

Enduring Connection Policy 2.3

Solar and Wind Constraints Report: Results for Area B

Version 1.1

05/04/24



Revision History

Revision	Date	Description
V1.1	05.04.2024	Results have been updated to reflect the modifications made to the installed capacity within the analysis.

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Table of Contents

Disclaimer	3
Document Structure	6
Important Note	7
1 Results for Area B	8
1.1 Introduction	8
1.2 Study Notes	8
1.2.1 Network Outages	8
1.2.2 Benefit of Capacity Factor	8
1.2.3 Notes on Surplus, Curtailment and Constraint Modelling	8
1.3 Generation Overview	10
1.4 Network Overview	12
1.5 Future Grid Sensitivity Scenario	13
1.6 Area B - Average Results	13
1.6.1 Offshore Wind Sensitivity Studies	13
1.6.2 Impact of Article 12 and 13	13
1.6.3 Future Grid Sensitivity Study	14
1.6.4 Area Subgroups	14
1.7 Conclusion - Results for Area B	23
2 Area B Node Results	24
2.1 Bellacorick	25
2.2 Cashla	28
2.3 Castlebar	30
2.4 Cloon	33
2.5 Cunghill	36
2.6 Dalton	38
2.7 Firlough	41
2.8 Glenree	43
2.9 Knockranny	46
2.10 Moy	49
2.11 Salthill	52
2.12 Screeb	54
2.13 Shantallow	56
2.14 Sligo	58

2.15	Tawnaghmore	61
2.16	Uggool	63

Document Structure

This document is for customers wishing to see the estimated Total Dispatch Down for Area B. For information on the study assumptions, methodology, abbreviations and terms used for the Constraint Analysis reports, please see the area non-specific Assumptions and Methodology report found on the ECP-2.3 webpage¹.

This document contains two main sections:

Section 1: Results for Area B: outlines the area covered by this report. This section provides a network diagram of Area B and an overview of the results for Area B.

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

¹ <https://www.eirgridgroup.com/customer-and-industry/general-customer-information/ecp-2.3-constraint-report/index.xml>

Important Note

This ECP-2.3 constraints report presents an estimate of the reduction in available solar and wind generation based on the study assumptions described. The reduction in available generation has been split into three categories for the purposes of this study: surplus, curtailment and constraint.

The treatment of renewable generation under these three categories of generation reduction will be determined by the implementation of Articles 12 and 13 of the EU Regulation 2019/943².

The SEMC decision on the 22nd of March 2022³ (SEM-22-009 Decision Paper on Dispatch, Redispatch and Compensation Pursuant to Regulation EU 2019/943) has been successfully challenged in the High Court ([2023] IEHC 629). Therefore, the detailed design of the implementation of Articles 12 and 13 has yet to be finalised, and may differ from the implementation for constraints used in this study. Therefore, an assumed interpretation has been included in this study, as detailed in this report.

This report uses the term “Total Dispatch Down” to refer to the total reduction in available solar and wind generation i.e. the sum of surplus, curtailment and constraint, and is considered the key indicator for the results. However, it is important to note that the term “dispatch down” is more correctly applicable only to TSO instructions to reduce generation output from a market position, as is the case for curtailment and constraint, and is not necessarily applicable to a generator reducing its own output from its availability to a market position so that supply and demand are balanced, as is the case for surplus.

The term “non-priority” and “not-priority” generators are used synonymously in the report.

The results presented in this report are based on the simulation and modelling assumptions described. The findings are indicative only and this report should in no way be read as a guarantee as to future levels of surplus, curtailment and constraint.

For wind and solar generation, values of Total Dispatch Down that are less than 5% are rounded up to 5% by adjusting the constraints for that generator. This is consistent with the approach used in the ECP-2.1 and ECP-2.2 constraints reports. However, in the ECP-2.3 constraints report, this adjustment to constraints is applied only to non-priority generation and not to priority generation.

² <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32019R0943&from=NL>

³ <https://www.semcommittee.com/publications/sem-22-009-decision-paper-dispatch-redispatch-and-compensation-pursuant-regulation-eu>

1 Results for Area B

1.1 Introduction

This section provides the surplus, curtailment and constraint results for Area B that are estimated by this analysis. There is a total of eight core ECP-2.3 studies and seven sensitivity studies (including without maintenance) presented in this report. The study scenarios and the associated assumptions can be found in the Assumptions and Methodology report. An overview and discussion of the results is provided in this Section. The surplus, curtailment and constraint results for each node in Area B are provided in Section 2 of this report.

1.2 Study Notes

A list of the major study assumptions is provided in the Assumptions and Methodology report. For Area B, there are a number of key assumptions which drive the results, including network outages and capacity factors. These are thus reiterated here. Similarly, it is worth highlighting again the differences between the various components of Total Dispatch Down.

1.2.1 Network Outages

The scenarios in this report are intended to give a view of average long-term levels of surplus, curtailment and constraint, subject to installed generation, demand, interconnection, operational constraints and reinforcement delivery.

The ECP-2.3 constraints forecast analysis applies a similar transmission outage schedule to the ECP-2.2 constraints analysis. This was kept consistent with last year's schedule following positive feedback from industry. This schedule allows a representation of outage impact in each geographical area to be included in the studies.

This representative transmission outage schedule is given in Appendix A of the Assumptions and Methodology report. However, at times, longer duration outages may be required for certain connections, reinforcement works or forced outages, these are not considered in this analysis and may result in higher wind and solar constraints.

1.2.2 Benefit of Capacity Factor

In practice, a specific windfarm may be located at a site with higher wind speeds or may have a better performing type of wind turbine; the result is a higher capacity factor than neighbouring windfarms. This report does not reflect this localised diversity between windfarm sites. In reality, a windfarm with a higher capacity factor may see lower percentage surplus, curtailment or constraint levels than an adjacent windfarm with a lower capacity factor. This is because at times of medium or low wind speed, the high-capacity factor windfarm can generate power when the low-capacity factor windfarm cannot.

1.2.3 Notes on Surplus, Curtailment and Constraint Modelling

1.2.3.1 Surplus

During generation reduction for surplus, a distinction is made between the treatment of priority and non-priority renewable generators, with non-priority generators being dispatched down ahead of priority generators. Within these two categories of generation, surplus is applied pro-rata across the all-island system for all renewable generators in the category.

For any hour of the study, the surplus level will depend on system demand and interconnector flow capacity. In general, surplus is expected to increase with increasing installed renewable capacity.

It is expected that the further interconnection of the all-Ireland network with mainland UK and Europe will decrease the frequency of surplus conditions occurring.

In general, increased interconnector capacity with mainland UK through the EWIC & LiriC projects will not necessarily eliminate surplus generation as solar and wind profiles in mainland UK will largely be in line with those in Ireland. In the Future Grid study year however, when both the Celtic and 2nd Ireland-France interconnectors are connected, there will be a greater export capacity during times of abundant renewable generation to mainland Europe where similar wind and solar generation in Ireland and mainland Europe is not expected.

Therefore, dispatch down due to surplus generation is not expected to occur as frequently once both the Celtic and 2nd Ireland-France interconnectors are connected.

1.2.3.2 Curtailment

In this report, for each hour of the study, the curtailment is shared pro-rata on a system-wide basis with no distinction made between priority and non-priority generators. This means that both curtailment reductions and curtailment increases are shared system wide.

Solar generation has different reported levels of curtailment compared to wind due to different capacity factors and annual profile shapes.

The applied curtailment is broadly constant across the system. However, due to differences in wind and solar profiles and capacity factors between areas, the percentage average curtailment differs between areas.

1.2.3.3 Constraints

During the constraint of renewable generation, a distinction is made between priority and non-priority generators, with non-priority generators being dispatched down ahead of priority generators across the relevant transmission nodes within the subgroup. More details on the approach assumed in this study for the application of constraints on priority and non-priority renewable generation can be found in the main ECP 2.3 Assumptions and Methodology report.

In general, there is a tendency for renewable bulk power to flow towards the demand in Dublin and the interconnectors. These flow patterns are relevant when seeking to understand constraint apportionment in the simulation.

When presented as percentage values, the constraint results look different for solar and wind, as they have a low correlation due to different profile shapes driven by weather patterns.

1.3 Generation Overview

A detailed system-level overview of the renewable generation scenarios used in these studies is given in Section 2 of the area non-specific Assumptions and Methodology report. The distribution of generation in each scenario based on technology, area and node is given in Appendix B of the Assumptions and Methodology report. The node-level installed wind and solar generation for Area B in the “ECP” scenario is given in Table 1-1.

Node	SO	Status	Solar	Wind
Bellacorick	DSO	due to connect		34
Bellacorick	TSO	connected		83
Bellacorick	DSO	due to connect		37
Bellacorick	TSO	connected		89
Bellacorick	TSO	due to connect		50
Bellacorick	DSO	connected		6
Bellacorick	DSO	connected		3
Cashla	TSO	due to connect	100	
Castlebar	DSO	connected		7
Castlebar	DSO	connected		8
Castlebar	DSO	connected		28
Cloon	DSO	due to connect	29	
Cloon	TSO	due to connect	50	
Cloon	DSO	due to connect		15
Cloon	DSO	connected		4
Cunghill	TSO	connected		35
Dalton	DSO	due to connect	9	
Dalton	DSO	connected		41
Dalton	DSO	connected		3
Firlough	TSO	due to connect		76
Glenree	DSO	connected		40
Glenree	DSO	due to connect		9
Glenree	DSO	connected		37
Knockranny	TSO	connected		64
Knockranny	TSO	due to connect		92
Knockranny	TSO	connected		34
Moy	DSO	due to connect	5	
Moy	DSO	connected		6
Salthill	DSO	connected		41
Screeb	DSO	due to connect		4
Screeb	DSO	connected		6
Shantallow	TSO	due to connect	35	
Sligo	DSO	due to connect		8
Sligo	DSO	connected		14
Tawnaghmore	DSO	connected		19
Tonroe	DSO	connected		12
Uggool	TSO	connected		169
Total			228	1074

Table 1-1 Wind and Solar Generation Summary in Area B for Generation Scenario “ECP”

Table 1-2 and Table 1-3 show installed solar and wind generation for Ireland and Area B, and the available solar and wind generation for Area B for each generation scenario.

Solar	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Ireland (MW)	1563	3052	4542	6031	6031	6031
Installed Area B (MW)	43	105	166	228	228	228
Installed Controllable Area B (MW)	43	105	166	228	228	228
Available Controllable Area B (GWh)	55	134	213	291	291	291

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

Wind	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Ireland (MW)	5144	5734	6324	6913	9987	11913
Installed Area B (MW)	777	876	975	1074	1074	1074
Installed Controllable Area B (MW)	722	820	919	1018	1018	1018
Available Controllable Area B (GWh)	2615	2950	3284	3598	3598	3598

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

1.4 Network Overview

Area B, in the west of the country includes a mix of wind and solar generation. A summary of this generation is given in Table 1.1.

The transmission network in Area B 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 below.



Figure 1-1 Network Map for Area B

At times of high renewable generation, there is a net export of power from Area B, and the dominant power flows tend to be from Area B 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 B 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 B.

Also, the power flowing out of Area B meets and joins with power flows from other areas, as the power flows towards the demand centres and interconnectors. A transmission bottleneck between Area B and the east is shared with power flows coming from other areas.

1.5 Future Grid Sensitivity Scenario

In line with the ECP-2.1 and ECP-2.2 studies, and in response to feedback from industry, the Future Grid scenario is included in the analysis. All reasonable efforts have been made to align the network assumptions in the Future Grid scenario to the Shaping Our Electricity Future (SOEF) 1.1 Roadmap. The network projects included in the study are given in Appendix A of the Assumptions and Methodology report found on the ECP-2.3 webpage. Additionally, any project that has progressed to stage three of the six stage project planning process after the publication of the SOEF 1.1 Roadmap are also included in the Future Grid studies. Note however, that the wind and solar generation portfolio in the ECP-2.3 Future Grid scenario differs from the wind and solar portfolio considered in the SOEF 1.1 Roadmap. This is done to maintain alignment with the ECP-2.3 process. The ECP study scenario includes all wind and solar projects which have applied through connection processes, whereas the SOEF 1.1 study includes generators up to and including ECP-2.3 applicants and then scaled renewable generation capacity to achieve the capacity volumes stated in the Climate Action Plan 23.

The Future Grid study includes a base renewable generation scenario (ECP), along with three sensitivity generation scenarios (ECP + 3.1 GW offshore, ECP + 5 GW offshore and a maintenance sensitivity study). The scenarios with additional offshore wind have been included to show the potential impact of increasing offshore wind on Total Dispatch Down levels.

The demand modelled for the Future Grid scenario is based on the medium demand scenario for 2030 as published in the All-Island Generation Capacity Statement 2023-2032.

The purpose of the Future Grid scenario is to provide insights on the potential impact of the SOEF 1.1 Roadmap network reinforcement portfolio on the dispatch down of wind and solar generators. This study is not intended to be exhaustive; it is not intended to remove all transmission constraints and it does not give individual generators guarantee that their Total Dispatch Down will change to the estimated levels.

1.6 Area B - Average Results

The Total Dispatch Down results for Area B are provided below in Table 1-5 to Table 1-11 and Figure 1-3 to Figure 1-9. These include the breakdown between surplus, curtailment and constraint. 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 2028 studies are compared with 2026 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 B (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 1-11. 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 Section 2 of the Assumptions and Methodology report.

1.6.1 Offshore Wind Sensitivity Studies

Results for the offshore wind-based sensitivity studies are included, along with results for the core scenarios. The general trend is that with increasing levels of offshore wind, Total Dispatch Down increases due to significant increases in the available wind energy, which in turn leads to increased levels of surplus.

1.6.2 Impact of Article 12 and 13

Higher Total Dispatch Down is observed for non-priority generators due to the impact of the implementation of Article 12 and 13 in the studies, which results in non-priority generators being reduced ahead of priority generators for surplus and constraint reasons. More detail on the Article 12 clause is available in Section 3.6 of the Assumptions and Methodology report.

Another factor that contributes to the higher total dispatch down for non-priority wind and solar units is the proportion of priority to non-priority units within a subgroup. If a subgroup has a high volume of priority wind/solar units to non-priority wind/solar units, this can result in the constraints that would usually be allocated to the priority units only allocated to the non-priority units (due to the grandfathering of constraints). This can result in high constraints for non-priority units within a subgroup.

1.6.3 Future Grid Sensitivity Study

The results of the Future Grid scenario show a notable reduction in Total Dispatch Down over the core study years (2026 and 2028) due to the impact of the SOEF 1.1 Roadmap network reinforcements, increased demand levels, increased interconnection, and the relaxation of operational constraints. However, increases in installed wind and solar generation, as seen in the offshore wind scenarios, result in rising surplus levels, causing an increase in Total Dispatch Down levels. A detailed breakdown of the Total Dispatch Down components for Area B under the Future Grid scenarios and associated sensitivity case is given in Table 1-5 to Table 1-11. Further node level details can be viewed in Section 2.

1.6.4 Area Subgroups

The constraint forecast study, which is performed using PLEXOS software, applies mathematical optimisation to find the lowest cost generator dispatch schedule to meet demand, subject to a number of system and transmission level constraints. To ensure the model is impartial, the assumptions on the cost of renewable generators remain the same, irrespective of technology or location, and are always lower than that of conventional plants. This ensures renewable generators are given priority in the PLEXOS optimisation. However, due to network congestion caused by line limits and N-1 contingency security checks, the power flows in certain lines are limited, causing dispatch down in RES generators which may affect one generator or multiple generators chosen by PLEXOS' internal logic. During various initial studies, it was observed that PLEXOS may repeatedly choose the same generator(s) to dispatch down to manage an issue in a region shared by multiple generators.

There is often 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.

In Area B, during the high renewable energy scenarios, the Sligo 110 kV and Srananagh 220 kV region becomes a major bottleneck for the northern part of Area B. Power flowing from Area A and generation from Area B merge in this region. Additionally, the 110 kV circuit from Bellacorick to Sligo is heavily loaded. The loss of a 220 kV circuit/transformer in this region creates an overload in the associated 110 kV circuits. Area B also sees binding issues for generators connected to the 110 kV lines that are connecting to Cashla 220 kV. However, the generators at Castlebar 110 kV and Dalton 110 kV experience rescue flows pushing back to Bellacorick station and are hence considered as a part of A, B North subgroup. The 110 kV parallel paths are critical transmission infrastructure for these areas during times of high wind. Any loss of these 110 kV parallel lines results in additional dispatch down. This region is hence considered as a part of Area A to form Area A and B North subgroup. In 2028, the area receives reinforcements, and these reduce the stress in the region and increase the power flow towards the east.

For southern region of Area B, the issues are more localised around Cashla, Galway and Knockranny and less severe compared to northern part of Area B. The Cashla 220 kV Station by itself is well connected using the 220 kV circuits and is not considered as a part of this subgroup. Furthermore, the Cloon 110 kV station is connected to Cashla and Lanesboro and sees less congestion and is therefore also not included in this subgroup.

The contingencies and overloaded lines associated with the area are included in Appendix C of the Assumptions and Methodology report.

This subgroup arrangement represents a significant difference from the ECP-2.2 constraint forecast study where the whole of Area A, B North, C North & G North all formed the one subgroup.

Subgroup	Nodes
A, B North	Bellacorick
	Castlebar
	Cunghill
	Dalton
	Firlough
	Glenree
	Moy
	Sligo
	Tawnaghmore
B South	Knockranny
	Salthill
	Screeb
	Uggool
C	Cashla
	Cloon
	Shantallow

Table 1-4 Area B generators nodes and their subgroups



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

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

Area B (A, B North)	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	4	7	11	14		
Installed Capacity (MW)	2028	4	7	11	14	14	
Installed Capacity (MW)	2030				14	14	14
Available Energy (GWh)	2026	5	9	13	17		
Available Energy (GWh)	2028	5	9	13	17	17	
Available Energy (GWh)	2030				17	17	17
Generation (GWh)	2026	5	8	11	13		
Generation (GWh)	2028	5	8	11	13	13	
Generation (GWh)	2030				15	15	14
Surplus (%)	2026	1 %	2 %	5 %	9 %		
Surplus (%)	2028	<1 %	<1 %	2 %	5 %	11 %	
Surplus (%)	2030				2 %	6 %	10 %
Curtailement (%)	2026	1 %	1 %	2 %	4 %		
Curtailement (%)	2028	<1 %	1 %	1 %	2 %	3 %	
Curtailement (%)	2030				1 %	1 %	1 %
Constraint (%)	2026	4 %	10 %	10 %	9 %		
Constraint (%)	2028	5 %	12 %	13 %	13 %	9 %	
Constraint (%)	2030				6 %	4 %	3 %
Total Dispatch Down (%)	2026	5 %	14 %	17 %	21 %		
Total Dispatch Down (%)	2028	5 %	13 %	17 %	20 %	23 %	
Total Dispatch Down (%)	2030				9 %	11 %	14 %

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

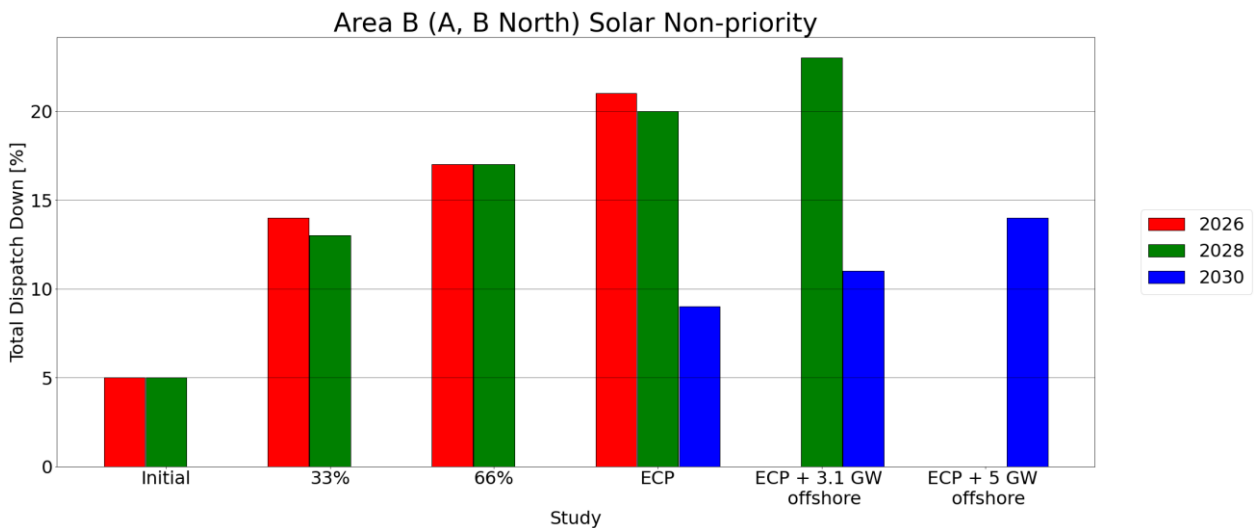


Figure 1-3 Results Solar Non-Priority Area B (A, B North)

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

Area B (A, B North)	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	221	291	362	433		
Installed Capacity (MW)	2028	221	291	362	433	433	
Installed Capacity (MW)	2030				433	433	433
Available Energy (GWh)	2026	671	886	1101	1316		
Available Energy (GWh)	2028	676	892	1109	1325	1325	
Available Energy (GWh)	2030				1316	1316	1316
Generation (GWh)	2026	299	426	514	571		
Generation (GWh)	2028	293	438	552	622	568	
Generation (GWh)	2030				951	928	852
Surplus (%)	2026	2 %	5 %	10 %	15 %		
Surplus (%)	2028	<1 %	1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailement (%)	2026	2 %	3 %	4 %	5 %		
Curtailement (%)	2028	<1 %	1 %	2 %	3 %	5 %	
Curtailement (%)	2030				1 %	2 %	2 %
Constraint (%)	2026	51 %	43 %	39 %	36 %		
Constraint (%)	2028	56 %	49 %	45 %	44 %	30 %	
Constraint (%)	2030				25 %	16 %	10 %
Total Dispatch Down (%)	2026	55 %	52 %	53 %	57 %		
Total Dispatch Down (%)	2028	57 %	51 %	50 %	53 %	57 %	
Total Dispatch Down (%)	2030				28 %	30 %	35 %

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

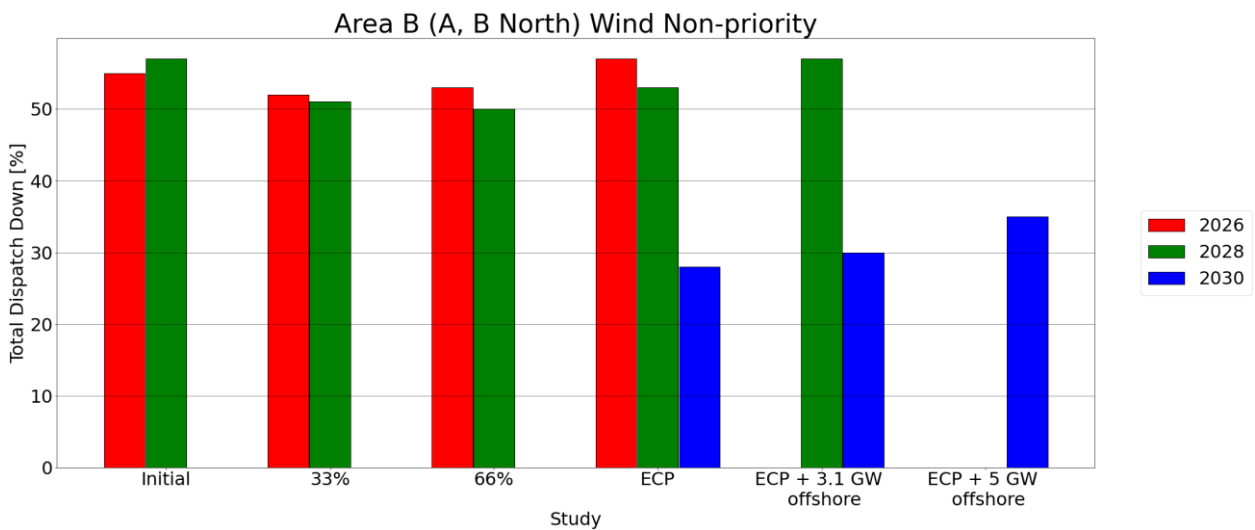


Figure 1-4 Results Wind Non-Priority in Area B (A, B North)

The wind priority data is given in the following table.

Area B (A, B North)	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	166	166	166	166		
Installed Capacity (MW)	2028	166	166	166	166	166	
Installed Capacity (MW)	2030				166	166	166
Available Energy (GWh)	2026	505	505	505	505		
Available Energy (GWh)	2028	509	509	509	509	509	
Available Energy (GWh)	2030				505	505	505
Generation (GWh)	2026	493	485	476	468		
Generation (GWh)	2028	507	502	496	489	471	
Generation (GWh)	2030				502	476	488
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailement (%)	2026	2 %	4 %	6 %	7 %		
Curtailement (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailement (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

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

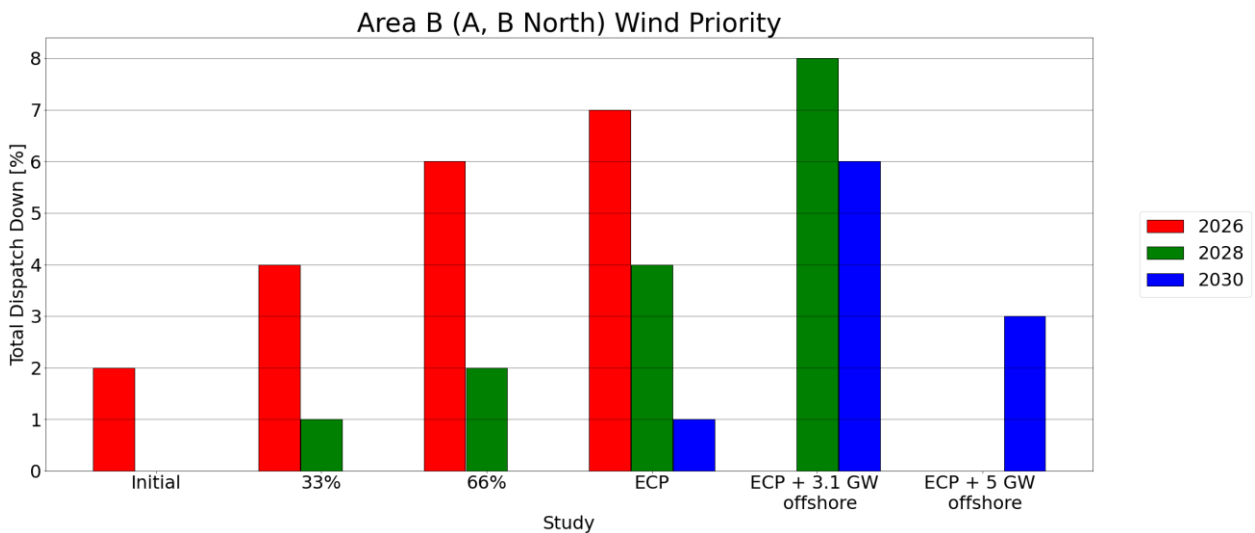


Figure 1-5 Results Wind Priority Area B (A, B North)

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

Area B (C)	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	39	97	156	214		
Installed Capacity (MW)	2028	39	97	156	214	214	
Installed Capacity (MW)	2030				214	214	214
Available Energy (GWh)	2026	50	125	199	274		
Available Energy (GWh)	2028	50	125	200	275	275	
Available Energy (GWh)	2030				274	274	274
Generation (GWh)	2026	45	115	180	236		
Generation (GWh)	2028	46	118	189	251	233	
Generation (GWh)	2030				260	253	242
Surplus (%)	2026	1 %	3 %	5 %	9 %		
Surplus (%)	2028	<1 %	1 %	2 %	5 %	11 %	
Surplus (%)	2030				3 %	6 %	10 %
Curtailement (%)	2026	1 %	1 %	2 %	4 %		
Curtailement (%)	2028	<1 %	1 %	1 %	2 %	3 %	
Curtailement (%)	2030				1 %	1 %	1 %
Constraint (%)	2026	9 %	4 %	2 %	1 %		
Constraint (%)	2028	9 %	4 %	2 %	1 %	1 %	
Constraint (%)	2030				2 %	<1 %	<1 %
Total Dispatch Down (%)	2026	10 %	8 %	10 %	14 %		
Total Dispatch Down (%)	2028	9 %	5 %	5 %	9 %	15 %	
Total Dispatch Down (%)	2030				5 %	8 %	12 %

Table 1-8 - Surplus, Curtailment and Constraint for Solar Non-priority in Area B (C)

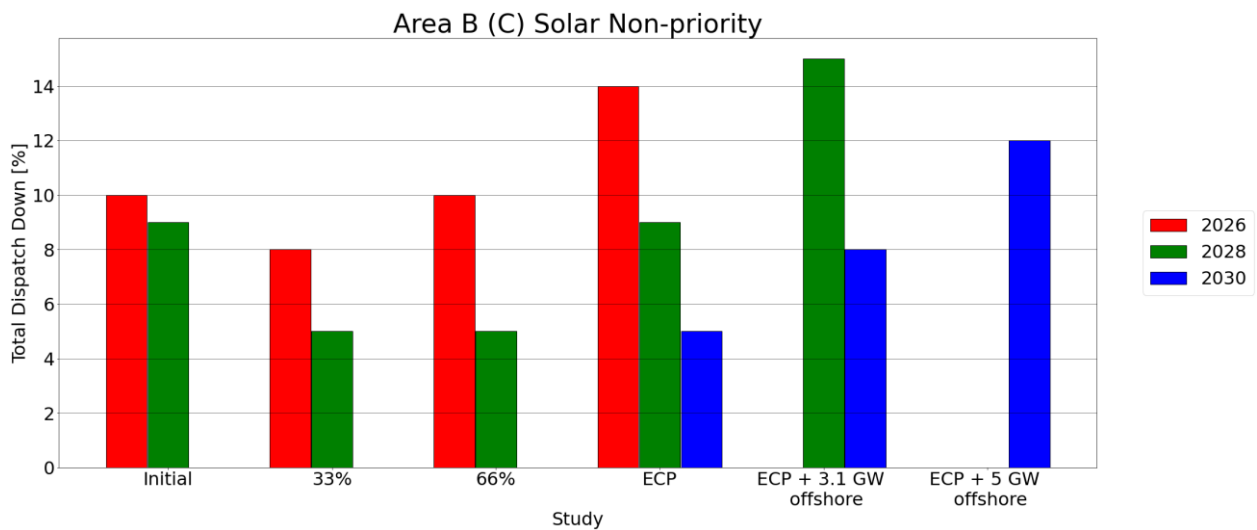


Figure 1-6 - Results Solar Non-priority Area B (C)

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

Area B (C)	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026		5	10	15		
Installed Capacity (MW)	2028		5	10	15	15	
Installed Capacity (MW)	2030				15	15	15
Available Energy (GWh)	2026		15	30	46		
Available Energy (GWh)	2028		15	31	46	46	
Available Energy (GWh)	2030				46	46	46
Generation (GWh)	2026		10	23	33		
Generation (GWh)	2028		11	26	39	31	
Generation (GWh)	2030				43	39	34
Surplus (%)	2026		5 %	10 %	15 %		
Surplus (%)	2028		1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailement (%)	2026		3 %	4 %	5 %		
Curtailement (%)	2028		1 %	2 %	3 %	5 %	
Curtailement (%)	2030				1 %	2 %	2 %
Constraint (%)	2026		25 %	11 %	6 %		
Constraint (%)	2028		29 %	11 %	6 %	5 %	
Constraint (%)	2030				4 %	1 %	1 %
Total Dispatch Down (%)	2026		34 %	25 %	27 %		
Total Dispatch Down (%)	2028		31 %	16 %	15 %	33 %	
Total Dispatch Down (%)	2030				6 %	15 %	26 %

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

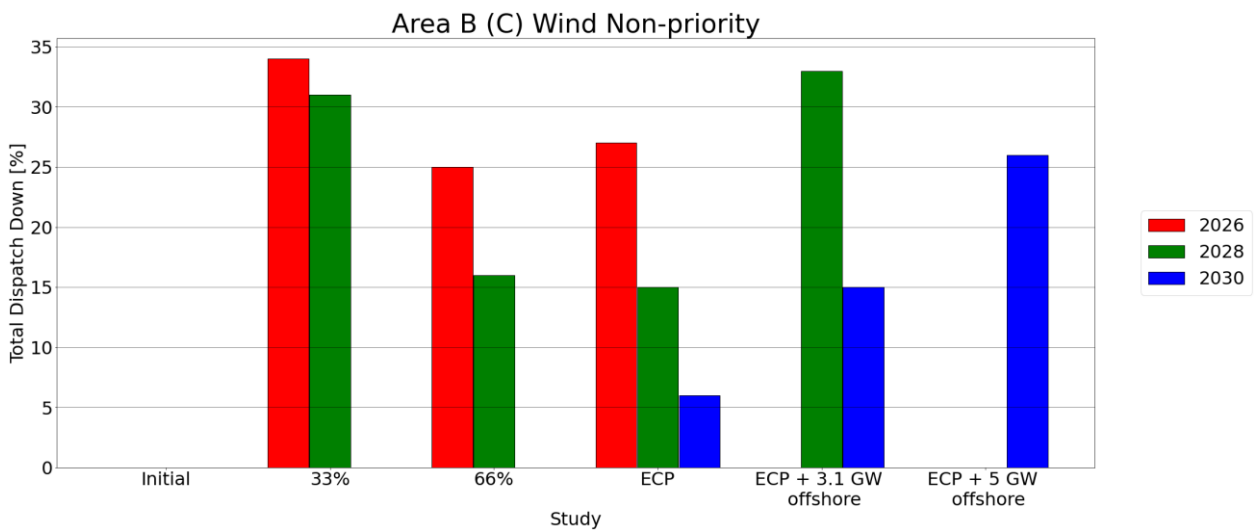


Figure 1-7 - Results Wind Non-priority Area B (C)

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

Area B (B South)	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	91	114	138	161		
Installed Capacity (MW)	2028	91	114	138	161	161	
Installed Capacity (MW)	2030				161	161	161
Available Energy (GWh)	2026	403	506	608	711		
Available Energy (GWh)	2028	405	508	611	714	714	
Available Energy (GWh)	2030				711	711	711
Generation (GWh)	2026	351	416	456	483		
Generation (GWh)	2028	385	483	567	616	546	
Generation (GWh)	2030				675	639	568
Surplus (%)	2026	1 %	4 %	7 %	11 %		
Surplus (%)	2028	<1 %	<1 %	2 %	4 %	18 %	
Surplus (%)	2030				1 %	9 %	18 %
Curtailement (%)	2026	2 %	2 %	3 %	4 %		
Curtailement (%)	2028	<1 %	1 %	1 %	2 %	4 %	
Curtailement (%)	2030				<1 %	1 %	2 %
Constraint (%)	2026	10 %	11 %	15 %	17 %		
Constraint (%)	2028	5 %	4 %	4 %	7 %	2 %	
Constraint (%)	2030				3 %	<1 %	<1 %
Total Dispatch Down (%)	2026	13 %	18 %	25 %	32 %		
Total Dispatch Down (%)	2028	5 %	5 %	7 %	14 %	23 %	
Total Dispatch Down (%)	2030				5 %	10 %	20 %

Table 1-10 - Surplus, Curtailment and Constraint for Wind Non-priority in Area B (B South)

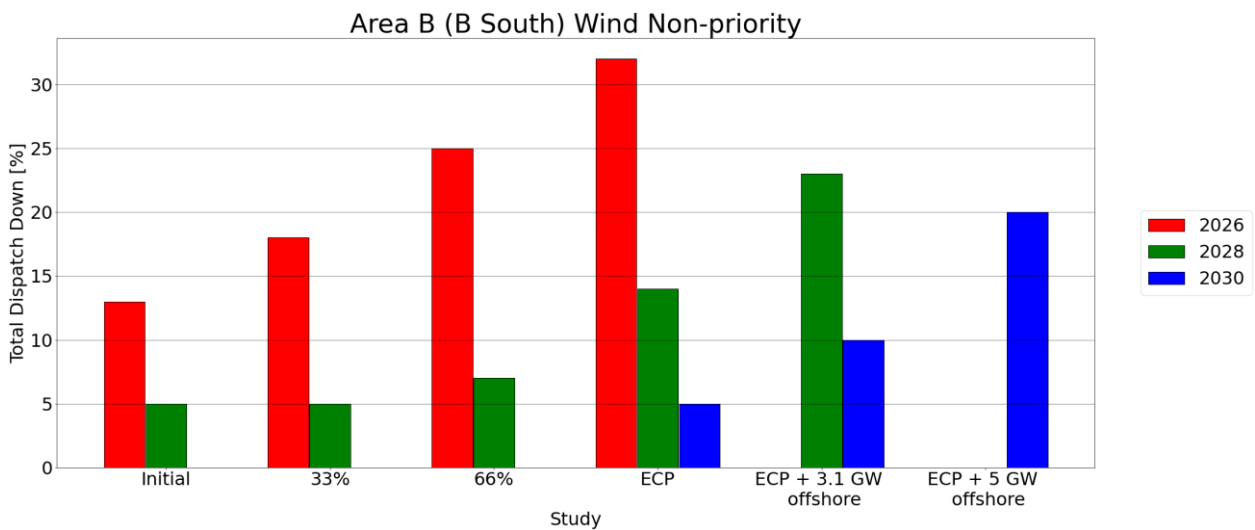


Figure 1-8 - Results Wind Non-priority Area B (B South)

The wind priority data is given in the following table.

Area B (B South)	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	244	244	244	244		
Installed Capacity (MW)	2028	244	244	244	244	244	
Installed Capacity (MW)	2030				244	244	244
Available Energy (GWh)	2026	1020	1020	1020	1020		
Available Energy (GWh)	2028	1025	1025	1025	1025	1025	
Available Energy (GWh)	2030				1020	1020	1020
Generation (GWh)	2026	1001	989	973	960		
Generation (GWh)	2028	1023	1015	1007	995	959	
Generation (GWh)	2030				1015	972	989
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailement (%)	2026	2 %	3 %	5 %	6 %		
Curtailement (%)	2028	<1 %	1 %	2 %	3 %	7 %	
Curtailement (%)	2030				1 %	5 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	3 %	5 %	6 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	3 %	7 %	
Total Dispatch Down (%)	2030				1 %	5 %	3 %

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

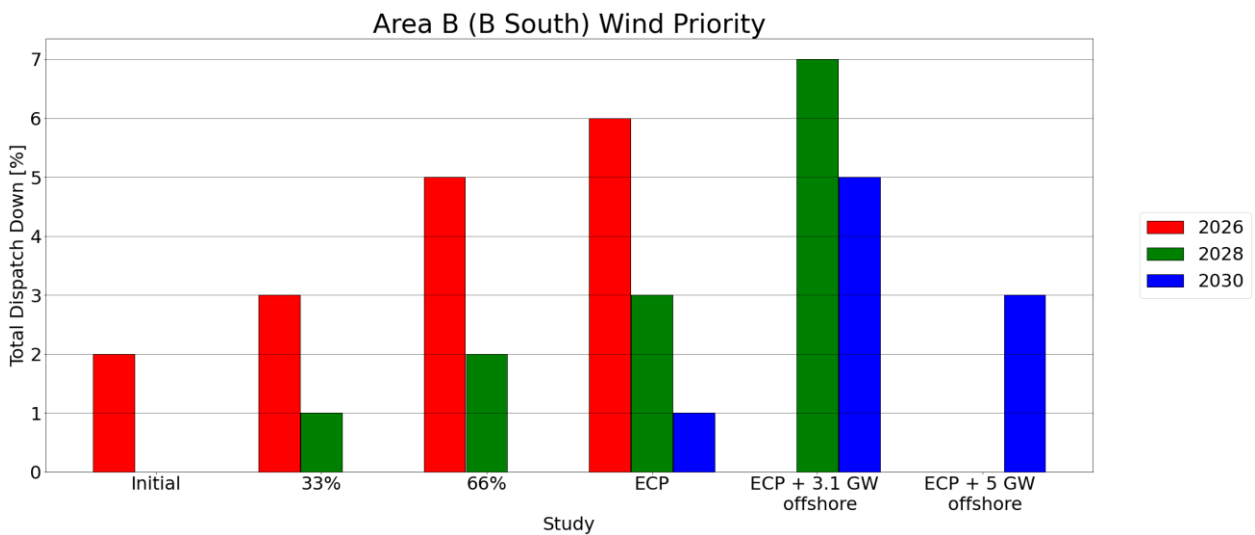


Figure 1-9 - Results Wind Priority Area B (B South)

1.7 Conclusion - Results for Area B

This section provides an overview of the estimated surplus, curtailment and constraint values for Area B for a range of scenarios based on a number of installed generation assumptions (generation scenarios) and the study year (network and demand assumptions). The results highly depend on the study assumptions, which are described in the Assumptions and Methodology report.

Section 2 contains the detailed results consisting of available energy (GWh) and percentage surplus, curtailment, and constraint values for each node for both solar and wind in Area B.

2 Area B Node Results

This section presents the results of the modelling analysis for Area B. The levels of surplus, curtailment and constraint that controllable solar and wind generators in Area B might expect to experience are reported on a nodal basis for the study scenarios. Details on the generation capacity at each node are also provided along with the assumed amount of controllable generation.

This section also presents a list of the generators at each node that are included in the study.

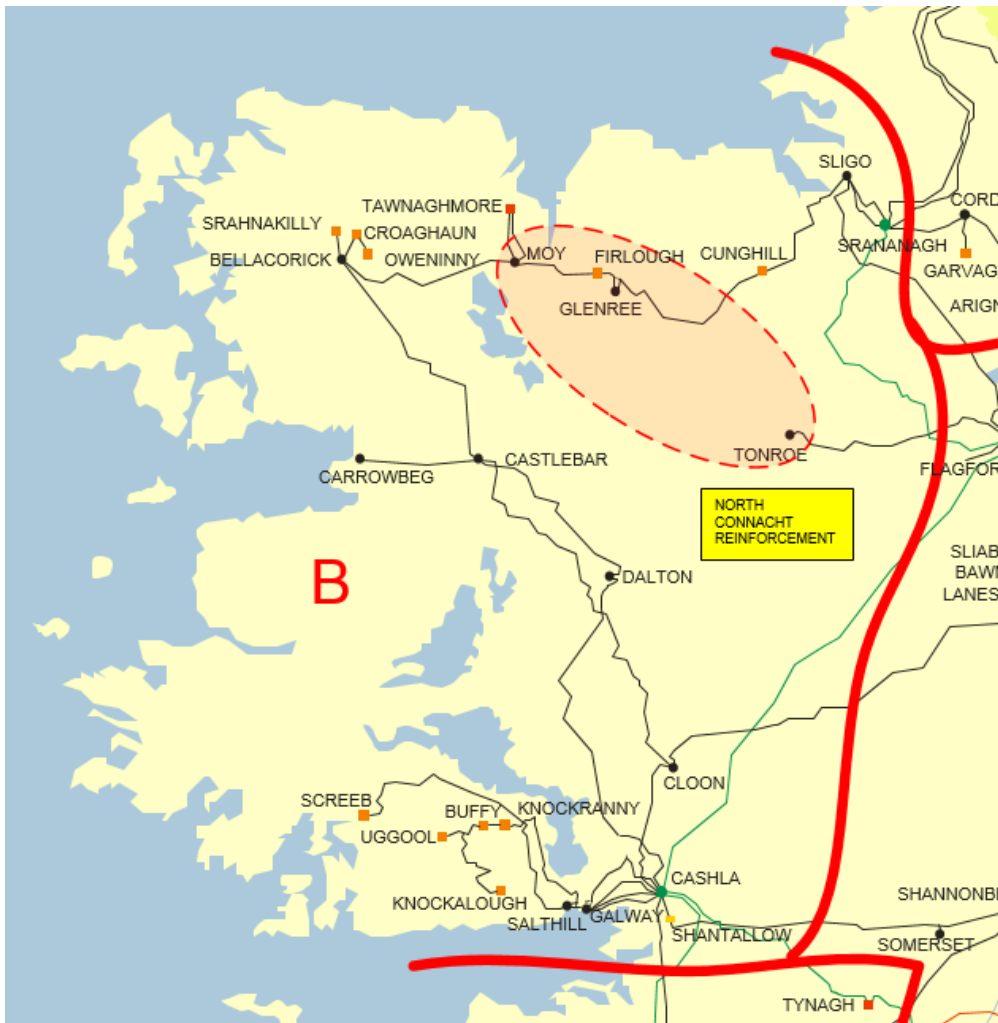


Figure 2-0 Area B

2.1 Bellacorick



Figure 2-1 - Location of node Bellacorick

Generator	SO	Capacity	Type	Status
Bellacorick (1)	DSO	6.45	wind priority	connected
Bunnahowen (1)	DSO	2.55	wind uncontrolled	connected
Corvoderry (was Gortnahurra (1))	DSO	33.9	wind non-priority	due to connect
Dooleeg More (1)	DSO	2.5	wind non-priority	due to connect
Dooleeg More Ext.	DSO	1.3	wind non-priority	due to connect
Oweninny 3 (Previously Oweninny 5)	TSO	50.0	wind non-priority	due to connect
Oweninny Power (1)	TSO	89.0	wind non-priority	connected
Oweninny Power (2)	TSO	83.0	wind non-priority	connected
Sheskin (1)	DSO	33.0	wind non-priority	due to connect

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

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	173	213	253	293		
Installed Capacity (MW)	2028	173	213	253	293	293	
Installed Capacity (MW)	2030				293	293	293
Available Energy (GWh)	2026	527	648	769	890		
Available Energy (GWh)	2028	531	653	774	896	896	
Available Energy (GWh)	2030				890	890	890
Generation (GWh)	2026	235	312	359	386		
Generation (GWh)	2028	230	320	386	420	384	
Generation (GWh)	2030				643	628	577
Surplus (%)	2026	2 %	5 %	10 %	15 %		
Surplus (%)	2028	<1 %	1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailed (%)	2026	2 %	3 %	4 %	5 %		
Curtailed (%)	2028	<1 %	1 %	2 %	3 %	5 %	
Curtailed (%)	2030				1 %	2 %	2 %
Constraint (%)	2026	51 %	43 %	39 %	36 %		
Constraint (%)	2028	56 %	49 %	45 %	44 %	30 %	
Constraint (%)	2030				25 %	16 %	10 %
Total Dispatch Down (%)	2026	55 %	52 %	53 %	57 %		
Total Dispatch Down (%)	2028	57 %	51 %	50 %	53 %	57 %	
Total Dispatch Down (%)	2030				28 %	30 %	35 %

Table 2-2 - Surplus, Curtailment and Constraint for Wind non-priority in Area B

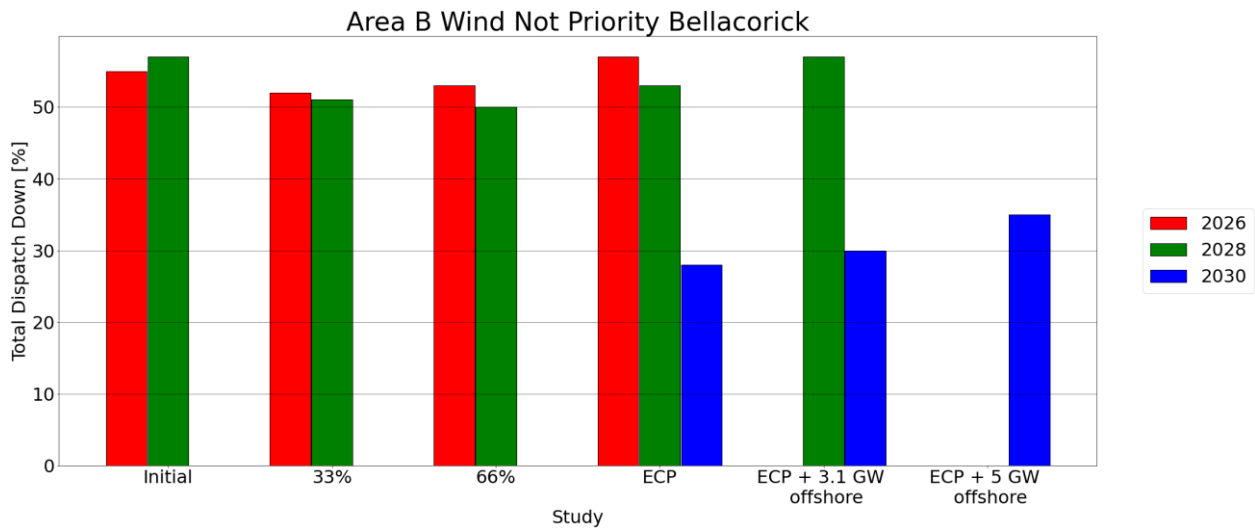


Figure 2-2 - Total Dispatch Down for Wind non-priority for Node Bellacorick

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	6	6	6	6		
Installed Capacity (MW)	2028	6	6	6	6	6	
Installed Capacity (MW)	2030				6	6	6
Available Energy (GWh)	2026	20	20	20	20		
Available Energy (GWh)	2028	20	20	20	20	20	
Available Energy (GWh)	2030				20	20	20
Generation (GWh)	2026	19	19	18	18		
Generation (GWh)	2028	20	19	19	19	18	
Generation (GWh)	2030				19	18	19
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailed (%)	2026	2 %	4 %	6 %	7 %		
Curtailed (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailed (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-3 - Surplus, Curtailment and Constraint for Wind priority in Area B

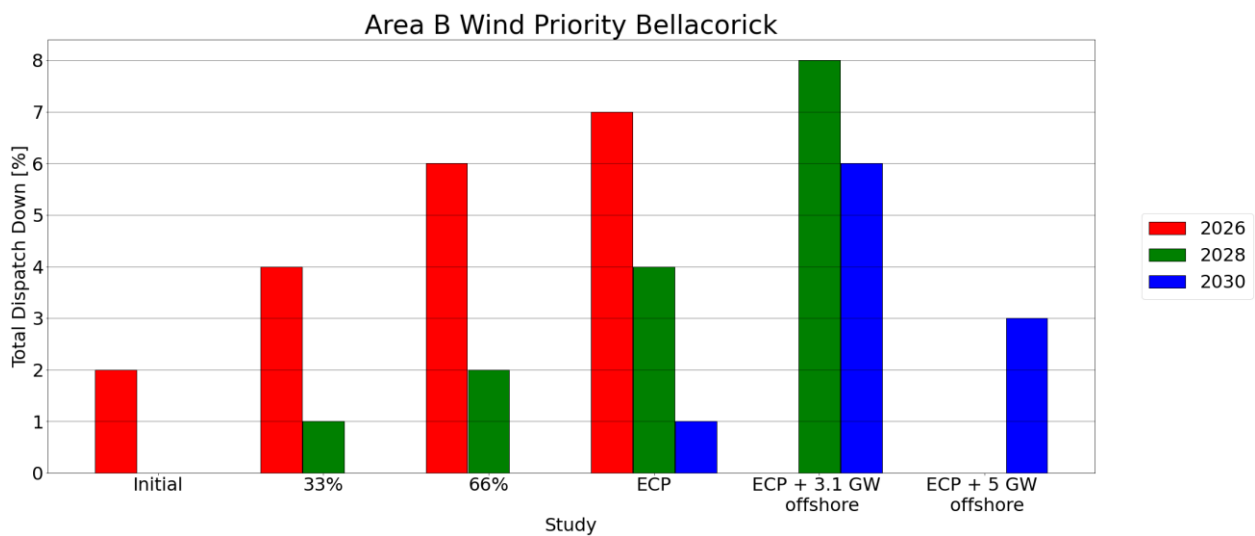


Figure 2-3 - Total Dispatch Down for Wind priority for Node Bellacorick

2.2 Cashla

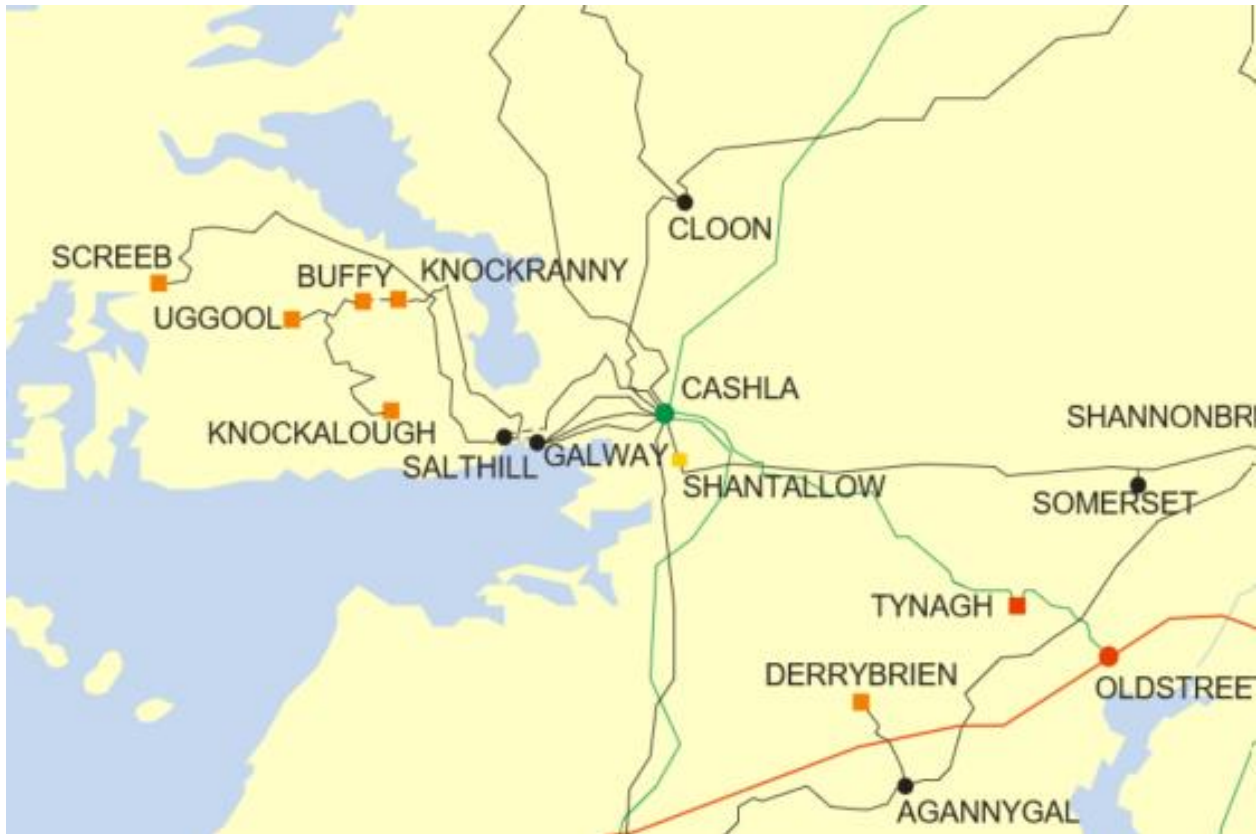


Figure 2-4 - Location of node Cashla

Generator	SO	Capacity	Type	Status
Ballymoneen Solar Park	TSO	100.0	solar non-priority	due to connect

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

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026		33	67	100		
Installed Capacity (MW)	2028		33	67	100	100	
Installed Capacity (MW)	2030				100	100	100
Available Energy (GWh)	2026		43	85	128		
Available Energy (GWh)	2028		43	86	128	128	
Available Energy (GWh)	2030				128	128	128
Generation (GWh)	2026		39	77	110		
Generation (GWh)	2028		41	81	117	109	
Generation (GWh)	2030				122	118	113
Surplus (%)	2026		3 %	5 %	9 %		
Surplus (%)	2028		1 %	2 %	5 %	11 %	
Surplus (%)	2030				3 %	6 %	10 %
Curtailement (%)	2026		1 %	2 %	4 %		
Curtailement (%)	2028		1 %	1 %	2 %	3 %	
Curtailement (%)	2030				1 %	1 %	1 %
Constraint (%)	2026		4 %	2 %	1 %		
Constraint (%)	2028		4 %	2 %	1 %	1 %	
Constraint (%)	2030				2 %	<1 %	<1 %
Total Dispatch Down (%)	2026		8 %	10 %	14 %		
Total Dispatch Down (%)	2028		5 %	5 %	9 %	15 %	
Total Dispatch Down (%)	2030				5 %	8 %	12 %

Table 2-5 - Surplus, Curtailement and Constraint for Solar non-priority in Area B

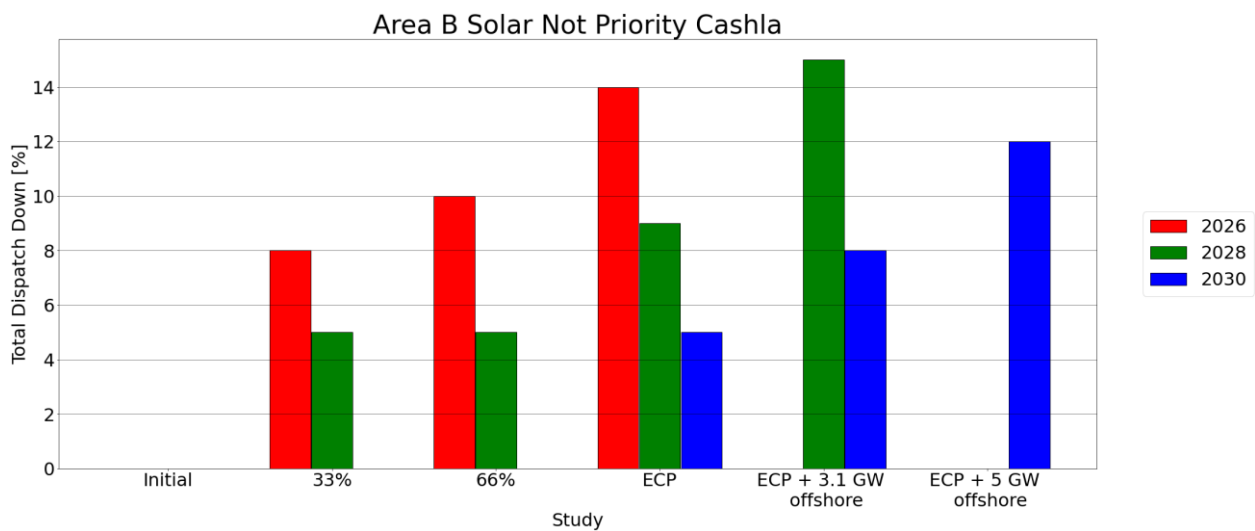


Figure 2-5 - Total Dispatch Down for Solar non-priority for Node Cashla

2.3 Castlebar

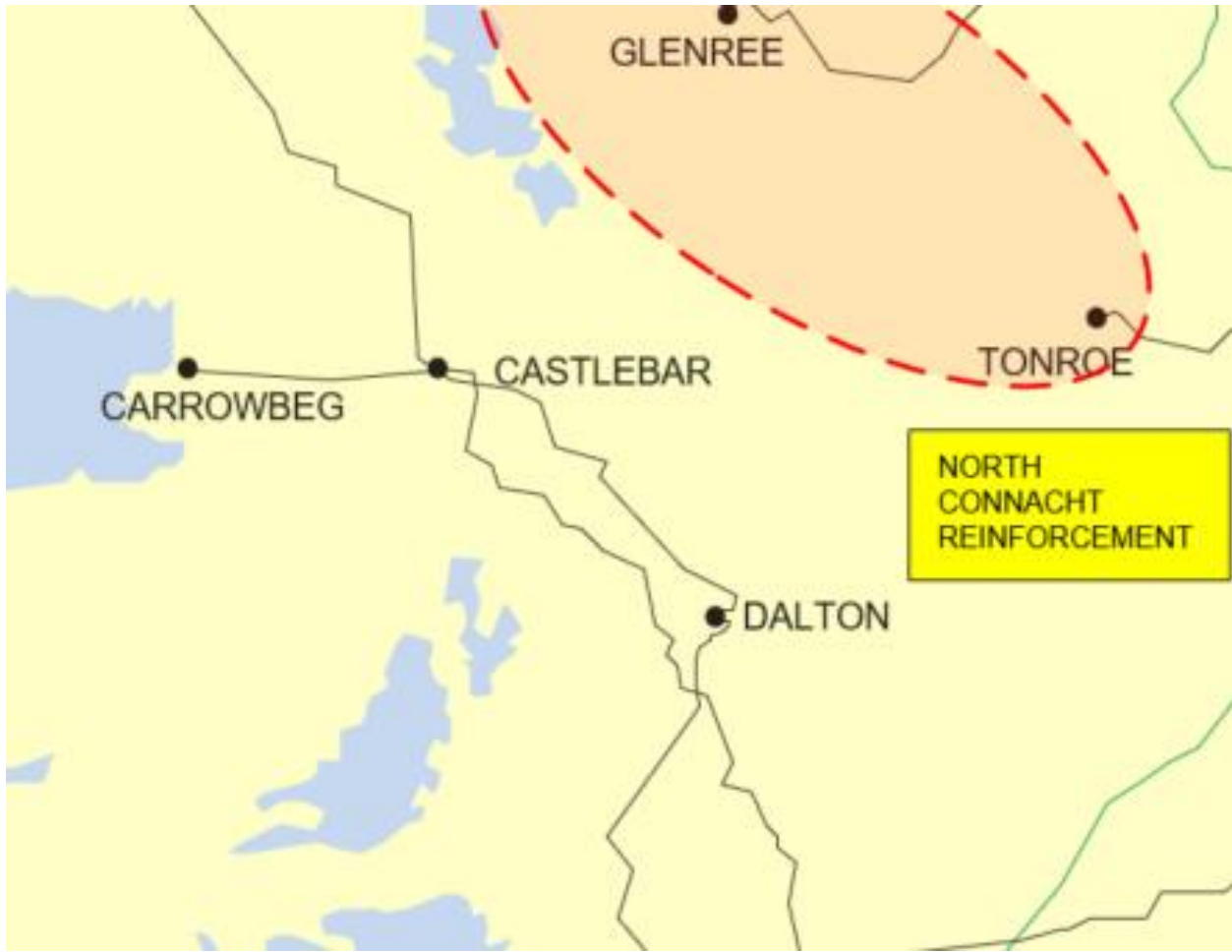


Figure 2-6 - Location of node Castlebar

Generator	SO	Capacity	Type	Status
Cuillalea (1)	DSO	3.4	wind uncontrolled	connected
Cuillalea (2)	DSO	1.59	wind uncontrolled	connected
Derrynadivva Wind Farm (prev. Raheen Bar 2)	DSO	8.5	wind priority	connected
Lenanavea (Burren) Wind Farm	DSO	4.65	wind uncontrolled	connected
Raheen Barr (1)	DSO	18.7	wind uncontrolled	connected
Raheen Barr extension (was Derrynadivva extension)	DSO	6.8	wind non-priority	connected

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

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	7	7	7	7		
Installed Capacity (MW)	2028	7	7	7	7	7	
Installed Capacity (MW)	2030				7	7	7
Available Energy (GWh)	2026	21	21	21	21		
Available Energy (GWh)	2028	21	21	21	21	21	
Available Energy (GWh)	2030				21	21	21
Generation (GWh)	2026	9	10	10	9		
Generation (GWh)	2028	9	10	10	10	9	
Generation (GWh)	2030				15	15	13
Surplus (%)	2026	2 %	5 %	10 %	15 %		
Surplus (%)	2028	<1 %	1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailement (%)	2026	2 %	3 %	4 %	5 %		
Curtailement (%)	2028	<1 %	1 %	2 %	3 %	5 %	
Curtailement (%)	2030				1 %	2 %	2 %
Constraint (%)	2026	51 %	43 %	39 %	36 %		
Constraint (%)	2028	56 %	49 %	45 %	44 %	30 %	
Constraint (%)	2030				25 %	16 %	10 %
Total Dispatch Down (%)	2026	55 %	52 %	53 %	57 %		
Total Dispatch Down (%)	2028	57 %	51 %	50 %	53 %	57 %	
Total Dispatch Down (%)	2030				28 %	30 %	35 %

Table 2-7 - Surplus, Curtailement and Constraint for Wind non-priority in Area B

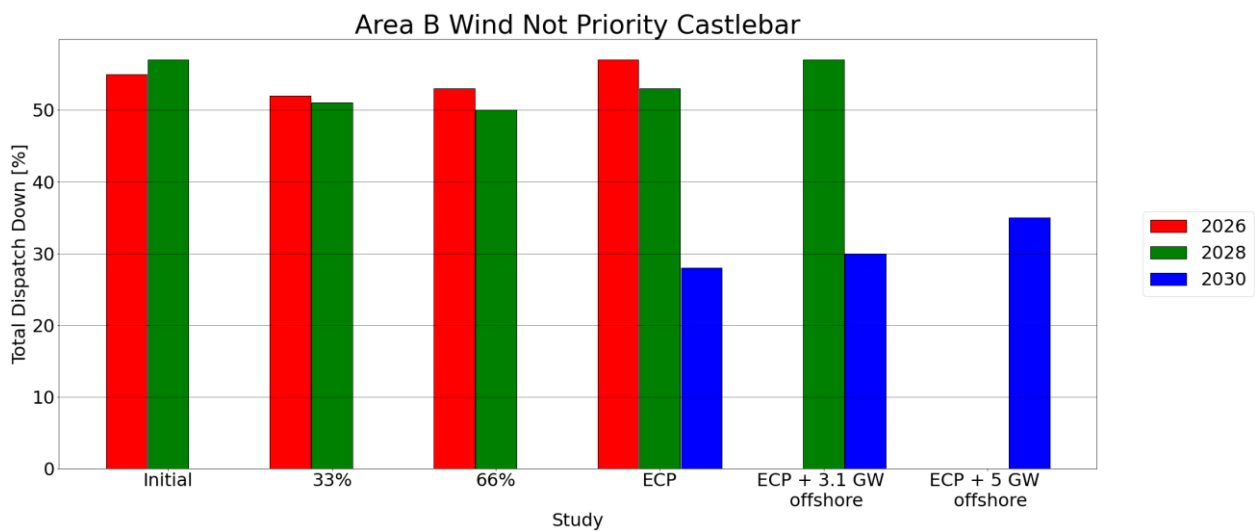


Figure 2-7 - Total Dispatch Down for Wind non-priority for Node Castlebar

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	8	8	8	8		
Installed Capacity (MW)	2028	8	8	8	8	8	
Installed Capacity (MW)	2030				8	8	8
Available Energy (GWh)	2026	26	26	26	26		
Available Energy (GWh)	2028	26	26	26	26	26	
Available Energy (GWh)	2030				26	26	26
Generation (GWh)	2026	25	25	24	24		
Generation (GWh)	2028	26	26	25	25	24	
Generation (GWh)	2030				26	24	25
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailed (%)	2026	2 %	4 %	6 %	7 %		
Curtailed (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailed (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-8 - Surplus, Curtailment and Constraint for Wind priority in Area B

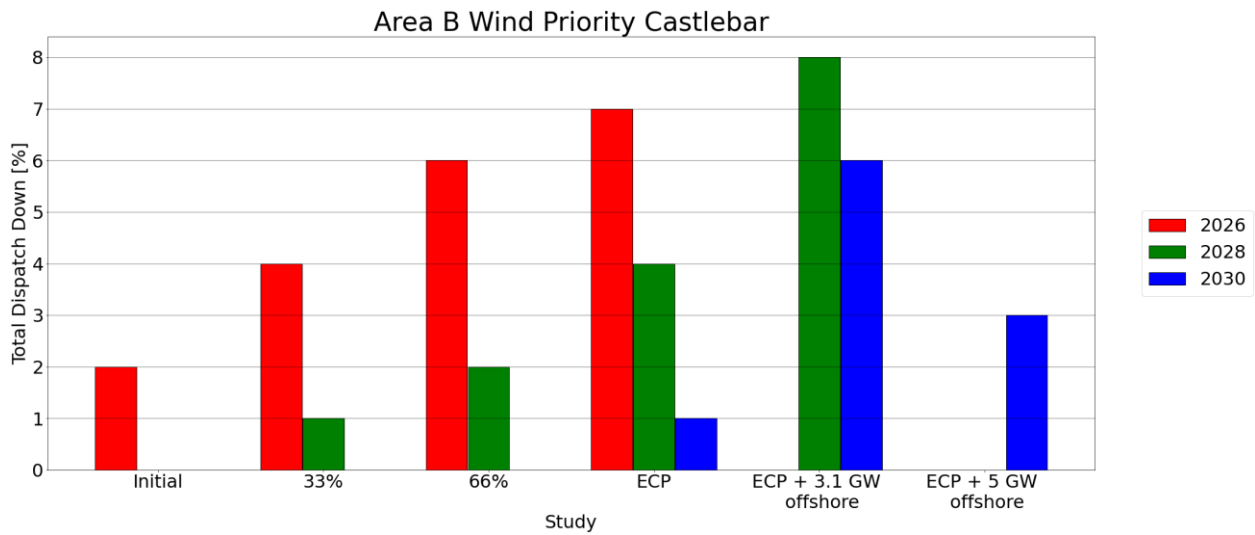


Figure 2-8 - Total Dispatch Down for Wind priority for Node Castlebar

2.4 Cloon

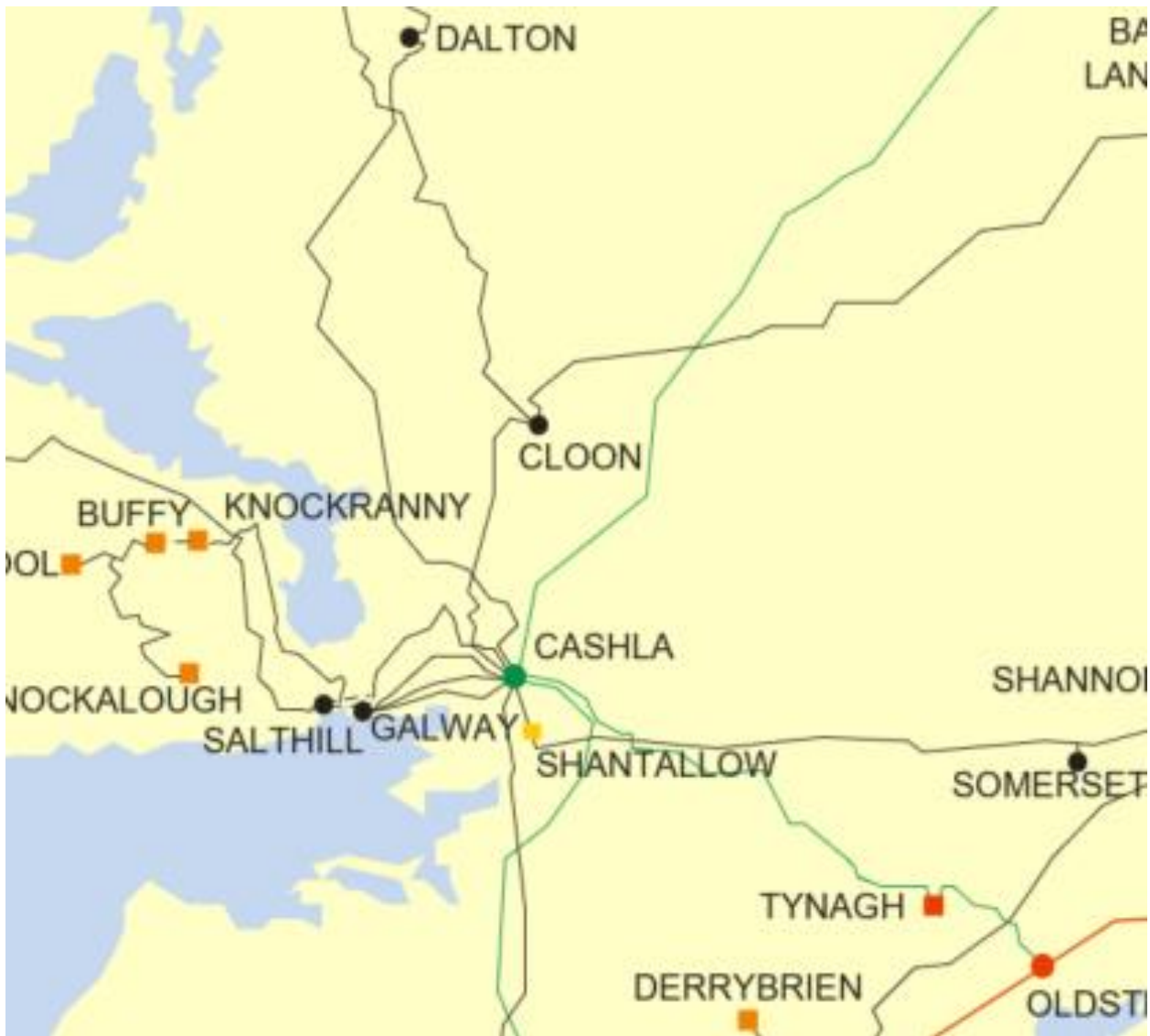


Figure 2-9 - Location of node Cloon

Generator	SO	Capacity	Type	Status
Barnacurragh Solar Park	TSO	50.0	solar non-priority	due to connect
Barnderg Solar Farm	DSO	4.0	solar non-priority	due to connect
Cloonascragh Solar	DSO	20.0	solar non-priority	due to connect
Clooninagh Wind Farm	DSO	4.99	wind non-priority	due to connect
Cloonlusk (1)	DSO	4.25	wind uncontrolled	connected
Milltown Community Solar Farm	DSO	4.99	solar non-priority	due to connect
Shantallow Wind Farm	DSO	4.99	wind non-priority	due to connect
Cloonbar WF	DSO	4.99	wind non-priority	due to connect

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

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	4	29	54	79		
Installed Capacity (MW)	2028	4	29	54	79	79	
Installed Capacity (MW)	2030				79	79	79
Available Energy (GWh)	2026	5	37	69	101		
Available Energy (GWh)	2028	5	37	69	101	101	
Available Energy (GWh)	2030				101	101	101
Generation (GWh)	2026	5	34	63	87		
Generation (GWh)	2028	5	35	66	93	86	
Generation (GWh)	2030				96	94	89
Surplus (%)	2026	1 %	3 %	5 %	9 %		
Surplus (%)	2028	<1 %	1 %	2 %	5 %	11 %	
Surplus (%)	2030				3 %	6 %	10 %
Curtailement (%)	2026	1 %	1 %	2 %	4 %		
Curtailement (%)	2028	<1 %	1 %	1 %	2 %	3 %	
Curtailement (%)	2030				1 %	1 %	1 %
Constraint (%)	2026	9 %	4 %	2 %	1 %		
Constraint (%)	2028	9 %	4 %	2 %	1 %	1 %	
Constraint (%)	2030				2 %	<1 %	<1 %
Total Dispatch Down (%)	2026	10 %	8 %	10 %	14 %		
Total Dispatch Down (%)	2028	9 %	5 %	5 %	9 %	15 %	
Total Dispatch Down (%)	2030				5 %	8 %	12 %

Table 2-10 - Surplus, Curtailment and Constraint for Solar non-priority in Area B

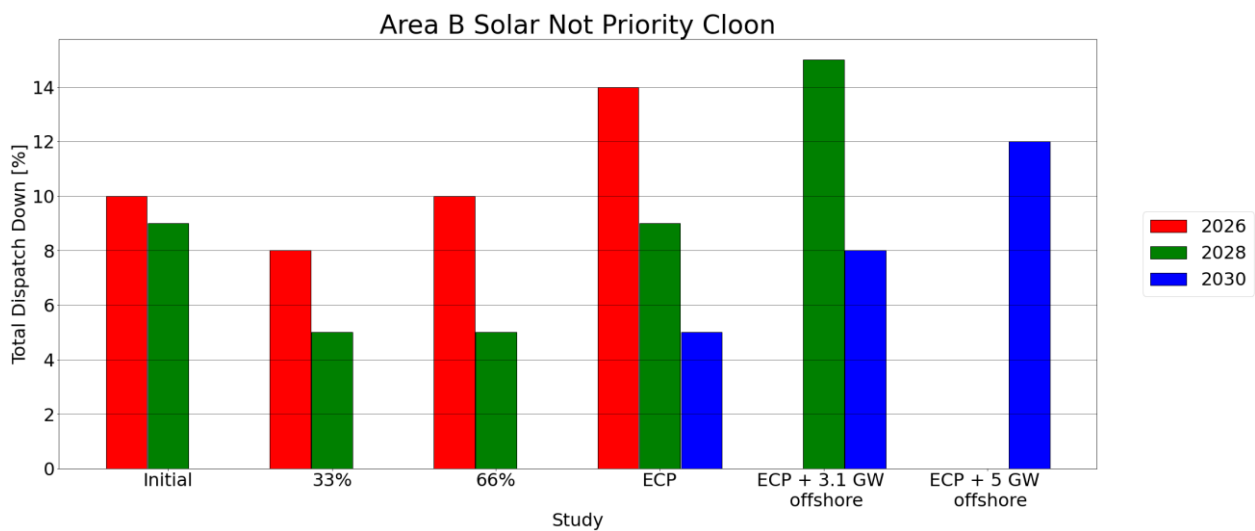


Figure 2-10 - Total Dispatch Down for Solar non-priority for Node Cloon

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026		5	10	15		
Installed Capacity (MW)	2028		5	10	15	15	
Installed Capacity (MW)	2030				15	15	15
Available Energy (GWh)	2026		15	30	46		
Available Energy (GWh)	2028		15	31	46	46	
Available Energy (GWh)	2030				46	46	46
Generation (GWh)	2026		10	23	33		
Generation (GWh)	2028		11	26	39	31	
Generation (GWh)	2030				43	39	34
Surplus (%)	2026		5 %	10 %	15 %		
Surplus (%)	2028		1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailement (%)	2026		3 %	4 %	5 %		
Curtailement (%)	2028		1 %	2 %	3 %	5 %	
Curtailement (%)	2030				1 %	2 %	2 %
Constraint (%)	2026		25 %	11 %	6 %		
Constraint (%)	2028		29 %	11 %	6 %	5 %	
Constraint (%)	2030				4 %	1 %	1 %
Total Dispatch Down (%)	2026		34 %	25 %	27 %		
Total Dispatch Down (%)	2028		31 %	16 %	15 %	33 %	
Total Dispatch Down (%)	2030				6 %	15 %	26 %

Table 2-11 - Surplus, Curtailement and Constraint for Wind non-priority in Area B

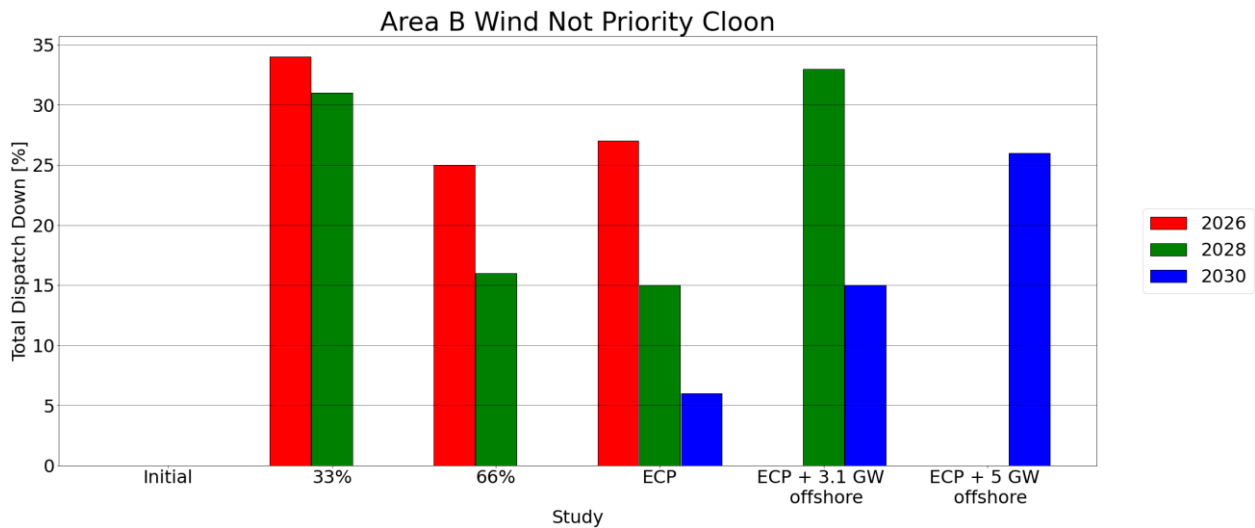


Figure 2-11 - Total Dispatch Down for Wind non-priority for Node Cloon

2.5 Cunghill



Figure 2-12 - Location of node Cunghill

Generator	SO	Capacity	Type	Status
Kingsmountain (1)	TSO	23.75	wind priority	connected
Kingsmountain (2)	TSO	11.05	wind priority	connected

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

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	35	35	35	35		
Installed Capacity (MW)	2028	35	35	35	35	35	
Installed Capacity (MW)	2030				35	35	35
Available Energy (GWh)	2026	106	106	106	106		
Available Energy (GWh)	2028	107	107	107	107	107	
Available Energy (GWh)	2030				106	106	106
Generation (GWh)	2026	103	102	100	98		
Generation (GWh)	2028	106	105	104	102	99	
Generation (GWh)	2030				105	100	102
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailement (%)	2026	2 %	4 %	6 %	7 %		
Curtailement (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailement (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-13 - Surplus, Curtailement and Constraint for Wind priority in Area B

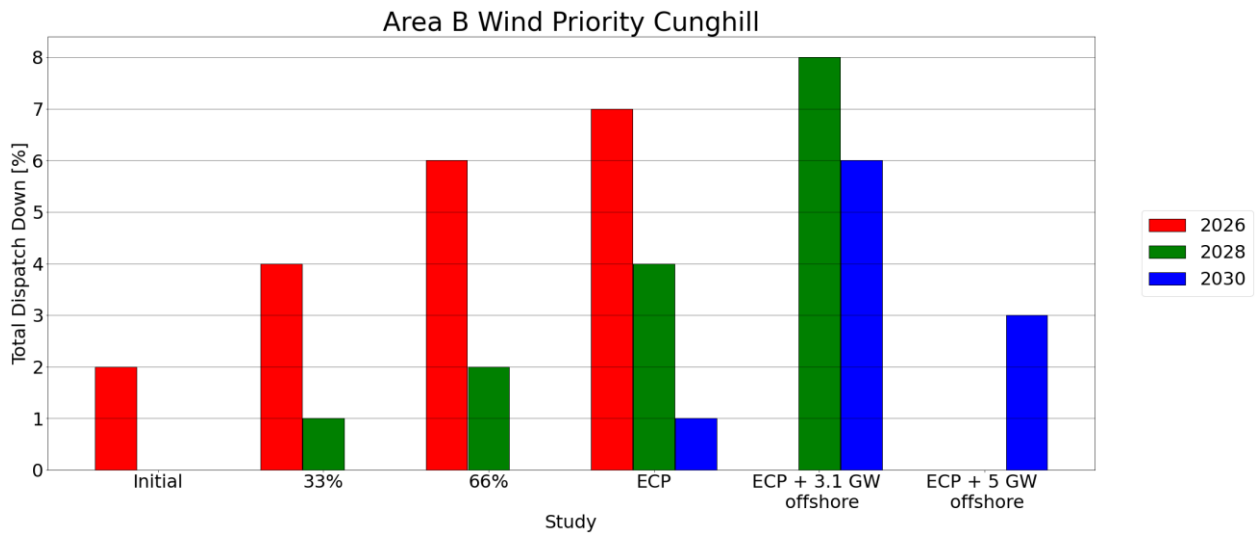


Figure 2-13 - Total Dispatch Down for Wind priority for Node Cunghill

2.6 Dalton

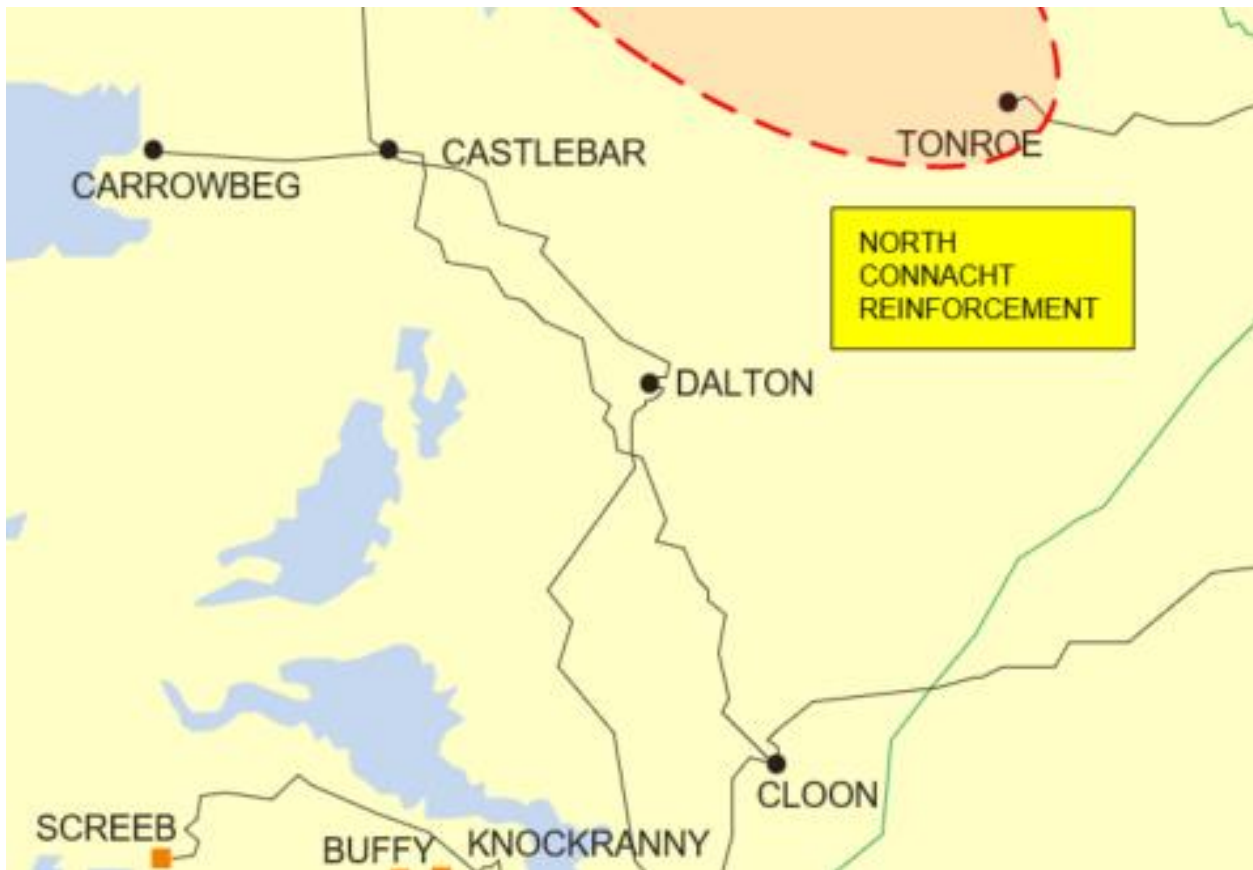


Figure 2-14 - Location of node Dalton

Generator	SO	Capacity	Type	Status
Claremorris 2 Solar Farm	DSO	4.99	solar non-priority	due to connect
Lisduff Solar Park (Claremorris)	DSO	4.0	solar non-priority	due to connect
Mace Upper (1)	DSO	2.55	wind uncontrolled	connected
Magheramore and Cloontooa (1)	DSO	40.8	wind priority	connected

Table 2-14 - Generation Included in Study for Node Dalton

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	4	6	7	9		
Installed Capacity (MW)	2028	4	6	7	9	9	
Installed Capacity (MW)	2030				9	9	9
Available Energy (GWh)	2026	5	7	9	12		
Available Energy (GWh)	2028	5	7	9	12	12	
Available Energy (GWh)	2030				12	12	12
Generation (GWh)	2026	5	6	8	9		
Generation (GWh)	2028	5	6	8	9	9	
Generation (GWh)	2030				10	10	10
Surplus (%)	2026	1 %	3 %	5 %	9 %		
Surplus (%)	2028	<1 %	1 %	2 %	5 %	11 %	
Surplus (%)	2030				3 %	6 %	10 %
Curtailed (%)	2026	1 %	1 %	2 %	4 %		
Curtailed (%)	2028	<1 %	1 %	1 %	2 %	3 %	
Curtailed (%)	2030				1 %	1 %	1 %
Constraint (%)	2026	4 %	10 %	10 %	9 %		
Constraint (%)	2028	5 %	12 %	13 %	13 %	9 %	
Constraint (%)	2030				6 %	4 %	3 %
Total Dispatch Down (%)	2026	5 %	14 %	17 %	22 %		
Total Dispatch Down (%)	2028	5 %	13 %	17 %	21 %	24 %	
Total Dispatch Down (%)	2030				9 %	11 %	15 %

Table 2-15 - Surplus, Curtailment and Constraint for Solar non-priority in Area B

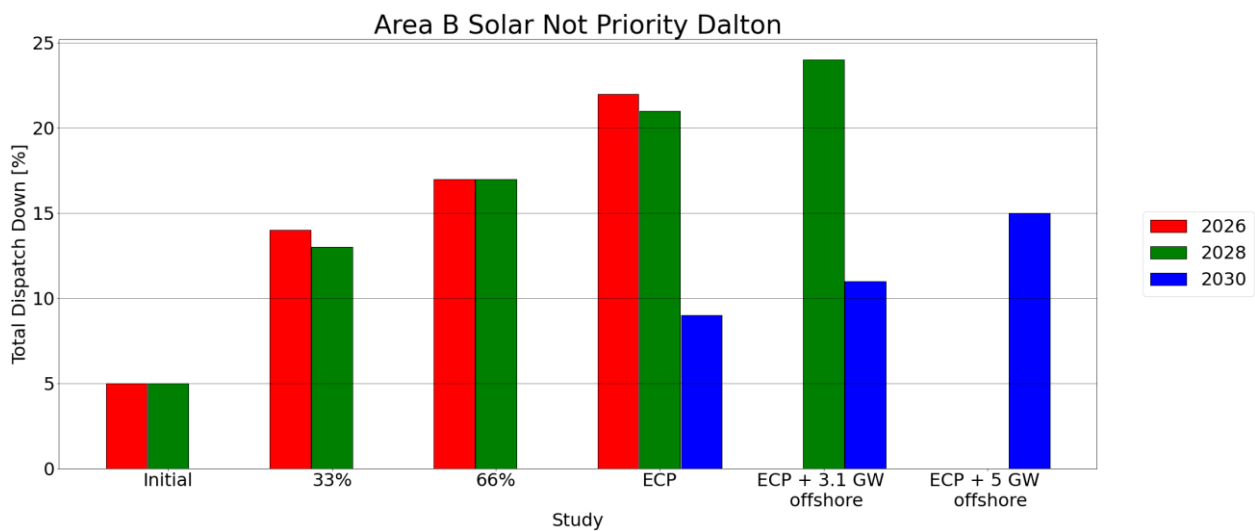


Figure 2-15 - Total Dispatch Down for Solar non-priority for Node Dalton

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	41	41	41	41		
Installed Capacity (MW)	2028	41	41	41	41	41	
Installed Capacity (MW)	2030				41	41	41
Available Energy (GWh)	2026	124	124	124	124		
Available Energy (GWh)	2028	125	125	125	125	125	
Available Energy (GWh)	2030				124	124	124
Generation (GWh)	2026	121	119	117	115		
Generation (GWh)	2028	125	123	122	120	116	
Generation (GWh)	2030				123	117	120
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailed (%)	2026	2 %	4 %	6 %	7 %		
Curtailed (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailed (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-16 - Surplus, Curtailment and Constraint for Wind priority in Area B

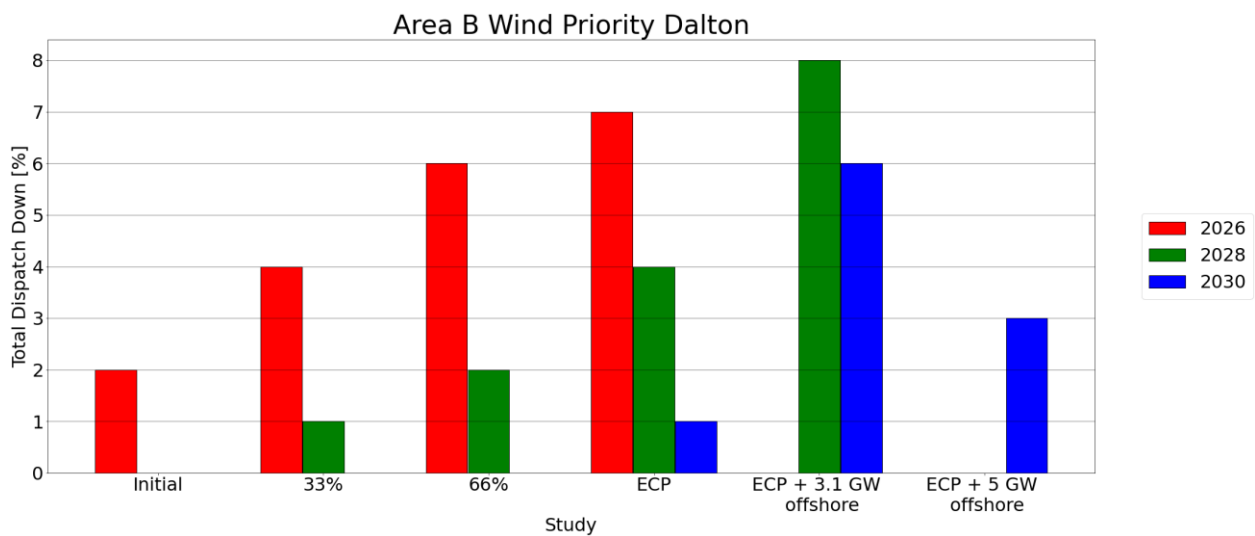


Figure 2-16 - Total Dispatch Down for Wind priority for Node Dalton

2.7 Firlough



Figure 2-17 - Location of node Firlough

Generator	SO	Capacity	Type	Status
Firlough TG371 was Carrowleagh-Kilbride DG741	TSO	48.3	wind non-priority	due to connect
Firlough Wind Farm	TSO	27.3	wind non-priority	due to connect

Table 2-17 - Generation Included in Study for Node Firlough

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026		25	50	76		
Installed Capacity (MW)	2028		25	50	76	76	
Installed Capacity (MW)	2030				76	76	76
Available Energy (GWh)	2026		77	153	230		
Available Energy (GWh)	2028		77	154	232	232	
Available Energy (GWh)	2030				230	230	230
Generation (GWh)	2026		37	72	100		
Generation (GWh)	2028		38	77	109	99	
Generation (GWh)	2030				166	162	149
Surplus (%)	2026		5 %	10 %	15 %		
Surplus (%)	2028		1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailement (%)	2026		3 %	4 %	5 %		
Curtailement (%)	2028		1 %	2 %	3 %	5 %	
Curtailement (%)	2030				1 %	2 %	2 %
Constraint (%)	2026		43 %	39 %	36 %		
Constraint (%)	2028		49 %	45 %	44 %	30 %	
Constraint (%)	2030				25 %	16 %	10 %
Total Dispatch Down (%)	2026		52 %	53 %	57 %		
Total Dispatch Down (%)	2028		51 %	50 %	53 %	57 %	
Total Dispatch Down (%)	2030				28 %	30 %	35 %

Table 2-18 - Surplus, Curtailment and Constraint for Wind non-priority in Area B

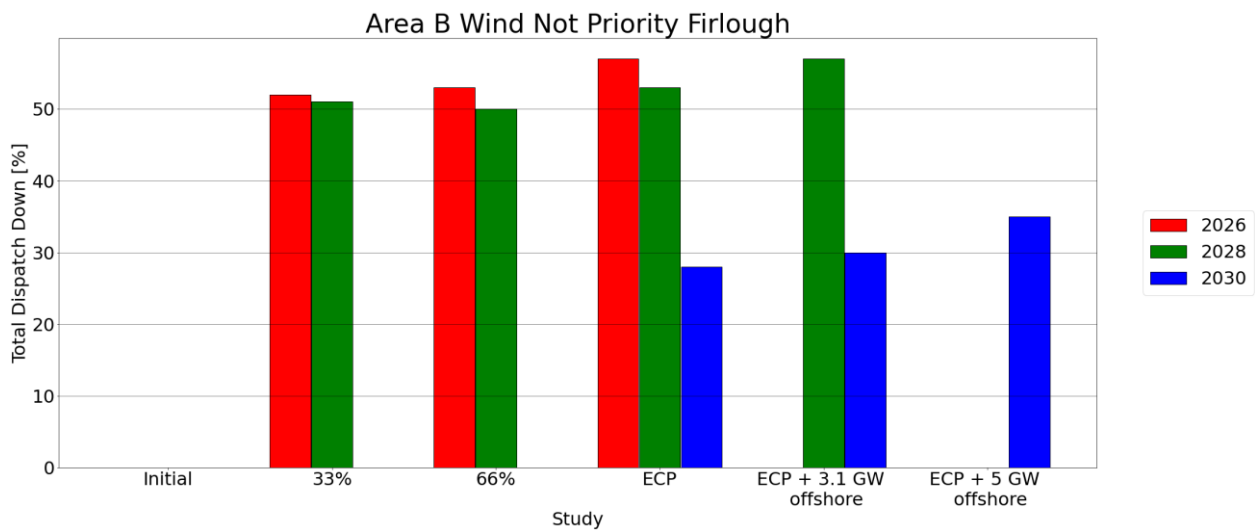


Figure 2-18 - Total Dispatch Down for Wind non-priority for Node Firlough

2.8 Glenree

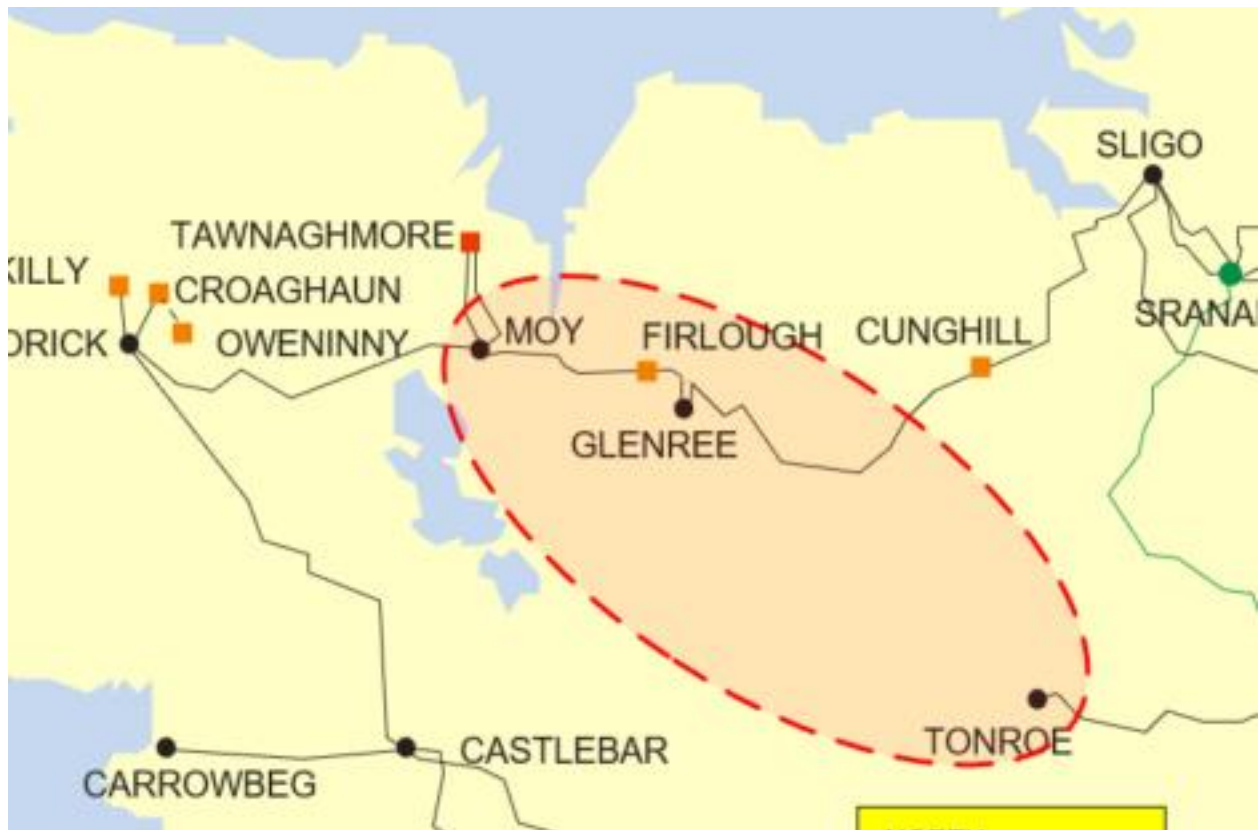


Figure 2-19 - Location of node Glenree

Generator	SO	Capacity	Type	Status
Black Lough (1)	DSO	12.5	wind non-priority	connected
Bunnyconnellan (1)	DSO	28.0	wind non-priority	connected
Carrowleagh (1)	DSO	34.15	wind priority	connected
Carrowleagh (2)	DSO	2.65	wind priority	connected
Chafhill Wind Farm (prev. Glenree)	DSO	4.65	wind non-priority	due to connect
Stokane Wind Farm	DSO	4.65	wind non-priority	due to connect

Table 2-19 - Generation Included in Study for Node Glenree

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	40	44	47	50		
Installed Capacity (MW)	2028	40	44	47	50	50	
Installed Capacity (MW)	2030				50	50	50
Available Energy (GWh)	2026	123	133	142	151		
Available Energy (GWh)	2028	124	134	143	153	153	
Available Energy (GWh)	2030				151	151	151
Generation (GWh)	2026	55	64	66	66		
Generation (GWh)	2028	54	66	71	72	65	
Generation (GWh)	2030				109	107	98
Surplus (%)	2026	2 %	5 %	10 %	15 %		
Surplus (%)	2028	<1 %	1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailed (%)	2026	2 %	3 %	4 %	5 %		
Curtailed (%)	2028	<1 %	1 %	2 %	3 %	5 %	
Curtailed (%)	2030				1 %	2 %	2 %
Constraint (%)	2026	51 %	43 %	39 %	36 %		
Constraint (%)	2028	56 %	49 %	45 %	44 %	30 %	
Constraint (%)	2030				25 %	16 %	10 %
Total Dispatch Down (%)	2026	55 %	52 %	53 %	57 %		
Total Dispatch Down (%)	2028	57 %	51 %	50 %	53 %	57 %	
Total Dispatch Down (%)	2030				28 %	30 %	35 %

Table 2-20 - Surplus, Curtailment and Constraint for Wind non-priority in Area B

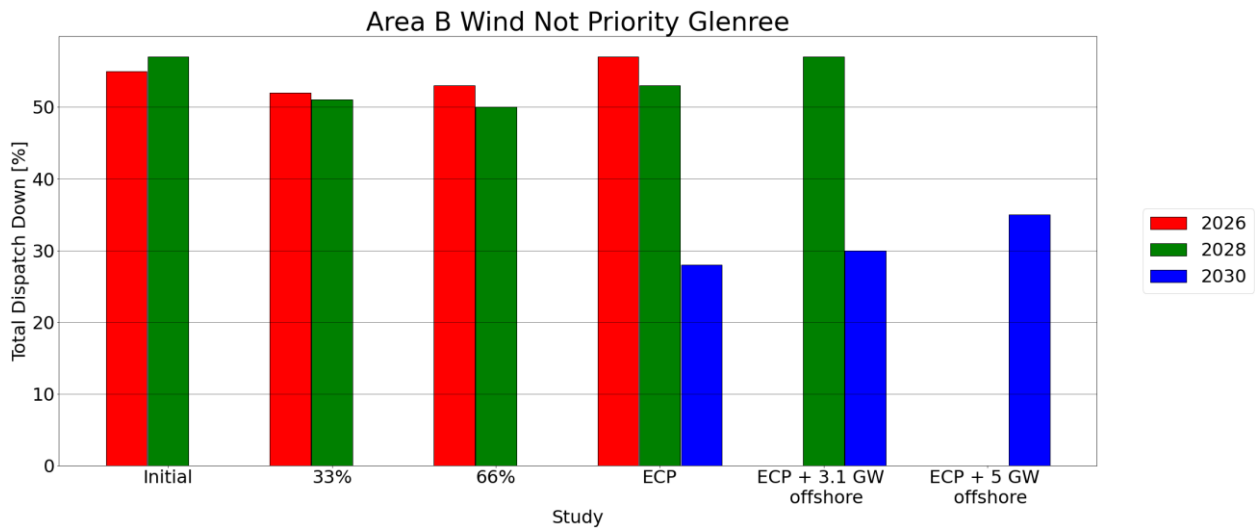


Figure 2-20 - Total Dispatch Down for Wind non-priority for Node Glenree

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	37	37	37	37		
Installed Capacity (MW)	2028	37	37	37	37	37	
Installed Capacity (MW)	2030				37	37	37
Available Energy (GWh)	2026	112	112	112	112		
Available Energy (GWh)	2028	113	113	113	113	113	
Available Energy (GWh)	2030				112	112	112
Generation (GWh)	2026	109	107	105	104		
Generation (GWh)	2028	112	111	110	108	104	
Generation (GWh)	2030				111	105	108
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailement (%)	2026	2 %	4 %	6 %	7 %		
Curtailement (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailement (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-21 - Surplus, Curtailement and Constraint for Wind priority in Area B

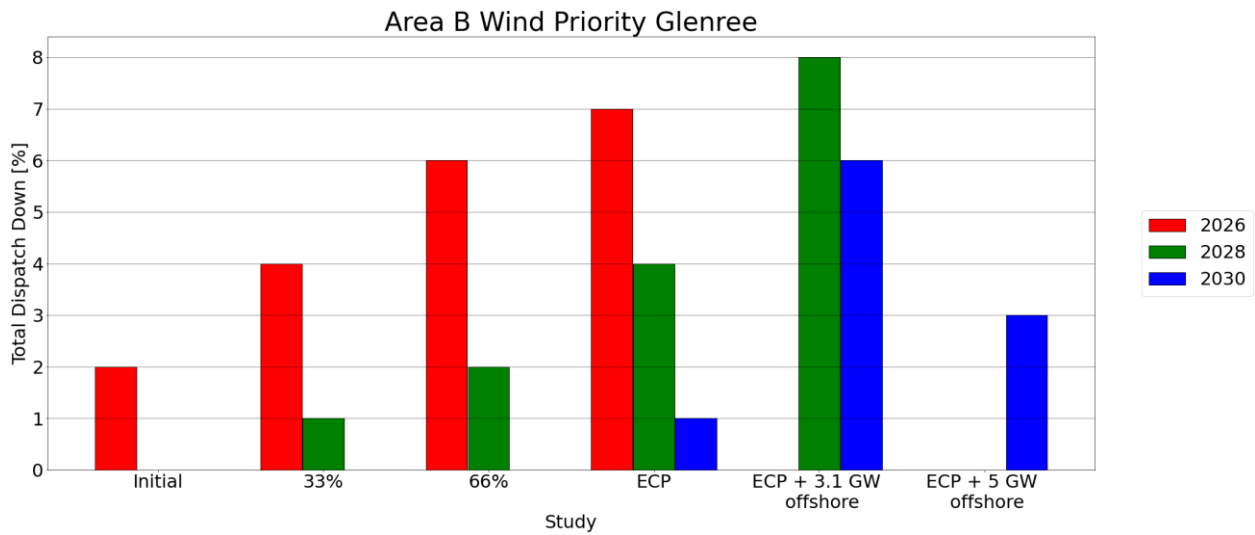


Figure 2-21 - Total Dispatch Down for Wind priority for Node Glenree

2.9 Knockranny

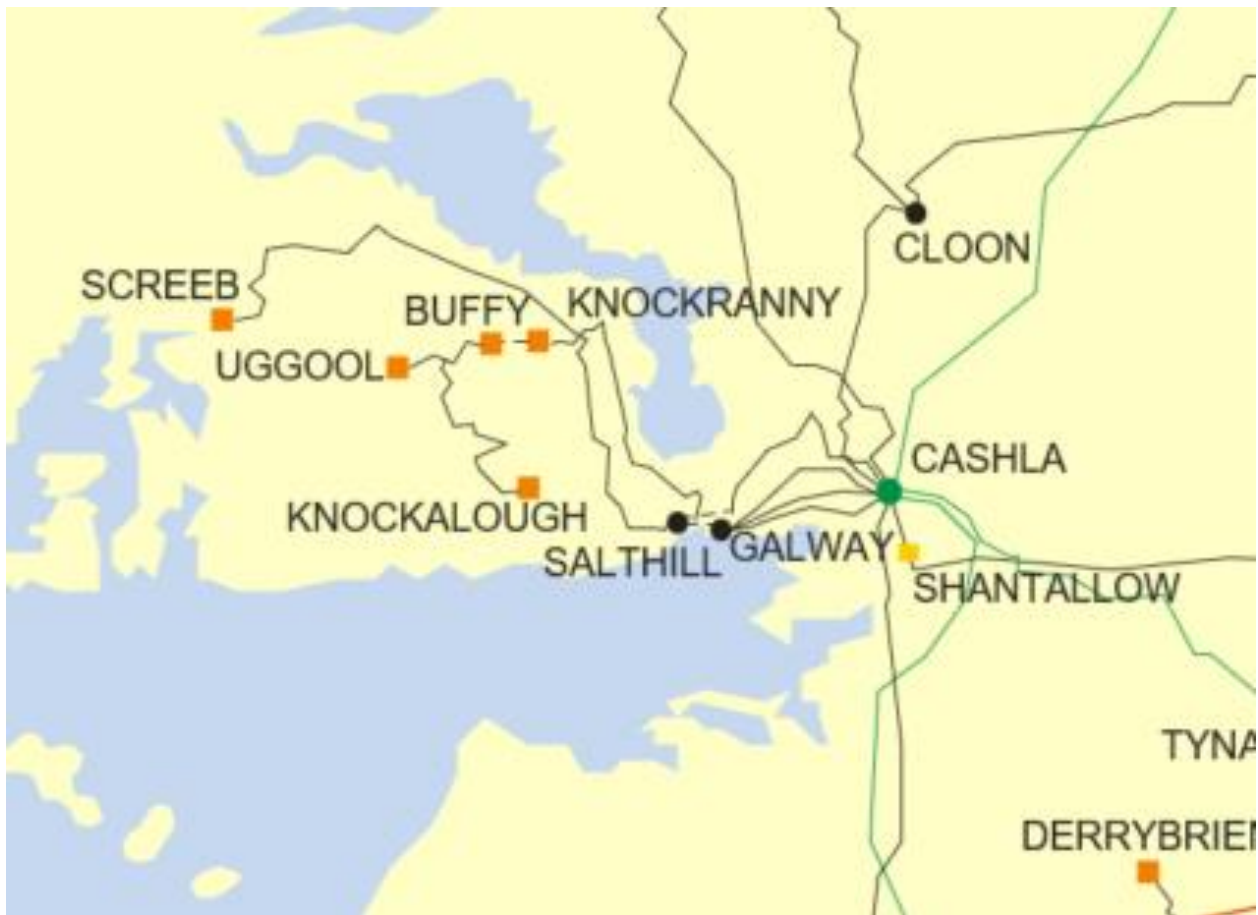


Figure 2-22 - Location of node Knockranny

Generator	SO	Capacity	Type	Status
Ardderoo 2 (Formerly Buffy)	TSO	64.2	wind non-priority	connected
Ardderoo wind extension	TSO	18.0	wind non-priority	due to connect
Ardderoo Wind Farm	TSO	27.0	wind non-priority	due to connect
Knockalough (1)	TSO	33.6	wind priority	connected
Knockranny wind	TSO	47.3	wind non-priority	due to connect

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

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	91	113	135	156		
Installed Capacity (MW)	2028	91	113	135	156	156	
Installed Capacity (MW)	2030				156	156	156
Available Energy (GWh)	2026	403	500	596	692		
Available Energy (GWh)	2028	405	502	598	695	695	
Available Energy (GWh)	2030				692	692	692
Generation (GWh)	2026	351	411	446	470		
Generation (GWh)	2028	385	477	555	600	532	
Generation (GWh)	2030				658	622	554
Surplus (%)	2026	1 %	4 %	7 %	11 %		
Surplus (%)	2028	<1 %	<1 %	2 %	4 %	18 %	
Surplus (%)	2030				1 %	9 %	18 %
Curtailed (%)	2026	2 %	2 %	3 %	4 %		
Curtailed (%)	2028	<1 %	1 %	1 %	2 %	4 %	
Curtailed (%)	2030				<1 %	1 %	2 %
Constraint (%)	2026	10 %	11 %	15 %	17 %		
Constraint (%)	2028	5 %	4 %	4 %	7 %	2 %	
Constraint (%)	2030				3 %	<1 %	<1 %
Total Dispatch Down (%)	2026	13 %	18 %	25 %	32 %		
Total Dispatch Down (%)	2028	5 %	5 %	7 %	14 %	23 %	
Total Dispatch Down (%)	2030				5 %	10 %	20 %

Table 2-23 - Surplus, Curtailment and Constraint for Wind non-priority in Area B

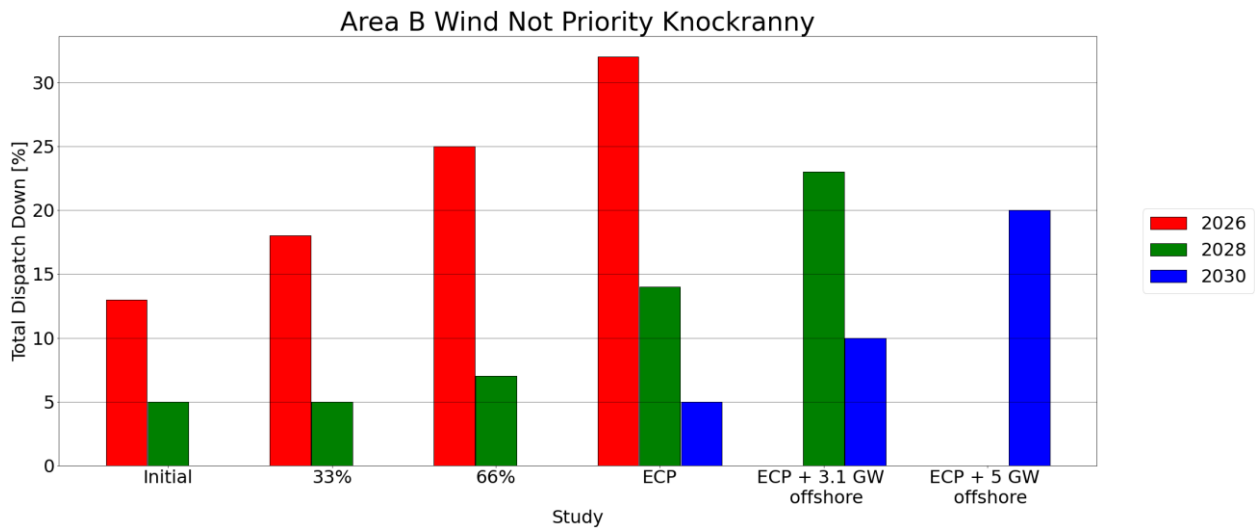


Figure 2-23 - Total Dispatch Down for Wind non-priority for Node Knockranny

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	34	34	34	34		
Installed Capacity (MW)	2028	34	34	34	34	34	
Installed Capacity (MW)	2030				34	34	34
Available Energy (GWh)	2026	149	149	149	149		
Available Energy (GWh)	2028	149	149	149	149	149	
Available Energy (GWh)	2030				149	149	149
Generation (GWh)	2026	146	144	142	140		
Generation (GWh)	2028	149	148	147	145	140	
Generation (GWh)	2030				148	142	144
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailement (%)	2026	2 %	3 %	4 %	6 %		
Curtailement (%)	2028	<1 %	1 %	2 %	3 %	6 %	
Curtailement (%)	2030				<1 %	5 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	3 %	4 %	6 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	3 %	6 %	
Total Dispatch Down (%)	2030				<1 %	5 %	3 %

Table 2-24 - Surplus, Curtailement and Constraint for Wind priority in Area B

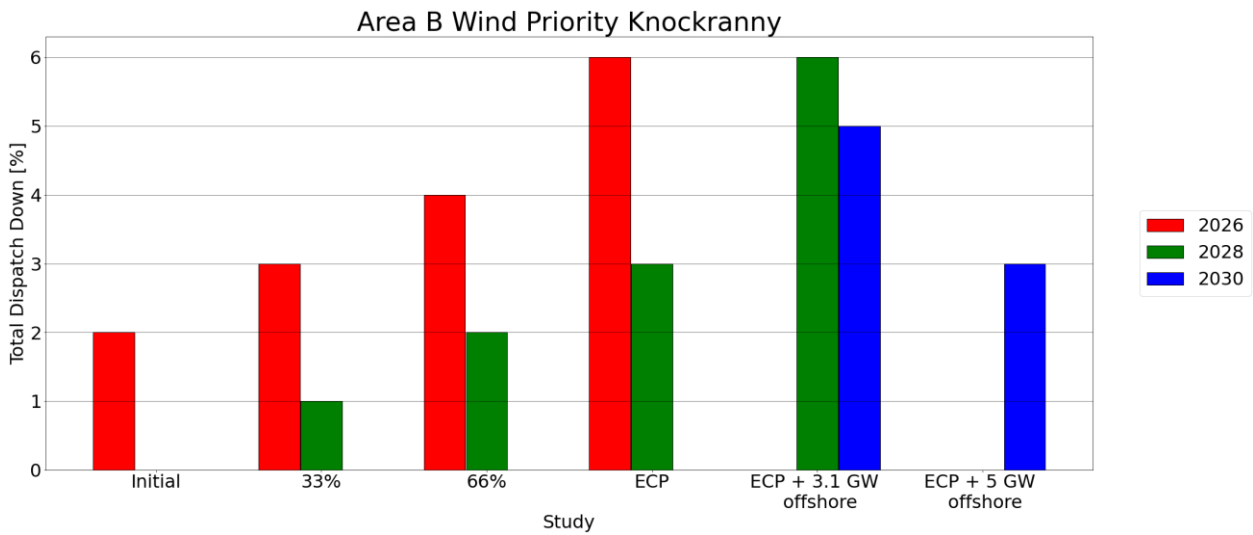


Figure 2-24 - Total Dispatch Down for Wind priority for Node Knockranny

2.10 Moy

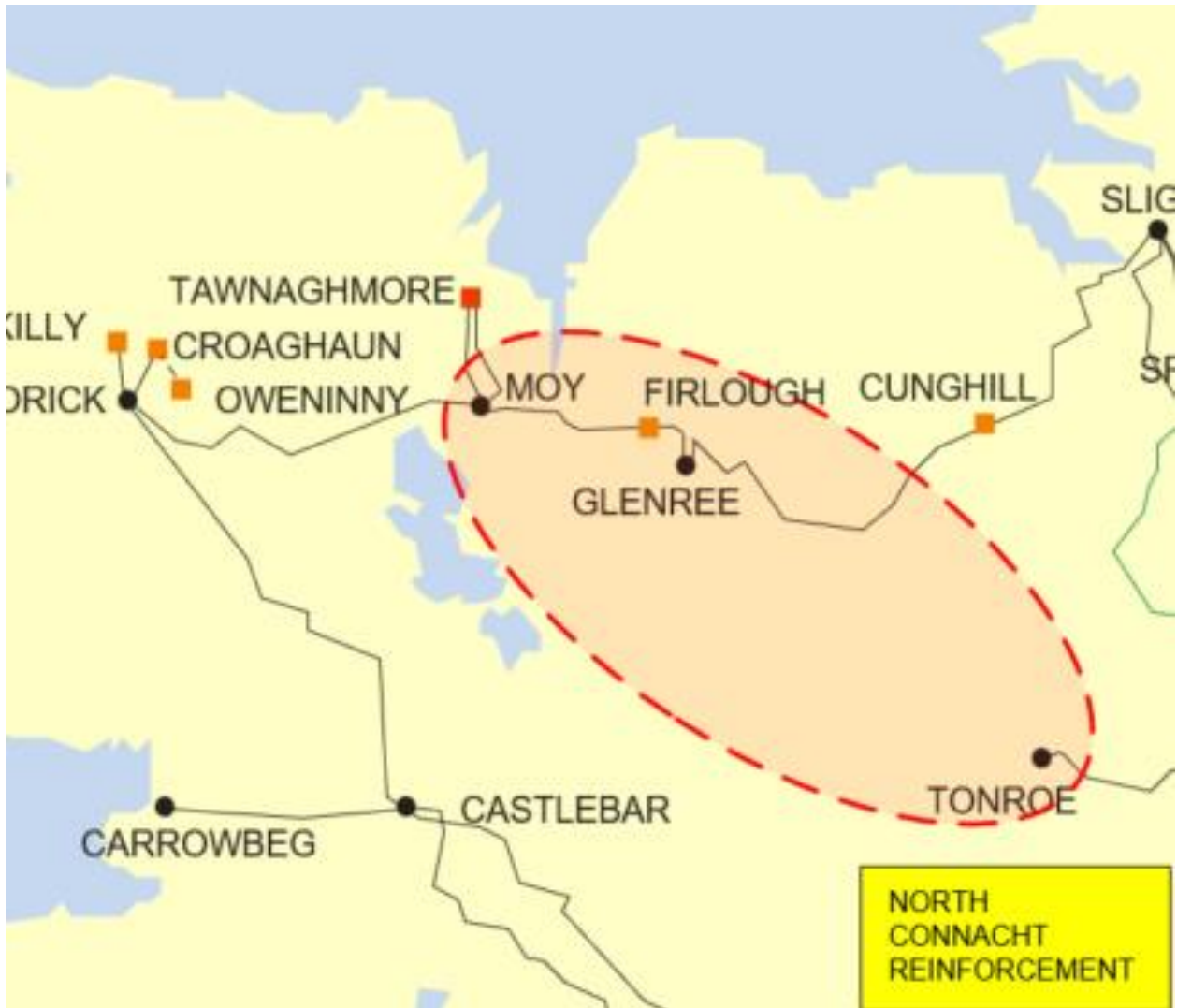


Figure 2-25 - Location of node Moy

Generator	SO	Capacity	Type	Status
Lackan (1)	DSO	6.0	wind priority	connected
Carrowgarve Solar	DSO	4.99	solar non-priority	due to connect

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

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026		2	3	5		
Installed Capacity (MW)	2028		2	3	5	5	
Installed Capacity (MW)	2030				5	5	5
Available Energy (GWh)	2026		2	4	5		
Available Energy (GWh)	2028		2	4	5	5	
Available Energy (GWh)	2030				5	5	5
Generation (GWh)	2026		2	3	4		
Generation (GWh)	2028		2	3	4	4	
Generation (GWh)	2030				5	5	5
Surplus (%)	2026		2 %	5 %	9 %		
Surplus (%)	2028		<1 %	2 %	5 %	11 %	
Surplus (%)	2030				2 %	6 %	10 %
Curtailement (%)	2026		1 %	2 %	4 %		
Curtailement (%)	2028		1 %	1 %	2 %	3 %	
Curtailement (%)	2030				1 %	1 %	1 %
Constraint (%)	2026		10 %	10 %	9 %		
Constraint (%)	2028		12 %	13 %	13 %	9 %	
Constraint (%)	2030				6 %	4 %	3 %
Total Dispatch Down (%)	2026		14 %	17 %	21 %		
Total Dispatch Down (%)	2028		13 %	17 %	20 %	23 %	
Total Dispatch Down (%)	2030				9 %	11 %	14 %

Table 2-26 - Surplus, Curtailment and Constraint for Solar non-priority in Area B

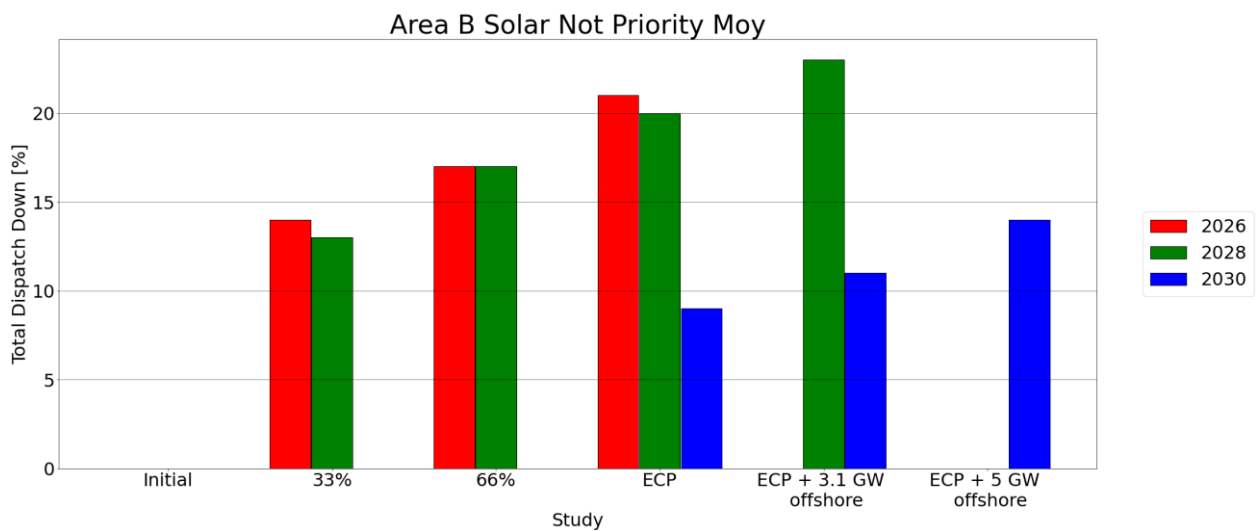


Figure 2-26 - Total Dispatch Down for Solar non-priority for Node Moy

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	6	6	6	6		
Installed Capacity (MW)	2028	6	6	6	6	6	
Installed Capacity (MW)	2030				6	6	6
Available Energy (GWh)	2026	18	18	18	18		
Available Energy (GWh)	2028	18	18	18	18	18	
Available Energy (GWh)	2030				18	18	18
Generation (GWh)	2026	18	18	17	17		
Generation (GWh)	2028	18	18	18	18	17	
Generation (GWh)	2030				18	17	18
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailement (%)	2026	2 %	4 %	6 %	7 %		
Curtailement (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailement (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-27 - Surplus, Curtailement and Constraint for Wind priority in Area B

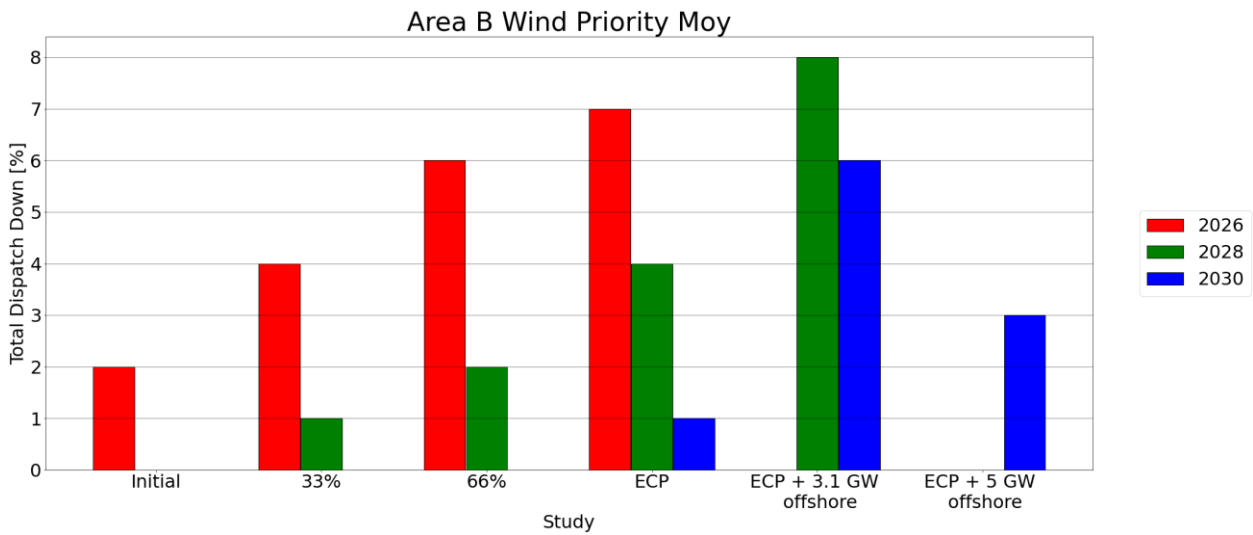


Figure 2-27 - Total Dispatch Down for Wind priority for Node Moy

2.11 Salthill

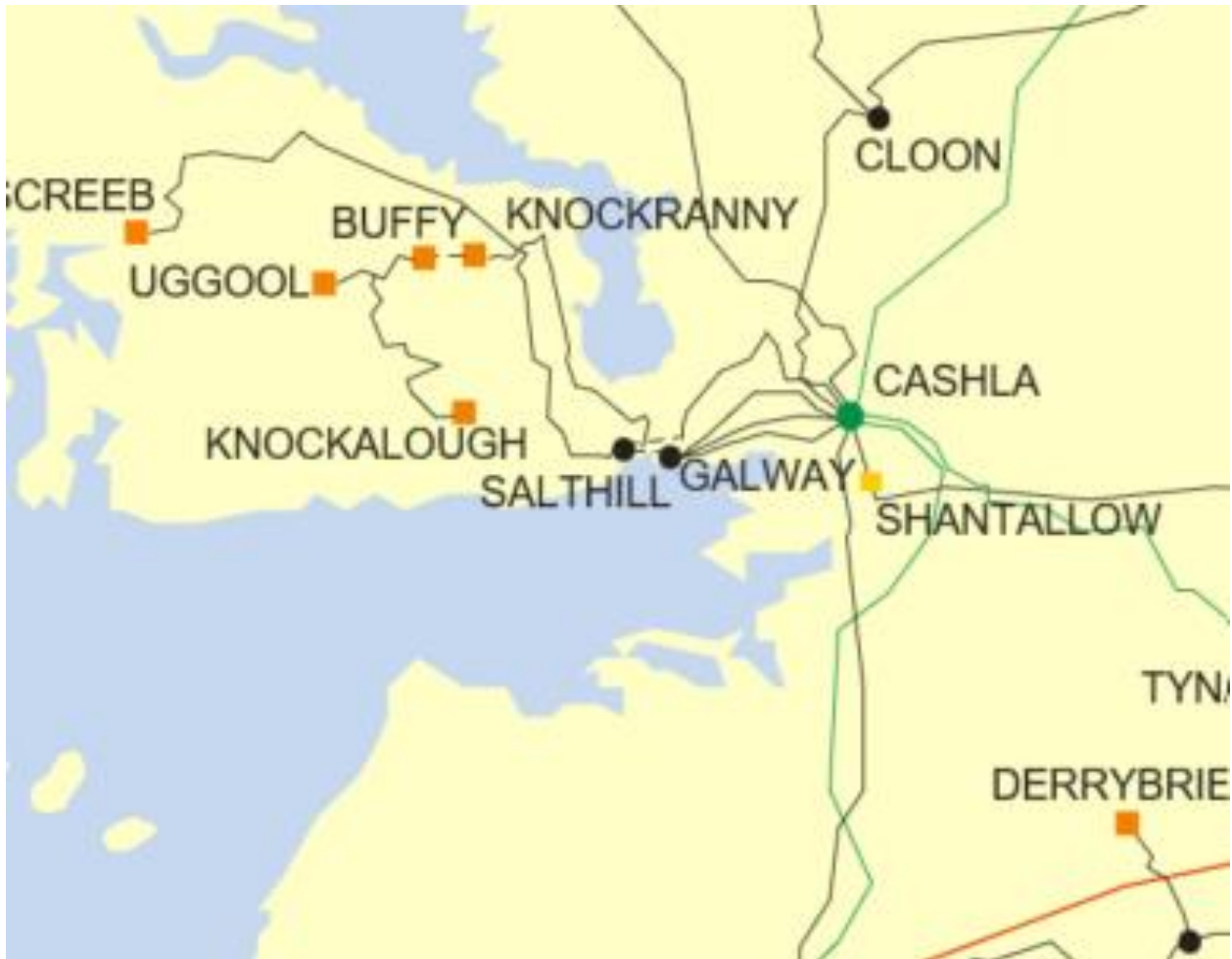


Figure 2-28 - Location of node Salthill

Generator	SO	Capacity	Type	Status
Leitir Guingaid & Doire Chrith1 & 2 Merge	DSO	40.9	wind priority	connected

Table 2-28 - Generation Included in Study for Node Salthill

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	41	41	41	41		
Installed Capacity (MW)	2028	41	41	41	41	41	
Installed Capacity (MW)	2030				41	41	41
Available Energy (GWh)	2026	124	124	124	124		
Available Energy (GWh)	2028	125	125	125	125	125	
Available Energy (GWh)	2030				124	124	124
Generation (GWh)	2026	121	119	117	115		
Generation (GWh)	2028	125	124	122	120	116	
Generation (GWh)	2030				124	117	120
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailement (%)	2026	2 %	4 %	6 %	7 %		
Curtailement (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailement (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-29 - Surplus, Curtailement and Constraint for Wind priority in Area B

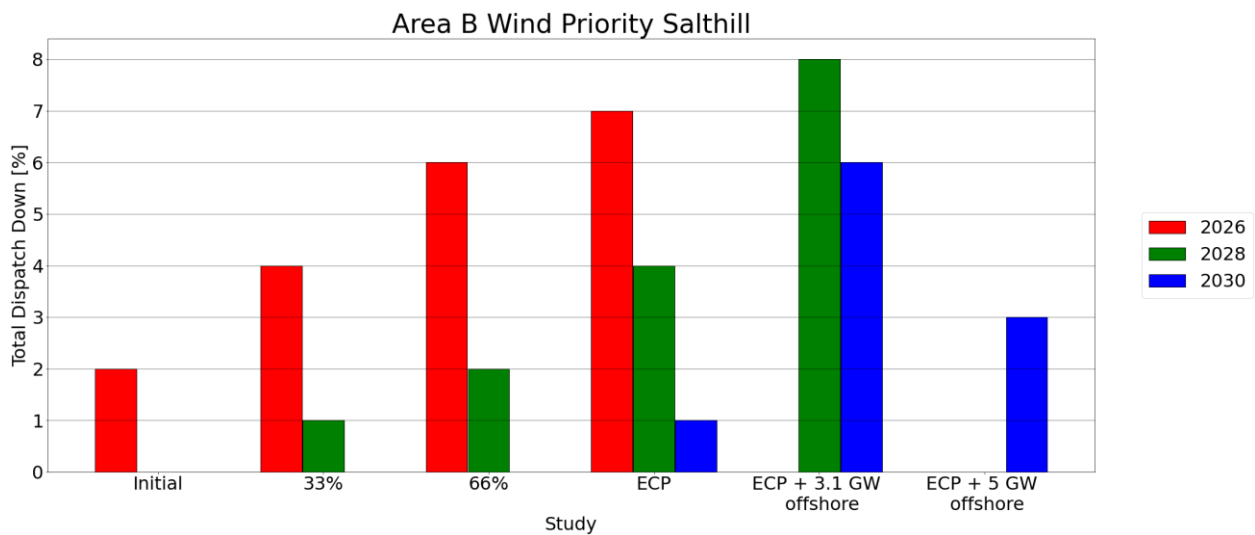


Figure 2-29 - Total Dispatch Down for Wind priority for Node Salthill

2.12 Screeb



Figure 2-30 - Location of node Screeb

Generator	SO	Capacity	Type	Status
Inverin (Knock South) (1)	DSO	2.64	wind uncontrolled	connected
Inverin Community Wind Turbine	DSO	4.2	wind non-priority	due to connect
Rossaveel Wind	DSO	3.0	wind uncontrolled	connected

Table 2-30 - Generation Included in Study for Node Screeb

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026		1	3	4		
Installed Capacity (MW)	2028		1	3	4	4	
Installed Capacity (MW)	2030				4	4	4
Available Energy (GWh)	2026		6	12	19		
Available Energy (GWh)	2028		6	12	19	19	
Available Energy (GWh)	2030				19	19	19
Generation (GWh)	2026		5	9	13		
Generation (GWh)	2028		6	12	16	14	
Generation (GWh)	2030				18	17	15
Surplus (%)	2026		4 %	7 %	11 %		
Surplus (%)	2028		<1 %	2 %	4 %	18 %	
Surplus (%)	2030				1 %	9 %	18 %
Curtailement (%)	2026		2 %	3 %	4 %		
Curtailement (%)	2028		1 %	1 %	2 %	4 %	
Curtailement (%)	2030				<1 %	1 %	2 %
Constraint (%)	2026		11 %	15 %	17 %		
Constraint (%)	2028		4 %	4 %	7 %	2 %	
Constraint (%)	2030				3 %	<1 %	<1 %
Total Dispatch Down (%)	2026		18 %	25 %	32 %		
Total Dispatch Down (%)	2028		5 %	7 %	14 %	23 %	
Total Dispatch Down (%)	2030				5 %	10 %	20 %

Table 2-31 - Surplus, Curtailment and Constraint for Wind non-priority in Area B

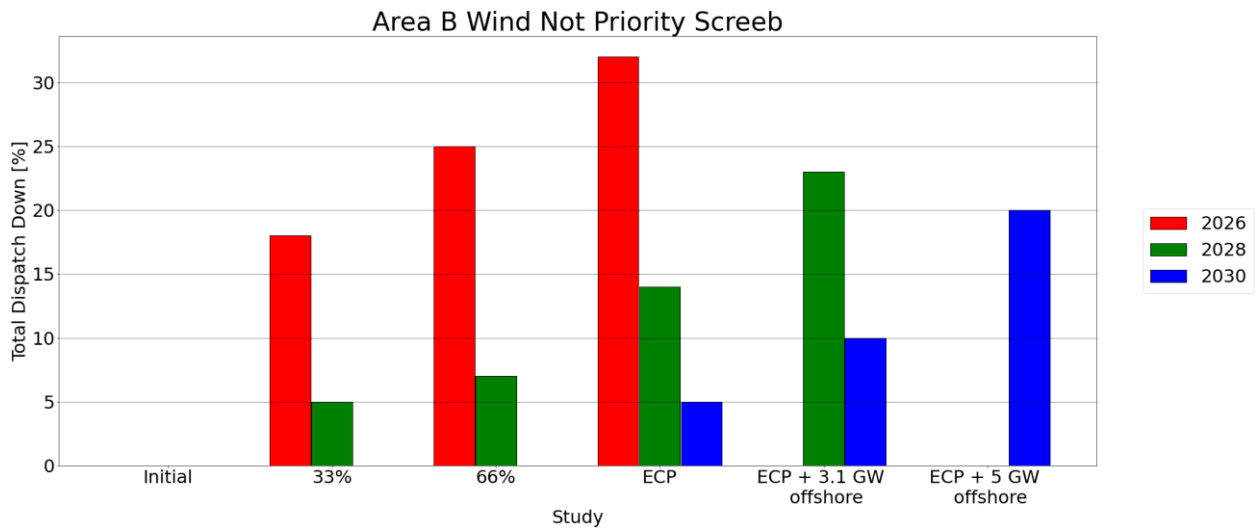


Figure 2-31 - Total Dispatch Down for Wind non-priority for Node Screeb

2.13 Shantallow

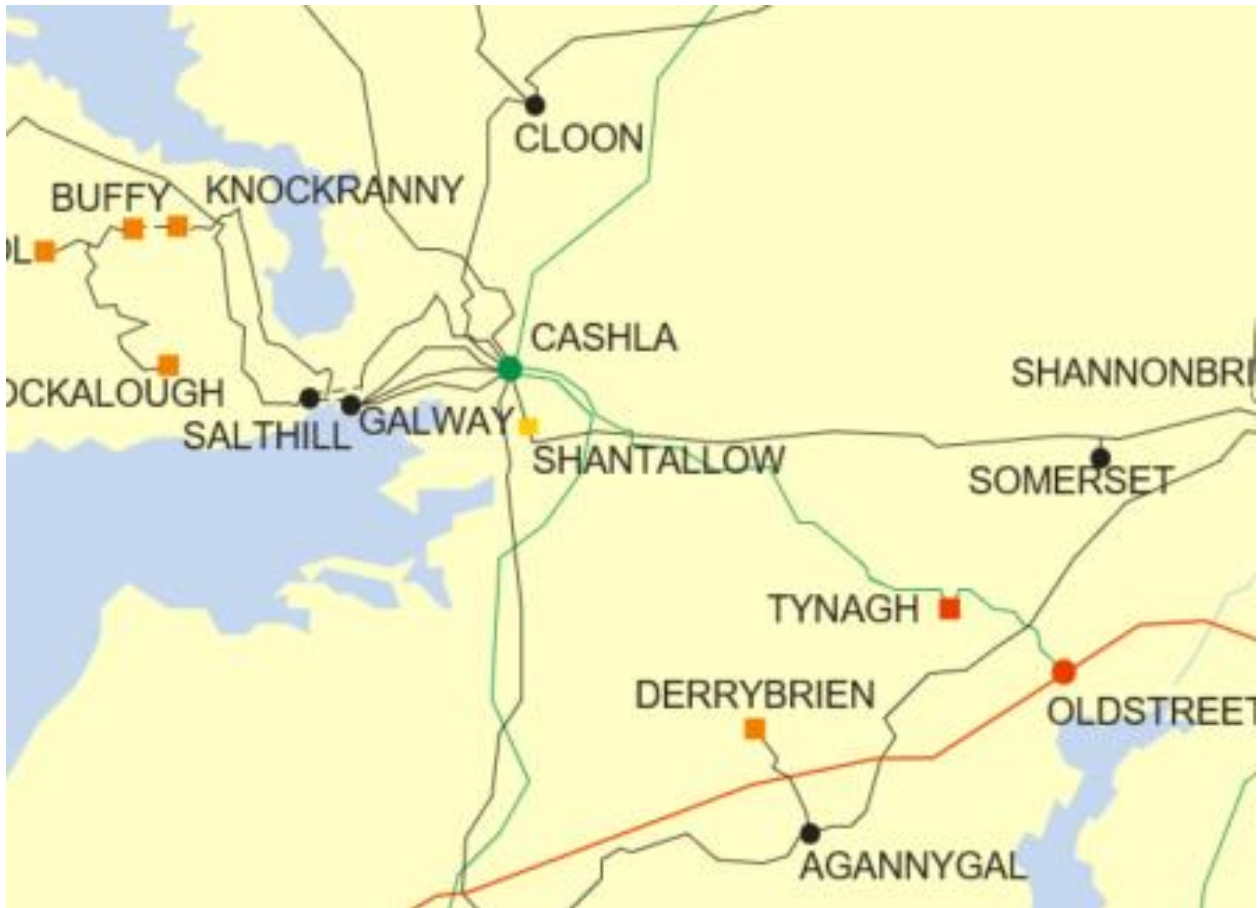


Figure 2-32 - Location of node Shantallow

Generator	SO	Capacity	Type	Status
Shantallow Solar	TSO	35.0	solar non-priority	due to connect

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

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	35	35	35	35		
Installed Capacity (MW)	2028	35	35	35	35	35	
Installed Capacity (MW)	2030				35	35	35
Available Energy (GWh)	2026	45	45	45	45		
Available Energy (GWh)	2028	45	45	45	45	45	
Available Energy (GWh)	2030				45	45	45
Generation (GWh)	2026	40	41	41	39		
Generation (GWh)	2028	41	43	42	41	38	
Generation (GWh)	2030				43	41	40
Surplus (%)	2026	1 %	3 %	5 %	9 %		
Surplus (%)	2028	<1 %	1 %	2 %	5 %	11 %	
Surplus (%)	2030				3 %	6 %	10 %
Curtailement (%)	2026	1 %	1 %	2 %	4 %		
Curtailement (%)	2028	<1 %	1 %	1 %	2 %	3 %	
Curtailement (%)	2030				1 %	1 %	1 %
Constraint (%)	2026	9 %	4 %	2 %	1 %		
Constraint (%)	2028	9 %	4 %	2 %	1 %	1 %	
Constraint (%)	2030				2 %	<1 %	<1 %
Total Dispatch Down (%)	2026	10 %	8 %	10 %	14 %		
Total Dispatch Down (%)	2028	9 %	5 %	5 %	9 %	15 %	
Total Dispatch Down (%)	2030				5 %	8 %	12 %

Table 2-33 - Surplus, Curtailment and Constraint for Solar non-priority in Area B

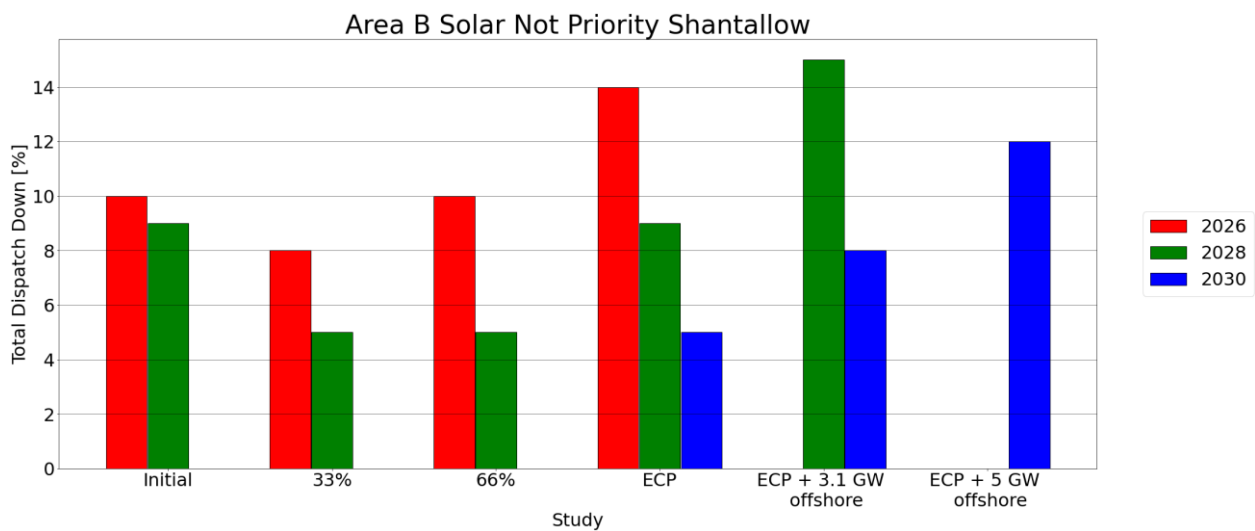


Figure 2-33 - Total Dispatch Down for Solar non-priority for Node Shantallow

2.14 Sligo

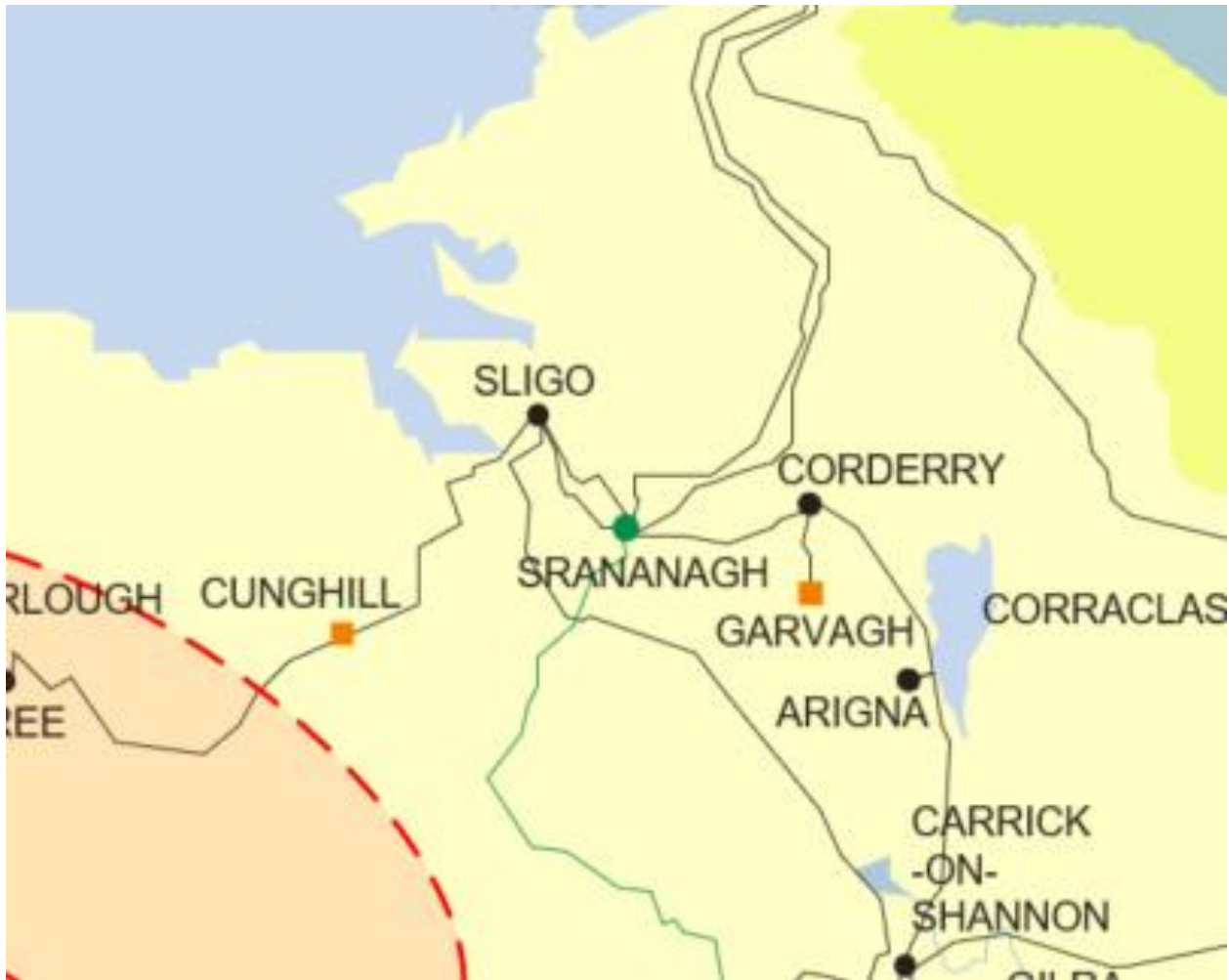


Figure 2-34 - Location of node Sligo

Generator	SO	Capacity	Type	Status
Carrickeeney (1)	DSO	7.65	wind priority	connected
Faghary (1)	DSO	6.0	wind priority	connected
Riverstown Wind Farm	DSO	3.8	wind non-priority	due to connect
Templehouse Community Wind Turbine	DSO	4.08	wind non-priority	due to connect

Table 2-34 - Generation Included in Study for Node Sligo

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

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026		3	5	8		
Installed Capacity (MW)	2028		3	5	8	8	
Installed Capacity (MW)	2030				8	8	8
Available Energy (GWh)	2026		8	16	24		
Available Energy (GWh)	2028		8	16	24	24	
Available Energy (GWh)	2030				24	24	24
Generation (GWh)	2026		4	7	10		
Generation (GWh)	2028		4	8	11	10	
Generation (GWh)	2030				17	17	16
Surplus (%)	2026		5 %	10 %	15 %		
Surplus (%)	2028		1 %	3 %	6 %	23 %	
Surplus (%)	2030				2 %	12 %	23 %
Curtailement (%)	2026		3 %	4 %	5 %		
Curtailement (%)	2028		1 %	2 %	3 %	5 %	
Curtailement (%)	2030				1 %	2 %	2 %
Constraint (%)	2026		43 %	39 %	36 %		
Constraint (%)	2028		49 %	45 %	44 %	30 %	
Constraint (%)	2030				25 %	16 %	10 %
Total Dispatch Down (%)	2026		52 %	53 %	57 %		
Total Dispatch Down (%)	2028		51 %	50 %	53 %	57 %	
Total Dispatch Down (%)	2030				28 %	30 %	35 %

Table 2-35 - Surplus, Curtailment and Constraint for Wind non-priority in Area B

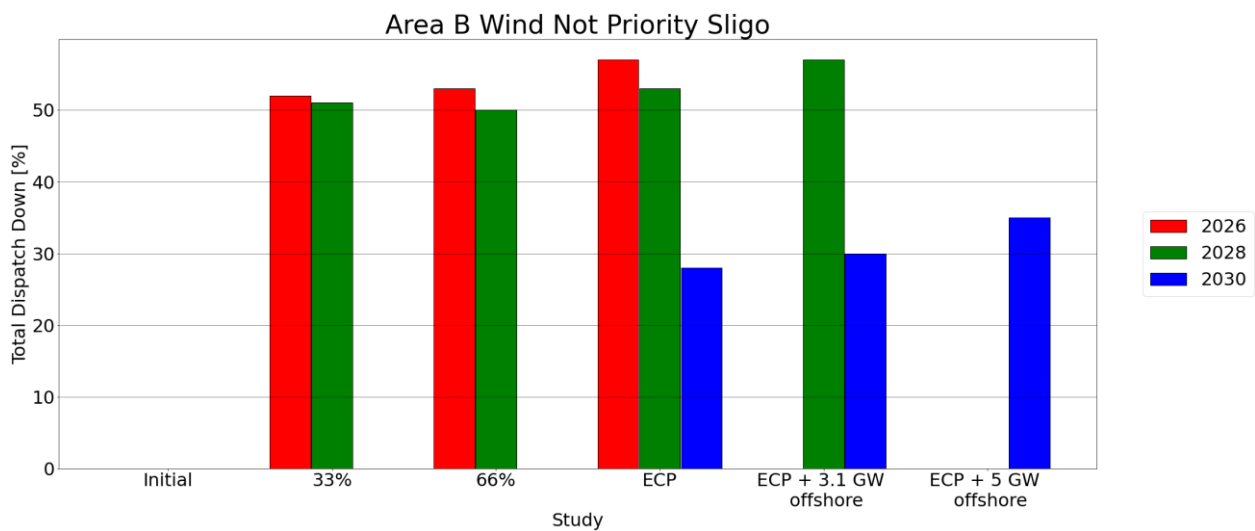


Figure 2-35 - Total Dispatch Down for Wind non-priority for Node Sligo

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	14	14	14	14		
Installed Capacity (MW)	2028	14	14	14	14	14	
Installed Capacity (MW)	2030				14	14	14
Available Energy (GWh)	2026	42	42	42	42		
Available Energy (GWh)	2028	42	42	42	42	42	
Available Energy (GWh)	2030				42	42	42
Generation (GWh)	2026	40	40	39	38		
Generation (GWh)	2028	42	41	41	40	39	
Generation (GWh)	2030				41	39	40
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailed (%)	2026	2 %	4 %	6 %	7 %		
Curtailed (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailed (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-36 - Surplus, Curtailment and Constraint for Wind priority in Area B

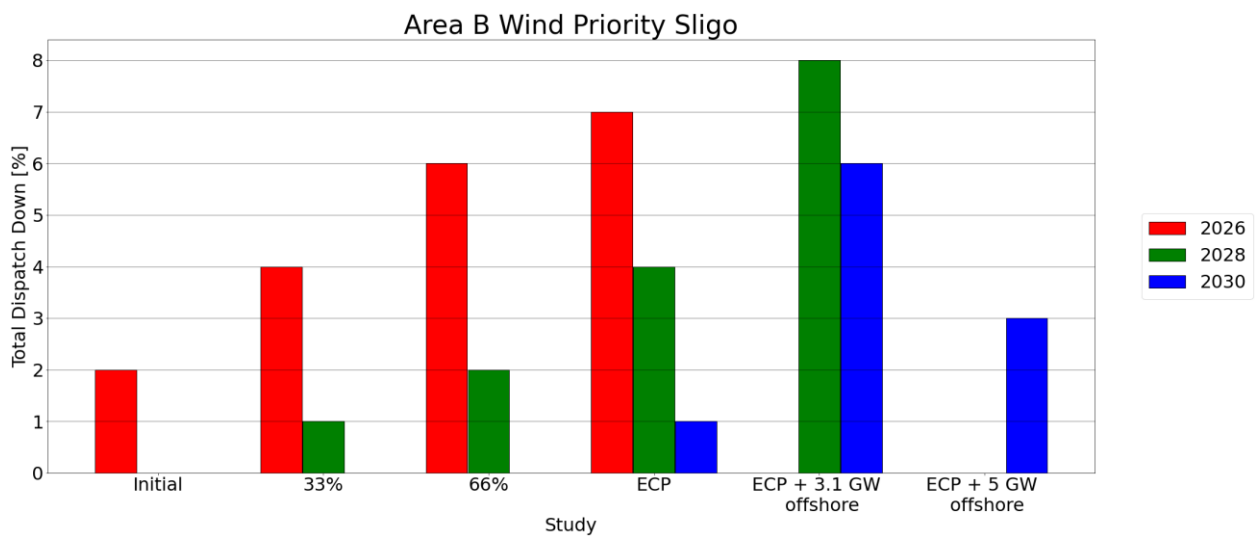


Figure 2-36 - Total Dispatch Down for Wind priority for Node Sligo

2.15 Tawnaghmore

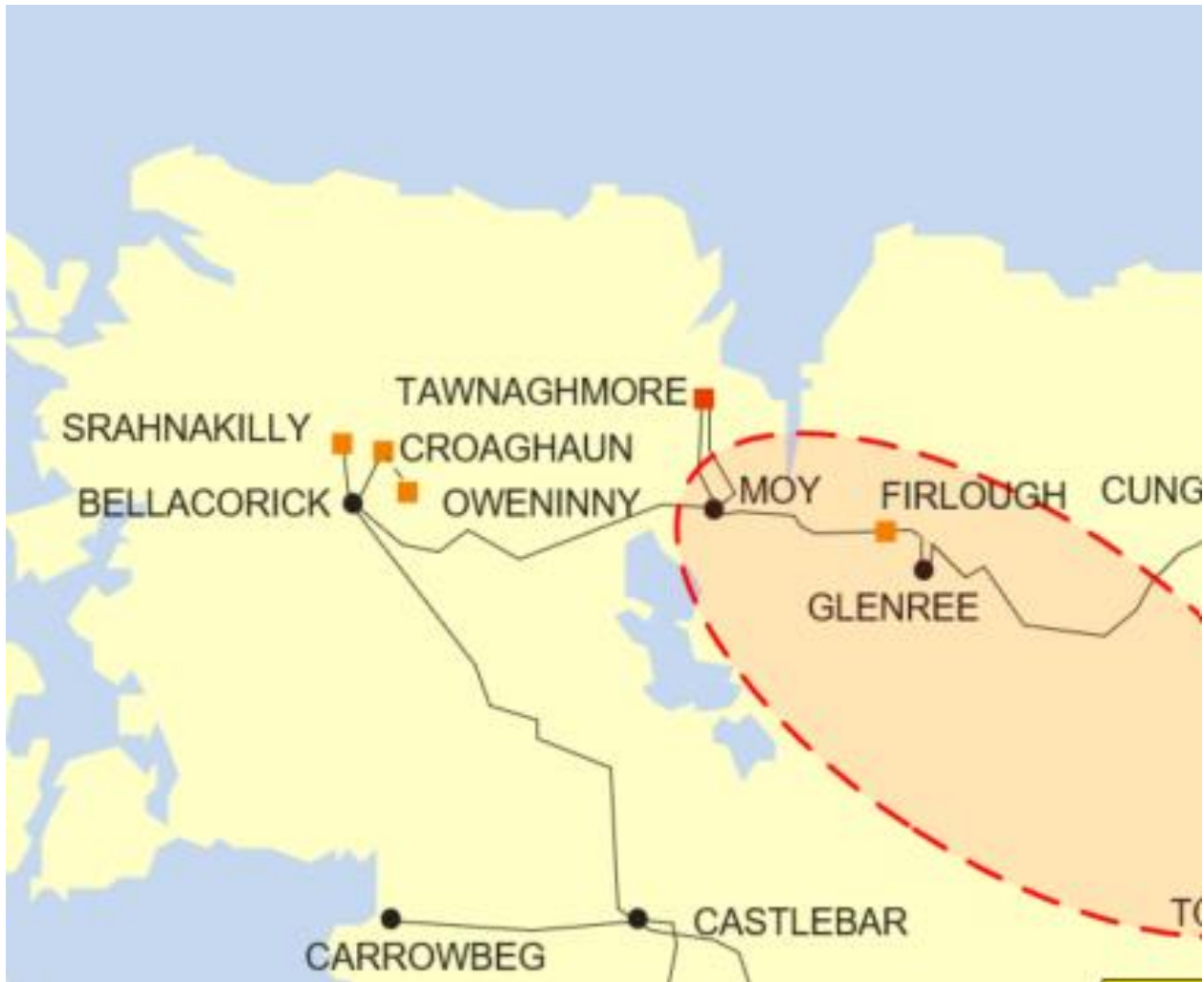


Figure 2-37 - Location of node Tawnaghmore

Generator	SO	Capacity	Type	Status
Killala Wind Farm (Phase 1)	DSO	19.2	wind priority	connected

Table 2-37 - Generation Included in Study for Node Tawnaghmore

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	19	19	19	19		
Installed Capacity (MW)	2028	19	19	19	19	19	
Installed Capacity (MW)	2030				19	19	19
Available Energy (GWh)	2026	58	58	58	58		
Available Energy (GWh)	2028	59	59	59	59	59	
Available Energy (GWh)	2030				58	58	58
Generation (GWh)	2026	57	56	55	54		
Generation (GWh)	2028	59	58	57	56	54	
Generation (GWh)	2030				58	55	56
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailed (%)	2026	2 %	4 %	6 %	7 %		
Curtailed (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Curtailed (%)	2030				1 %	6 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	4 %	6 %	7 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	4 %	8 %	
Total Dispatch Down (%)	2030				1 %	6 %	3 %

Table 2-38 - Surplus, Curtailment and Constraint for Wind priority in Area B

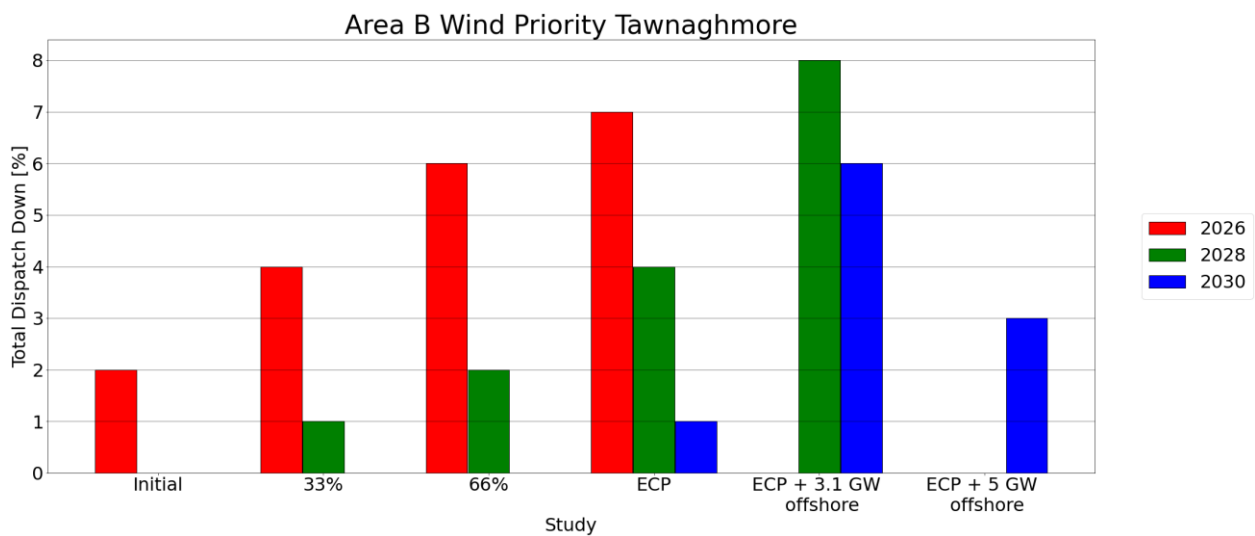


Figure 2-38 - Total Dispatch Down for Wind priority for Node Tawnaghmore

2.16 Uggool

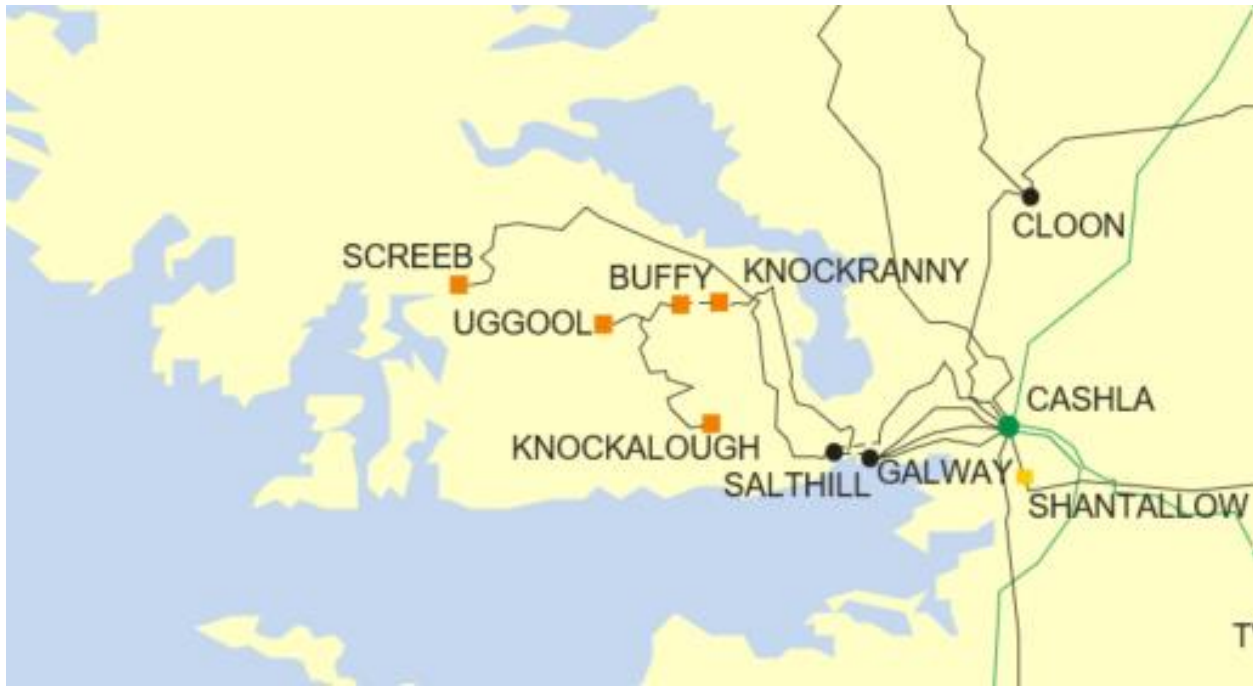


Figure 2-39 - Location of node Uggool

Generator	SO	Capacity	Type	Status
Seecon (1)	TSO	105.0	wind priority	connected
Uggool (1)	TSO	64.0	wind priority	connected

Table 2-39 - Generation Included in Study for Node Uggool

The wind priority data is given in the following table.

Area B	Year	Initial	33%	66%	ECP	ECP + 3.1 GW offshore	ECP + 5 GW offshore
Installed Capacity (MW)	2026	169	169	169	169		
Installed Capacity (MW)	2028	169	169	169	169	169	
Installed Capacity (MW)	2030				169	169	169
Available Energy (GWh)	2026	747	747	747	747		
Available Energy (GWh)	2028	751	751	751	751	751	
Available Energy (GWh)	2030				747	747	747
Generation (GWh)	2026	734	725	714	704		
Generation (GWh)	2028	749	744	738	729	703	
Generation (GWh)	2030				744	713	725
Surplus (%)	2026	<1 %	<1 %	<1 %	<1 %		
Surplus (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Surplus (%)	2030				<1 %	<1 %	<1 %
Curtailed (%)	2026	2 %	3 %	4 %	6 %		
Curtailed (%)	2028	<1 %	1 %	2 %	3 %	6 %	
Curtailed (%)	2030				<1 %	5 %	3 %
Constraint (%)	2026	<1 %	<1 %	<1 %	<1 %		
Constraint (%)	2028	<1 %	<1 %	<1 %	<1 %	<1 %	
Constraint (%)	2030				<1 %	<1 %	<1 %
Total Dispatch Down (%)	2026	2 %	3 %	4 %	6 %		
Total Dispatch Down (%)	2028	<1 %	1 %	2 %	3 %	6 %	
Total Dispatch Down (%)	2030				<1 %	5 %	3 %

Table 2-40 - Surplus, Curtailment and Constraint for Wind priority in Area B

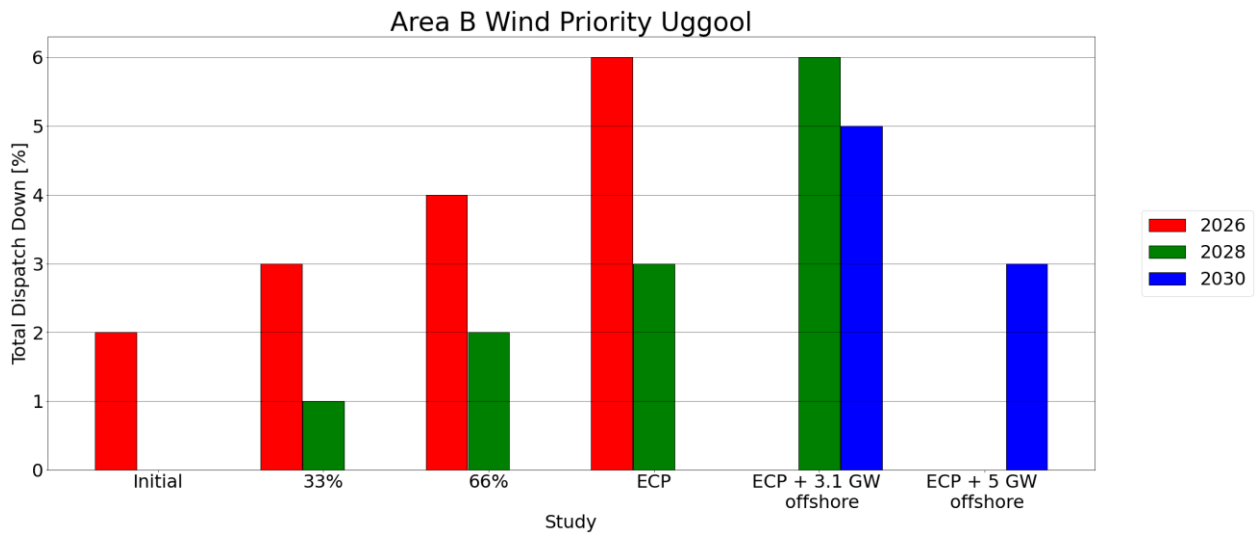


Figure 2-40 - Total Dispatch Down for Wind priority for Node Uggool