
Installed Capacity (MW)	2030	17	17	17	17	17			
Installed Capacity (MW)	FG						17	17	17
Available Energy (GWh)	2028	22	22	22					
Available Energy (GWh)	2030	22	22	22	22	22			
Available Energy (GWh)	FG						22	22	22
Generation (GWh)	2028	19	18	15					
Generation (GWh)	2030	20	18	15	13	14			
Generation (GWh)	FG						16	15	18
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-7 - Surplus, Curtailment and Constraint for Solar non-priority for Node Baltrasna

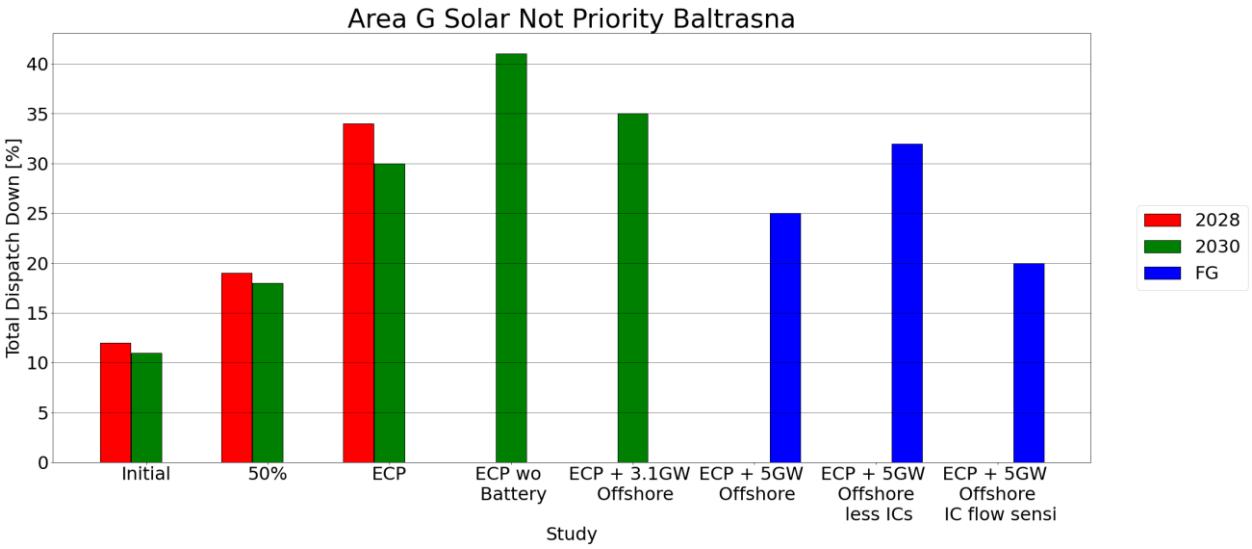

Figure 2-5 - Total Dispatch Down for Solar not priority for Node Baltrasna

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	17	
Installed Capacity (MW)	2030	17	17
Available Energy (GWh)	2028	22	
Available Energy (GWh)	2030	22	22
Generation (GWh)	2028	15	
Generation (GWh)	2030	15	14
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-8 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Baltrasna

2.3 Deenes

Figure 2-6 - Location of node Deenes

Generator	SO	Capacity	Type	Status
Hawkinstown Solar	TSO	85.0	solar not priority	due to connected

Table 2-9 - Generation Included in Study for Node Deenes

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		42	85					
Installed Capacity (MW)	2030		42	85	85	85			
Installed Capacity (MW)	FG						85	85	85
Available Energy (GWh)	2028		55	109					
Available Energy (GWh)	2030		54	109	109	109			
Available Energy (GWh)	FG						109	109	109
Generation (GWh)	2028		44	72					
Generation (GWh)	2030		45	76	64	71			
Generation (GWh)	FG						82	74	87
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	5 %					
Constraint (%)	2030		0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028		19 %	34 %					
Total Dispatch Down (%)	2030		18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-10 - Surplus, Curtailment and Constraint for Solar non-priority for Node Deenes

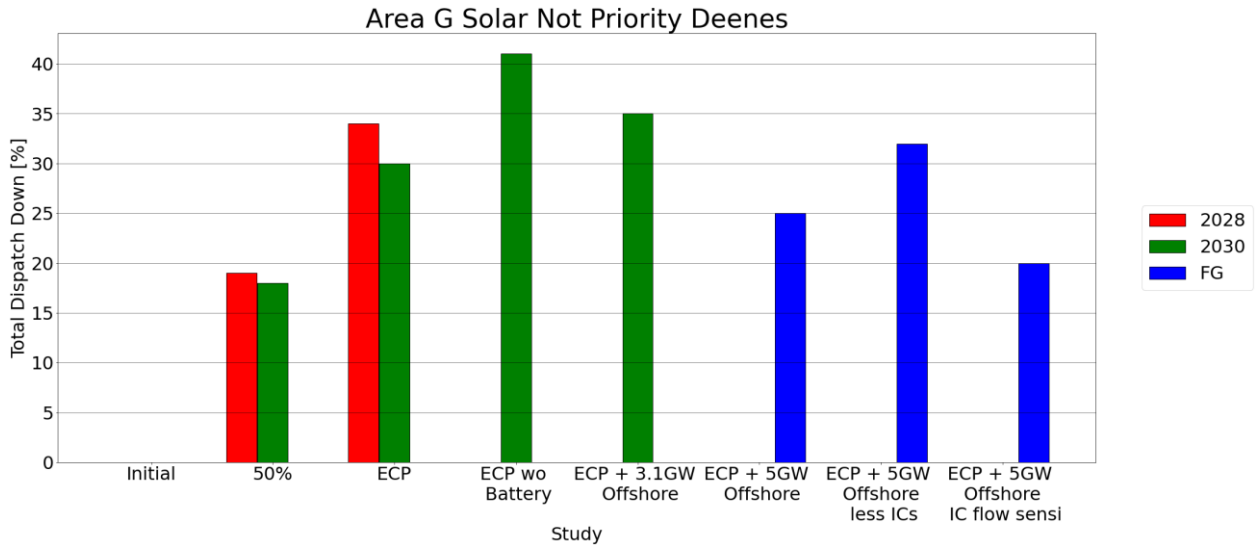

Figure 2-7 - Total Dispatch Down for Solar not priority for Node Deenes

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	85	
Installed Capacity (MW)	2030	85	85
Available Energy (GWh)	2028	109	
Available Energy (GWh)	2030	109	109
Generation (GWh)	2028	72	
Generation (GWh)	2030	76	71
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-11 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Deenes

2.4 Drybridge

Figure 2-8 - Location of node Drybridge

Generator	SO	Capacity	Type	Status
Dunmore (1)	DSO	1.7	wind uncontrolled	connected
Dunmore (2)	DSO	1.8	wind uncontrolled	connected
Collon Wind Power	DSO	2.3	wind uncontrolled	connected
Beaulieu PV	DSO	3.99	solar not priority	connected
Grangegeeth Solar	DSO	4.0	solar not priority	due to connected
Cluide Solar	DSO	4.0	solar not priority	due to connected
Stamullen Solar Park	DSO	3.99	solar not priority	due to connected
Mullagharoy Solar Farm	DSO	0.99	solar not priority	due to connected

Table 2-12- Generation Included in Study for Node Drybridge

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	16	16	17					
Installed Capacity (MW)	2030	16	16	17	17	17			
Installed Capacity (MW)	FG						17	17	17
Available Energy (GWh)	2028	21	21	22					
Available Energy (GWh)	2030	20	21	22	22	22			
Available Energy (GWh)	FG						22	22	22
Generation (GWh)	2028	18	17	14					
Generation (GWh)	2030	18	17	15	13	14			
Generation (GWh)	FG						16	15	17
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-13 - Surplus, Curtailment and Constraint for Solar non-priority for Node Drybridge

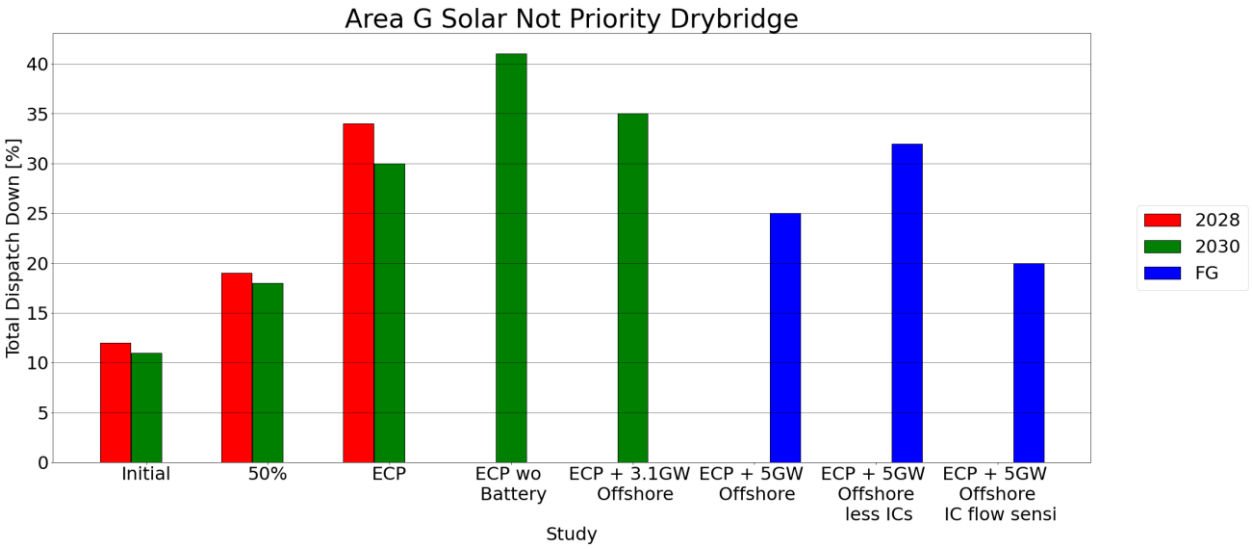

Figure 2-9 - Total Dispatch Down for Solar not priority for Node Drybridge

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	17	
Installed Capacity (MW)	2030	17	17
Available Energy (GWh)	2028	22	
Available Energy (GWh)	2030	22	22
Generation (GWh)	2028	14	
Generation (GWh)	2030	15	14
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-14 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Drybridge

2.5 Dundalk

Figure 2-10 - Location of node Dundalk

Generator	SO	Capacity	Type	Status
Grove Hill (1) formerly Tullynageer	DSO	16.1	wind priority	connected
Willville Solar Park	DSO	3.99	solar not priority	due to connected
Willville Extension Solar Park	DSO	1.0	solar not priority	due to connected
Kilcurly Solar	DSO	44.9	solar not priority	due to connected
Dundalk Golf club	DSO	4.99	solar not priority	due to connected

Table 2-15 - Generation Included in Study for Node Dundalk

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		27	55					
Installed Capacity (MW)	2030		27	55	55	55			
Installed Capacity (MW)	FG						55	55	55
Available Energy (GWh)	2028		35	70					
Available Energy (GWh)	2030		35	70	70	70			
Available Energy (GWh)	FG						70	70	70
Generation (GWh)	2028		29	49					
Generation (GWh)	2030		29	50	42	46			
Generation (GWh)	FG						52	48	55
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		1 %	1 %					
Constraint (%)	2030		1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028		18 %	30 %					
Total Dispatch Down (%)	2030		18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-16 - Surplus, Curtailment and Constraint for Solar non-priority for Node Dundalk

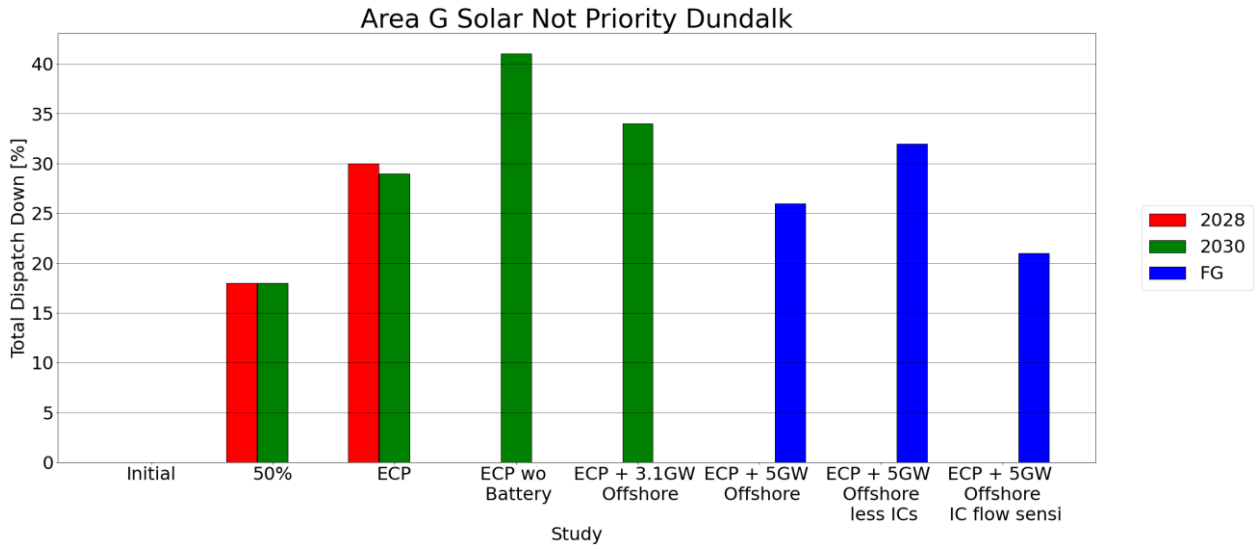

Figure 2-11 - Total Dispatch Down for Solar not priority for Node Dundalk

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	55	
Installed Capacity (MW)	2030	55	55
Available Energy (GWh)	2028	70	
Available Energy (GWh)	2030	70	70
Generation (GWh)	2028	49	
Generation (GWh)	2030	50	46
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 2-17 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Dundalk

The wind priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	16	16	16					
Installed Capacity (MW)	2030	16	16	16	16	16			
Installed Capacity (MW)	FG						16	16	16
Available Energy (GWh)	2028	51	51	51					
Available Energy (GWh)	2030	50	50	50	50	50			
Available Energy (GWh)	FG						50	50	50
Generation (GWh)	2028	45	46	46					
Generation (GWh)	2030	47	47	47	46	47			
Generation (GWh)	FG						47	47	49
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	9 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailment (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	10 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-18 - Surplus, Curtailment and Constraint for Wind priority for Node Dundalk

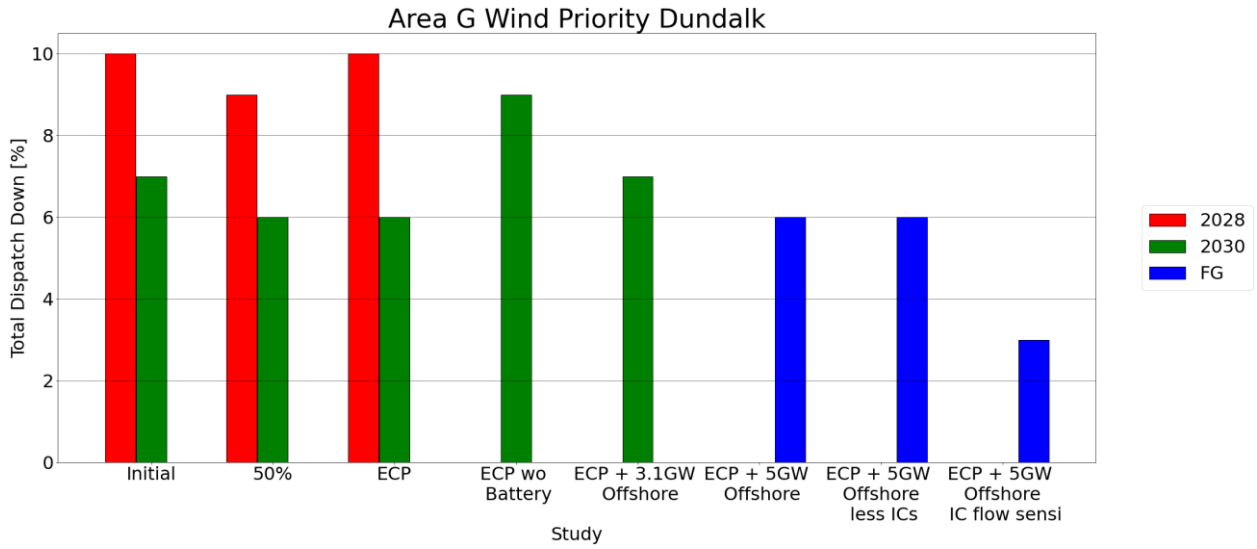

Figure 2-12 - Total Dispatch Down for Wind priority for Node Dundalk

The wind priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	16	
Installed Capacity (MW)	2030	16	16
Available Energy (GWh)	2028	51	
Available Energy (GWh)	2030	50	50
Generation (GWh)	2028	45	
Generation (GWh)	2030	46	46
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	8 %	8 %

Table 2-19 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Dundalk

2.6 Garballagh

Figure 2-13 - Location of node Garballagh

Generator	SO	Capacity	Type	Status
Gillinstown Solar	TSO	95.0	solar not priority	connected
Garballagh2 Solar Farm	TSO	48.0	solar not priority	due to connected
Rathdrinagh Solar	TSO	72.0	solar not priority	due to connected

Table 2-20- Generation Included in Study for Node Garballagh

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	95	155	215					
Installed Capacity (MW)	2030	95	155	215	215	215			
Installed Capacity (MW)	FG						215	215	215
Available Energy (GWh)	2028	122	199	276					
Available Energy (GWh)	2030	122	199	275	275	275			
Available Energy (GWh)	FG						275	275	275
Generation (GWh)	2028	107	160	183					
Generation (GWh)	2030	109	163	193	163	179			
Generation (GWh)	FG						207	188	220
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-21 - Surplus, Curtailment and Constraint for Solar non-priority for Node Garballagh

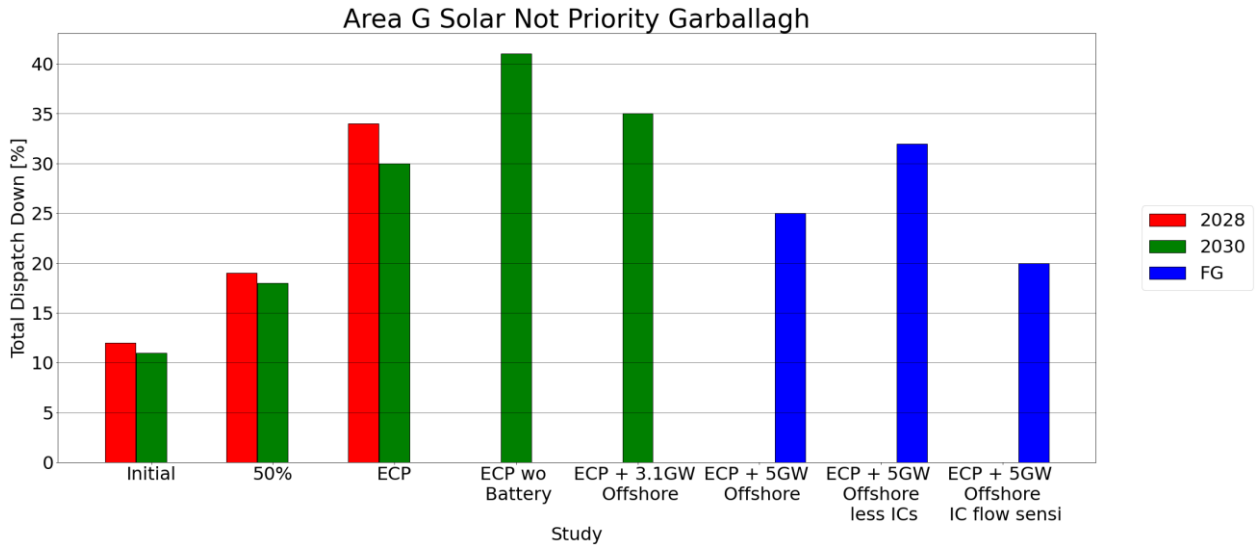

Figure 2-14 - Total Dispatch Down for Solar not priority for Node Garballagh

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	215	
Installed Capacity (MW)	2030	215	215
Available Energy (GWh)	2028	276	
Available Energy (GWh)	2030	275	275
Generation (GWh)	2028	183	
Generation (GWh)	2030	193	179
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-22 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Garballagh

2.7 Gaskinstown

Figure 2-15 - Location of node Gaskinstown

Generator	SO	Capacity	Type	Status
Gaskinstown Solar Farm	TSO	85.0	solar not priority	connected

Table 2-23 - Generation Included in Study for Node Gaskinstown

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	85	85	85					
Installed Capacity (MW)	2030	85	85	85	85	85			
Installed Capacity (MW)	FG						85	85	85
Available Energy (GWh)	2028	109	109	109					
Available Energy (GWh)	2030	109	109	109	109	109			
Available Energy (GWh)	FG						109	109	109
Generation (GWh)	2028	96	88	72					
Generation (GWh)	2030	97	90	76	64	71			
Generation (GWh)	FG						82	74	87
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-24 - Surplus, Curtailment and Constraint for Solar non-priority for Node Gaskinstown

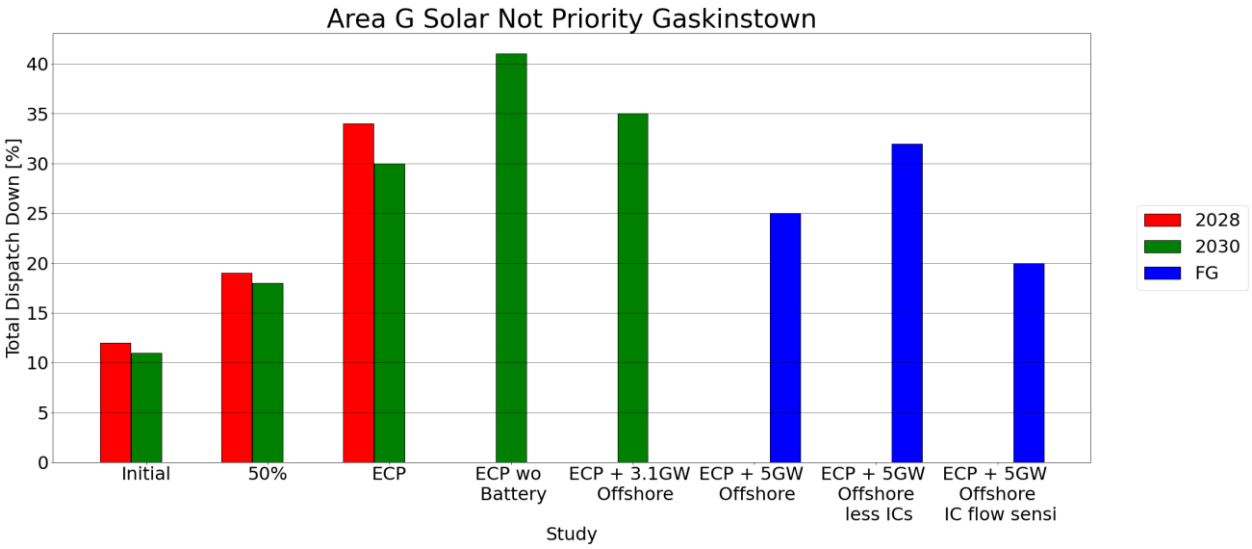

Figure 2-16 - Total Dispatch Down for Solar not priority for Node Gaskinstown

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	85	
Installed Capacity (MW)	2030	85	85
Available Energy (GWh)	2028	109	
Available Energy (GWh)	2030	109	109
Generation (GWh)	2028	72	
Generation (GWh)	2030	76	71
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-25 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Gaskinstown

2.8 Gorman

Figure 2-17 - Location of node Gorman

Generator	SO	Capacity	Type	Status
Gorman Solar Farm	TSO	46.0	solar not priority	due to connected

Table 2-26 - Generation Included in Study for Node Gorman

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		23	46					
Installed Capacity (MW)	2030		23	46	46	46			
Installed Capacity (MW)	FG						46	46	46
Available Energy (GWh)	2028		30	59					
Available Energy (GWh)	2030		29	59	59	59			
Available Energy (GWh)	FG						59	59	59
Generation (GWh)	2028		24	39					
Generation (GWh)	2030		24	41	35	38			
Generation (GWh)	FG						44	40	47
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	5 %					
Constraint (%)	2030		0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028		19 %	34 %					
Total Dispatch Down (%)	2030		18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-27 - Surplus, Curtailment and Constraint for Solar non-priority for Node Gorman

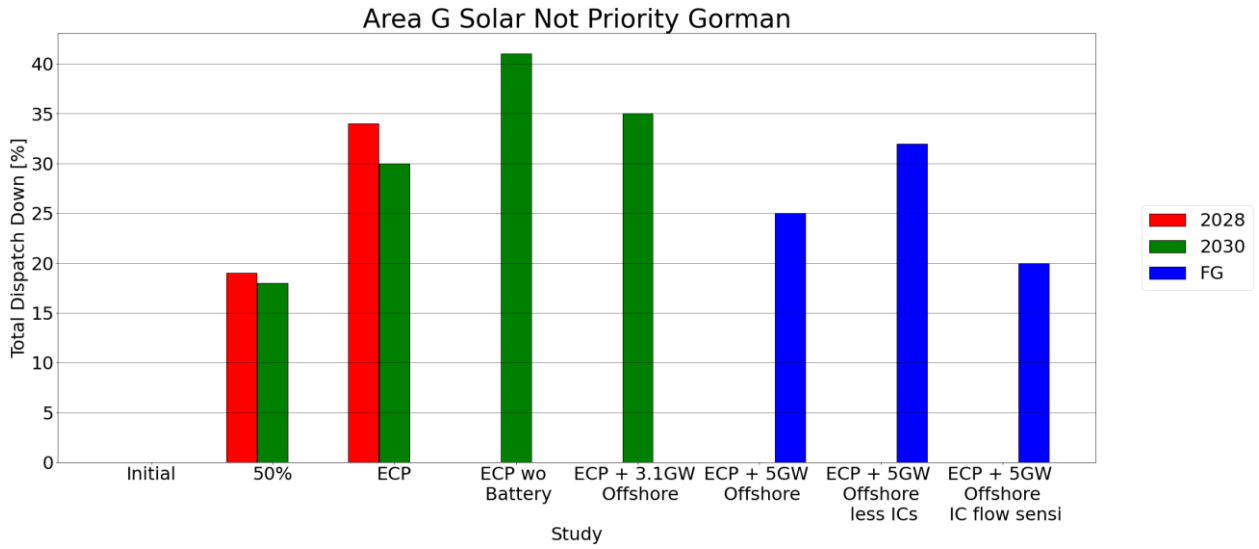

Figure 2-18 - Total Dispatch Down for Solar not priority for Node Gorman

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	46	
Installed Capacity (MW)	2030	46	46
Available Energy (GWh)	2028	59	
Available Energy (GWh)	2030	59	59
Generation (GWh)	2028	39	
Generation (GWh)	2030	41	38
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-28 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Gorman

2.9 Lisdrum

Figure 2-19 - Location of node Lisdrum

Generator	SO	Capacity	Type	Status
Coolberrin Wind Farm (formerly Bragan Wind Farm)	DSO	33.1	wind not priority	due to connected

Table 2-29 - Generation Included in Study for Node Lisdrum

The wind not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	33	33	33					
Installed Capacity (MW)	2030	33	33	33	33	33			
Installed Capacity (MW)	FG						33	33	33
Available Energy (GWh)	2028	104	104	104					
Available Energy (GWh)	2030	103	103	103	103	103			
Available Energy (GWh)	FG						103	103	103
Generation (GWh)	2028	72	72	67					
Generation (GWh)	2030	69	72	67	52	56			
Generation (GWh)	FG						66	61	80
Surplus (%)	2028	17 %	22 %	28 %					
Surplus (%)	2030	13 %	23 %	29 %	34 %	42 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailment (%)	2028	6 %	5 %	5 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	8 %	4 %	3 %					
Constraint (%)	2030	15 %	4 %	3 %	11 %	1 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	31 %	31 %	36 %					
Total Dispatch Down (%)	2030	33 %	30 %	36 %	50 %	46 %			
Total Dispatch Down (%)	FG						36 %	41 %	23 %

Table 2-30 - Surplus, Curtailment and Constraint for Wind non-priority for Node Lisdrum

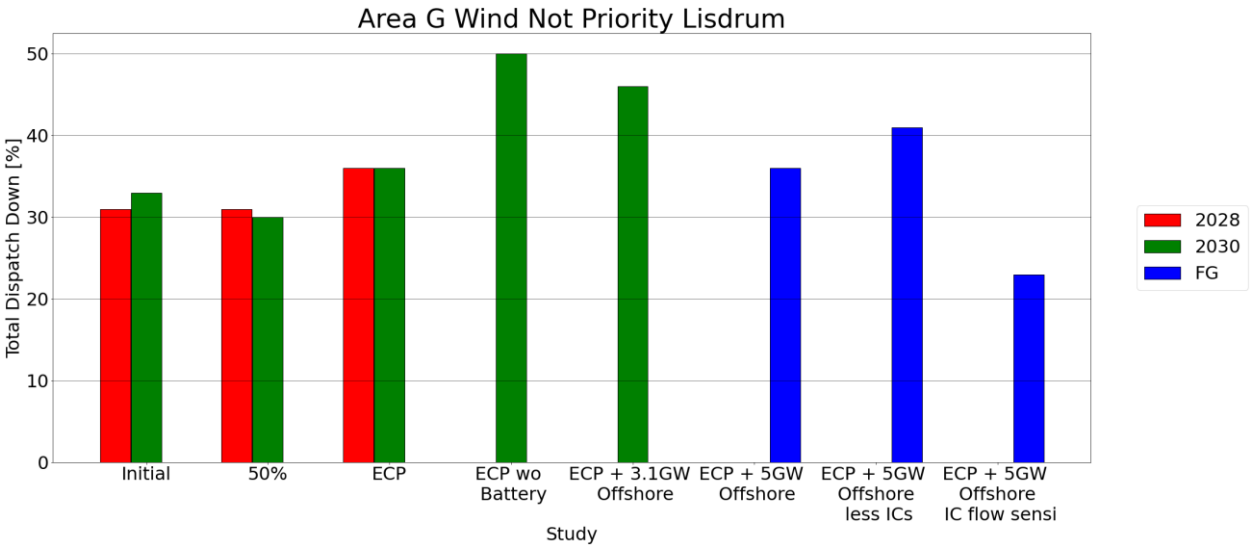

Figure 2-20 - Total Dispatch Down for Wind not priority for Node Lisdrum

The wind not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	33	
Installed Capacity (MW)	2030	33	33
Available Energy (GWh)	2028	104	
Available Energy (GWh)	2030	103	103
Generation (GWh)	2028	68	
Generation (GWh)	2030	68	57
Surplus (%)	2028	28 %	
Surplus (%)	2030	29 %	42 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	34 %	45 %

Table 2-31 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Lisdrum

2.10 Lislea

Figure 2-21 - Location of node Lislea

Generator	SO	Capacity	Type	Status
Drumlins Park wind	TSO	48.8	wind not priority	connected

Table 2-32- Generation Included in Study for Node Lislea

The wind not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	49	49	49					
Installed Capacity (MW)	2030	49	49	49	49	49			
Installed Capacity (MW)	FG						49	49	49
Available Energy (GWh)	2028	153	153	153					
Available Energy (GWh)	2030	152	152	152	152	152			
Available Energy (GWh)	FG						152	152	152
Generation (GWh)	2028	106	106	99					
Generation (GWh)	2030	102	107	98	76	83			
Generation (GWh)	FG						98	90	117
Surplus (%)	2028	17 %	22 %	28 %					
Surplus (%)	2030	13 %	23 %	29 %	34 %	42 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailment (%)	2028	6 %	5 %	5 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	8 %	4 %	3 %					
Constraint (%)	2030	15 %	4 %	3 %	11 %	1 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	31 %	31 %	36 %					
Total Dispatch Down (%)	2030	33 %	30 %	36 %	50 %	46 %			
Total Dispatch Down (%)	FG						36 %	41 %	23 %

Table 2-33- Surplus, Curtailment and Constraint for Wind non-priority for Node Lislea

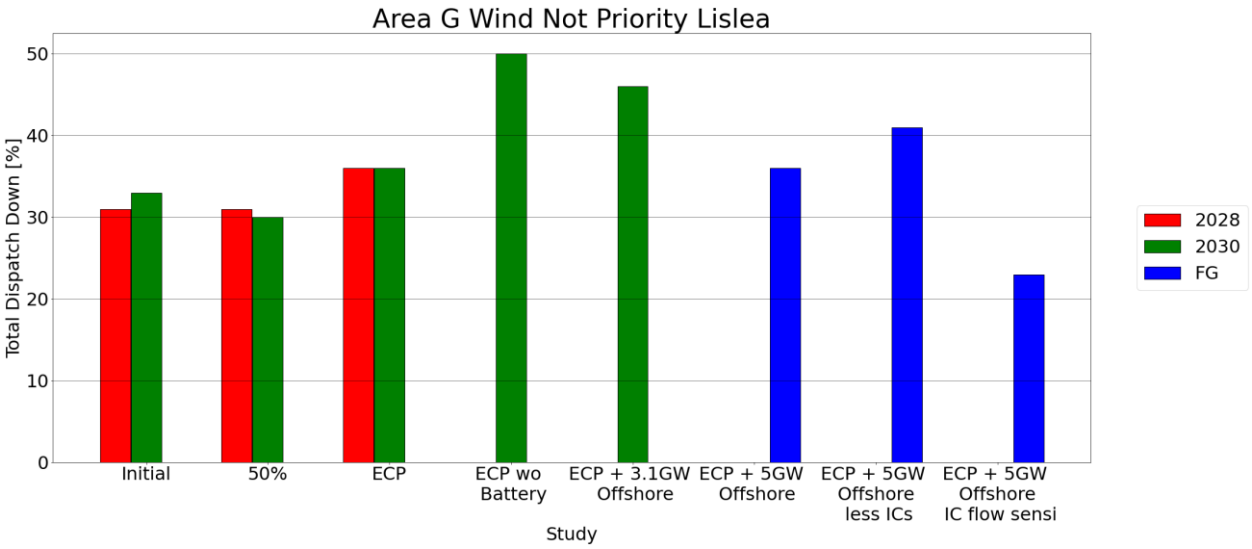

Figure 2-22 - Total Dispatch Down for Wind not priority for Node Lislea

The wind not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	49	
Installed Capacity (MW)	2030	49	49
Available Energy (GWh)	2028	153	
Available Energy (GWh)	2030	152	152
Generation (GWh)	2028	101	
Generation (GWh)	2030	101	84
Surplus (%)	2028	28 %	
Surplus (%)	2030	29 %	42 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	34 %	45 %

Table 2-34 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Lislea

2.11 Louth

Figure 2-23 - Location of node Louth

Generator	SO	Capacity	Type	Status
Monvallet Hybrid Solar & Battery Farm	TSO	50.0	solar not priority	due to connected
Drumgoolan Solar and Battery Farm	TSO	75.0	solar not priority	due to connected

Table 2-35 - Generation Included in Study for Node Louth

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		62	125					
Installed Capacity (MW)	2030		62	125	125	125			
Installed Capacity (MW)	FG						125	125	125
Available Energy (GWh)	2028		80	160					
Available Energy (GWh)	2030		80	160	160	160			
Available Energy (GWh)	FG						160	160	160
Generation (GWh)	2028		66	112					
Generation (GWh)	2030		66	113	95	105			
Generation (GWh)	FG						119	109	126
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		1 %	1 %					
Constraint (%)	2030		1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028		18 %	30 %					
Total Dispatch Down (%)	2030		18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-36- Surplus, Curtailment and Constraint for Solar non-priority for Node Louth

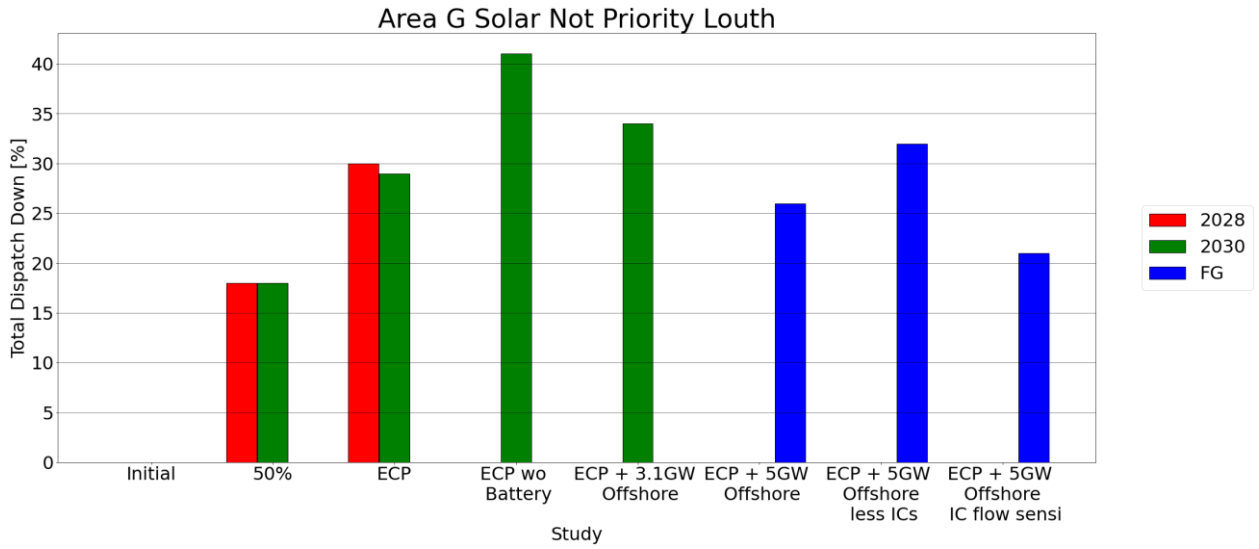

Figure 2-24 - Total Dispatch Down for Solar not priority for Node Louth

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	125	
Installed Capacity (MW)	2030	125	125
Available Energy (GWh)	2028	160	
Available Energy (GWh)	2030	160	160
Generation (GWh)	2028	112	
Generation (GWh)	2030	113	105
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 2-37 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Louth

2.12 Meath hill

Figure 2-25 - Location of node Meath hill

Generator	SO	Capacity	Type	Status
Gartnaneane (1)	DSO	10.5	wind uncontrolled	connected
Gartnaneane (2)	DSO	4.5	wind uncontrolled	connected
Mullananalt (1)	DSO	7.5	wind priority	connected
Raragh (2)	DSO	11.5	wind not priority	connected
Tullynamalra (1)	DSO	2.638	wind uncontrolled	connected
Teevurcher	DSO	9.0	wind priority	connected
Taghart (1)	DSO	23.06	wind not priority	connected
College Export AutoProducer (solar)	DSO	0.4	solar not priority	due to connected

Table 2-38 - Generation Included in Study for Node Meath hill

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		0.2	0.4					
Installed Capacity (MW)	2030		0.2	0.4	0.4	0.4			
Installed Capacity (MW)	FG						0.4	0.4	0.4
Available Energy (GWh)	2028		0.3	0.5					
Available Energy (GWh)	2030		0.3	0.5	0.5	0.5			
Available Energy (GWh)	FG						0.5	0.5	0.5
Generation (GWh)	2028		0.2	0.4					
Generation (GWh)	2030		0.2	0.4	0.3	0.3			
Generation (GWh)	FG						0.4	0.3	0.4
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		1 %	1 %					
Constraint (%)	2030		1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028		18 %	30 %					
Total Dispatch Down (%)	2030		18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-39- Surplus, Curtailment and Constraint for Solar non-priority for Node Meath hill

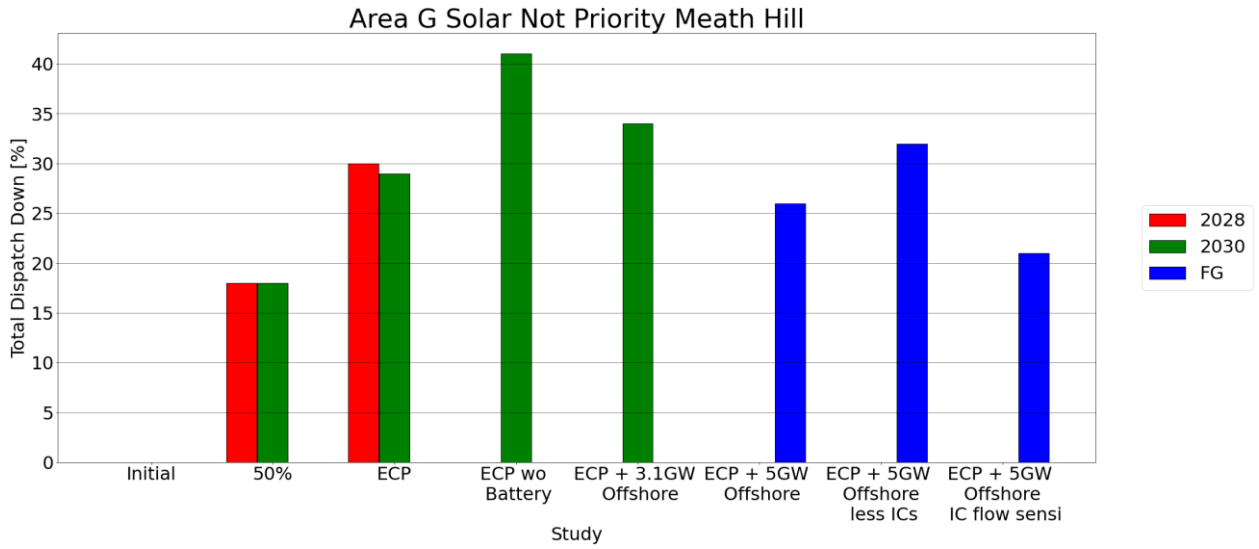

Figure 2-26 - Total Dispatch Down for Solar not priority for Node Meath hill

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	0.4	
Installed Capacity (MW)	2030	0.4	0.4
Available Energy (GWh)	2028	0.5	
Available Energy (GWh)	2030	0.5	0.5
Generation (GWh)	2028	0.4	
Generation (GWh)	2030	0.4	0.3
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 2-40 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Meath hill

The wind not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	35	35	35					
Installed Capacity (MW)	2030	35	35	35	35	35			
Installed Capacity (MW)	FG						35	35	35
Available Energy (GWh)	2028	109	109	109					
Available Energy (GWh)	2030	108	108	108	108	108			
Available Energy (GWh)	FG						108	108	108
Generation (GWh)	2028	75	75	70					
Generation (GWh)	2030	73	75	70	54	59			
Generation (GWh)	FG						69	64	83
Surplus (%)	2028	17 %	22 %	28 %					
Surplus (%)	2030	13 %	23 %	29 %	34 %	42 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailment (%)	2028	6 %	5 %	5 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	8 %	4 %	3 %					
Constraint (%)	2030	15 %	4 %	3 %	11 %	1 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	31 %	31 %	36 %					
Total Dispatch Down (%)	2030	33 %	30 %	36 %	50 %	46 %			
Total Dispatch Down (%)	FG						36 %	41 %	23 %

Table 2-41 - Surplus, Curtailment and Constraint for Wind non-priority for Node Meath hill

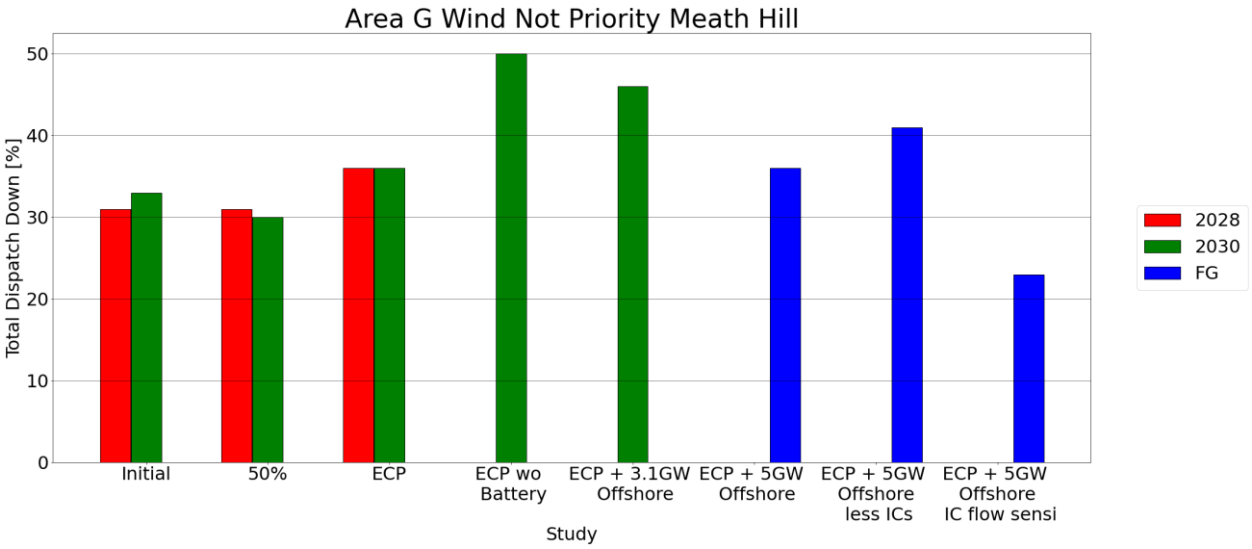

Figure 2-27 - Total Dispatch Down for Wind not priority for Node Meath hill

The wind not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	35	
Installed Capacity (MW)	2030	35	35
Available Energy (GWh)	2028	109	
Available Energy (GWh)	2030	108	108
Generation (GWh)	2028	71	
Generation (GWh)	2030	71	59
Surplus (%)	2028	28 %	
Surplus (%)	2030	29 %	42 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	34 %	45 %

Table 2-42 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Meath hill

The wind priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	16	16	16					
Installed Capacity (MW)	2030	16	16	16	16	16			
Installed Capacity (MW)	FG						16	16	16
Available Energy (GWh)	2028	52	52	52					
Available Energy (GWh)	2030	52	52	52	52	52			
Available Energy (GWh)	FG						52	52	52
Generation (GWh)	2028	47	47	47					
Generation (GWh)	2030	48	48	48	47	48			
Generation (GWh)	FG						48	49	50
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	9 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailment (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	10 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-43 - Surplus, Curtailment and Constraint for Wind priority for Node Meath hill

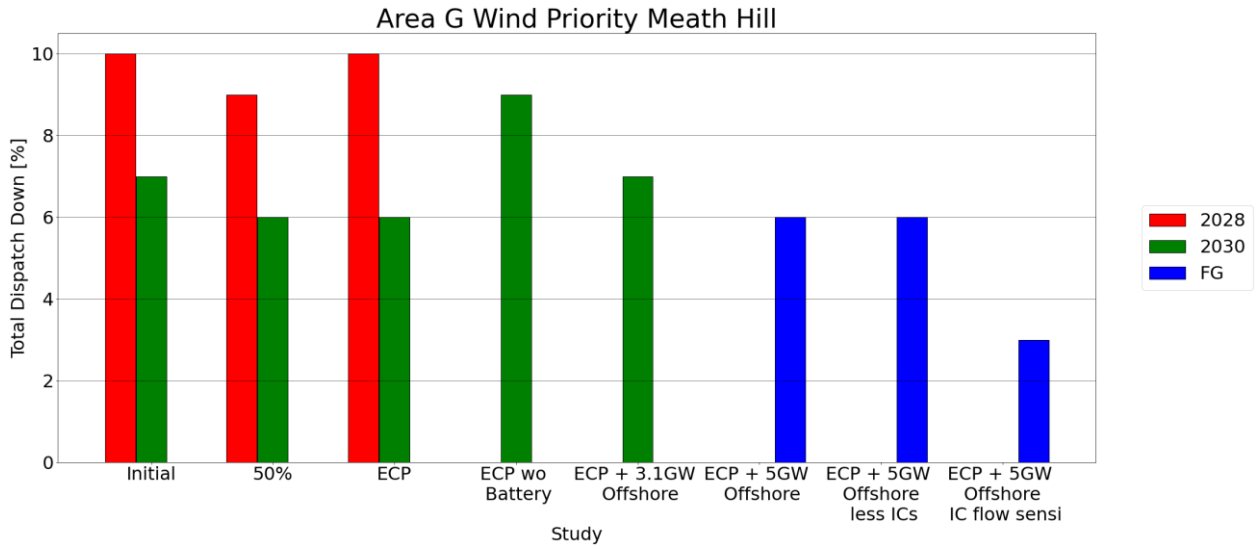

Figure 2-28 - Total Dispatch Down for Wind priority for Node Meath hill

The wind priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	16	
Installed Capacity (MW)	2030	16	16
Available Energy (GWh)	2028	52	
Available Energy (GWh)	2030	52	52
Generation (GWh)	2028	46	
Generation (GWh)	2030	47	47
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	8 %	8 %

Table 2-44 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Meath hill

2.13 Navan

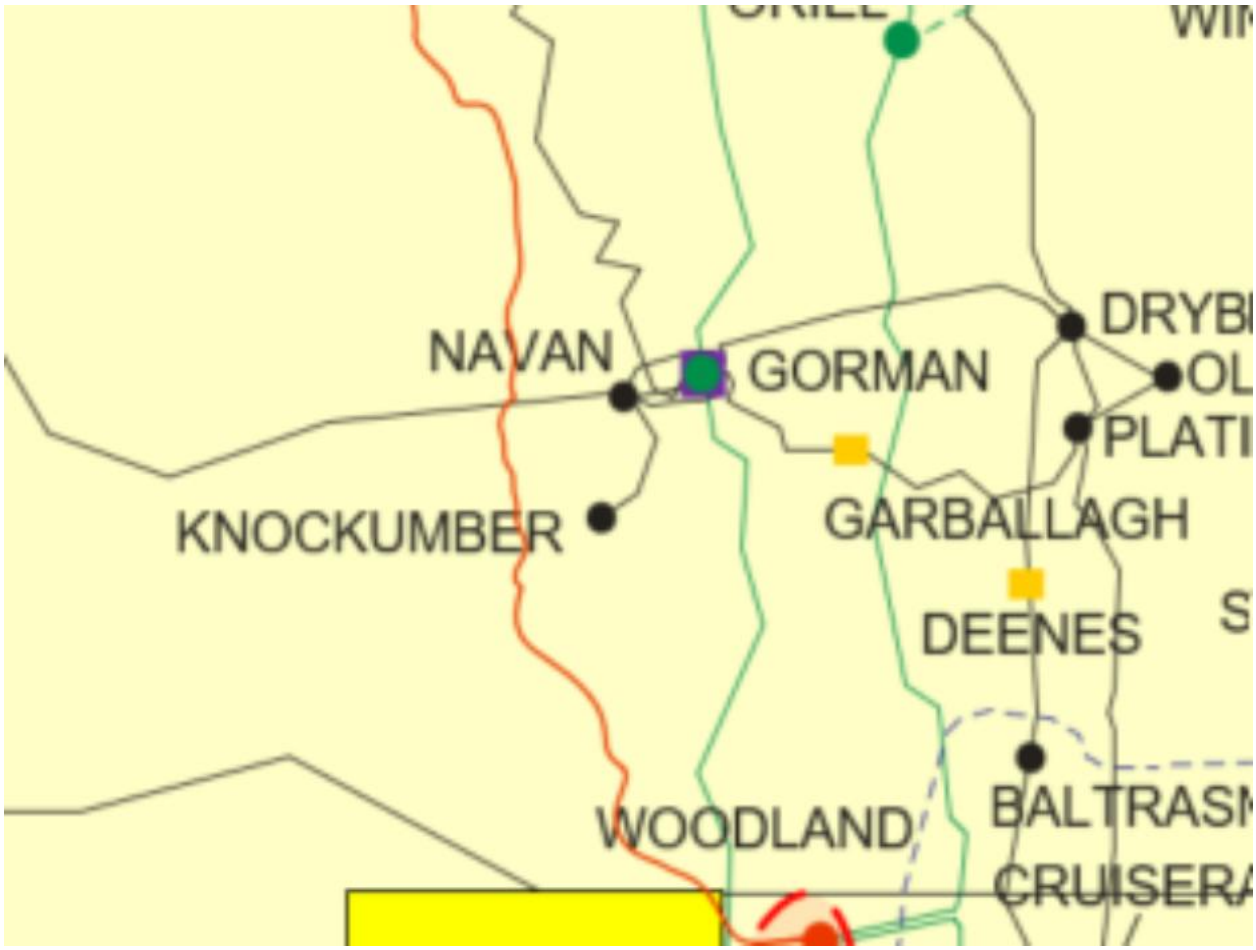

Figure 2-29 - Location of node Navan

Generator	SO	Capacity	Type	Status
Martinstown Solar formerly Crowinstown Great wind	DSO	4.999	solar not priority	due to connected
Kilkeelan Solar Farm	DSO	4.0	solar not priority	due to connected
Friarspark (was Glebe Golf Course)	DSO	4.0	solar not priority	connected
Friarspark Solar 2	DSO	2.1	solar not priority	due to connected
Kilkeelan Phase 2 Solar Farm	DSO	1.35	solar not priority	due to connected
Boliden Tara Mines Solar Farm (non export)	DSO	17.0	solar uncontrolled	due to connected

Table 2-45 - Generation Included in Study for Node Navan

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	8	12	16					
Installed Capacity (MW)	2030	8	12	16	16	16			
Installed Capacity (MW)	FG						16	16	16
Available Energy (GWh)	2028	10	16	21					
Available Energy (GWh)	2030	10	16	21	21	21			
Available Energy (GWh)	FG						21	21	21
Generation (GWh)	2028	9	13	15					
Generation (GWh)	2030	9	13	15	12	14			
Generation (GWh)	FG						16	14	17
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	0 %	1 %	1 %					
Constraint (%)	2030	0 %	1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028	12 %	18 %	30 %					
Total Dispatch Down (%)	2030	11 %	18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-46 - Surplus, Curtailment and Constraint for Solar non-priority for Node Navan

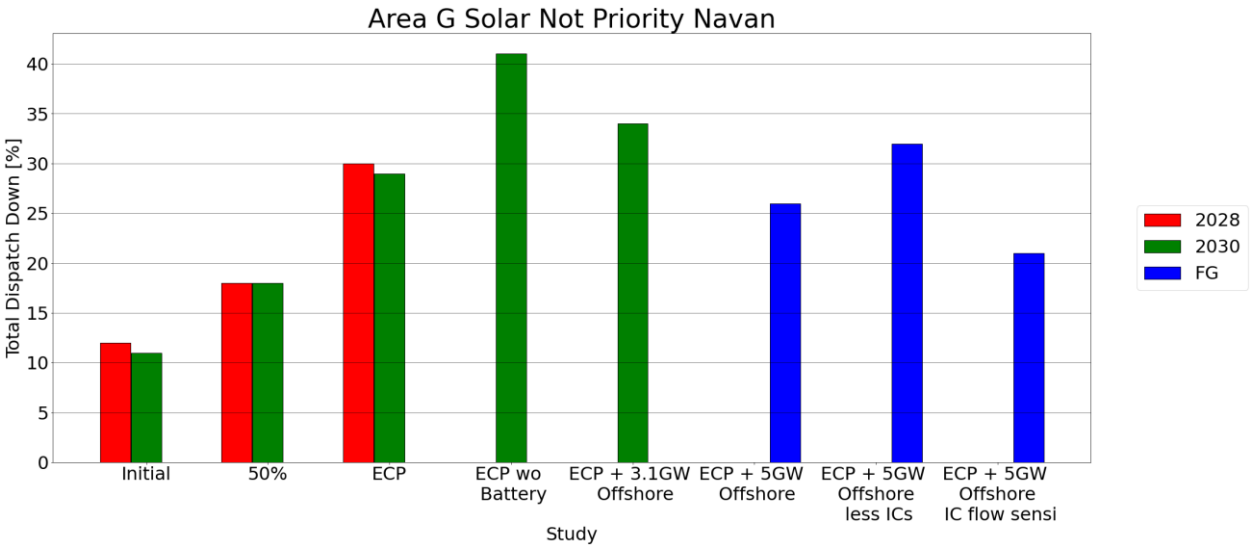

Figure 2-30 - Total Dispatch Down for Solar not priority for Node Navan

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	16	
Installed Capacity (MW)	2030	16	16
Available Energy (GWh)	2028	21	
Available Energy (GWh)	2030	21	21
Generation (GWh)	2028	15	
Generation (GWh)	2030	15	14
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 2-47 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Navan

2.14 Oriel 220kv

Figure 2-31 - Location of node Oriel 220kv

Generator	SO	Capacity	Type	Status
Oriel 1	TSO	210.0	wind not priority	due to connected
Oriel offshore new A	TSO	160.0	wind not priority	due to connected

Table 2-48 - Generation Included in Study for Node Oriel 220kv

The wind not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028								
Installed Capacity (MW)	2030								
Installed Capacity (MW)	FG						370	370	370
Available Energy (GWh)	2028								
Available Energy (GWh)	2030								
Available Energy (GWh)	FG						1550	1550	1550
Generation (GWh)	2028								
Generation (GWh)	2030								
Generation (GWh)	FG						1049	971	1230
Surplus (%)	2028								
Surplus (%)	2030								
Surplus (%)	FG						30 %	35 %	19 %
Curtailment (%)	2028								
Curtailment (%)	2030								
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030								
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030								
Total Dispatch Down (%)	FG						32 %	37 %	21 %

Table 2-49 - Surplus, Curtailment and Constraint for Wind non-priority for Node Oriel 220kv

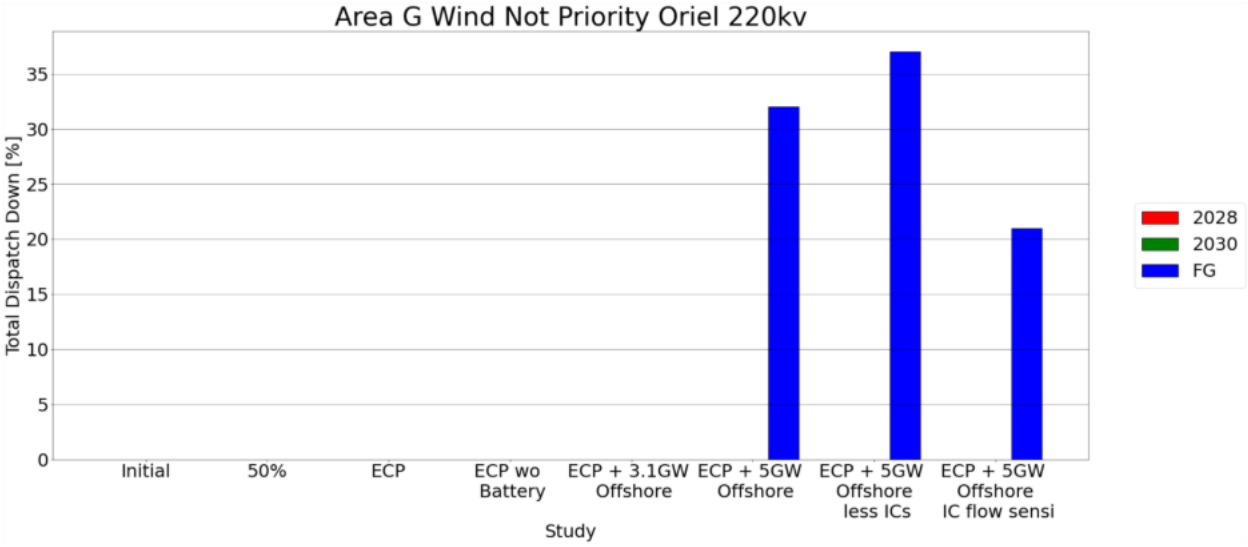

Figure 2-32 - Total Dispatch Down for Wind not priority for Node Oriel 220kv

2.15 Ratrussan

Figure 2-33 - Location of node Ratrussan

Generator	SO	Capacity	Type	Status
Mountain Lodge (1)	TSO	24.8	wind priority	connected
Ratrussan (1a)	TSO	48.0	wind priority	connected
Mountain Lodge (3)	TSO	5.82	wind priority	connected

Table 2-50- Generation Included in Study for Node Ratrussan

The wind priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	79	79	79					
Installed Capacity (MW)	2030	79	79	79	79	79			
Installed Capacity (MW)	FG						79	79	79
Available Energy (GWh)	2028	247	247	247					
Available Energy (GWh)	2030	246	246	246	246	246			
Available Energy (GWh)	FG						246	246	246
Generation (GWh)	2028	222	224	223					
Generation (GWh)	2030	229	231	231	224	228			
Generation (GWh)	FG						231	232	239
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	9 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailment (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	10 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-51 - Surplus, Curtailment and Constraint for Wind priority for Node Ratrussan

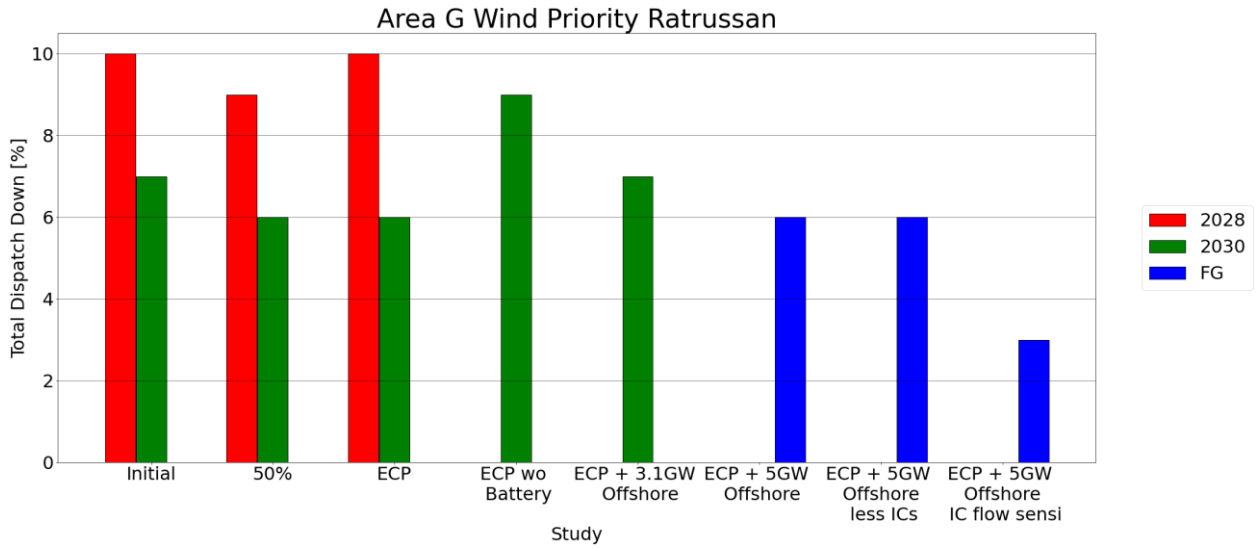

Figure 2-34 - Total Dispatch Down for Wind priority for Node Ratrussan

The wind priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	79	
Installed Capacity (MW)	2030	79	79
Available Energy (GWh)	2028	247	
Available Energy (GWh)	2030	246	246
Generation (GWh)	2028	218	
Generation (GWh)	2030	226	226
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	8 %	8 %

Table 2-52 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Ratrussan

2.16 Ricetown

Figure 2-35 - Location of node Ratrussan

Generator	SO	Capacity	Type	Status
Mill Farm Solar	TSO	63.0	solar not priority	due to connected

Table 2-53 - Generation Included in Study for Node Ricetown

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		32	63					
Installed Capacity (MW)	2030		32	63	63	63			
Installed Capacity (MW)	FG						63	63	63
Available Energy (GWh)	2028		40	81					
Available Energy (GWh)	2030		40	81	81	81			
Available Energy (GWh)	FG						81	81	81
Generation (GWh)	2028		33	56					
Generation (GWh)	2030		33	57	48	53			
Generation (GWh)	FG						60	55	64
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		1 %	1 %					
Constraint (%)	2030		1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028		18 %	30 %					
Total Dispatch Down (%)	2030		18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-54 - Surplus, Curtailment and Constraint for Solar non-priority for Node Ricetown

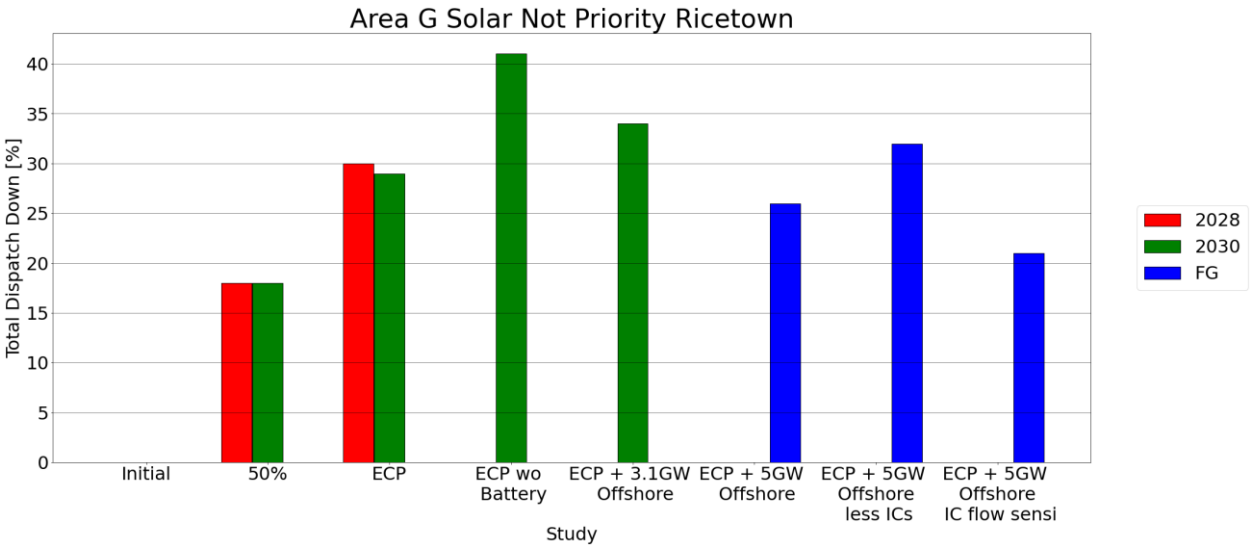

Figure 2-36 - Total Dispatch Down for Solar not priority for Node Ricetown

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	63	
Installed Capacity (MW)	2030	63	63
Available Energy (GWh)	2028	81	
Available Energy (GWh)	2030	81	81
Generation (GWh)	2028	56	
Generation (GWh)	2030	57	53
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 2-55 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Ricetown

2.17 Shankill

Figure 2-37 - Location of node Shankill

Generator	SO	Capacity	Type	Status
Carrickallen Wind Farm	DSO	22.0	wind priority	connected
Mountain Lodge (2)	DSO	3.0	wind uncontrolled	connected
Liffey Autoproduction Project	DSO	1.6	wind uncontrolled	connected
Liffey Autoproduction Project (extension)	DSO	1.417	wind uncontrolled	connected
Carrickabane Solar Farm	DSO	4.0	solar not priority	due to connected
Drumman Solar Farm	DSO	7.0	solar not priority	due to connected

Table 2-56 - Generation Included in Study for Node Shankill

The solar not priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		6	11					
Installed Capacity (MW)	2030		6	11	11	11			
Installed Capacity (MW)	FG						11	11	11
Available Energy (GWh)	2028		7	14					
Available Energy (GWh)	2030		7	14	14	14			
Available Energy (GWh)	FG						14	14	14
Generation (GWh)	2028		6	10					
Generation (GWh)	2030		6	10	8	9			
Generation (GWh)	FG						10	10	11
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		1 %	1 %					
Constraint (%)	2030		1 %	1 %	3 %	0 %			
Constraint (%)	FG						2 %	1 %	1 %
Total Dispatch Down (%)	2028		18 %	30 %					
Total Dispatch Down (%)	2030		18 %	29 %	41 %	34 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-57 - Surplus, Curtailment and Constraint for Solar non-priority for Node Shankill

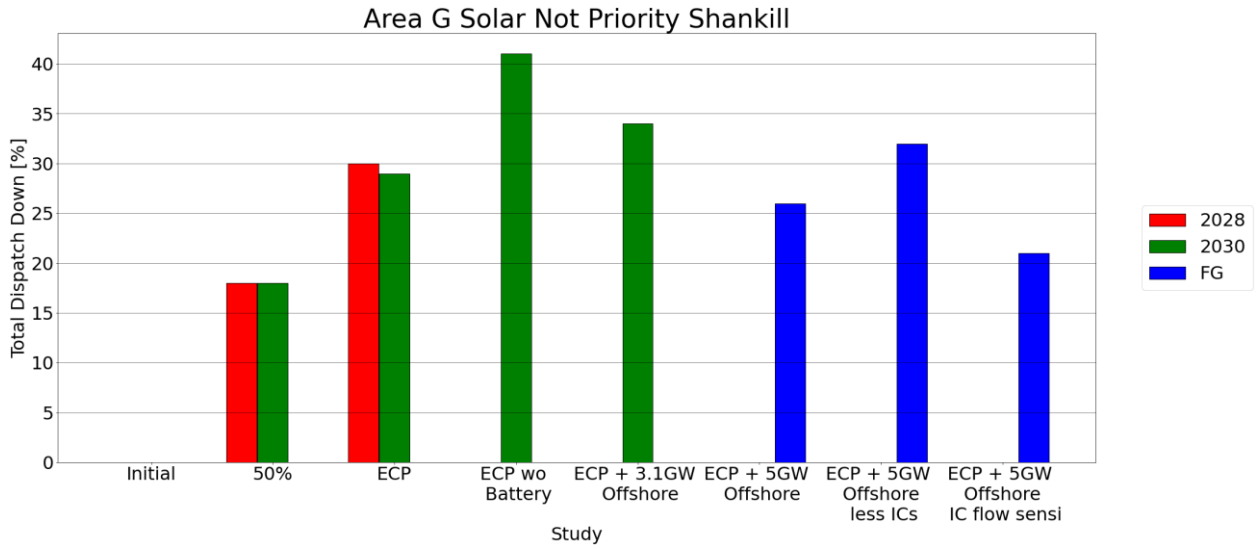

Figure 2-38 - Total Dispatch Down for Solar not priority for Node Shankill

The solar not priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	11	
Installed Capacity (MW)	2030	11	11
Available Energy (GWh)	2028	14	
Available Energy (GWh)	2030	14	14
Generation (GWh)	2028	10	
Generation (GWh)	2030	10	9
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	1 %	
Constraint (%)	2030	1 %	0 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	34 %

Table 2-58 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Shankill

The wind priority data is given in the following table.

Area G	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	22	22	22					
Installed Capacity (MW)	2030	22	22	22	22	22			
Installed Capacity (MW)	FG						22	22	22
Available Energy (GWh)	2028	69	69	69					
Available Energy (GWh)	2030	69	69	69	69	69			
Available Energy (GWh)	FG						69	69	69
Generation (GWh)	2028	62	63	62					
Generation (GWh)	2030	64	65	65	63	64			
Generation (GWh)	FG						65	65	67
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	9 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailment (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	10 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-59 - Surplus, Curtailment and Constraint for Wind priority for Node Shankill

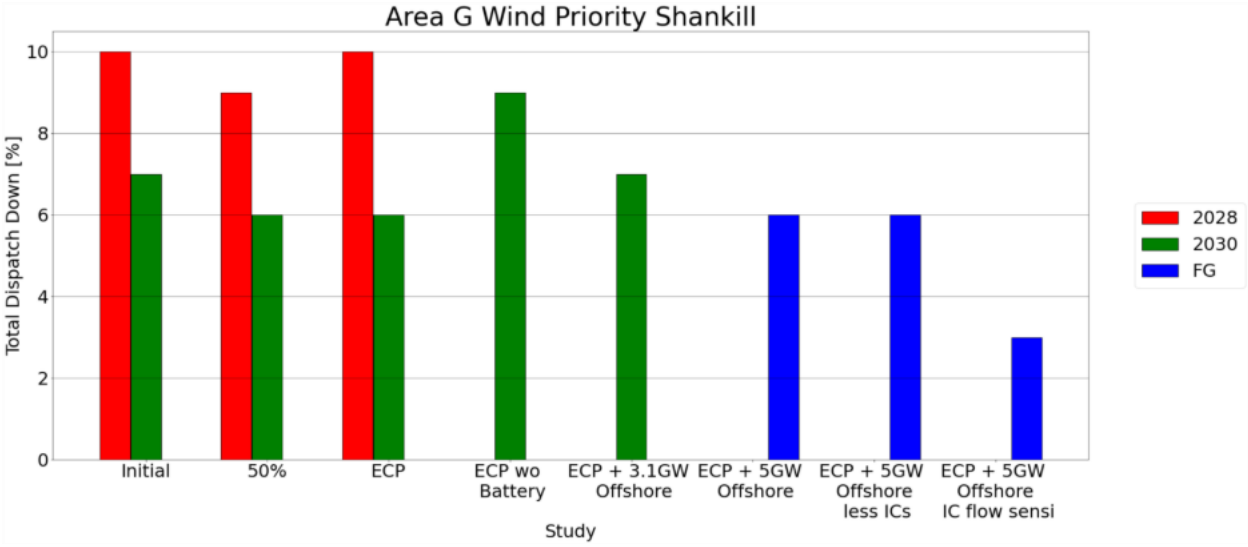

Figure 2-39 - Total Dispatch Down for Wind priority for Node Shankill

The wind priority with sensitivity data is given in the following table.

Area G	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	22	
Installed Capacity (MW)	2030	22	22
Available Energy (GWh)	2028	69	
Available Energy (GWh)	2030	69	69
Generation (GWh)	2028	61	
Generation (GWh)	2030	63	63
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	8 %	8 %

Table 2-60 - Surplus, Curtailment and Constraint for Wind Priority with sensitivity for Node Shankill