

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

Results for Area A for Solar and Wind

Version 1.0

11/02/26



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

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# 1 Overview for Area A



Figure 1-1 Network Map for Area A

Area A, in the northwest of the country includes a mix of wind and solar generation. The counties that are covered in this area include Donegal and Sligo (partial). The transmission network in Area A and the surrounding area is shown in Figure 1-1. The 220 kV circuits are shown in green and the 110 kV circuits in black. 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 A. For information on the study assumptions, methodology and Ireland summary report please refer to the ECP webpage<sup>1</sup>. This document contains two main sections:

Section 1: An overview of the estimated surplus, curtailment, and constraint values for Area A 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 are highly dependent on the study assumptions, which are described in the Assumptions Document.

Section 2: Area A 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 constraints for every node in Area A.

## 1.2 Key Summary

At times of high renewable generation, there is a net export of power from Area A, and the dominant power flows tend to be from Area A towards the load centres on the east coast and the interconnectors. These flow patterns are relevant when seeking to understand constraint apportionment in the simulation.

Constraints in Area A 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 A. Also, the power flowing out of Area A meets and joins with power flows from other areas, as the power flows towards east region.

The Area A is a wind heavy region with a significant volume of wind generation with around 1.2 GW of installed wind capacity in the full ECP study. Together in Area A, B and C there is 3.1 GW of wind installed. During times of high wind scenario, a major portion of the power flowing through Area A flows into the Srananagh 220 kV station in Area B. This is additional to the power flow from the Area B circuits. The power flow from Cathaleen's Falls to Srananagh becomes one of the major bottlenecks in this area. Furthermore, in Area A, loss of any parallel sections from Letterkenny station to Srananagh station can potentially overload the parallel 110kV circuits during high power flow.

With the Area B North region, the contingency created by loss of either side of the 110kV lines from Bellacorick overloading the other becomes a significant issue.

The lines overloading in Area A and north of Area B cause generators to be dispatched down in Area A, north of Area B. During the high-RES scenarios, the power from each of these areas tends to flow onto the 220 kV circuits, and then towards the load centres in Dublin. Issues in the power flow path can cause dispatch down in Area A and B north.

Further, contingency on 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.

The generation from the north of Area B is also pooled into the Srananagh stations. Hence the bottleneck around Srananagh is effectively shared between the generators in Area A and north of Area B. With the Future Grid scenario, this region gets further benefit from the additional network reinforcements.

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

## 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 A in the “ECP” scenario is given in Table 1-1. Installed and controllable energy in Area A is given in Table 1-2 for solar and Table 1-3 for wind.

Node	SO	Status	Solar	Wind
<b>Ardnagappary</b>	DSO	connected		18
<b>Ardnagappary</b>	DSO	due to connected		9
<b>Ardnagappary</b>	DSO	connected		5
<b>Arigna</b>	DSO	due to connected		2
<b>Arigna</b>	DSO	connected		16
<b>Binbane</b>	DSO	connected		24
<b>Binbane</b>	DSO	due to connected		20
<b>Binbane</b>	DSO	connected		36
<b>Binbane</b>	DSO	connected		5
<b>Cathaleen'S Fall</b>	DSO	due to connected		38
<b>Cathaleen'S Fall</b>	DSO	connected		18
<b>Cathaleen'S Fall</b>	DSO	connected		5
<b>Corderry</b>	DSO	due to connected		37
<b>Corderry</b>	DSO	connected		46
<b>Corderry</b>	DSO	connected		17
<b>Croaghonagh</b>	TSO	connected		138
<b>Garvagh</b>	TSO	due to connected	40	
<b>Garvagh</b>	DSO	connected		34
<b>Garvagh</b>	TSO	connected		48
<b>Golagh</b>	TSO	due to connected		48
<b>Golagh</b>	TSO	connected		12
<b>Gortawee</b>	DSO	due to connected		4
<b>Gortawee</b>	DSO	connected		3
<b>Lenalea</b>	TSO	connected		30
<b>Lenalea</b>	TSO	due to connected		72
<b>Letterkenny</b>	DSO	due to connected		20
<b>Letterkenny</b>	TSO	due to connected		150
<b>Letterkenny</b>	DSO	connected		40
<b>Meentycat</b>	TSO	connected		85
<b>Mulreavy</b>	TSO	connected		95
<b>Sorne Hill</b>	DSO	connected		48
<b>Sorne Hill</b>	DSO	connected		14

<b>Tievebrack</b>	TSO	due to connected		30
<b>Trillick</b>	DSO	connected		31
<b>Trillick</b>	DSO	connected		14
<b>Total</b>			40	1212

*Table 1-1 Wind and Solar Generation Summary (MW) in Area A for Generation Scenario “ECP”*

Solar	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
<b>Installed Ireland (MW)</b>	9312	9312	9312	9312	9312
<b>Installed Area A (MW)</b>	40	40	40	40	40
<b>Installed Controllable Area A (MW)</b>	40	40	40	40	40
<b>Available Controllable Area A (GWh)</b>	42	42	42	42	42

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

Wind	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
<b>Installed Ireland (MW)</b>	8197	11271	13197	13197	13197
<b>Installed Area A (MW)</b>	1210	1210	1210	1210	1210
<b>Installed Controllable Area A (MW)</b>	1078	1078	1078	1078	1078
<b>Available Controllable Area A (GWh)</b>	3119	3119	3119	3119	3119

*Table 1-3 Installed MW and Available GWh for Area A - 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.

It was observed that the PLEXOS internal logic was constantly choosing the same set of generators to dispatch down with respect to multiple contingencies in the area, thus identifying a need to share the constraints. The contingencies and overloaded lines associated with the area are included in All Island Summary report.

Analysis of Area A identified a constraint subgroup for solar and wind generation that are affected, they are north of Area B (which is a path following the general power flow) and north of Area G (Gortawee node), therefore details of these has also been included. The subgroup nodes are given in Table 1-4. The individual node level dispatch down is given in Section 2.

Subgroup	Nodes
A & B North	Ardnagappary
	Arigna
	Binbane
	Cathaleen's Fall
	Corderry
	Croaghonagh
	Garvagh
	Golagh
	Lenalea
	Letterkenny
	Meentycat
	Mulreavy
	Sorne Hill
	Tievebrack
Trillick	
G North	Gortawee

*Table 1-4 Area A generators nodes and their subgroups*



Figure 1-2 Subgroups A & B North and G North (subgroups outlined by blue dashed line)

## 1.5 Area A - Summary Results

The Total Dispatch Down results for Area A 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 A (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 A & B North

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

Area A (A, B 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		20	40					
Installed Capacity (MW)	2030		20	40	40	40			
Installed Capacity (MW)	FG						40	40	40
Available Energy (GWh)	2028		21	42					
Available Energy (GWh)	2030		21	42	42	42			
Available Energy (GWh)	FG						42	42	42
Generation (GWh)	2028		17	29					
Generation (GWh)	2030		17	29	25	27			
Generation (GWh)	FG						31	29	33
Surplus (%)	2028		12 %	22 %					
Surplus (%)	2030		14 %	24 %	33 %	30 %			
Surplus (%)	FG						22 %	28 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	3 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		5 %	4 %					
Constraint (%)	2030		4 %	3 %	3 %	2 %			
Constraint (%)	FG						2 %	1 %	2 %
Total Dispatch Down (%)	2028		21 %	32 %					
Total Dispatch Down (%)	2030		21 %	31 %	41 %	36 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 1-5 Surplus, Curtailement and Constraint for Solar Non-Priority in Area A (A, B North)

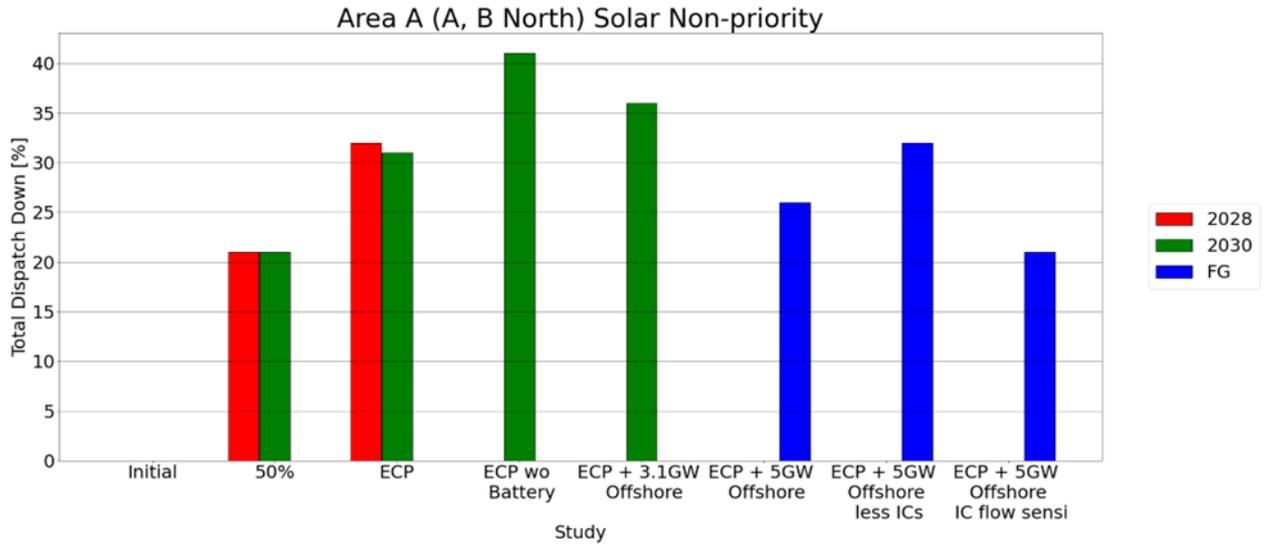


Figure 1-3 Results Solar Non-Priority Area A (A, B North)

Area A (A, B North)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	40	
Installed Capacity (MW)	2030	40	40
Available Energy (GWh)	2028	42	
Available Energy (GWh)	2030	42	42
Generation (GWh)	2028	29	
Generation (GWh)	2030	29	27
Surplus (%)	2028	22 %	
Surplus (%)	2030	24 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	3 %	4 %
Constraint (%)	2028	4 %	
Constraint (%)	2030	3 %	2 %
Total Dispatch Down (%)	2028	32 %	
Total Dispatch Down (%)	2030	31 %	36 %

Table 1-6 Surplus, Curtailment and Constraint for Solar Non-Priority with sensitivity in Area A (A, B North)

### 1.5.2 Non-priority Wind Results for A & B North

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

Area A (A, B 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
<b>Installed Capacity (MW)</b>	2028	280	474	668					
<b>Installed Capacity (MW)</b>	2030	280	474	668	668	668			
<b>Installed Capacity (MW)</b>	FG						668	668	668
<b>Available Energy (GWh)</b>	2028	815	1379	1944					
<b>Available Energy (GWh)</b>	2030	810	1372	1933	1933	1933			
<b>Available Energy (GWh)</b>	FG						1933	1933	1933
<b>Generation (GWh)</b>	2028	469	731	886					
<b>Generation (GWh)</b>	2030	546	739	867	797	784			
<b>Generation (GWh)</b>	FG						1020	989	1172
<b>Surplus (%)</b>	2028	16 %	20 %	26 %					
<b>Surplus (%)</b>	2030	12 %	22 %	28 %	33 %	40 %			
<b>Surplus (%)</b>	FG						32 %	37 %	21 %
<b>Curtailement (%)</b>	2028	6 %	5 %	5 %					
<b>Curtailement (%)</b>	2030	5 %	3 %	3 %	4 %	3 %			
<b>Curtailement (%)</b>	FG						2 %	2 %	2 %
<b>Constraint (%)</b>	2028	20 %	22 %	24 %					
<b>Constraint (%)</b>	2030	16 %	21 %	24 %	22 %	17 %			
<b>Constraint (%)</b>	FG						14 %	10 %	17 %
<b>Total Dispatch Down (%)</b>	2028	42 %	47 %	54 %					
<b>Total Dispatch Down (%)</b>	2030	33 %	46 %	55 %	59 %	59 %			
<b>Total Dispatch Down (%)</b>	FG						47 %	49 %	39 %

Table 1-7 Surplus, Curtailement and Constraint for Wind Non-Priority in Area A (A, B North)

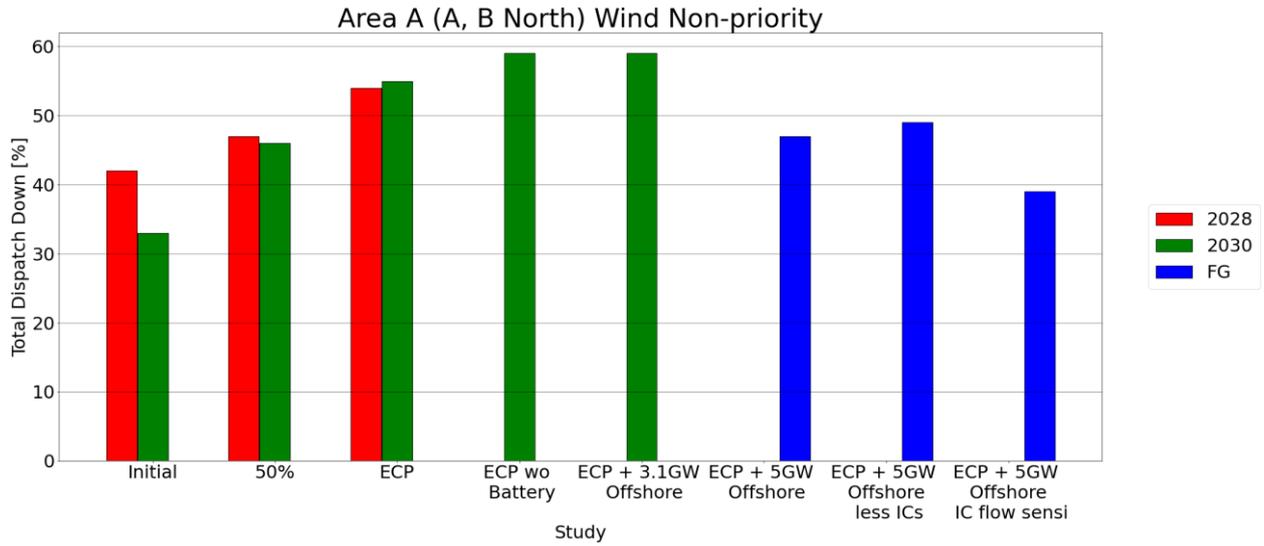


Figure 1-4 Results Wind Non-Priority in Area A (A, B North)

Area A (A, B North)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	668	
Installed Capacity (MW)	2030	668	668
Available Energy (GWh)	2028	1944	
Available Energy (GWh)	2030	1933	1933
Generation (GWh)	2028	1027	
Generation (GWh)	2030	1011	884
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 1-8 Surplus, Curtailement and Constraint for Wind Non-Priority with sensitivity in Area A (A, B North)

### 1.5.3 Priority Wind Results for A & B North

The wind priority data is given in the following table.

Area A (A, B 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	406	406	406					
Installed Capacity (MW)	2030	406	406	406	406	406			
Installed Capacity (MW)	FG						406	406	406
Available Energy (GWh)	2028	1181	1181	1181					
Available Energy (GWh)	2030	1174	1174	1174	1174	1174			
Available Energy (GWh)	FG						1174	1174	1174
Generation (GWh)	2028	1067	1074	1066					
Generation (GWh)	2030	1097	1108	1104	1075	1091			
Generation (GWh)	FG						1109	1111	1141
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	8 %	7 %			
Curtailement (%)	FG						6 %	5 %	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 %	8 %	7 %			
Total Dispatch Down (%)	FG						6 %	5 %	3 %

Table 1-9 Surplus, Curtailement and Constraint for Wind Priority in Area A (A, B North)

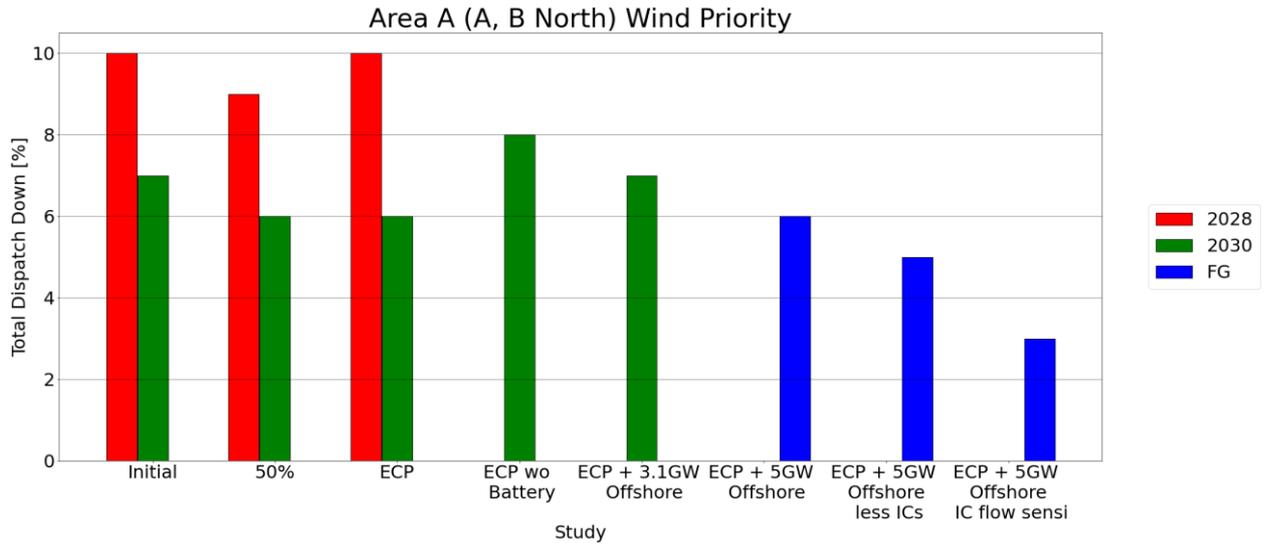


Figure 1-5 Results Wind Priority Area A (A, B North)

Area A (A, B North)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	406	
Installed Capacity (MW)	2030	406	406
Available Energy (GWh)	2028	1181	
Available Energy (GWh)	2030	1174	1174
Generation (GWh)	2028	874	
Generation (GWh)	2030	906	955
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 1-10 Surplus, Curtailement and Constraint for Wind Priority with sensitivity in Area A (A, B North)

### 1.5.4 Non-priority Wind Results for G North

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

Area A (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		2	4					
Installed Capacity (MW)	2030		2	4	4	4			
Installed Capacity (MW)	FG						4	4	4
Available Energy (GWh)	2028		6	12					
Available Energy (GWh)	2030		6	12	12	12			
Available Energy (GWh)	FG						12	12	12
Generation (GWh)	2028		4	8					
Generation (GWh)	2030		4	8	6	7			
Generation (GWh)	FG						8	7	9
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		4 %	3 %					
Constraint (%)	2030		4 %	3 %	11 %	1 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028		29 %	34 %					
Total Dispatch Down (%)	2030		29 %	34 %	48 %	44 %			
Total Dispatch Down (%)	FG						34 %	39 %	23 %

Table 1-11 Surplus, Curtailement and Constraint for Wind Non-priority in Area A (G North)

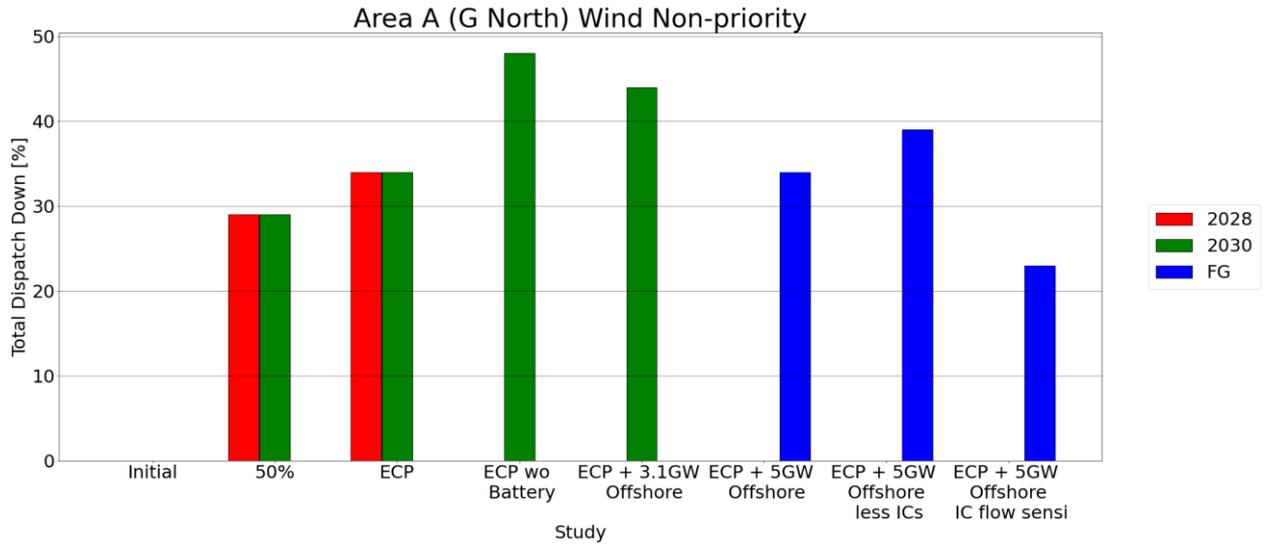


Figure 1-6 Results Wind Non-priority Area A (G North)

Area A (G North)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	4	
Installed Capacity (MW)	2030	4	4
Available Energy (GWh)	2028	12	
Available Energy (GWh)	2030	12	12
Generation (GWh)	2028	8	
Generation (GWh)	2030	8	7
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	33 %	
Total Dispatch Down (%)	2030	33 %	43 %

Table 1-12 Surplus, Curtailment and Constraint for Wind Non-priority with sensitivity in Area A (G North)

## 2 Area A Node Results

This section presents results for 16 nodes in Area A.

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 Ardnagappary, the below table identified which are Grandfathering and Pro-rata, the entire rest of this document is structured 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 Ardnagappary

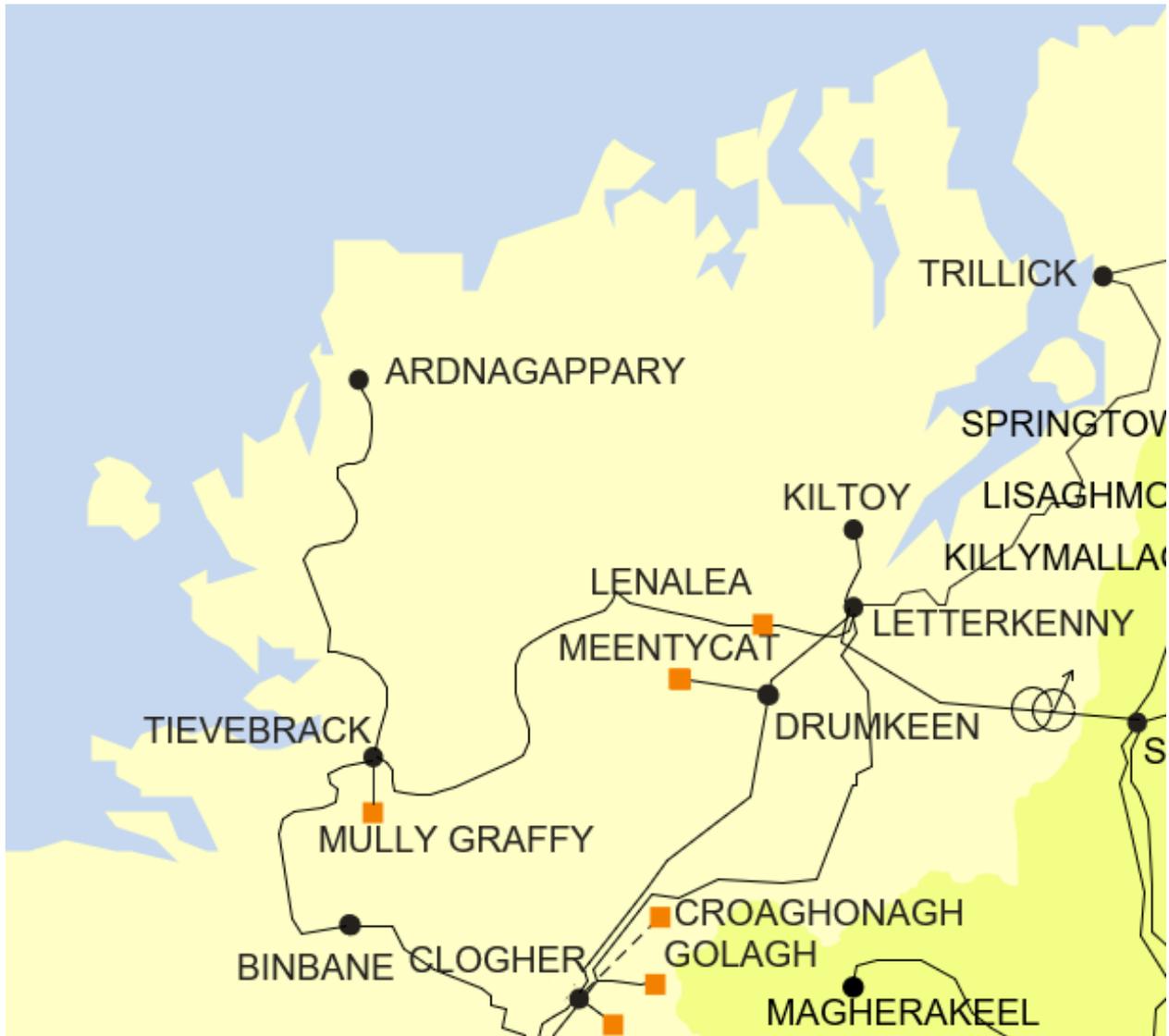


Figure 2-1- Location of node Ardnagappary

Generator	SO	Capacity	Type	Status
Cronalaght (1)	DSO	4.98	wind uncontrolled	connected
Cronalaght (2)	DSO	17.96	wind not priority	connected
Cronalaght 3 Wind Farm	DSO	9.0	wind not priority	due to connected

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

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

Area A	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
<b>Installed Capacity (MW)</b>	2028	18	22	27					
<b>Installed Capacity (MW)</b>	2030	18	22	27	27	27			
<b>Installed Capacity (MW)</b>	FG						27	27	27
<b>Available Energy (GWh)</b>	2028	52	65	78					
<b>Available Energy (GWh)</b>	2030	52	65	78	78	78			
<b>Available Energy (GWh)</b>	FG						78	78	78
<b>Generation (GWh)</b>	2028	30	35	36					
<b>Generation (GWh)</b>	2030	35	35	35	32	32			
<b>Generation (GWh)</b>	FG						41	40	47
<b>Surplus (%)</b>	2028	16 %	20 %	26 %					
<b>Surplus (%)</b>	2030	12 %	22 %	28 %	33 %	40 %			
<b>Surplus (%)</b>	FG						32 %	37 %	21 %
<b>Curtailement (%)</b>	2028	6 %	5 %	5 %					
<b>Curtailement (%)</b>	2030	5 %	3 %	3 %	4 %	3 %			
<b>Curtailement (%)</b>	FG						2 %	2 %	2 %
<b>Constraint (%)</b>	2028	20 %	22 %	24 %					
<b>Constraint (%)</b>	2030	16 %	21 %	24 %	22 %	17 %			
<b>Constraint (%)</b>	FG						14 %	10 %	17 %
<b>Total Dispatch Down (%)</b>	2028	42 %	47 %	54 %					
<b>Total Dispatch Down (%)</b>	2030	33 %	46 %	55 %	59 %	59 %			
<b>Total Dispatch Down (%)</b>	FG						47 %	49 %	39 %

Table 2-2- Surplus, Curtailement and Constraint for Wind non-priority for Node Ardnagappary

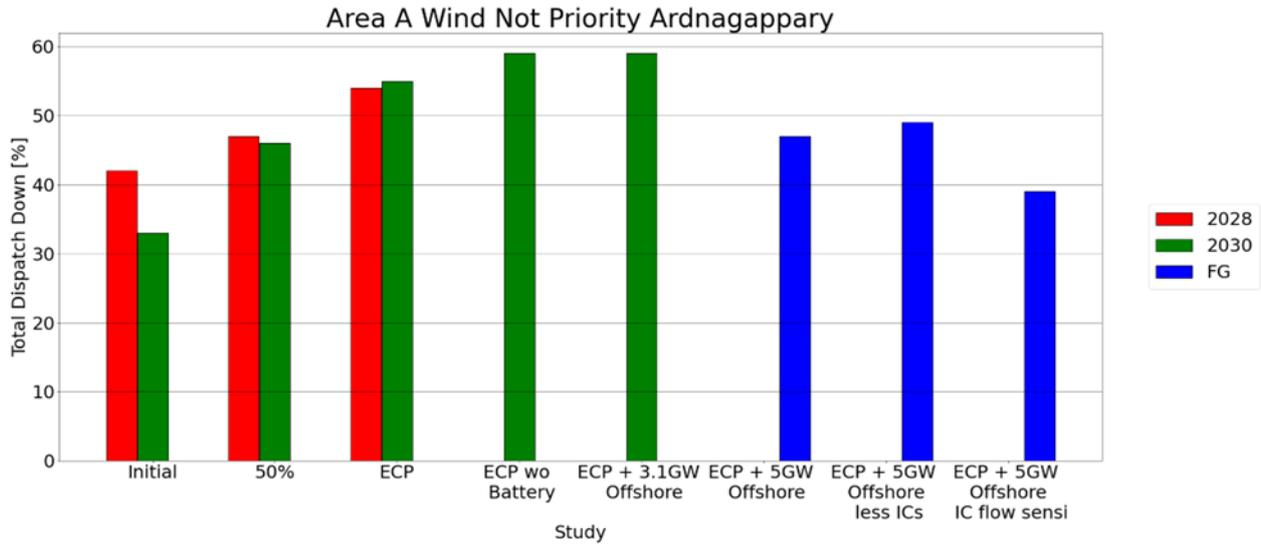


Figure 2-2- Total Dispatch Down for Wind not priority for Node Ardnagappary

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	27	
Installed Capacity (MW)	2030	27	27
Available Energy (GWh)	2028	78	
Available Energy (GWh)	2030	78	78
Generation (GWh)	2028	41	
Generation (GWh)	2030	41	36
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-3 - Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Ardnagappary

## 2.2 Arigna

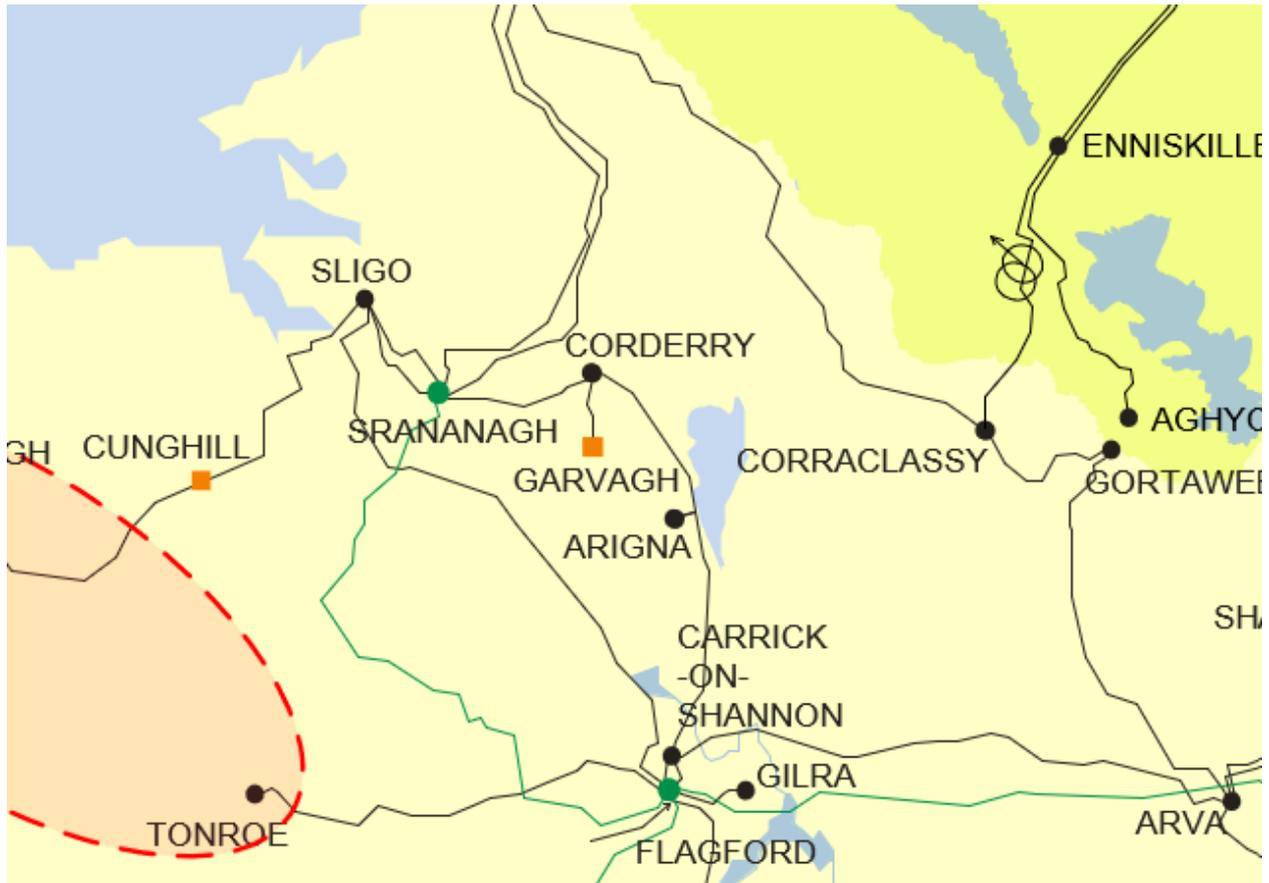


Figure 2-3 - Location of node Arigna

Generator	SO	Capacity	Type	Status
Kilronan (1)	DSO	5.0	wind uncontrolled	connected
Spion Kop (1)	DSO	1.2	wind uncontrolled	connected
Corrie Mountain (1)	DSO	4.8	wind uncontrolled	connected
Seltanaveeny (1)	DSO	4.6	wind uncontrolled	connected
Spion Kop Windfarm Ext. (Ext to DG978)	DSO	1.5	wind not priority	due to connected

Table 2-4 - Generation Included in Study for Node Arigna

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

Area A	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		1	2					
Installed Capacity (MW)	2030		1	2	2	2			
Installed Capacity (MW)	FG						2	2	2
Available Energy (GWh)	2028		2	4					
Available Energy (GWh)	2030		2	4	4	4			
Available Energy (GWh)	FG						4	4	4
Generation (GWh)	2028		1	2					
Generation (GWh)	2030		1	2	2	2			
Generation (GWh)	FG						2	2	3
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		22 %	24 %					
Constraint (%)	2030		21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028		47 %	54 %					
Total Dispatch Down (%)	2030		46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-5 - Surplus, Curtailement and Constraint for Wind non-priority for Node Arigna

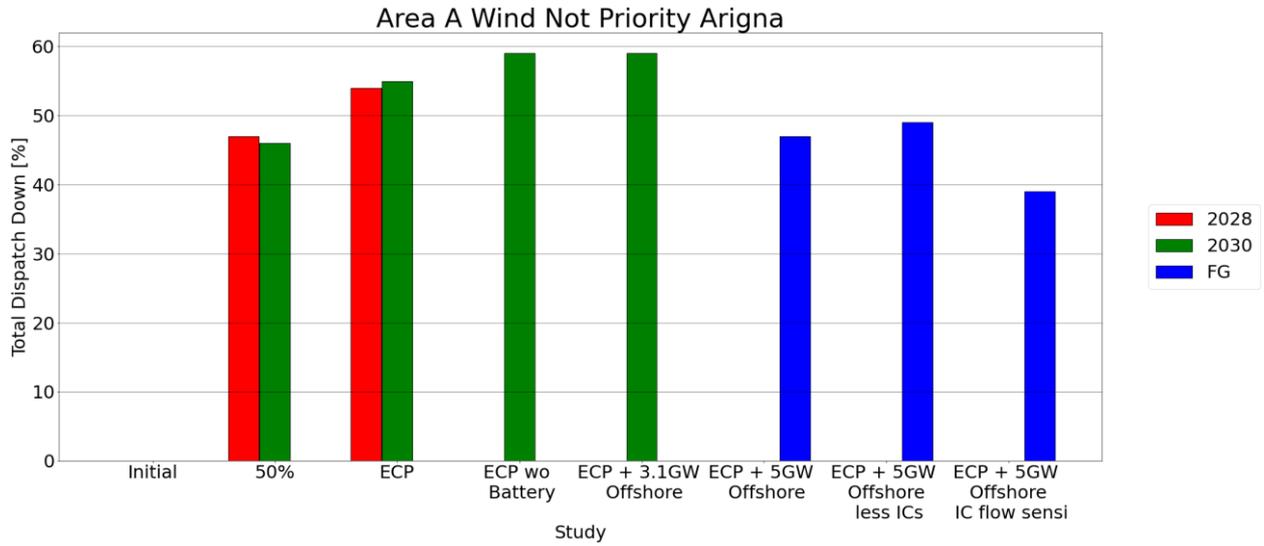


Figure 2-4- Total Dispatch Down for Wind not priority for Node Arigna

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	2	
Installed Capacity (MW)	2030	2	2
Available Energy (GWh)	2028	4	
Available Energy (GWh)	2030	4	4
Generation (GWh)	2028	2	
Generation (GWh)	2030	2	2
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-6 - Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Arigna

## 2.3 Binbane

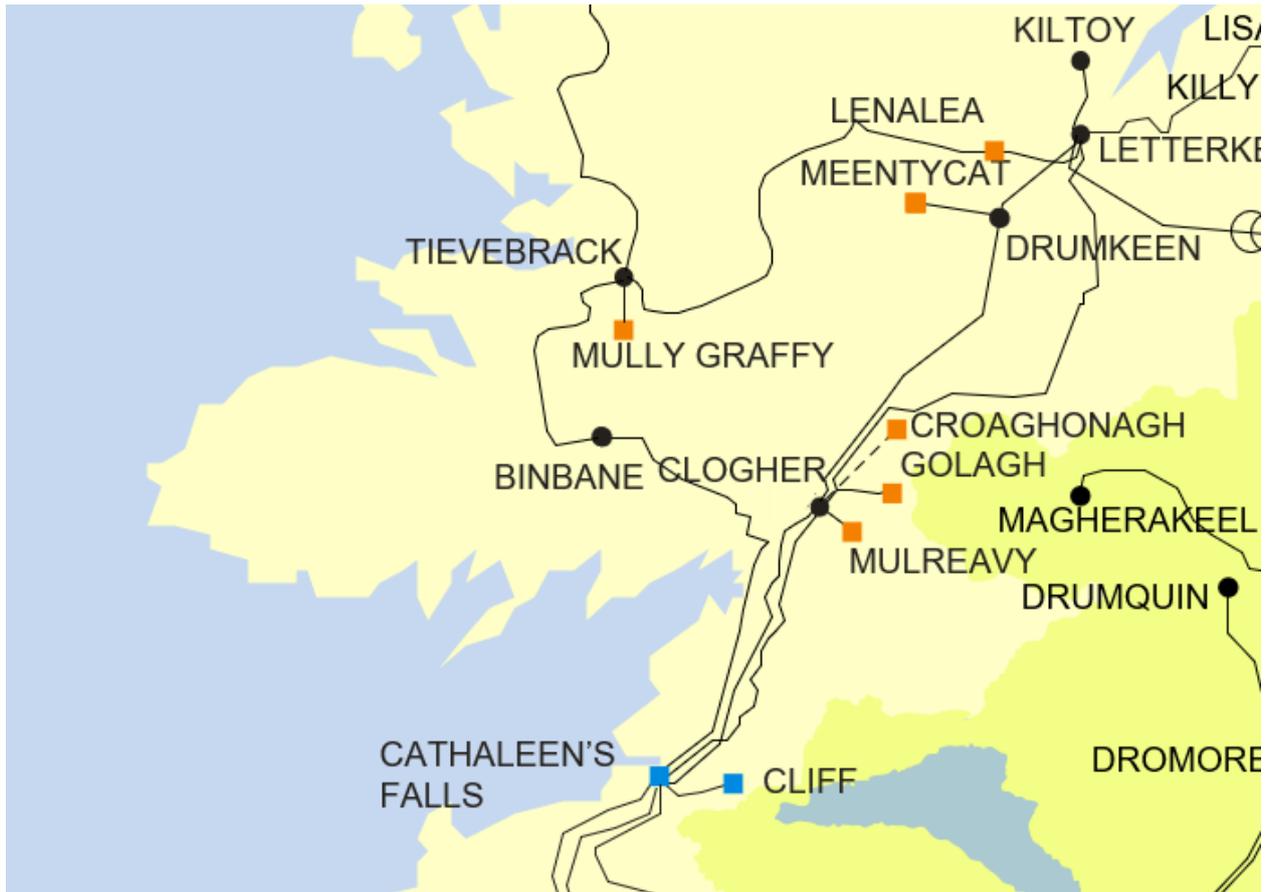


Figure 2-5 - Location of node Binbane

Generator	SO	Capacity	Type	Status
Killin Hill (1)	DSO	6.0	wind priority	connected
Corkermore (1)	DSO	9.99	wind priority	connected
Meenachullalan (1)	DSO	11.9	wind priority	connected
Loughderryduff (1)	DSO	7.65	wind priority	connected
Killybegs (1)	DSO	2.55	wind uncontrolled	connected
Shannagh (1) previously Kilcar	DSO	2.55	wind uncontrolled	connected
Clogheravaddy Wind Farm (Phase 2)	DSO	10.8	wind not priority	connected
Clogheravaddy Wind Farm (Phase 1)	DSO	9.2	wind not priority	connected
Meenachullalan (2)	DSO	1.9	wind not priority	due to connected
Clogheravaddy Wind Farm (Phase 3)	DSO	3.6	wind not priority	connected

<b>Bradán Wind Farm (Killybegs Community Wind Turbine)</b>	DSO	4.2	wind not priority	due to connected
<b>Altcor Wind Farm</b>	DSO	9.0	wind not priority	due to connected
<b>Meenawley</b>	DSO	4.5	wind not priority	due to connected

*Table 2-7- Generation Included in Study for Node Binbane*

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

Area A	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	24	33	43					
Installed Capacity (MW)	2030	24	33	43	43	43			
Installed Capacity (MW)	FG						43	43	43
Available Energy (GWh)	2028	69	97	126					
Available Energy (GWh)	2030	68	97	125	125	125			
Available Energy (GWh)	FG						125	125	125
Generation (GWh)	2028	40	52	57					
Generation (GWh)	2030	46	52	56	52	51			
Generation (GWh)	FG						66	64	76
Surplus (%)	2028	16 %	20 %	26 %					
Surplus (%)	2030	12 %	22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028	6 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	20 %	22 %	24 %					
Constraint (%)	2030	16 %	21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028	42 %	47 %	54 %					
Total Dispatch Down (%)	2030	33 %	46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-8- Surplus, Curtailement and Constraint for Wind non-priority for Node Binbane

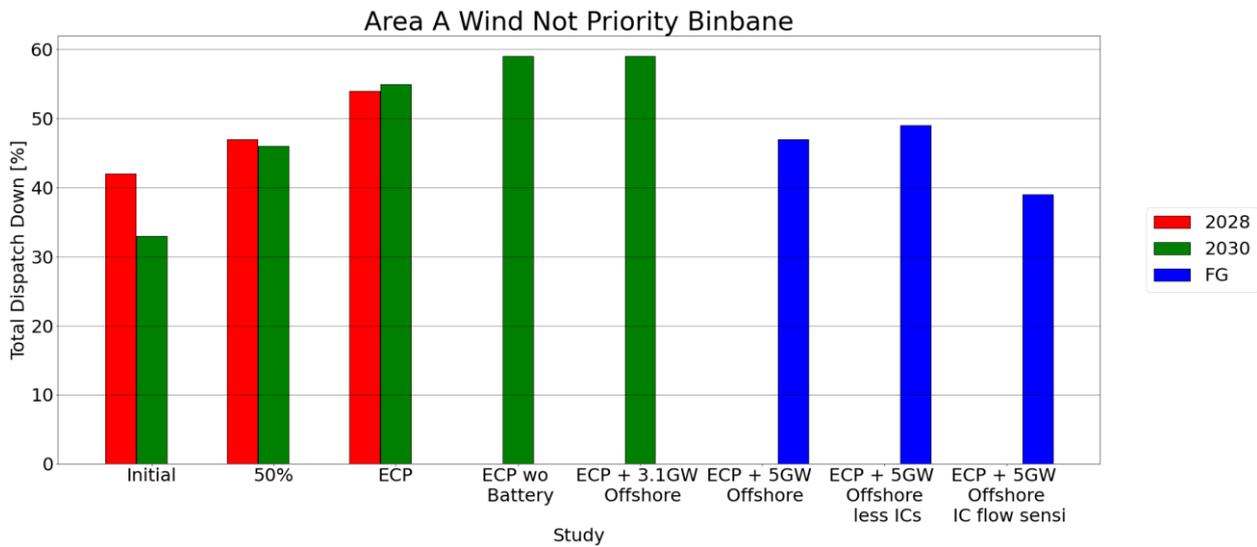


Figure 2-6- Total Dispatch Down for Wind not priority for Node Binbane

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	43	
Installed Capacity (MW)	2030	43	43
Available Energy (GWh)	2028	126	
Available Energy (GWh)	2030	125	125
Generation (GWh)	2028	66	
Generation (GWh)	2030	65	57
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-9 - Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Binbane

The wind priority data is given in the following table.

Area A	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	36	36	36					
Installed Capacity (MW)	2030	36	36	36	36	36			
Installed Capacity (MW)	FG						36	36	36
Available Energy (GWh)	2028	103	103	103					
Available Energy (GWh)	2030	103	103	103	103	103			
Available Energy (GWh)	FG						103	103	103
Generation (GWh)	2028	93	94	93					
Generation (GWh)	2030	96	97	97	94	96			
Generation (GWh)	FG						97	97	100
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	8 %	7 %			
Curtailement (%)	FG						6 %	5 %	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 %	8 %	7 %			
Total Dispatch Down (%)	FG						6 %	5 %	3 %

Table 2-10- Surplus, Curtailement and Constraint for Wind priority for Node Binbane

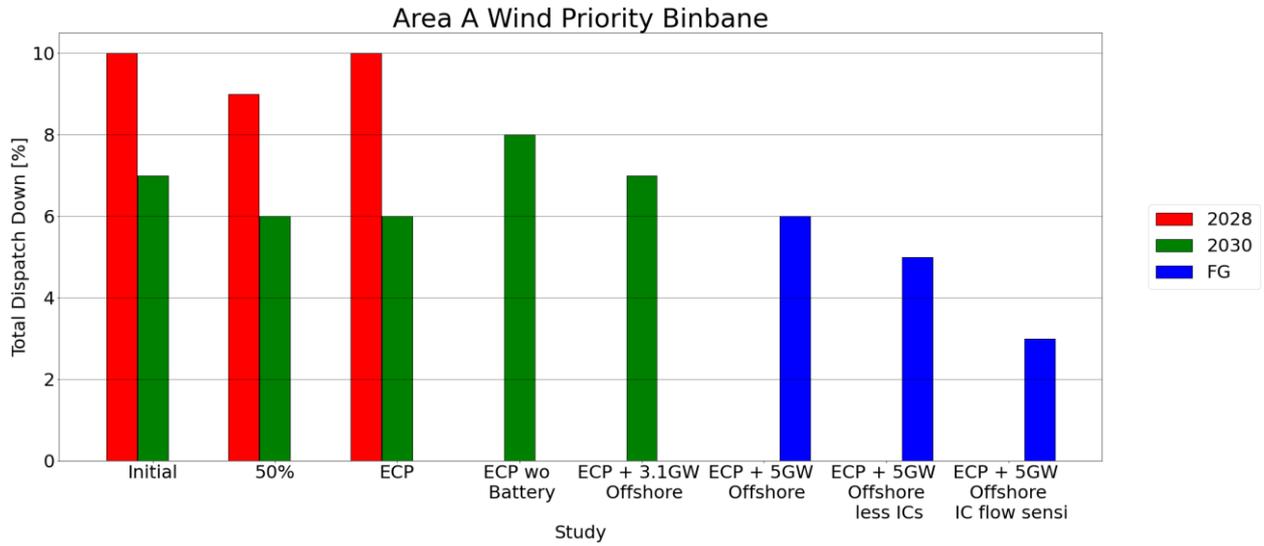


Figure 2-7- Total Dispatch Down for Wind priority for Node Binbane

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	36	
Installed Capacity (MW)	2030	36	36
Available Energy (GWh)	2028	103	
Available Energy (GWh)	2030	103	103
Generation (GWh)	2028	77	
Generation (GWh)	2030	79	84
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-11- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Binbane

## 2.4 Cathaleen's fall

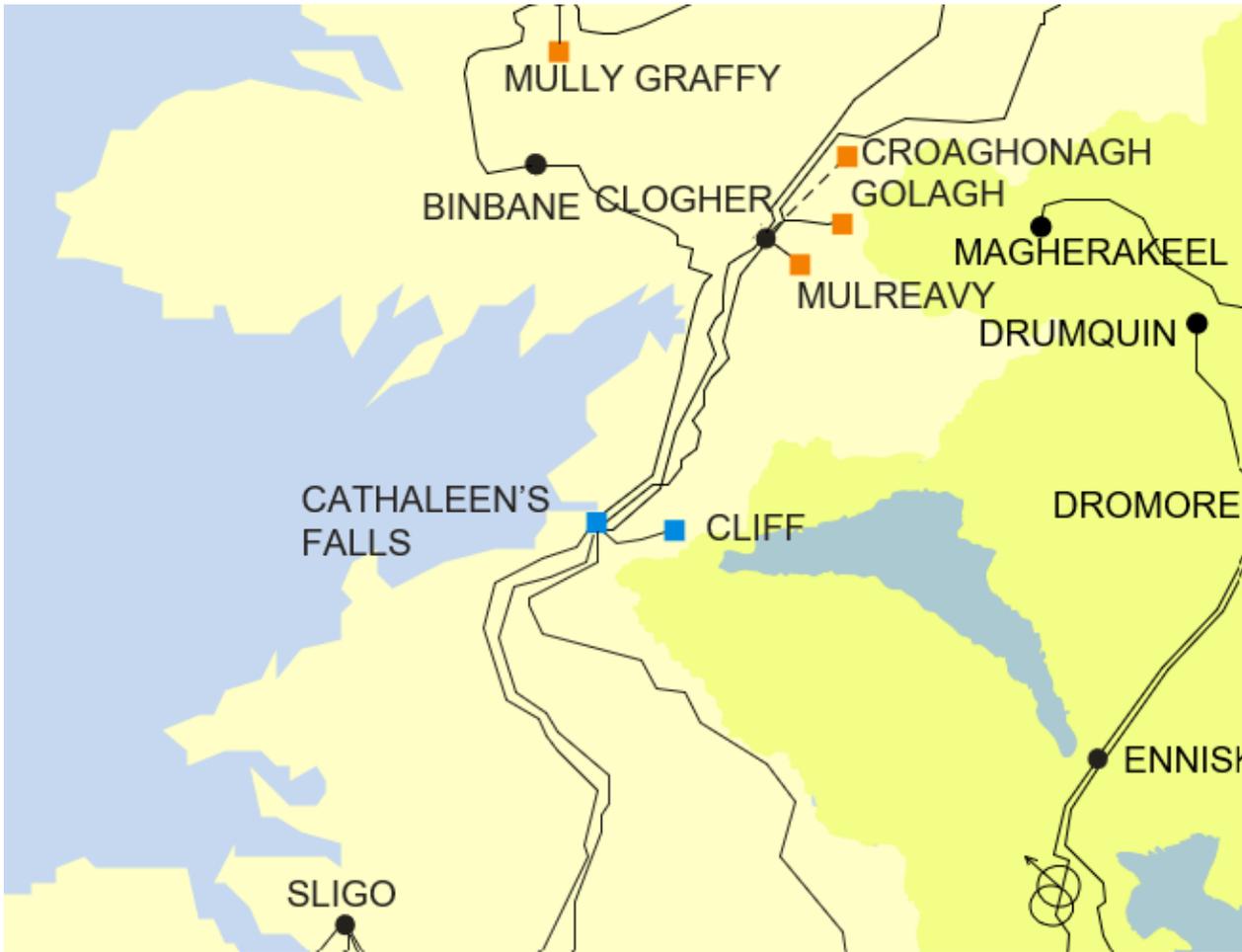


Figure 2-8- Location of node Cathaleen's fall

Generator	SO	Capacity	Type	Status
Meenadreen (1)	DSO	3.4	wind uncontrolled	connected
Anarget (1)	DSO	1.98	wind uncontrolled	connected
Spaddan (1)	DSO	17.5	wind priority	connected
Derrykillew Wind Farm	DSO	37.5	wind not priority	due to connected

Table 2-12- Generation Included in Study for Node Cathaleen's fall

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

Area A	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
<b>Installed Capacity (MW)</b>	2028		19	38					
<b>Installed Capacity (MW)</b>	2030		19	38	38	38			
<b>Installed Capacity (MW)</b>	FG						38	38	38
<b>Available Energy (GWh)</b>	2028		55	109					
<b>Available Energy (GWh)</b>	2030		54	108	108	108			
<b>Available Energy (GWh)</b>	FG						108	108	108
<b>Generation (GWh)</b>	2028		29	50					
<b>Generation (GWh)</b>	2030		29	49	45	44			
<b>Generation (GWh)</b>	FG						57	56	66
<b>Surplus (%)</b>	2028		20 %	26 %					
<b>Surplus (%)</b>	2030		22 %	28 %	33 %	40 %			
<b>Surplus (%)</b>	FG						32 %	37 %	21 %
<b>Curtailement (%)</b>	2028		5 %	5 %					
<b>Curtailement (%)</b>	2030		3 %	3 %	4 %	3 %			
<b>Curtailement (%)</b>	FG						2 %	2 %	2 %
<b>Constraint (%)</b>	2028		22 %	24 %					
<b>Constraint (%)</b>	2030		21 %	24 %	22 %	17 %			
<b>Constraint (%)</b>	FG						14 %	10 %	17 %
<b>Total Dispatch Down (%)</b>	2028		47 %	54 %					
<b>Total Dispatch Down (%)</b>	2030		46 %	55 %	59 %	59 %			
<b>Total Dispatch Down (%)</b>	FG						47 %	49 %	39 %

*Table 2-13- Surplus, Curtailement and Constraint for Wind non-priority for Node Cathaleen's fall*

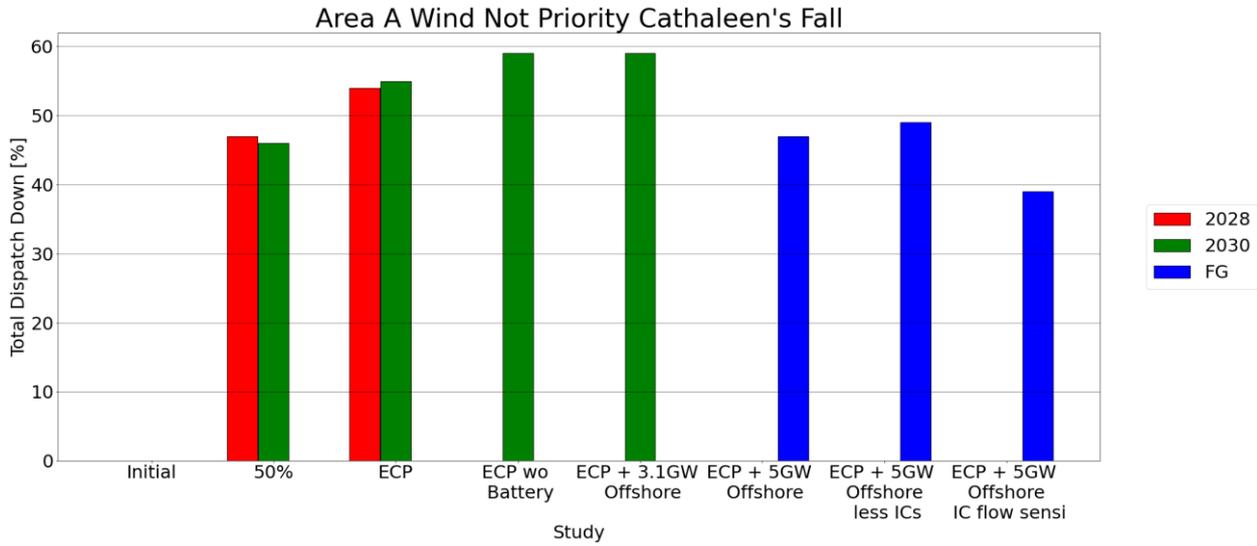


Figure 2-9- Total Dispatch Down for Wind not priority for Node Cathaleen's fall

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	38	
Installed Capacity (MW)	2030	38	38
Available Energy (GWh)	2028	109	
Available Energy (GWh)	2030	108	108
Generation (GWh)	2028	58	
Generation (GWh)	2030	57	50
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-14 - Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Cathaleen's fall

The wind priority data is given in the following table.

Area A	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
<b>Installed Capacity (MW)</b>	2028	18	18	18					
<b>Installed Capacity (MW)</b>	2030	18	18	18	18	18			
<b>Installed Capacity (MW)</b>	FG						18	18	18
<b>Available Energy (GWh)</b>	2028	51	51	51					
<b>Available Energy (GWh)</b>	2030	51	51	51	51	51			
<b>Available Energy (GWh)</b>	FG						51	51	51
<b>Generation (GWh)</b>	2028	46	46	46					
<b>Generation (GWh)</b>	2030	47	48	48	46	47			
<b>Generation (GWh)</b>	FG						48	48	49
<b>Surplus (%)</b>	2028	0 %	0 %	0 %					
<b>Surplus (%)</b>	2030	0 %	0 %	0 %	0 %	0 %			
<b>Surplus (%)</b>	FG						0 %	0 %	0 %
<b>Curtailement (%)</b>	2028	10 %	9 %	10 %					
<b>Curtailement (%)</b>	2030	7 %	6 %	6 %	8 %	7 %			
<b>Curtailement (%)</b>	FG						6 %	5 %	3 %
<b>Constraint (%)</b>	2028	0 %	0 %	0 %					
<b>Constraint (%)</b>	2030	0 %	0 %	0 %	0 %	0 %			
<b>Constraint (%)</b>	FG						0 %	0 %	0 %
<b>Total Dispatch Down (%)</b>	2028	10 %	9 %	10 %					
<b>Total Dispatch Down (%)</b>	2030	7 %	6 %	6 %	8 %	7 %			
<b>Total Dispatch Down (%)</b>	FG						6 %	5 %	3 %

Table 2-15- Surplus, Curtailement and Constraint for Wind priority for Node Cathaleen's fall

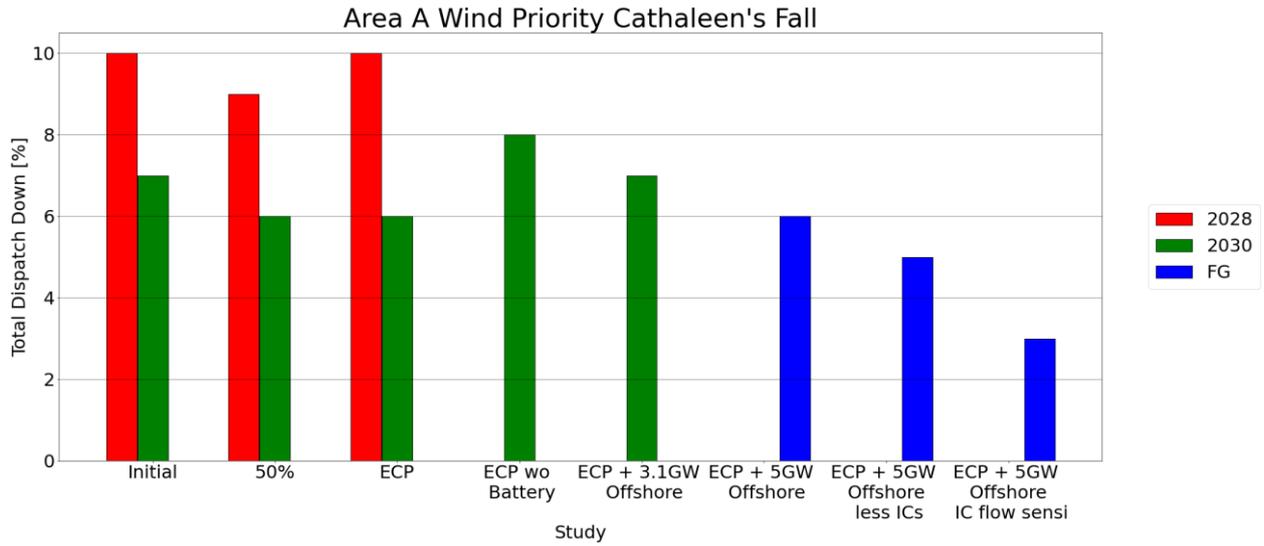


Figure 2-10- Total Dispatch Down for Wind priority for Node Cathaleen's fall

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	18	
Installed Capacity (MW)	2030	18	18
Available Energy (GWh)	2028	51	
Available Energy (GWh)	2030	51	51
Generation (GWh)	2028	38	
Generation (GWh)	2030	39	41
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-16- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Cathaleen's fall

## 2.5 Corderry

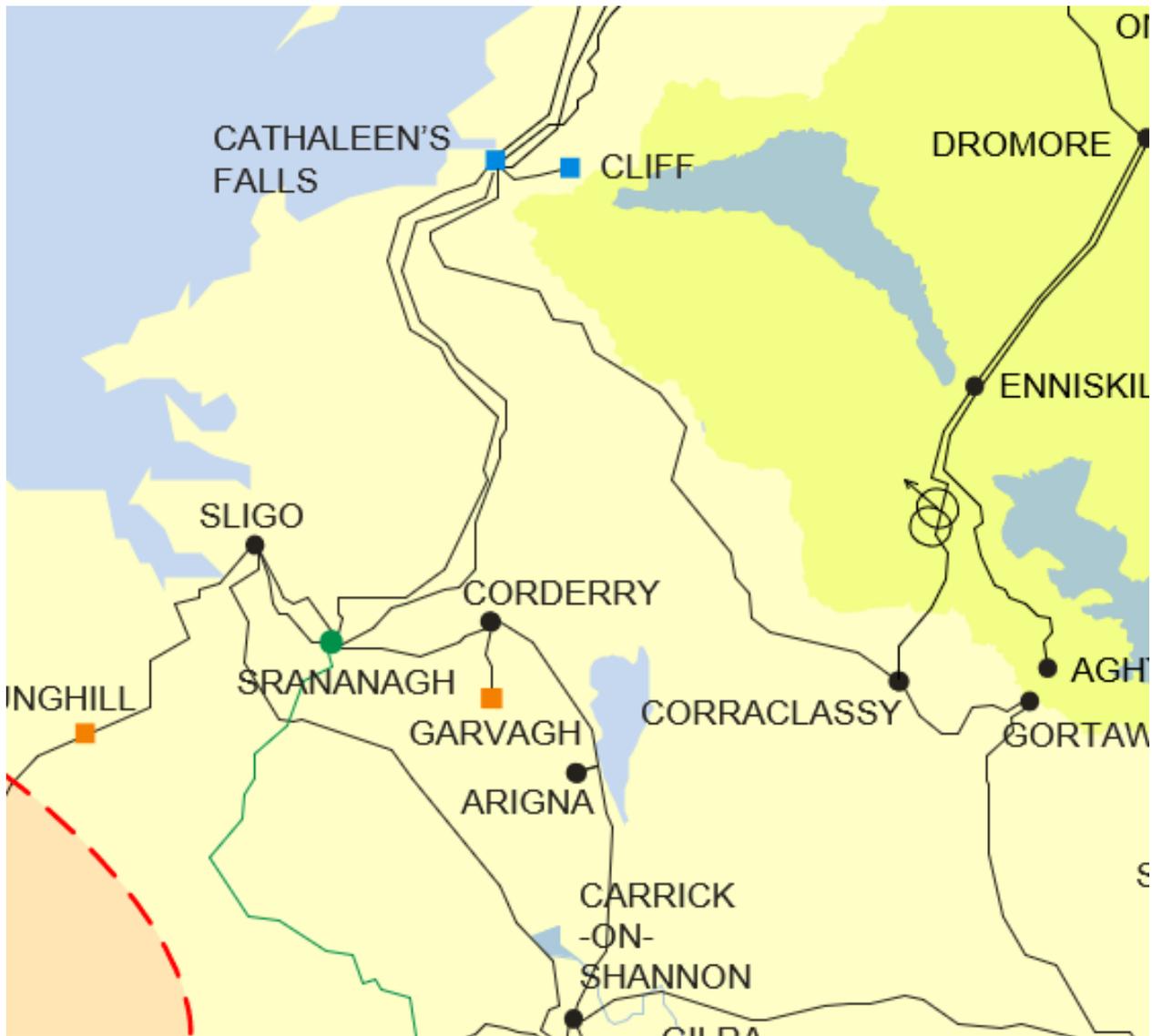


Figure 2-11- Location of node Corderry

Generator	SO	Capacity	Type	Status
Carrane Hill (1)	DSO	3.4	wind uncontrolled	connected
Geevagh (1)	DSO	4.95	wind uncontrolled	connected
Moneenatieve (1)	DSO	3.96	wind uncontrolled	connected
Altagowlan (1)	DSO	7.65	wind priority	connected
Black Banks (2)	DSO	6.8	wind priority	connected
Black Banks (1)	DSO	3.4	wind uncontrolled	connected

<b>Tullynamoyle 3 (Carrane Hill merged capacity)</b>	DSO	1.598	wind uncontrolled	connected
<b>Tullynamoyle (1)</b>	DSO	9.0	wind priority	connected
<b>Tullynamoyle 2 Wind Farm</b>	DSO	10.225	wind priority	connected
<b>Tullynamoyle Wind Farm 3 (Formerly Geevagh 2)</b>	DSO	11.98	wind priority	connected
<b>Tullynamoyle Wind Farm 5</b>	DSO	16.35	wind not priority	due to connected
<b>TULLYNAMOYLE WIND FARM 6</b>	DSO	20.2	wind not priority	due to connected

*Table 2-17- Generation Included in Study for Node Corderry*

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

Area A	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	26	37					
Installed Capacity (MW)	2030	16	26	37	37	37			
Installed Capacity (MW)	FG						37	37	37
Available Energy (GWh)	2028	48	77	106					
Available Energy (GWh)	2030	47	77	106	106	106			
Available Energy (GWh)	FG						106	106	106
Generation (GWh)	2028	27	41	48					
Generation (GWh)	2030	32	41	47	44	43			
Generation (GWh)	FG						56	54	64
Surplus (%)	2028	16 %	20 %	26 %					
Surplus (%)	2030	12 %	22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028	6 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	20 %	22 %	24 %					
Constraint (%)	2030	16 %	21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028	42 %	47 %	54 %					
Total Dispatch Down (%)	2030	33 %	46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-18- Surplus, Curtailement and Constraint for Wind non-priority for Node Corderry

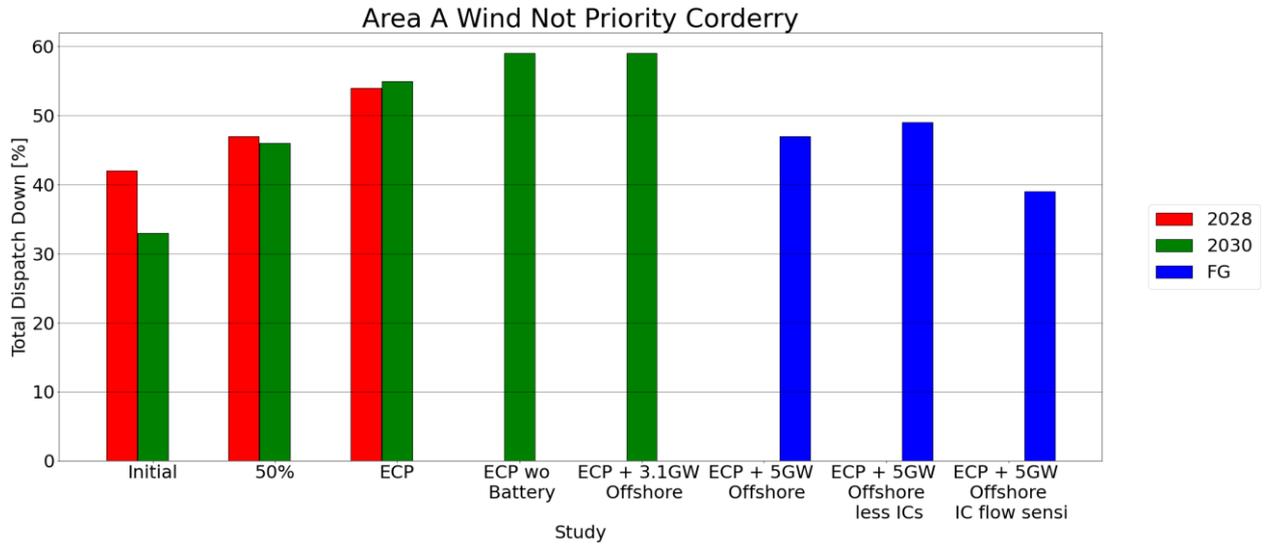


Figure 2-12- Total Dispatch Down for Wind not priority for Node Corderry

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	37	
Installed Capacity (MW)	2030	37	37
Available Energy (GWh)	2028	106	
Available Energy (GWh)	2030	106	106
Generation (GWh)	2028	56	
Generation (GWh)	2030	55	48
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-19- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Corderry

The wind priority data is given in the following table.

Area A	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	46	46	46					
Installed Capacity (MW)	2030	46	46	46	46	46			
Installed Capacity (MW)	FG						46	46	46
Available Energy (GWh)	2028	133	133	133					
Available Energy (GWh)	2030	132	132	132	132	132			
Available Energy (GWh)	FG						132	132	132
Generation (GWh)	2028	120	121	120					
Generation (GWh)	2030	123	125	124	121	123			
Generation (GWh)	FG						125	125	128
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	8 %	7 %			
Curtailement (%)	FG						6 %	5 %	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 %	8 %	7 %			
Total Dispatch Down (%)	FG						6 %	5 %	3 %

Table 2-20- Surplus, Curtailement and Constraint for Wind priority for Node Corderry

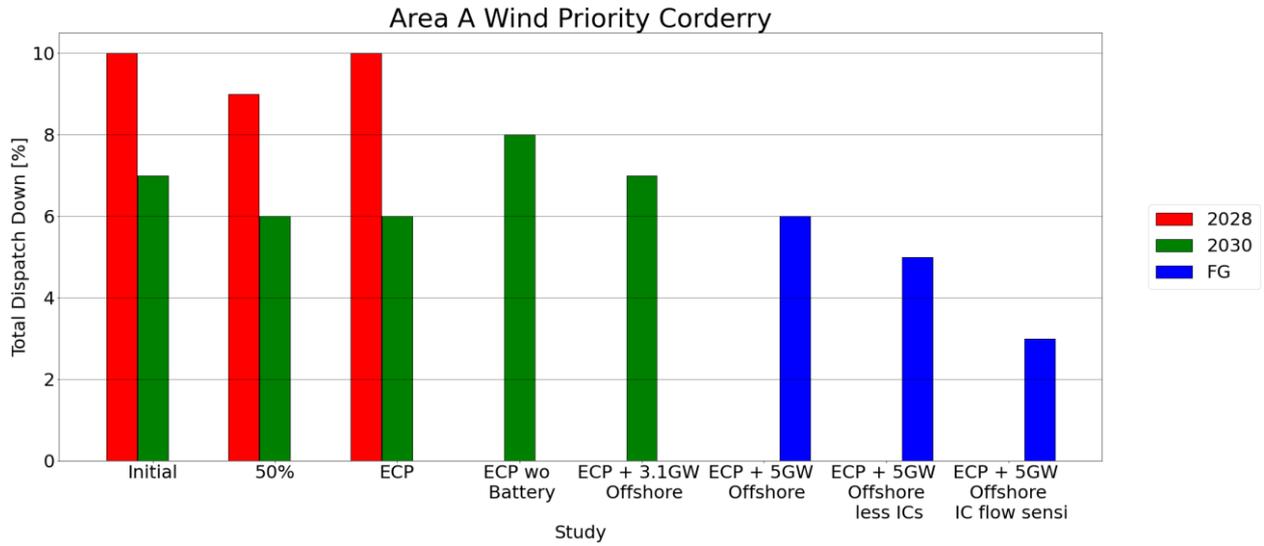


Figure 2-13- Total Dispatch Down for Wind priority for Node Corderry

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	46	
Installed Capacity (MW)	2030	46	46
Available Energy (GWh)	2028	133	
Available Energy (GWh)	2030	132	132
Generation (GWh)	2028	98	
Generation (GWh)	2030	102	107
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-21- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Corderry

## 2.6 Croaghonagh



Figure 2-14- Location of node Croaghonagh

Generator	SO	Capacity	Type	Status
<b>Croaghonagh 1 Windfarm (Merged with Carrickalangan)</b>	TSO	138.1	wind not priority	connected

Table 2-22- Generation Included in Study for Node Croaghonagh

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

Area A	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	138	138	138					
Installed Capacity (MW)	2030	138	138	138	138	138			
Installed Capacity (MW)	FG						138	138	138
Available Energy (GWh)	2028	402	402	402					
Available Energy (GWh)	2030	399	399	399	399	399			
Available Energy (GWh)	FG						399	399	399
Generation (GWh)	2028	231	213	183					
Generation (GWh)	2030	269	215	179	165	162			
Generation (GWh)	FG						211	204	242
Surplus (%)	2028	16 %	20 %	26 %					
Surplus (%)	2030	12 %	22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028	6 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	20 %	22 %	24 %					
Constraint (%)	2030	16 %	21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028	42 %	47 %	54 %					
Total Dispatch Down (%)	2030	33 %	46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-23- Surplus, Curtailement and Constraint for Wind non-priority for Node Croaghonagh

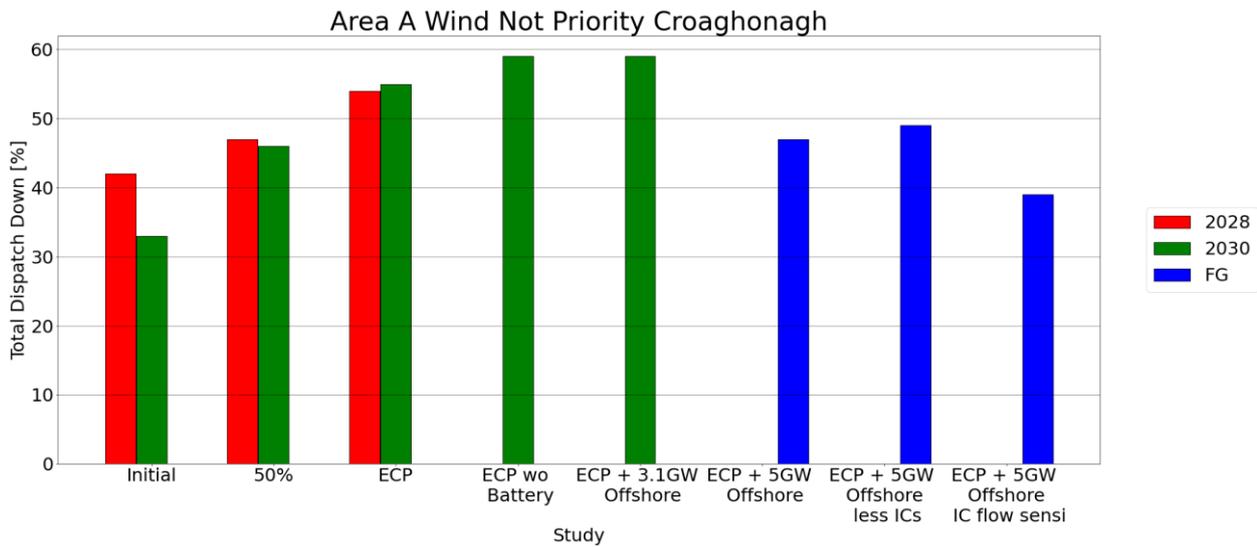


Figure 2-15- Total Dispatch Down for Wind not priority for Node Croaghonagh

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	138	
Installed Capacity (MW)	2030	138	138
Available Energy (GWh)	2028	402	
Available Energy (GWh)	2030	399	399
Generation (GWh)	2028	212	
Generation (GWh)	2030	209	183
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-24- Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Croaghonagh

## 2.7 Garvagh

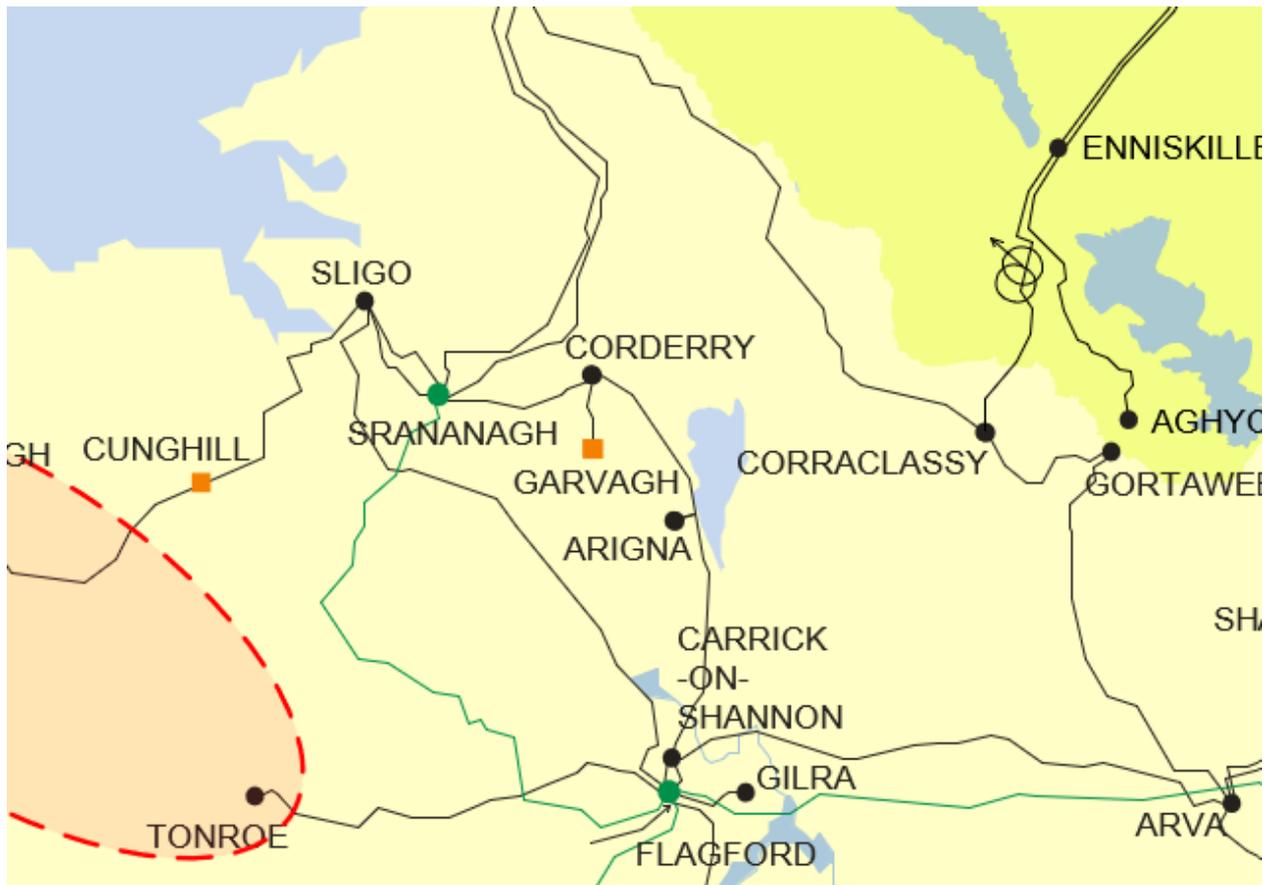


Figure 2-16- Location of node Garvagh

Generator	SO	Capacity	Type	Status
Garvagh - Glebe (1a)	TSO	26.0	wind priority	connected
Garvagh - Tullynahaw (1c)	TSO	22.0	wind priority	connected
Derrysallagh Wind Farm (Formerly Kilronan 2)	DSO	34.0	wind not priority	connected
Glen Solar	TSO	40.0	solar not priority	due to connected

Table 2-25- Generation Included in Study for Node Garvagh

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

Area A	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		20	40					
Installed Capacity (MW)	2030		20	40	40	40			
Installed Capacity (MW)	FG						40	40	40
Available Energy (GWh)	2028		21	42					
Available Energy (GWh)	2030		21	42	42	42			
Available Energy (GWh)	FG						42	42	42
Generation (GWh)	2028		17	29					
Generation (GWh)	2030		17	29	25	27			
Generation (GWh)	FG						31	29	33
Surplus (%)	2028		12 %	22 %					
Surplus (%)	2030		14 %	24 %	33 %	30 %			
Surplus (%)	FG						22 %	28 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	3 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		5 %	4 %					
Constraint (%)	2030		4 %	3 %	3 %	2 %			
Constraint (%)	FG						2 %	1 %	2 %
Total Dispatch Down (%)	2028		21 %	32 %					
Total Dispatch Down (%)	2030		21 %	31 %	41 %	36 %			
Total Dispatch Down (%)	FG						26 %	32 %	21 %

Table 2-26- Surplus, Curtailement and Constraint for Solar non-priority for Node Garvagh

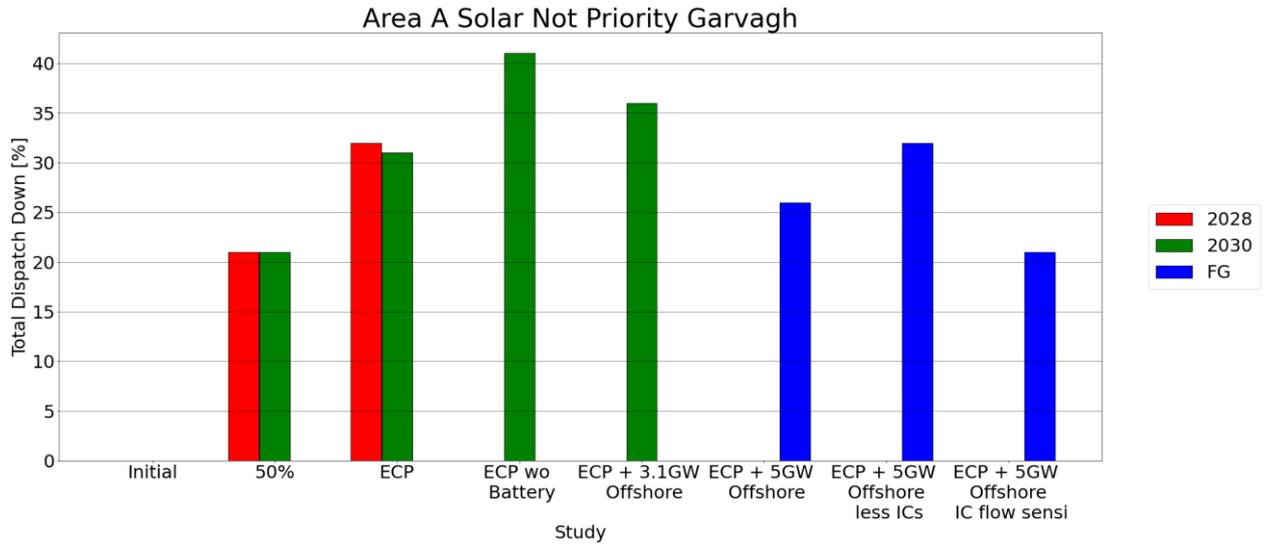


Figure 2-17- Total Dispatch Down for Solar not priority for Node Garvagh

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	40	
Installed Capacity (MW)	2030	40	40
Available Energy (GWh)	2028	42	
Available Energy (GWh)	2030	42	42
Generation (GWh)	2028	29	
Generation (GWh)	2030	29	27
Surplus (%)	2028	22 %	
Surplus (%)	2030	24 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	3 %	4 %
Constraint (%)	2028	4 %	
Constraint (%)	2030	3 %	2 %
Total Dispatch Down (%)	2028	32 %	
Total Dispatch Down (%)	2030	31 %	36 %

Table 2-27- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Garvagh

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

Area A	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	34	34	34					
Installed Capacity (MW)	2030	34	34	34	34	34			
Installed Capacity (MW)	FG						34	34	34
Available Energy (GWh)	2028	99	99	99					
Available Energy (GWh)	2030	98	98	98	98	98			
Available Energy (GWh)	FG						98	98	98
Generation (GWh)	2028	57	52	45					
Generation (GWh)	2030	66	53	44	41	40			
Generation (GWh)	FG						52	50	60
Surplus (%)	2028	16 %	20 %	26 %					
Surplus (%)	2030	12 %	22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028	6 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	20 %	22 %	24 %					
Constraint (%)	2030	16 %	21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028	42 %	47 %	54 %					
Total Dispatch Down (%)	2030	33 %	46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-28- Surplus, Curtailement and Constraint for Wind non-priority for Node Garvagh

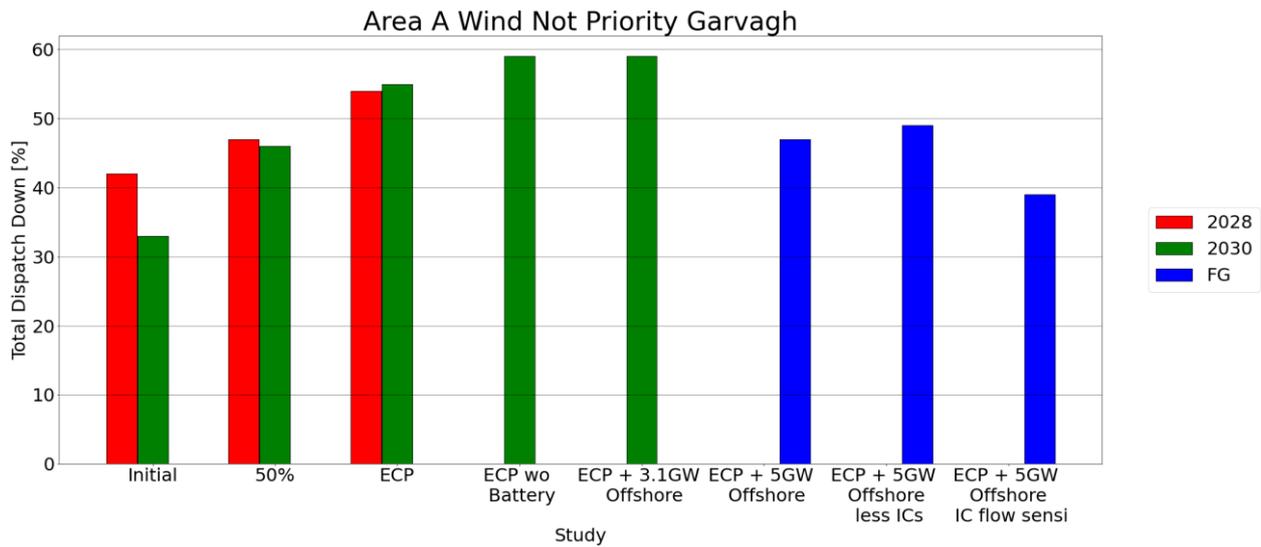


Figure 2-18- Total Dispatch Down for Wind not priority for Node Garvagh

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	34	
Installed Capacity (MW)	2030	34	34
Available Energy (GWh)	2028	99	
Available Energy (GWh)	2030	98	98
Generation (GWh)	2028	52	
Generation (GWh)	2030	51	45
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-29- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Garvagh

The wind priority data is given in the following table.

Area A	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
<b>Installed Capacity (MW)</b>	2028	48	48	48					
<b>Installed Capacity (MW)</b>	2030	48	48	48	48	48			
<b>Installed Capacity (MW)</b>	FG						48	48	48
<b>Available Energy (GWh)</b>	2028	140	140	140					
<b>Available Energy (GWh)</b>	2030	139	139	139	139	139			
<b>Available Energy (GWh)</b>	FG						139	139	139
<b>Generation (GWh)</b>	2028	126	127	126					
<b>Generation (GWh)</b>	2030	130	131	131	127	129			
<b>Generation (GWh)</b>	FG						131	131	135
<b>Surplus (%)</b>	2028	0 %	0 %	0 %					
<b>Surplus (%)</b>	2030	0 %	0 %	0 %	0 %	0 %			
<b>Surplus (%)</b>	FG						0 %	0 %	0 %
<b>Curtailement (%)</b>	2028	10 %	9 %	10 %					
<b>Curtailement (%)</b>	2030	7 %	6 %	6 %	8 %	7 %			
<b>Curtailement (%)</b>	FG						6 %	5 %	3 %
<b>Constraint (%)</b>	2028	0 %	0 %	0 %					
<b>Constraint (%)</b>	2030	0 %	0 %	0 %	0 %	0 %			
<b>Constraint (%)</b>	FG						0 %	0 %	0 %
<b>Total Dispatch Down (%)</b>	2028	10 %	9 %	10 %					
<b>Total Dispatch Down (%)</b>	2030	7 %	6 %	6 %	8 %	7 %			
<b>Total Dispatch Down (%)</b>	FG						6 %	5 %	3 %

Table 2-30- Surplus, Curtailement and Constraint for Wind priority for Node Garvagh

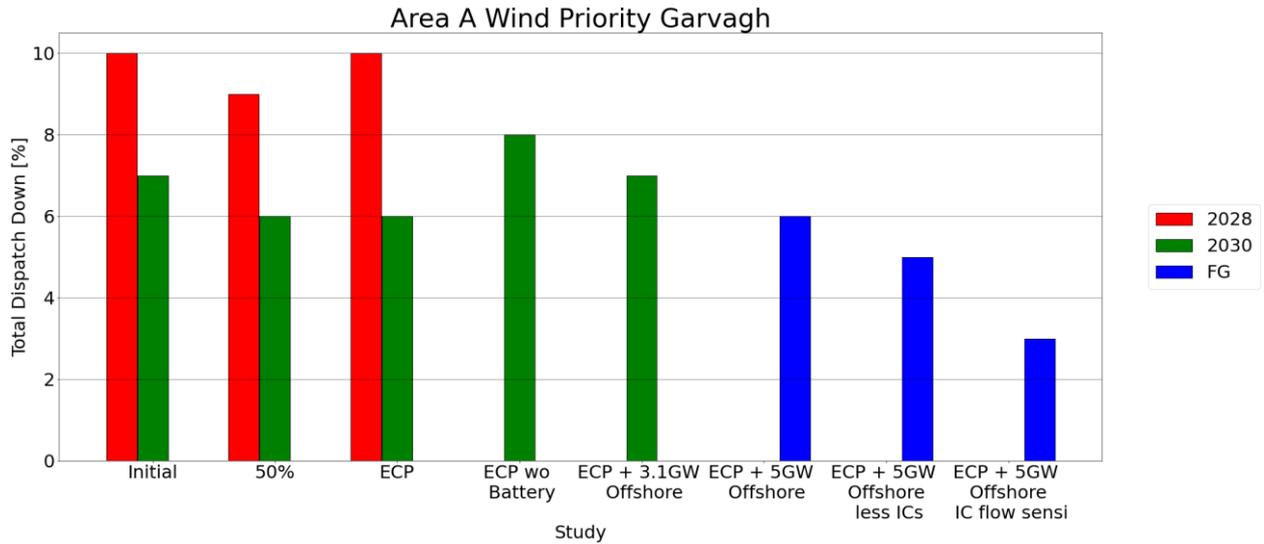


Figure 2-19- Total Dispatch Down for Wind priority for Node Garvagh

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	48	
Installed Capacity (MW)	2030	48	48
Available Energy (GWh)	2028	140	
Available Energy (GWh)	2030	139	139
Generation (GWh)	2028	103	
Generation (GWh)	2030	107	113
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-31- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Garvagh

## 2.8 Golagh

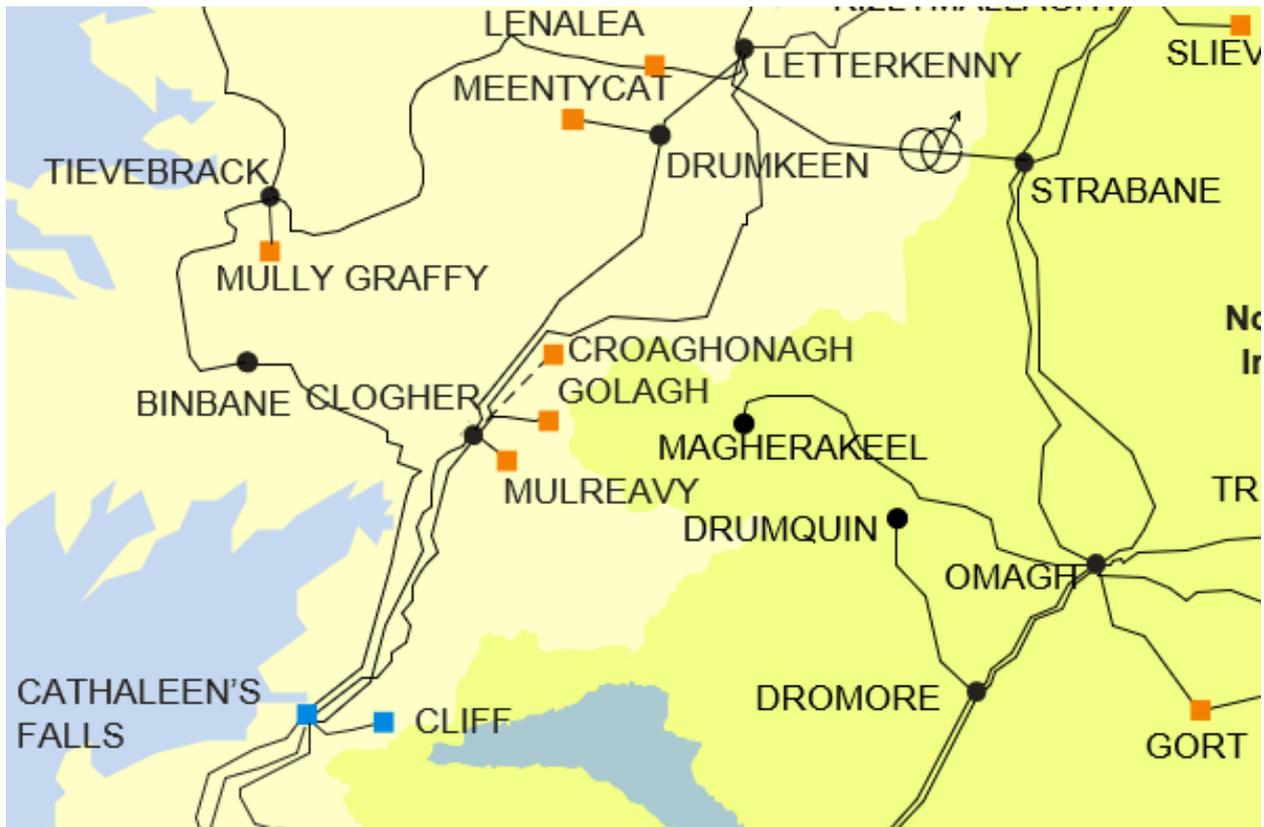


Figure 2-20- Location of node Golagh

Generator	SO	Capacity	Type	Status
<b>Golagh (1)</b>	TSO	12.0	wind uncontrolled	connected
<b>Barnesmore Windfarm Repowering</b>	TSO	48.0	wind not priority	due to connected

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

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

Area A	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		24	48					
Installed Capacity (MW)	2030		24	48	48	48			
Installed Capacity (MW)	FG						48	48	48
Available Energy (GWh)	2028		70	140					
Available Energy (GWh)	2030		69	139	139	139			
Available Energy (GWh)	FG						139	139	139
Generation (GWh)	2028		37	64					
Generation (GWh)	2030		37	62	57	56			
Generation (GWh)	FG						73	71	84
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		22 %	24 %					
Constraint (%)	2030		21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028		47 %	54 %					
Total Dispatch Down (%)	2030		46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-33- Surplus, Curtailement and Constraint for Wind non-priority for Node Golagh

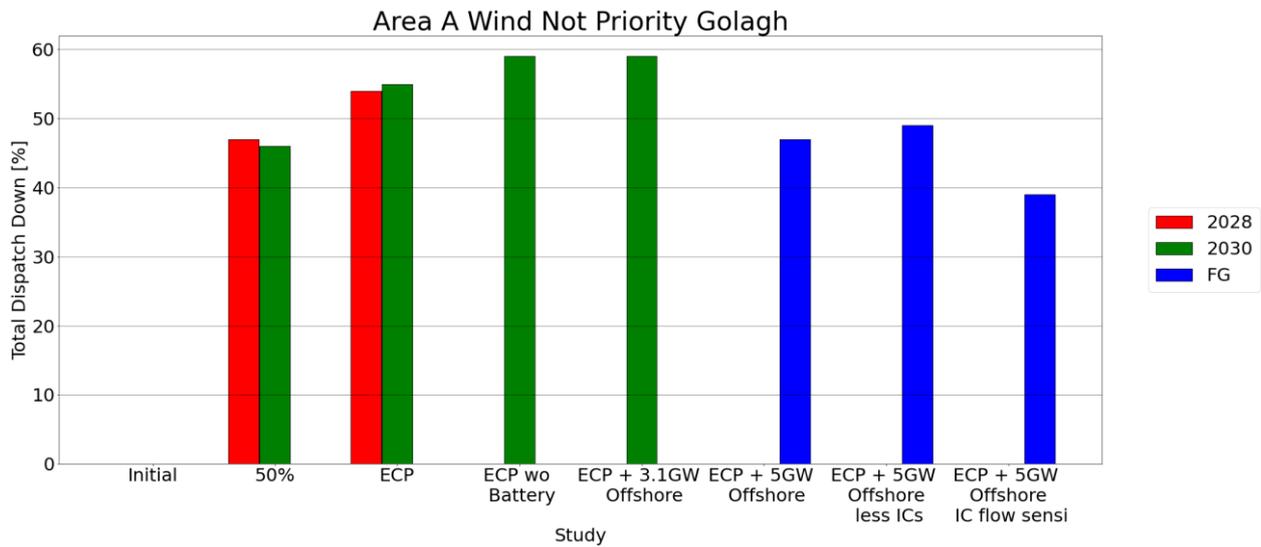


Figure 2-21- Total Dispatch Down for Wind not priority for Node Golagh

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	48	
Installed Capacity (MW)	2030	48	48
Available Energy (GWh)	2028	140	
Available Energy (GWh)	2030	139	139
Generation (GWh)	2028	74	
Generation (GWh)	2030	73	63
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-34- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Golagh

## 2.9 Gortawee



Figure 2-22- Location of node Gortawee

Generator	SO	Capacity	Type	Status
Coreen (1)	DSO	3.0	wind uncontrolled	connected
Tullyhaw Community Wind Turbine	DSO	4.2	wind not priority	due to connected

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

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

Area A	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		2	4					
Installed Capacity (MW)	2030		2	4	4	4			
Installed Capacity (MW)	FG						4	4	4
Available Energy (GWh)	2028		6	12					
Available Energy (GWh)	2030		6	12	12	12			
Available Energy (GWh)	FG						12	12	12
Generation (GWh)	2028		4	8					
Generation (GWh)	2030		4	8	6	7			
Generation (GWh)	FG						8	7	9
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		4 %	3 %					
Constraint (%)	2030		4 %	3 %	11 %	1 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028		29 %	34 %					
Total Dispatch Down (%)	2030		29 %	34 %	48 %	44 %			
Total Dispatch Down (%)	FG						34 %	39 %	23 %

Table 2-36- Surplus, Curtailment and Constraint for Wind non-priority for Node Gortawee

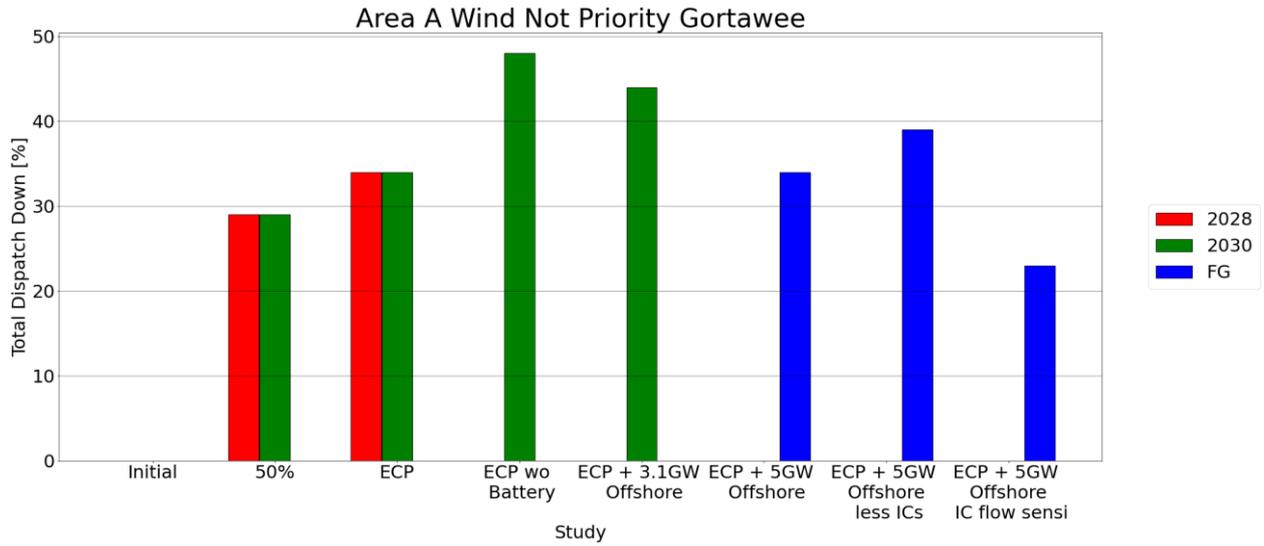


Figure 2-23- Total Dispatch Down for Wind not priority for Node Gortawee

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	4	
Installed Capacity (MW)	2030	4	4
Available Energy (GWh)	2028	12	
Available Energy (GWh)	2030	12	12
Generation (GWh)	2028	8	
Generation (GWh)	2030	8	7
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	33 %	
Total Dispatch Down (%)	2030	33 %	43 %

Table 2-37- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Gortawee

## 2.10 Lenalea



Figure 2-24- Location of node Lenalea

Generator	SO	Capacity	Type	Status
Lenalea Wind Farm	TSO	30.1	wind not priority	connected
Drumnahough Wind Farm	TSO	72.0	wind not priority	due to connected

Table 2-38- Generation Included in Study for Node Lenalea

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

Area A	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	30	66	102					
Installed Capacity (MW)	2030	30	66	102	102	102			
Installed Capacity (MW)	FG						102	102	102
Available Energy (GWh)	2028	88	192	297					
Available Energy (GWh)	2030	87	191	295	295	295			
Available Energy (GWh)	FG						295	295	295
Generation (GWh)	2028	50	102	135					
Generation (GWh)	2030	59	103	132	122	120			
Generation (GWh)	FG						156	151	179
Surplus (%)	2028	16 %	20 %	26 %					
Surplus (%)	2030	12 %	22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028	6 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	20 %	22 %	24 %					
Constraint (%)	2030	16 %	21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028	42 %	47 %	54 %					
Total Dispatch Down (%)	2030	33 %	46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-39- Surplus, Curtailment and Constraint for Wind non-priority for Node Lenalea

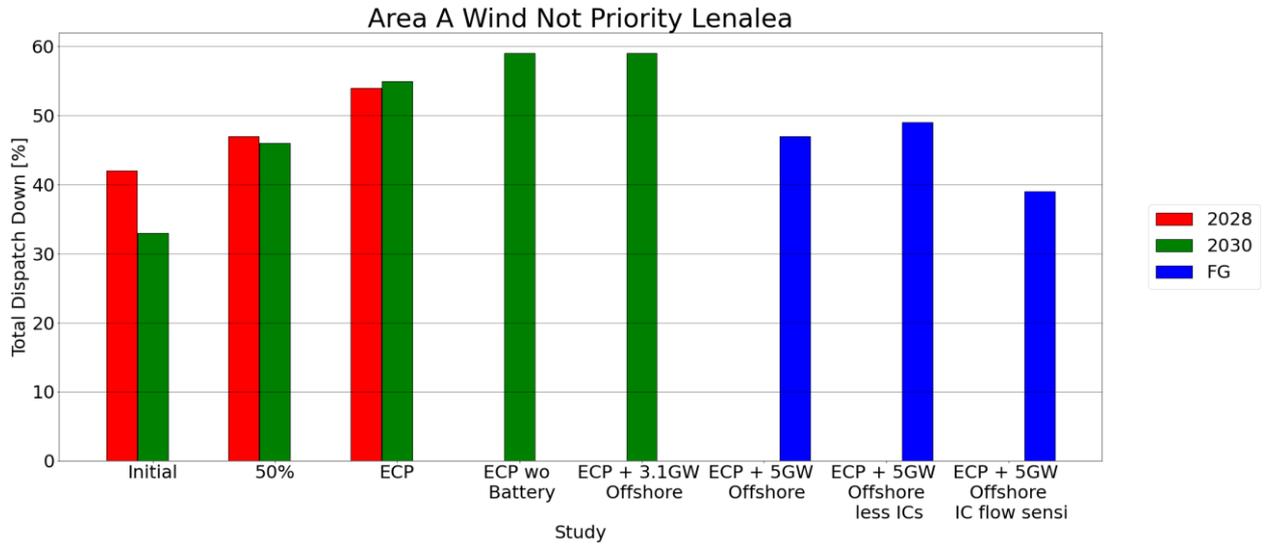


Figure 2-25- Total Dispatch Down for Wind not priority for Node Lenalea

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	102	
Installed Capacity (MW)	2030	102	102
Available Energy (GWh)	2028	297	
Available Energy (GWh)	2030	295	295
Generation (GWh)	2028	157	
Generation (GWh)	2030	155	135
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-40- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Lenalea

## 2.11 Letterkenny



Figure 2-26- Location of node Letterkenny

Generator	SO	Capacity	Type	Status
Meenanilta (2)	DSO	2.45	wind uncontrolled	connected
Meenanilta (1)	DSO	2.55	wind uncontrolled	connected
Culliagh (1)	DSO	11.88	wind uncontrolled	connected
Cark (1)	DSO	15.0	wind uncontrolled	connected
Lurganboy (1)	DSO	4.99	wind uncontrolled	connected
Meenanilta (3)	DSO	3.4	wind uncontrolled	connected
Lettergull (1)	DSO	20.0	wind not priority	due to connected

<b>Aught Wind Farm</b>	TSO	57.4	wind not priority	due to connected
<b>Glenard (1)</b>	TSO	93.0	wind not priority	due to connected

*Table 2-41- Generation Included in Study for Node Letterkenny*

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

Area A	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	20	95	170					
Installed Capacity (MW)	2030	20	95	170	170	170			
Installed Capacity (MW)	FG						170	170	170
Available Energy (GWh)	2028	58	277	496					
Available Energy (GWh)	2030	58	275	493	493	493			
Available Energy (GWh)	FG						493	493	493
Generation (GWh)	2028	33	147	226					
Generation (GWh)	2030	39	148	221	203	200			
Generation (GWh)	FG						260	252	299
Surplus (%)	2028	16 %	20 %	26 %					
Surplus (%)	2030	12 %	22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028	6 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	20 %	22 %	24 %					
Constraint (%)	2030	16 %	21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028	42 %	47 %	54 %					
Total Dispatch Down (%)	2030	33 %	46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-42- Surplus, Curtailement and Constraint for Wind non-priority for Node Letterkenny

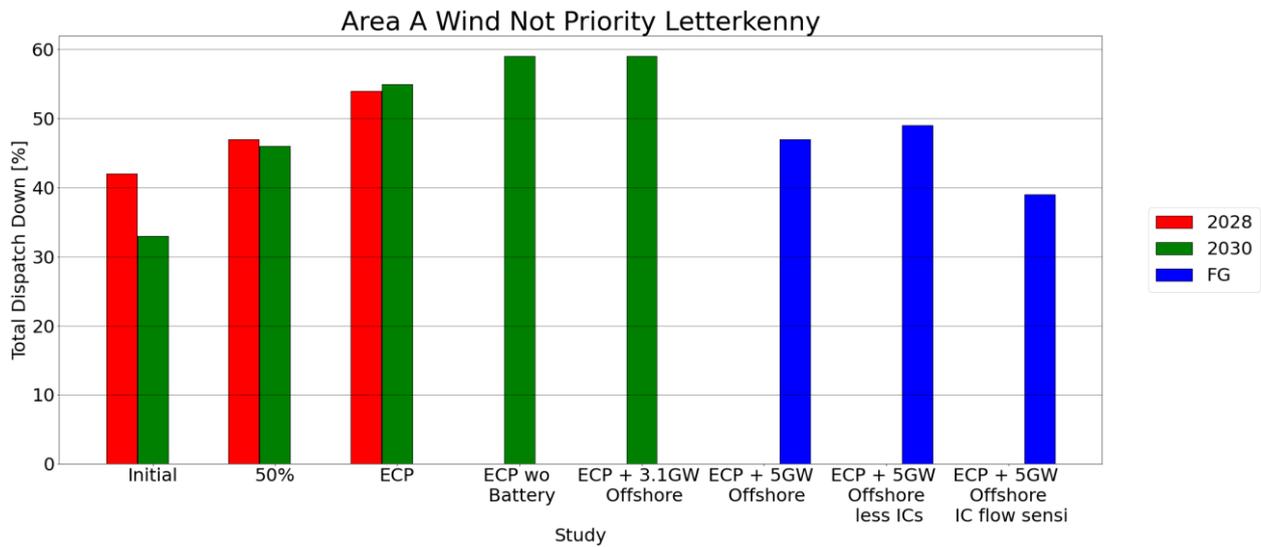


Figure 2-27- Total Dispatch Down for Wind not priority for Node Letterkenny

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	170	
Installed Capacity (MW)	2030	170	170
Available Energy (GWh)	2028	496	
Available Energy (GWh)	2030	493	493
Generation (GWh)	2028	262	
Generation (GWh)	2030	258	225
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-43- Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Letterkenny

## 2.12 Meentycat

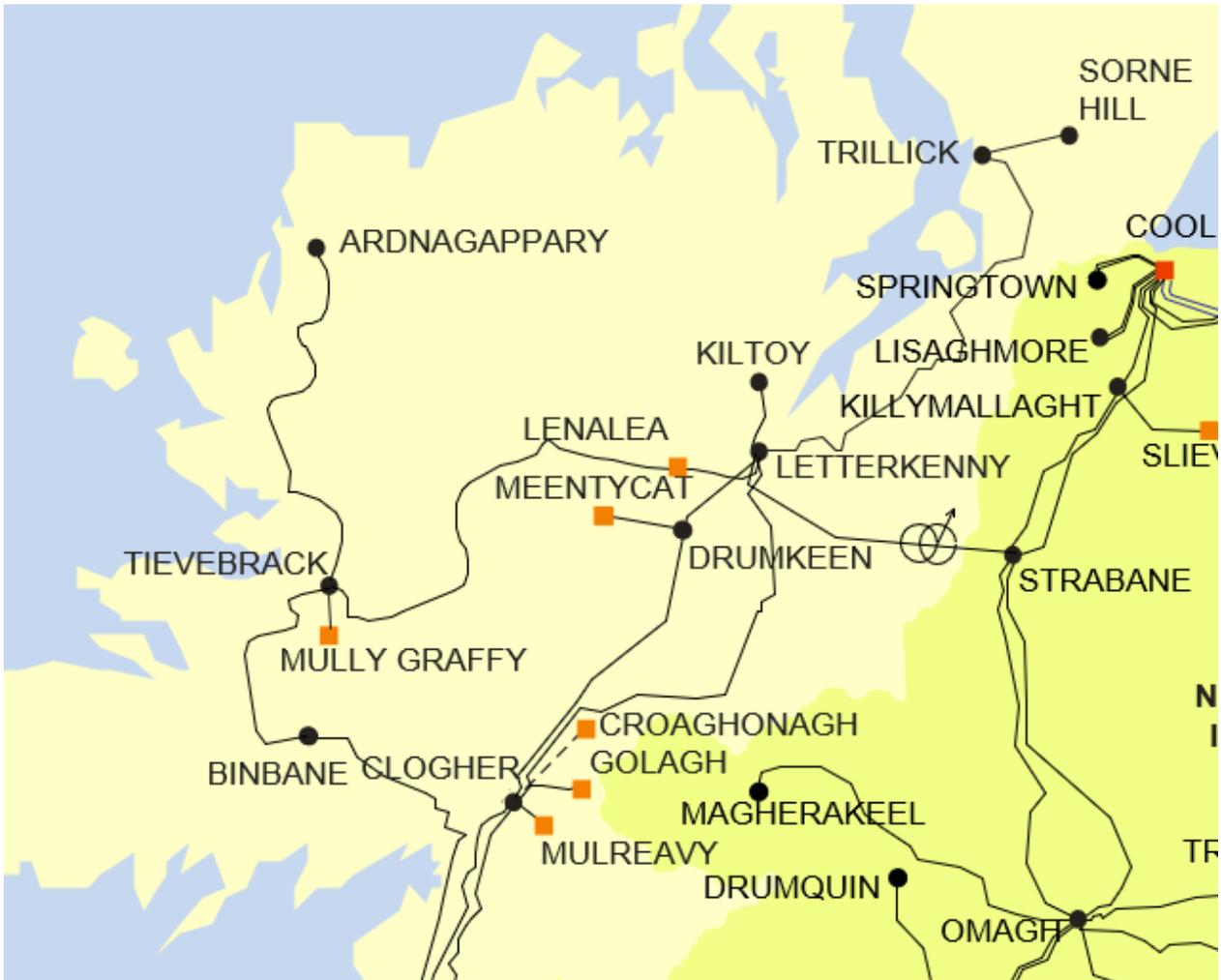


Figure 2-28- Location of node Meentycat

Generator	SO	Capacity	Type	Status
<b>Meentycat (1)</b>	TSO	70.96	wind priority	connected
<b>Meentycat (2)</b>	TSO	14.0	wind priority	connected

Table 2-44- Generation Included in Study for Node Meentycat

The wind priority data is given in the following table.

Area A	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
<b>Installed Capacity (MW)</b>	2028	85	85	85					
<b>Installed Capacity (MW)</b>	2030	85	85	85	85	85			
<b>Installed Capacity (MW)</b>	FG						85	85	85
<b>Available Energy (GWh)</b>	2028	247	247	247					
<b>Available Energy (GWh)</b>	2030	246	246	246	246	246			
<b>Available Energy (GWh)</b>	FG						246	246	246
<b>Generation (GWh)</b>	2028	223	225	223					
<b>Generation (GWh)</b>	2030	230	232	231	225	228			
<b>Generation (GWh)</b>	FG						232	232	239
<b>Surplus (%)</b>	2028	0 %	0 %	0 %					
<b>Surplus (%)</b>	2030	0 %	0 %	0 %	0 %	0 %			
<b>Surplus (%)</b>	FG						0 %	0 %	0 %
<b>Curtailement (%)</b>	2028	10 %	9 %	10 %					
<b>Curtailement (%)</b>	2030	7 %	6 %	6 %	8 %	7 %			
<b>Curtailement (%)</b>	FG						6 %	5 %	3 %
<b>Constraint (%)</b>	2028	0 %	0 %	0 %					
<b>Constraint (%)</b>	2030	0 %	0 %	0 %	0 %	0 %			
<b>Constraint (%)</b>	FG						0 %	0 %	0 %
<b>Total Dispatch Down (%)</b>	2028	10 %	9 %	10 %					
<b>Total Dispatch Down (%)</b>	2030	7 %	6 %	6 %	8 %	7 %			
<b>Total Dispatch Down (%)</b>	FG						6 %	5 %	3 %

Table 2-45- Surplus, Curtailement and Constraint for Wind priority for Node Meentycat

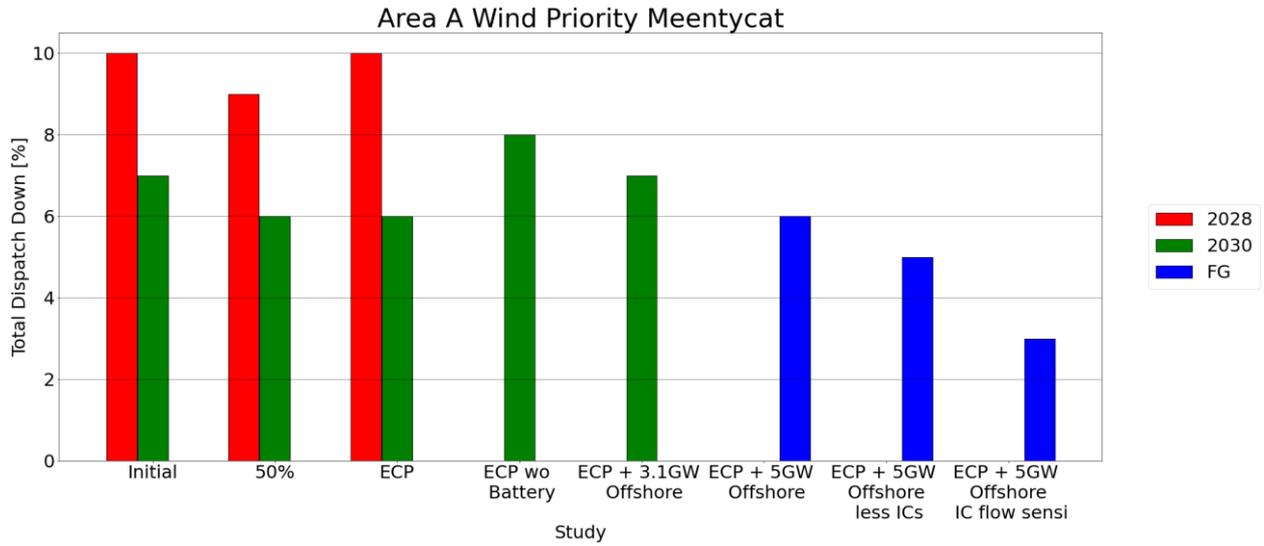


Figure 2-29- Total Dispatch Down for Wind priority for Node Meentycat

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	85	
Installed Capacity (MW)	2030	85	85
Available Energy (GWh)	2028	247	
Available Energy (GWh)	2030	246	246
Generation (GWh)	2028	183	
Generation (GWh)	2030	190	200
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-46- Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Meentycat

## 2.13 Mulreavy

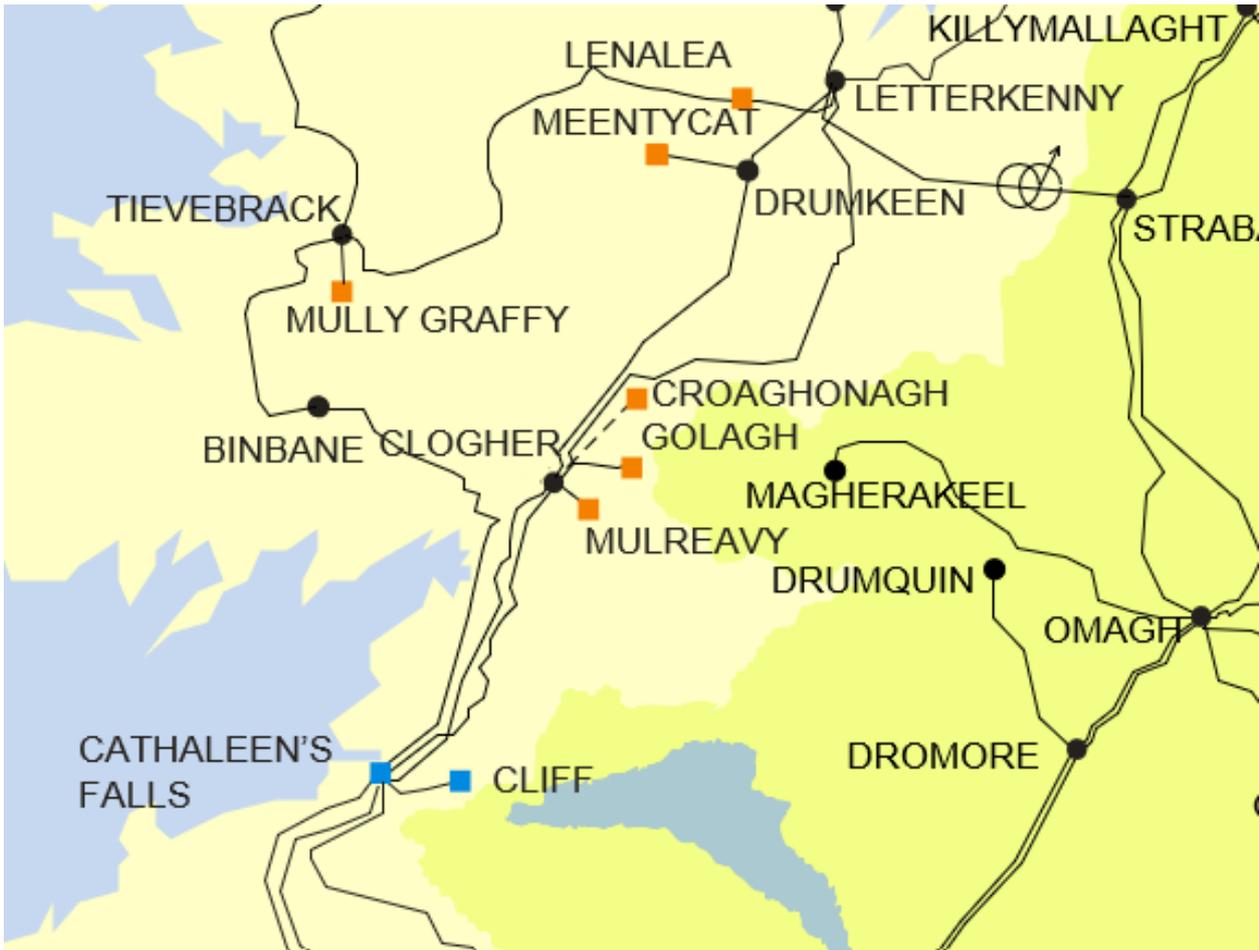


Figure 2-30- Location of node Mulreavy

Generator	SO	Capacity	Type	Status
Mulreavy (Mulreavy (1))	TSO	82.0	wind priority	connected
Mulreavy Ext (Croaghnameal (1))	TSO	4.25	wind priority	connected
Mulreavy Ext (Meenadreen South (1))	TSO	3.6	wind priority	connected
Mulreavy Ext (Meenadreen South (2))	TSO	5.4	wind priority	connected

Table 2-47- Generation Included in Study for Node Mulreavy

The wind priority data is given in the following table.

Area A	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	95	95					
Installed Capacity (MW)	2030	95	95	95	95	95			
Installed Capacity (MW)	FG						95	95	95
Available Energy (GWh)	2028	277	277	277					
Available Energy (GWh)	2030	276	276	276	276	276			
Available Energy (GWh)	FG						276	276	276
Generation (GWh)	2028	250	252	250					
Generation (GWh)	2030	257	260	259	252	256			
Generation (GWh)	FG						260	261	268
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	8 %	7 %			
Curtailement (%)	FG						6 %	5 %	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 %	8 %	7 %			
Total Dispatch Down (%)	FG						6 %	5 %	3 %

Table 2-48- Surplus, Curtailment and Constraint for Wind priority for Node Mulreavy

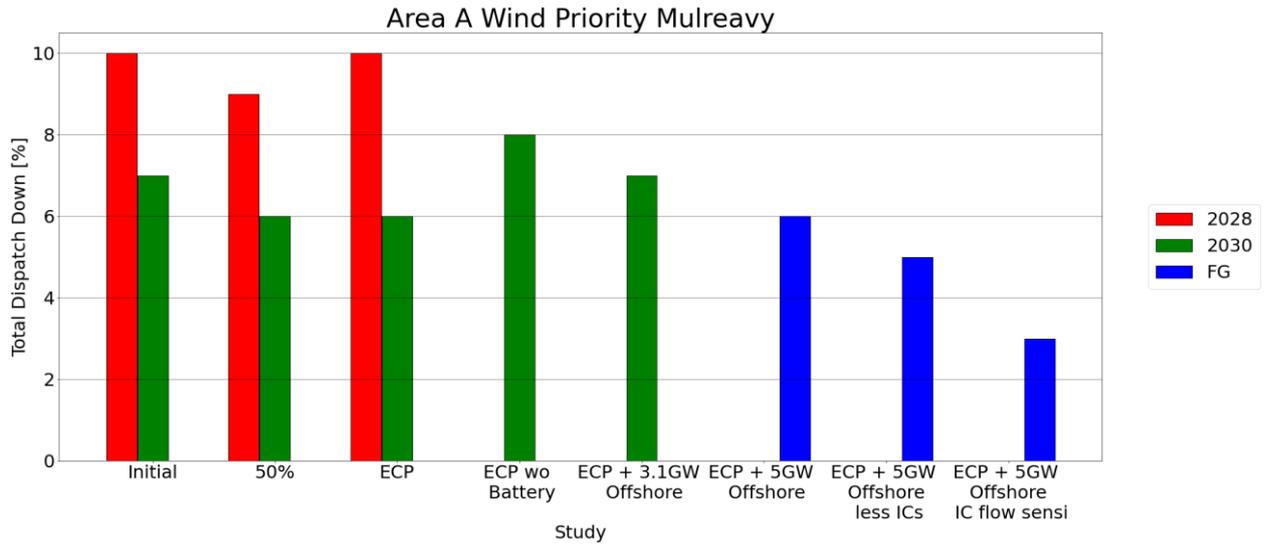


Figure 2-31- Total Dispatch Down for Wind priority for Node Mulreavy

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	95	
Installed Capacity (MW)	2030	95	95
Available Energy (GWh)	2028	277	
Available Energy (GWh)	2030	276	276
Generation (GWh)	2028	205	
Generation (GWh)	2030	213	224
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-49- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Mulreavy

## 2.14 Sorne hill



Figure 2-32- Location of node Sorne hill

Generator	SO	Capacity	Type	Status
Sorne Hill (1)	DSO	31.5	wind priority	connected
Sorne Hill Single Turbine (Enros)	DSO	2.3	wind uncontrolled	connected
Three Trees (1)	DSO	4.25	wind uncontrolled	connected
Flughland (1)	DSO	9.2	wind priority	connected
Meenkeeragh (1)	DSO	4.2	wind uncontrolled	connected
Glackmore Hill (2)	DSO	1.4	wind uncontrolled	connected
Sorne Hill (2)	DSO	7.4	wind priority	connected
Corvin Wind Turbine	DSO	2.1	wind uncontrolled	connected

Table 2-50- Generation Included in Study for Node Sorne hill

The wind priority data is given in the following table.

Area A	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	48	48	48					
Installed Capacity (MW)	2030	48	48	48	48	48			
Installed Capacity (MW)	FG						48	48	48
Available Energy (GWh)	2028	140	140	140					
Available Energy (GWh)	2030	139	139	139	139	139			
Available Energy (GWh)	FG						139	139	139
Generation (GWh)	2028	126	127	126					
Generation (GWh)	2030	130	131	131	127	129			
Generation (GWh)	FG						131	132	135
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	8 %	7 %			
Curtailement (%)	FG						6 %	5 %	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 %	8 %	7 %			
Total Dispatch Down (%)	FG						6 %	5 %	3 %

Table 2-51- Surplus, Curtailement and Constraint for Wind priority for Node Some hill

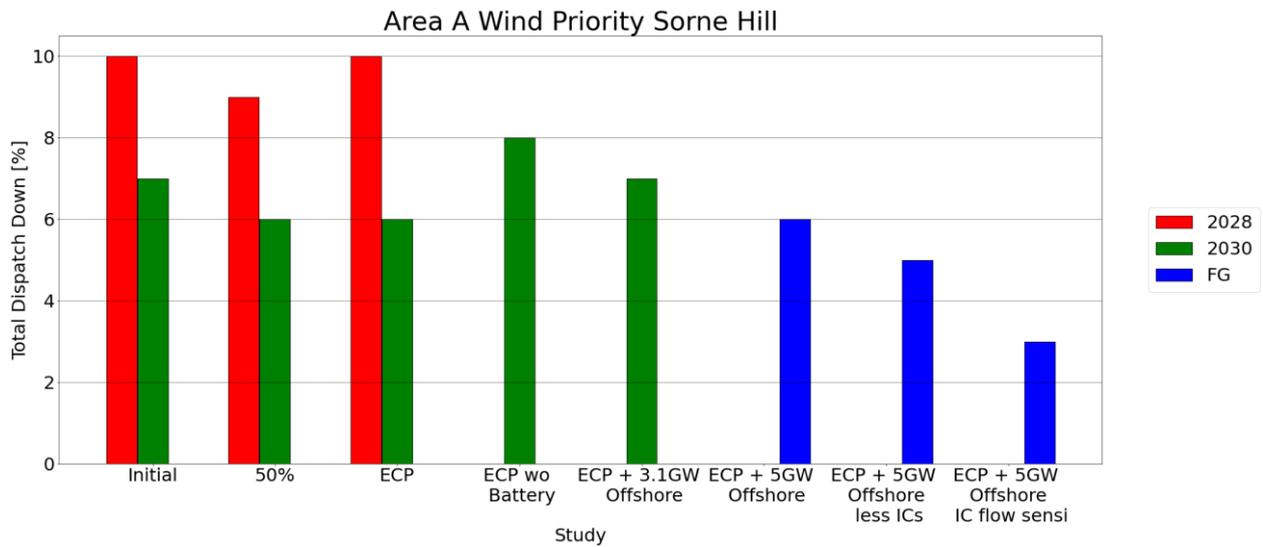


Figure 2-33- Total Dispatch Down for Wind priority for Node Some hill

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	48	
Installed Capacity (MW)	2030	48	48
Available Energy (GWh)	2028	140	
Available Energy (GWh)	2030	139	139
Generation (GWh)	2028	104	
Generation (GWh)	2030	107	113
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-52- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Some hill

## 2.15 Tievebrack

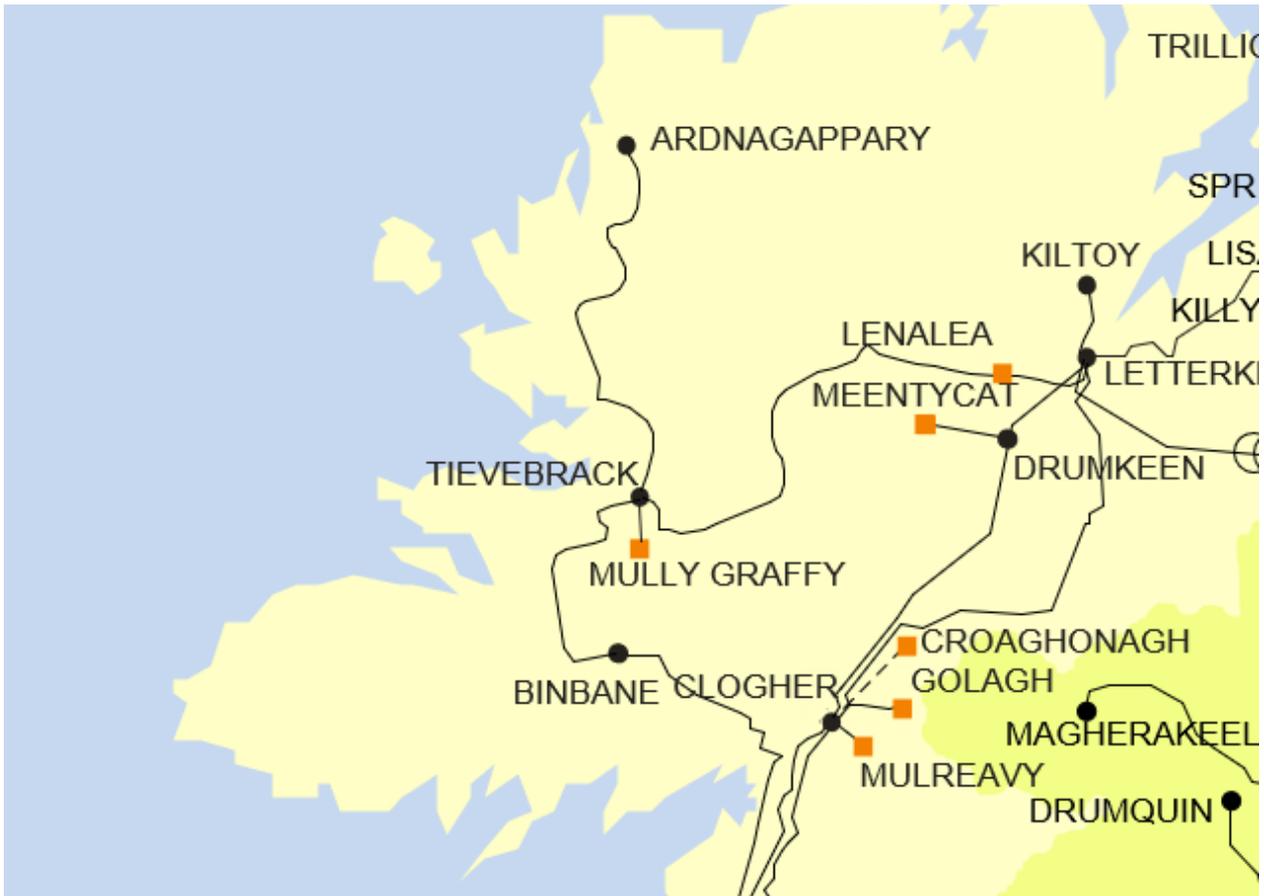


Figure 2-34- Location of node Tievebrack

Generator	SO	Capacity	Type	Status
Mully Graffy Windfarm (Kilgorman)	TSO	29.9	wind not priority	due to connected

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

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

Area A	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		15	30					
Installed Capacity (MW)	2030		15	30	30	30			
Installed Capacity (MW)	FG						30	30	30
Available Energy (GWh)	2028		43	87					
Available Energy (GWh)	2030		43	86	86	86			
Available Energy (GWh)	FG						86	86	86
Generation (GWh)	2028		23	40					
Generation (GWh)	2030		23	39	36	35			
Generation (GWh)	FG						46	44	52
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	28 %	33 %	40 %			
Surplus (%)	FG						32 %	37 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		22 %	24 %					
Constraint (%)	2030		21 %	24 %	22 %	17 %			
Constraint (%)	FG						14 %	10 %	17 %
Total Dispatch Down (%)	2028		47 %	54 %					
Total Dispatch Down (%)	2030		46 %	55 %	59 %	59 %			
Total Dispatch Down (%)	FG						47 %	49 %	39 %

Table 2-54- Surplus, Curtailement and Constraint for Wind non-priority for Node Tievebrack

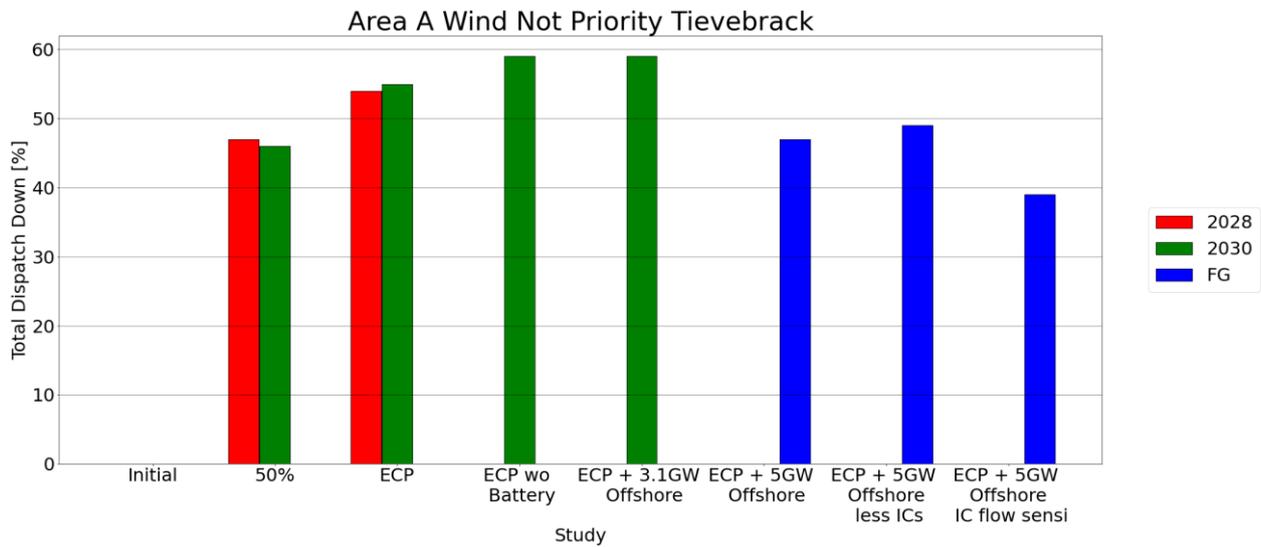


Figure 2-35- Total Dispatch Down for Wind not priority for Node Tievebrack

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	30	
Installed Capacity (MW)	2030	30	30
Available Energy (GWh)	2028	87	
Available Energy (GWh)	2030	86	86
Generation (GWh)	2028	46	
Generation (GWh)	2030	45	40
Surplus (%)	2028	26 %	
Surplus (%)	2030	28 %	40 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	47 %	
Total Dispatch Down (%)	2030	48 %	54 %

Table 2-55- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Tievebrack

## 2.16 Trillick



Figure 2-36- Location of node Trillick

Generator	SO	Capacity	Type	Status
Drumlough Hill (2)	DSO	9.99	wind priority	connected
Beam Hill (1)	DSO	14.0	wind priority	connected
Crockahenny (1)	DSO	5.0	wind uncontrolled	connected
Drumlough Hill (1)	DSO	4.8	wind uncontrolled	connected
Meenaward	DSO	6.9	wind priority	connected
Cooly (1)	DSO	4.0	wind uncontrolled	connected

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

The wind priority data is given in the following table.

Area A	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	31	31	31					
Installed Capacity (MW)	2030	31	31	31	31	31			
Installed Capacity (MW)	FG						31	31	31
Available Energy (GWh)	2028	90	90	90					
Available Energy (GWh)	2030	89	89	89	89	89			
Available Energy (GWh)	FG						89	89	89
Generation (GWh)	2028	81	82	81					
Generation (GWh)	2030	83	84	84	82	83			
Generation (GWh)	FG						84	85	87
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	8 %	7 %			
Curtailement (%)	FG						6 %	5 %	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 %	8 %	7 %			
Total Dispatch Down (%)	FG						6 %	5 %	3 %

Table 2-57- Surplus, Curtailement and Constraint for Wind priority for Node Trillick

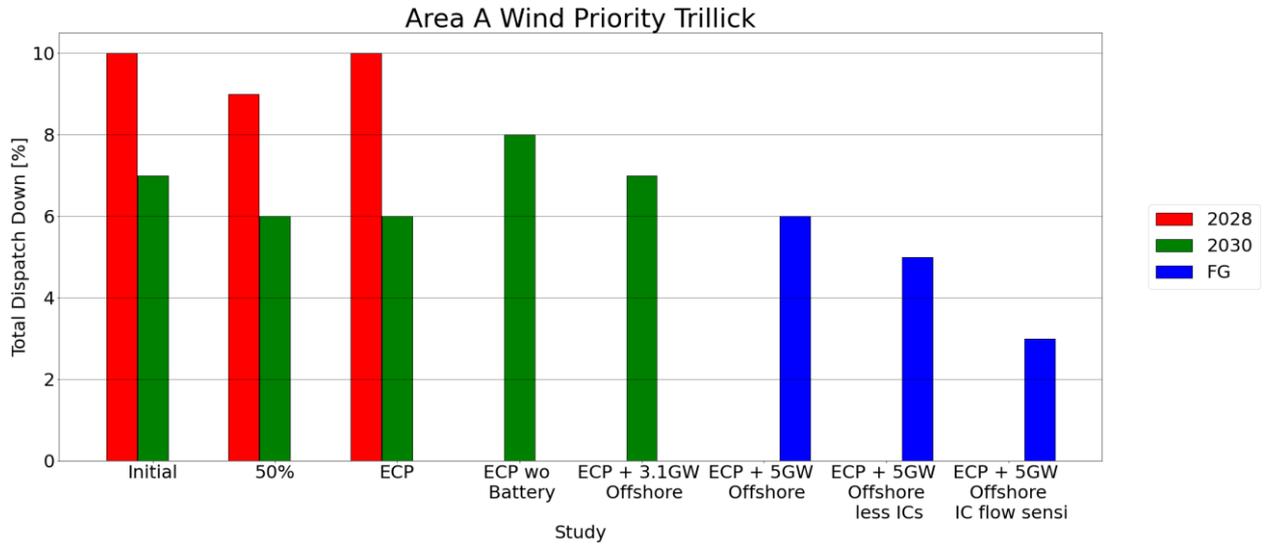


Figure 2-37- Total Dispatch Down for Wind priority for Node Trillick

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

Area A	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	31	
Installed Capacity (MW)	2030	31	31
Available Energy (GWh)	2028	90	
Available Energy (GWh)	2030	89	89
Generation (GWh)	2028	67	
Generation (GWh)	2030	69	73
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	16 %	
Constraint (%)	2030	17 %	12 %
Total Dispatch Down (%)	2028	26 %	
Total Dispatch Down (%)	2030	23 %	19 %

Table 2-58 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Trillick