Enduring Connection Policy 2.4

Solar and Wind Constraints Report: Results for Area B

Version 1.0

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EirGrid

The Oval, 160 Shelbourne Road, Ballsbridge, Dublin D04 FW28
Telephone: +353 1 677 1700 | www.eirgrid.ie

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info@eirgrid.com

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The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, D04 FW28, Ireland

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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-2.4 webpage[1].

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.eirgrid.ie/industry/customer-information/ecp-constraint-forecast-reports#ecp-2.4-constraint-reports-for-solar-and-wind

Important Note

This ECP-2.4 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.

Following the Judicial decision on the SEM-22-009 Decision Paper on Dispatch, Redispatch and Compensation Pursuant to Regulation EU 2019/943, the detailed design for implementing Articles 12 and 13 is yet to be determined and may differ from the implementation for Total Dispatch Down used in this study. Therefore, an assumed interpretation will be used for ECP-2.4 Constraint Analysis that applies a grandfathering[2] approach to resolving Surplus and Constraint conditions. However, in addition to the Core ECP 2.4 constraint forecast studies a set of sensitivity studies are also included in the study scenarios which employs pro-rata allocation of constraints.

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 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.

The battery sensitivity is termed as "ECP Battery", in which the non-connected batteries from the ECP scenario has been removed.

[2] 'Grandfathering' is where an old rule continues to apply to some existing situations while a new rule will apply to future cases. In the context of Article 12 and Article 13, grandfathering refers to the distinction between how priority dispatch renewable generators (those installed prior to 4th July 2019) and non-priority dispatch renewable generators (those installed on and after 4th July 2019) are treated in the SEM.

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 six core ECP-2.4 studies and nine 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-2.4 constraints forecast analysis applies a similar transmission outage schedule to the ECP-2.3 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 work. These are not considered in this analysis and may result in higher wind and solar constraints in reality.

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 such 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 non-priority renewable generators.

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-Island network with mainland UK and Europe will decrease the frequency of surplus conditions occurring.

In general, increased interconnector capacity with mainland UK may 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 may not 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 of average curtailment differs between areas.

1.2.3.3 Constraints

The constraints on the renewable generation are treated differently in different years. In 2029 and Future Grid scenario, for 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. Such application is termed as grandfathering of constraints. However, in 2027 study the constraints are allocated pro-rata to all renewable generator nodes within the subgroup. Additionally, in relevant sensitivity scenarios, grandfathering or pro-rata constraints allocation are applied accordingly. More details on the approach assumed in this study for the application of constraints to renewable generation can be found in the main ECP 2.4 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	connected		17
Bellacorick	DSO	due to connect		20
Bellacorick	TSO	connected		89
Bellacorick	TSO	due to connect		50
Bellacorick	DSO	connected		6
Bellacorick	DSO	connected		3
Cashla	TSO	due to connect	105	
Castlebar	DSO	due to connect	5	
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		10
Cloon	DSO	connected		4
Cunghill	TSO	connected		35
Dalton	DSO	due to connect	8	
Dalton	DSO	connected		41
Dalton	DSO	connected		3
Firlough	TSO	due to connect		76
Glenree	DSO	connected		40
Glenree	DSO	due to connect		5
Glenree	DSO	connected		37
Knockranny	TSO	connected		91
Knockranny	TSO	due to connect		65
Knockranny	TSO	connected		34
Moy	DSO	due to connect	4	
Moy	DSO	connected		6
Salthill	DSO	connected		41
Screebe	DSO	due to connect	4	
Screebe	DSO	due to connect		4
Screebe	DSO	connected		6
Shantallow	TSO	due to connect	35	
Sligo	DSO	due to connect		4
Sligo	DSO	connected		14
Tawnaghmore	DSO	connected		19
Tonroe	DSO	due to connect		4
Tonroe	DSO	connected		12
Uggool	TSO	connected		169
Total			240	1065

Table 1-1 Wind and Solar Generation Summary (MW) 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	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Ireland (MW)	7005	7005	7005	7005
Installed Area B (MW)	240	240	240	240
Installed Controllable Area B (MW)	240	240	240	240
Available Controllable Area B (GWh)	307	307	307	307

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

Wind	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Ireland (MW)	7358	10432	12358	12358
Installed Area B (MW)	1064	1064	1064	1064
Installed Controllable Area B (MW)	1008	1008	1008	1008
Available Controllable Area B (GWh)	3569	3569	3569	3569

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.

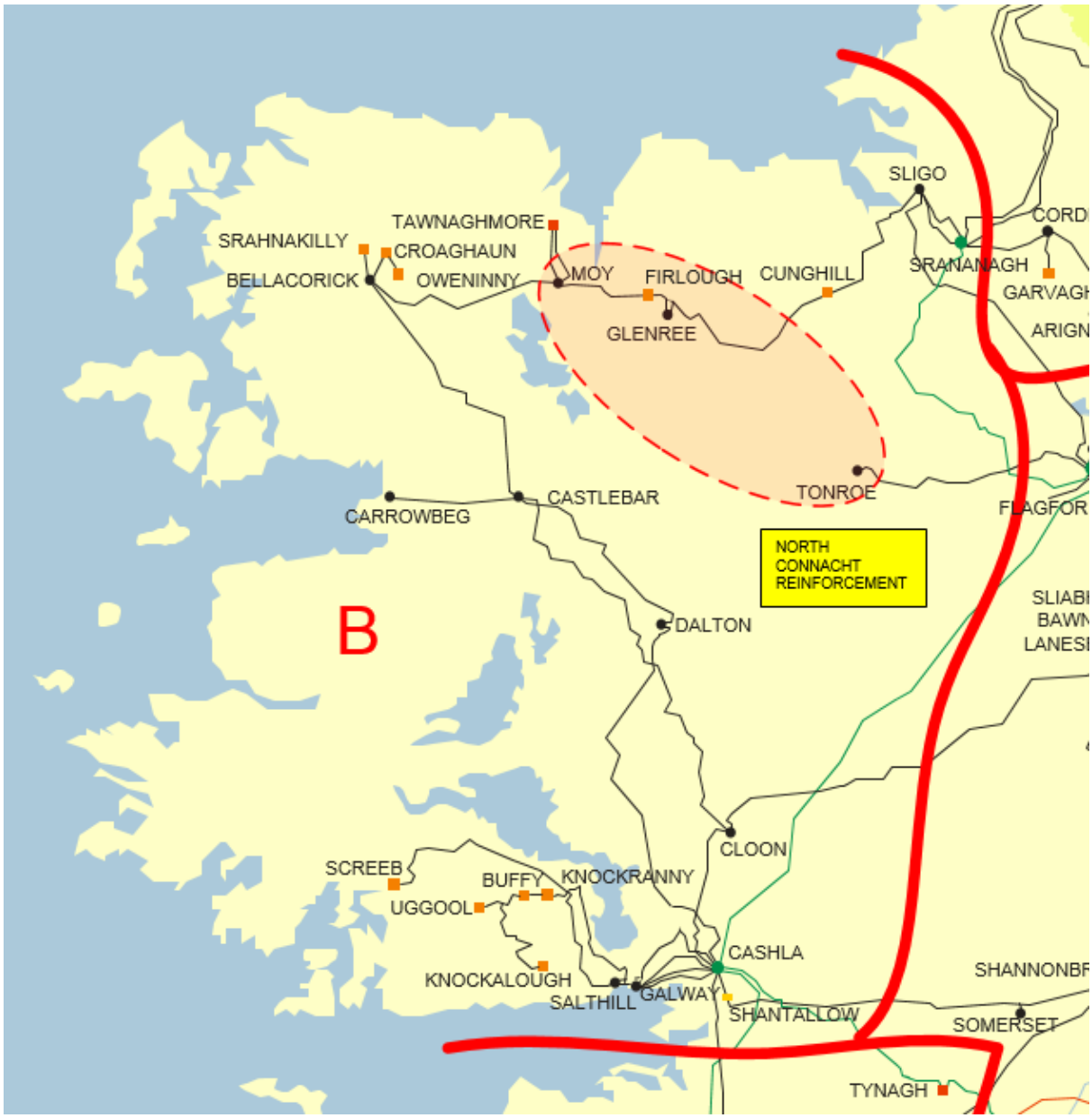

Figure 1-1 Network Map for Area B

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. With additional reinforcements in this area in the year 2029 and Future Grid, the dispatch down in this area reduces.

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 previous ECP constraint forecasts, 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-2.4 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-2.4 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-2.4 process. The ECP study scenario includes all wind and solar projects which have applied through connection processes, whereas the SOEF 1.1 study includes prospective list of generators 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 four sensitivity generation scenarios (ECP + 3.1 GW offshore, ECP + 5 GW offshore, ECP + 5 GW offshore without LirIC and 2nd France IC, 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 Resource Adequacy Assessment 2025-2034.

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 1-20 and Figure 1-3 to Figure 1-9. These include the breakdown between surplus, curtailment, and constraint. The Table 1-6, Table 1-8, Table 1-10, Table 1-12, Table 1-14, Table 1-16, table 1-18 and Table 1-20 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 2029 studies are compared with 2027 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 1-20. 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 grandfathering of surplus and constraints, 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, then 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 percentage for non-priority units within a subgroup.

1.6.3 Battery Sensitivity

The ECP 2.4 constraint forecast study scenarios include a battery sensitivity study. The installed capacity of wind and solar is same as that of ECP scenario while the network and demand are of 2029 study year. The constraint allocation is based on grandfathering. The results show a higher level of Total Dispatch Down especially contributed by the surplus component. During higher RES conditions, with the batteries included, the excess energy available are stored and utilized during low RES available. A detailed breakdown of the Total Dispatch Down components with batteries are given in the section 2 of this report.

1.6.4 Future Grid Sensitivity Study

The results of the Future Grid scenario show a notable reduction in Total Dispatch Down over the core study years (2027 and 2029) 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 1-20. Further node level details can be viewed in Section 2.

1.6.5 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 several 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. With the Area B North region, the contingency created by loss of either side of 110kV lines from Bellacorick overloading the other becomes a significant issue. However, by the year 2029, this region benefits with the inclusion of North Connacht project between Moy and Tonroe station.

The N-1 contingency 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 contingency 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 2029, the area receives reinforcements, and these reduce the stress in the region and increase the power flow towards the east.

For the 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 the B South subgroup. Furthermore, the Cloon 110 kV station is connected to Cashla and Lanesboro and sees less congestion and is therefore also not included in the B South subgroup.

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

Subgroup	Nodes
A, B North	Bellacorick
	Castlebar
	Cunghill
	Dalton
	Firlough
	Glenree
	Moy
	Sligo
	Tawnaghmore
	Tonroe
B South	Knockranny
	Salthill
	Screebe
	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	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	4	10	17				
Installed Capacity (MW)	2029	4	10	17	17			
Installed Capacity (MW)	FG			17		17	17	17
Available Energy (GWh)	2027	5	13	21				
Available Energy (GWh)	2029	5	13	21	21			
Available Energy (GWh)	FG			21		21	21	21
Generation (GWh)	2027	5	11	16				
Generation (GWh)	2029	5	11	17	15			
Generation (GWh)	FG			19		18	17	16
Surplus (%)	2027	1 %	6 %	14 %				
Surplus (%)	2029	0 %	3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027	1 %	2 %	4 %				
Curtailment (%)	2029	0 %	1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	4 %	9 %	7 %				
Constraint (%)	2029	2 %	10 %	9 %	9 %			
Constraint (%)	FG			5 %		3 %	2 %	1 %
Total Dispatch Down (%)	2027	5 %	17 %	25 %				
Total Dispatch Down (%)	2029	3 %	15 %	21 %	29 %			
Total Dispatch Down (%)	FG			11 %		16 %	19 %	25 %

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

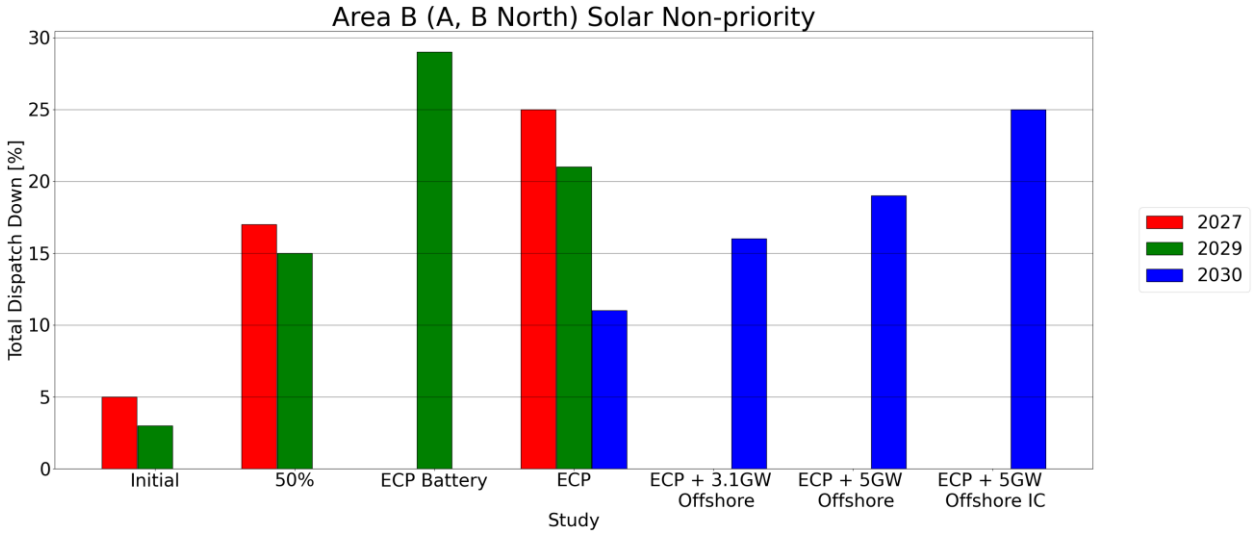

Figure 1-3 Results Solar Non-Priority Area B (A, B North)

Area B (A, B North)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	10	
Installed Capacity (MW)	2029 (pro-rata)	10	
Installed Capacity (MW)	FG (pro-rata)		17
Available Energy (GWh)	2027 (GF)	13	
Available Energy (GWh)	2029 (pro-rata)	13	
Available Energy (GWh)	FG (pro-rata)		21
Generation (GWh)	2027 (GF)	11	
Generation (GWh)	2029 (pro-rata)	11	
Generation (GWh)	FG (pro-rata)		18
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	9 %	
Constraint (%)	2029 (pro-rata)	10 %	
Constraint (%)	FG (pro-rata)		3 %
Total Dispatch Down (%)	2027 (GF)	17 %	
Total Dispatch Down (%)	2029 (pro-rata)	15 %	
Total Dispatch Down (%)	FG (pro-rata)		16 %

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

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

Area B (A, B North)	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	237	333	428				
Installed Capacity (MW)	2029	237	333	428	428			
Installed Capacity (MW)	FG			428		428	428	428
Available Energy (GWh)	2027	722	1012	1302				
Available Energy (GWh)	2029	722	1012	1302	1302			
Available Energy (GWh)	FG			1302		1302	1302	1302
Generation (GWh)	2027	474	674	762				
Generation (GWh)	2029	267	607	724	645			
Generation (GWh)	FG			921		898	825	754
Surplus (%)	2027	1 %	7 %	14 %				
Surplus (%)	2029	0 %	2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027	2 %	3 %	5 %				
Curtailment (%)	2029	0 %	1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	63 %	36 %	35 %	37 %			
Constraint (%)	FG			25 %		15 %	10 %	6 %
Total Dispatch Down (%)	2027	34 %	33 %	41 %				
Total Dispatch Down (%)	2029	63 %	40 %	44 %	50 %			
Total Dispatch Down (%)	FG			29 %		31 %	37 %	42 %

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

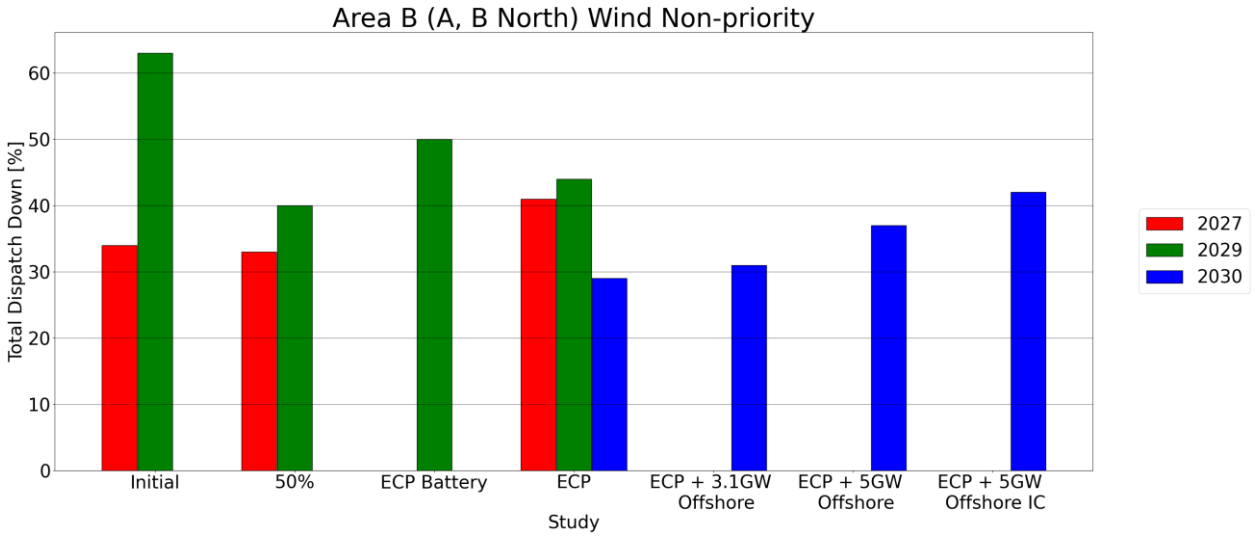

Figure 1-4 Results Wind Non-Priority in Area B (A, B North)

Area B (A, B North)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	333	
Installed Capacity (MW)	2029 (pro-rata)	333	
Installed Capacity (MW)	FG (pro-rata)		428
Available Energy (GWh)	2027 (GF)	1012	
Available Energy (GWh)	2029 (pro-rata)	1012	
Available Energy (GWh)	FG (pro-rata)		1302
Generation (GWh)	2027 (GF)	494	
Generation (GWh)	2029 (pro-rata)	766	
Generation (GWh)	FG (pro-rata)		971
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	41 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	51 %	
Total Dispatch Down (%)	2029 (pro-rata)	24 %	
Total Dispatch Down (%)	FG (pro-rata)		25 %

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

The wind priority data is given in the following table.

Area B (A, B North)	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	166	166	166				
Installed Capacity (MW)	2029	166	166	166	166			
Installed Capacity (MW)	FG			166		166	166	166
Available Energy (GWh)	2027	505	505	505				
Available Energy (GWh)	2029	505	505	505	505			
Available Energy (GWh)	FG			505		505	505	505
Generation (GWh)	2027	337	365	356				
Generation (GWh)	2029	504	497	488	482			
Generation (GWh)	FG			501		490	486	481
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

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

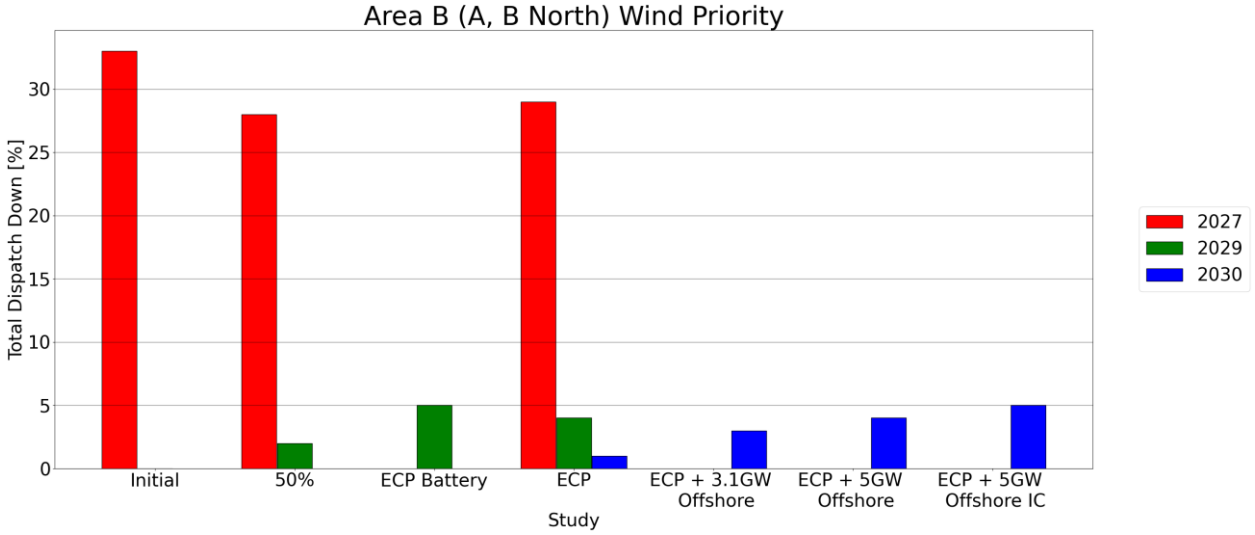

Figure 1-5 Results Wind Priority Area B (A, B North)

Area B (A, B North)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	166	
Installed Capacity (MW)	2029 (pro-rata)	166	
Installed Capacity (MW)	FG (pro-rata)		166
Available Energy (GWh)	2027 (GF)	505	
Available Energy (GWh)	2029 (pro-rata)	505	
Available Energy (GWh)	FG (pro-rata)		505
Generation (GWh)	2027 (GF)	483	
Generation (GWh)	2029 (pro-rata)	393	
Generation (GWh)	FG (pro-rata)		442
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

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

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

Area B (C)	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	39	129	219				
Installed Capacity (MW)	2029	39	129	219	219			
Installed Capacity (MW)	FG			219		219	219	219
Available Energy (GWh)	2027	50	165	281				
Available Energy (GWh)	2029	50	165	281	281			
Available Energy (GWh)	FG			281		281	281	281
Generation (GWh)	2027	49	149	223				
Generation (GWh)	2029	49	155	241	216			
Generation (GWh)	FG			259		244	232	214
Surplus (%)	2027	1 %	6 %	14 %				
Surplus (%)	2029	0 %	3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027	1 %	2 %	4 %				
Curtailment (%)	2029	0 %	1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	1 %	2 %	2 %				
Constraint (%)	2029	1 %	2 %	2 %	3 %			
Constraint (%)	FG			1 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	3 %	10 %	20 %				
Total Dispatch Down (%)	2029	1 %	6 %	14 %	23 %			
Total Dispatch Down (%)	FG			8 %		13 %	17 %	24 %

Table 1-11 - Surplus, Curtailment and Constraint for Solar Non-priority in Area B (C)

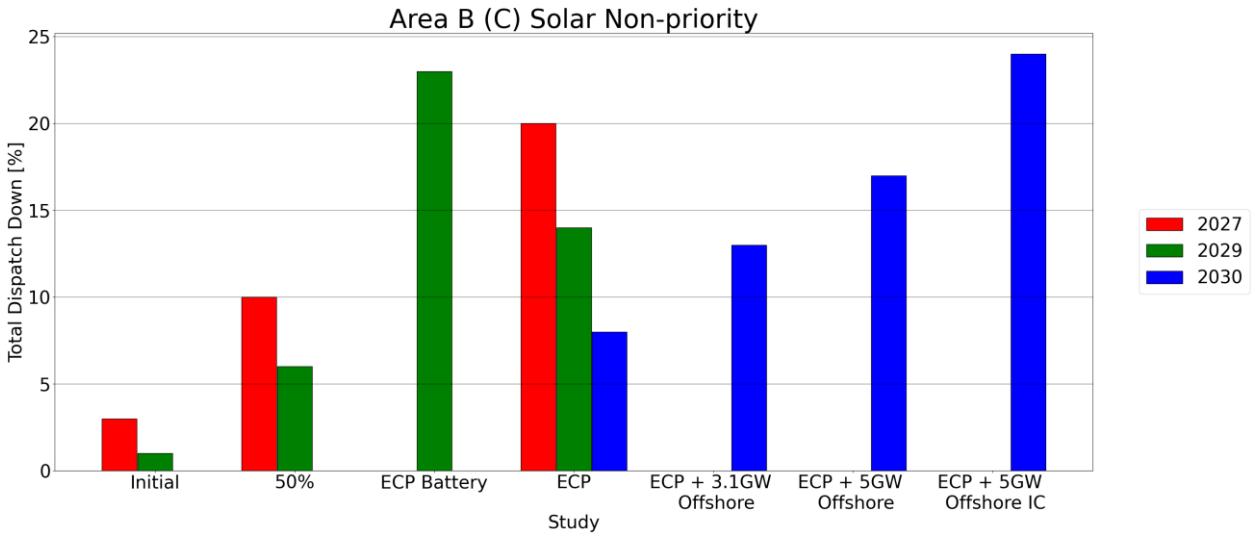

Figure 1-6 - Results Solar Non-priority Area B (C)

Area B (C)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	129	
Installed Capacity (MW)	2029 (pro-rata)	129	
Installed Capacity (MW)	FG (pro-rata)		219
Available Energy (GWh)	2027 (GF)	165	
Available Energy (GWh)	2029 (pro-rata)	165	
Available Energy (GWh)	FG (pro-rata)		281
Generation (GWh)	2027 (GF)	149	
Generation (GWh)	2029 (pro-rata)	155	
Generation (GWh)	FG (pro-rata)		244
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	2 %	
Constraint (%)	2029 (pro-rata)	2 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	10 %	
Total Dispatch Down (%)	2029 (pro-rata)	6 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 1-12 - Surplus, Curtailment and Constraint for Solar Non-priority with sensitivity in Area B (C)

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

Area B (C)	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		5	10				
Installed Capacity (MW)	2029		5	10	10			
Installed Capacity (MW)	FG			10		10	10	10
Available Energy (GWh)	2027		15	30				
Available Energy (GWh)	2029		15	30	30			
Available Energy (GWh)	FG			30		30	30	30
Generation (GWh)	2027		12	23				
Generation (GWh)	2029		12	25	22			
Generation (GWh)	FG			25		25	21	19
Surplus (%)	2027		7 %	14 %				
Surplus (%)	2029		2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027		3 %	5 %				
Curtailment (%)	2029		1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		9 %	6 %				
Constraint (%)	2029		16 %	9 %	13 %			
Constraint (%)	FG			12 %		2 %	3 %	2 %
Total Dispatch Down (%)	2027		19 %	25 %				
Total Dispatch Down (%)	2029		19 %	18 %	26 %			
Total Dispatch Down (%)	FG			16 %		18 %	30 %	38 %

Table 1-13- Surplus, Curtailment and Constraint for Wind Non-priority in Area B (C)

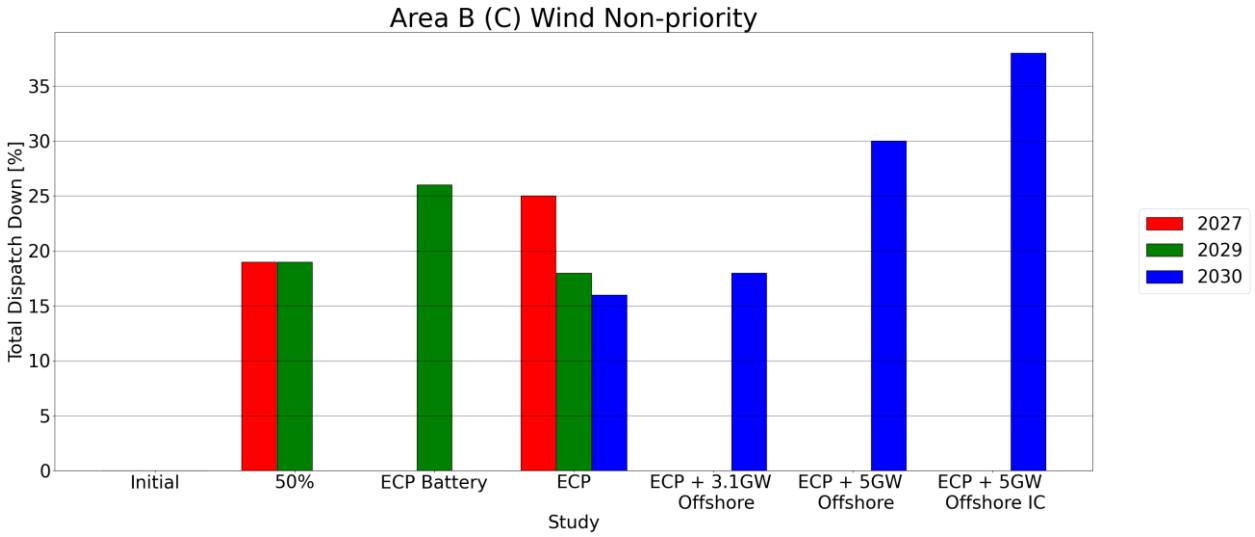

Figure 1-7 - Results Wind Non-priority Area B (C)

Area B (C)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	5	
Installed Capacity (MW)	2029 (pro-rata)	5	
Installed Capacity (MW)	FG (pro-rata)		10
Available Energy (GWh)	2027 (GF)	15	
Available Energy (GWh)	2029 (pro-rata)	15	
Available Energy (GWh)	FG (pro-rata)		30
Generation (GWh)	2027 (GF)	12	
Generation (GWh)	2029 (pro-rata)	13	
Generation (GWh)	FG (pro-rata)		25
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	12 %	
Constraint (%)	2029 (pro-rata)	12 %	
Constraint (%)	FG (pro-rata)		2 %
Total Dispatch Down (%)	2027 (GF)	22 %	
Total Dispatch Down (%)	2029 (pro-rata)	16 %	
Total Dispatch Down (%)	FG (pro-rata)		18 %

Table 1-14- Surplus, Curtailment and Constraint for Wind Non-priority with sensitivity in Area B (C)

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

Area B (B South)	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		2	4				
Installed Capacity (MW)	2029		2	4	4			
Installed Capacity (MW)	FG			4		4	4	4
Available Energy (GWh)	2027		3	5				
Available Energy (GWh)	2029		3	5	5			
Available Energy (GWh)	FG			5		5	5	5
Generation (GWh)	2027		2	4				
Generation (GWh)	2029		2	4	4			
Generation (GWh)	FG			5		4	4	4
Surplus (%)	2027		6 %	14 %				
Surplus (%)	2029		3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027		2 %	4 %				
Curtailment (%)	2029		1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		1 %	3 %				
Constraint (%)	2029		2 %	7 %	5 %			
Constraint (%)	FG			2 %		1 %	0 %	0 %
Total Dispatch Down (%)	2027		9 %	21 %				
Total Dispatch Down (%)	2029		7 %	18 %	25 %			
Total Dispatch Down (%)	FG			8 %		13 %	18 %	24 %

Table 1-15- Surplus, Curtailment and Constraint for Solar Non-priority in Area B (B South)

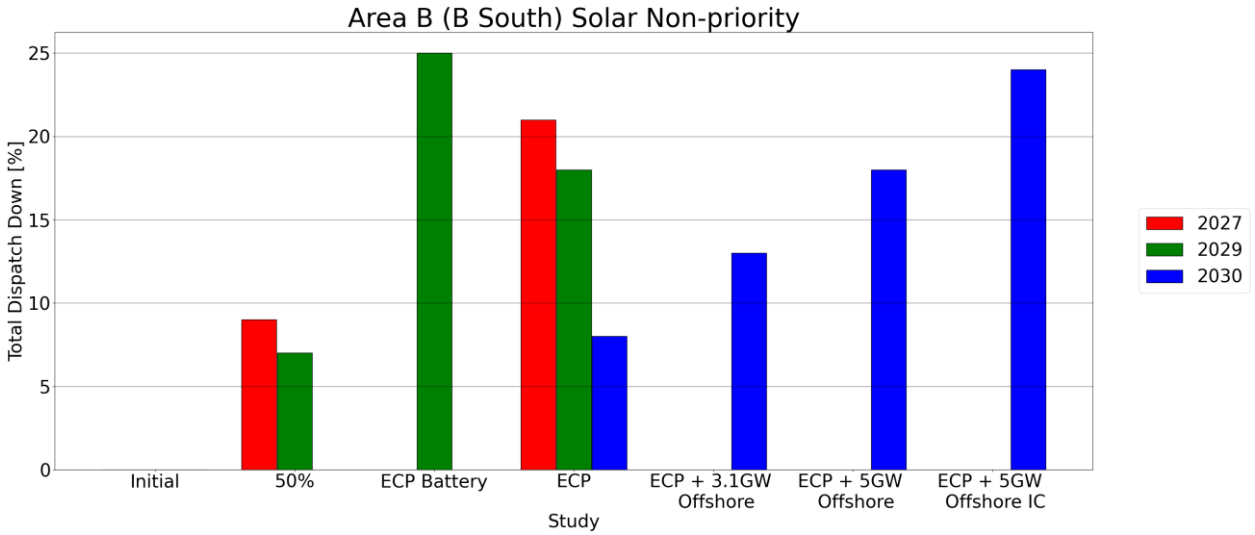

Figure 1-7 - Results Solar Non-priority Area B (B South)

Area B (B South)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	2	
Installed Capacity (MW)	2029 (pro-rata)	2	
Installed Capacity (MW)	FG (pro-rata)		4
Available Energy (GWh)	2027 (GF)	3	
Available Energy (GWh)	2029 (pro-rata)	3	
Available Energy (GWh)	FG (pro-rata)		5
Generation (GWh)	2027 (GF)	2	
Generation (GWh)	2029 (pro-rata)	2	
Generation (GWh)	FG (pro-rata)		4
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	1 %	
Constraint (%)	2029 (pro-rata)	2 %	
Constraint (%)	FG (pro-rata)		1 %
Total Dispatch Down (%)	2027 (GF)	9 %	
Total Dispatch Down (%)	2029 (pro-rata)	7 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 1-16- Surplus, Curtailment and Constraint for Solar Non-priority with sensitivity in Area B (B South)

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

Area B (B South)	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	91	126	161				
Installed Capacity (MW)	2029	91	126	161	161			
Installed Capacity (MW)	FG			161		161	161	161
Available Energy (GWh)	2027	403	557	711				
Available Energy (GWh)	2029	403	557	711	711			
Available Energy (GWh)	FG			711		711	711	711
Generation (GWh)	2027	388	513	596				
Generation (GWh)	2029	389	528	609	595			
Generation (GWh)	FG			679		621	555	496
Surplus (%)	2027	1 %	5 %	11 %				
Surplus (%)	2029	0 %	2 %	5 %	7 %			
Surplus (%)	FG			2 %		10 %	20 %	28 %
Curtailment (%)	2027	1 %	2 %	4 %				
Curtailment (%)	2029	0 %	1 %	2 %	3 %			
Curtailment (%)	FG			0 %		2 %	2 %	2 %
Constraint (%)	2027	2 %	1 %	2 %				
Constraint (%)	2029	3 %	3 %	8 %	6 %			
Constraint (%)	FG			2 %		1 %	0 %	0 %
Total Dispatch Down (%)	2027	4 %	8 %	16 %				
Total Dispatch Down (%)	2029	4 %	5 %	14 %	16 %			
Total Dispatch Down (%)	FG			5 %		13 %	22 %	30 %

Table 1-17 - Surplus, Curtailment and Constraint for Wind Non-priority in Area B (B South)

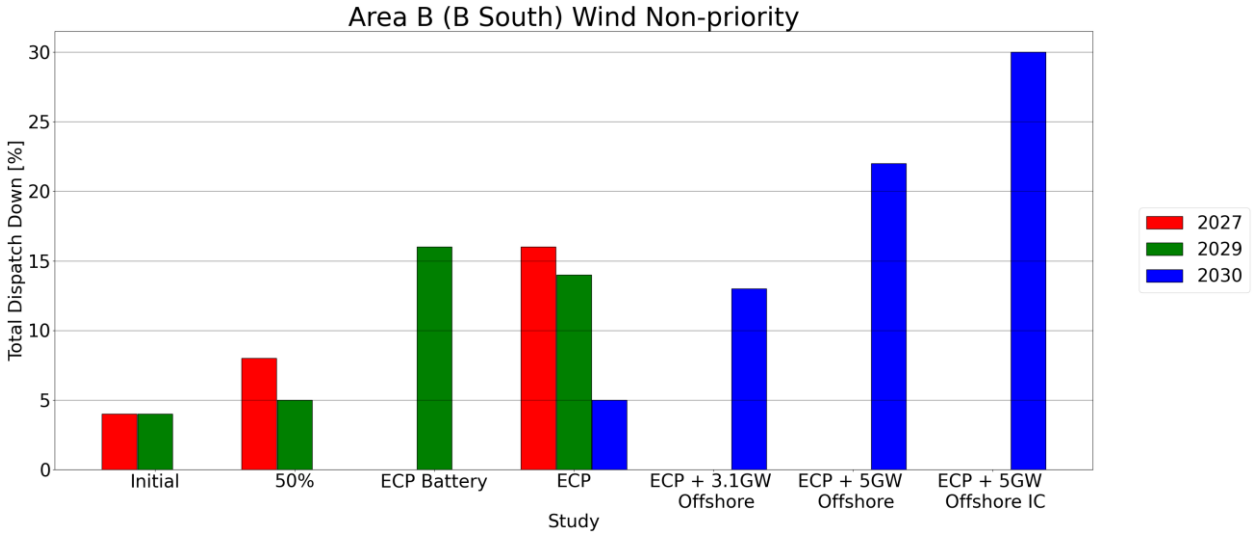

Figure 1-8 - Results Wind Non-priority Area B (B South)

Area B (B South)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	126	
Installed Capacity (MW)	2029 (pro-rata)	126	
Installed Capacity (MW)	FG (pro-rata)		161
Available Energy (GWh)	2027 (GF)	557	
Available Energy (GWh)	2029 (pro-rata)	557	
Available Energy (GWh)	FG (pro-rata)		711
Generation (GWh)	2027 (GF)	507	
Generation (GWh)	2029 (pro-rata)	537	
Generation (GWh)	FG (pro-rata)		624
Surplus (%)	2027 (GF)	5 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		10 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	2 %	
Constraint (%)	2029 (pro-rata)	1 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	9 %	
Total Dispatch Down (%)	2029 (pro-rata)	4 %	
Total Dispatch Down (%)	FG (pro-rata)		12 %

Table 1-18 - Surplus, Curtailment and Constraint for Wind Non-priority with sensitivity in Area B (B South)

The wind priority data is given in the following table.

Area B (B South)	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	244	244	244				
Installed Capacity (MW)	2029	244	244	244	244			
Installed Capacity (MW)	FG			244		244	244	244
Available Energy (GWh)	2027	1020	1020	1020				
Available Energy (GWh)	2029	1020	1020	1020	1020			
Available Energy (GWh)	FG			1020		1020	1020	1020
Generation (GWh)	2027	988	979	945				
Generation (GWh)	2029	1018	1007	993	982			
Generation (GWh)	FG			1014		996	986	976
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	1 %	4 %	6 %				
Curtailment (%)	2029	0 %	1 %	3 %	4 %			
Curtailment (%)	FG			1 %		3 %	4 %	4 %
Constraint (%)	2027	2 %	1 %	2 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	3 %	4 %	8 %				
Total Dispatch Down (%)	2029	0 %	1 %	3 %	4 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	4 %

Table 1-19 - Surplus, Curtailment and Constraint for Wind Priority in Area B (B South)

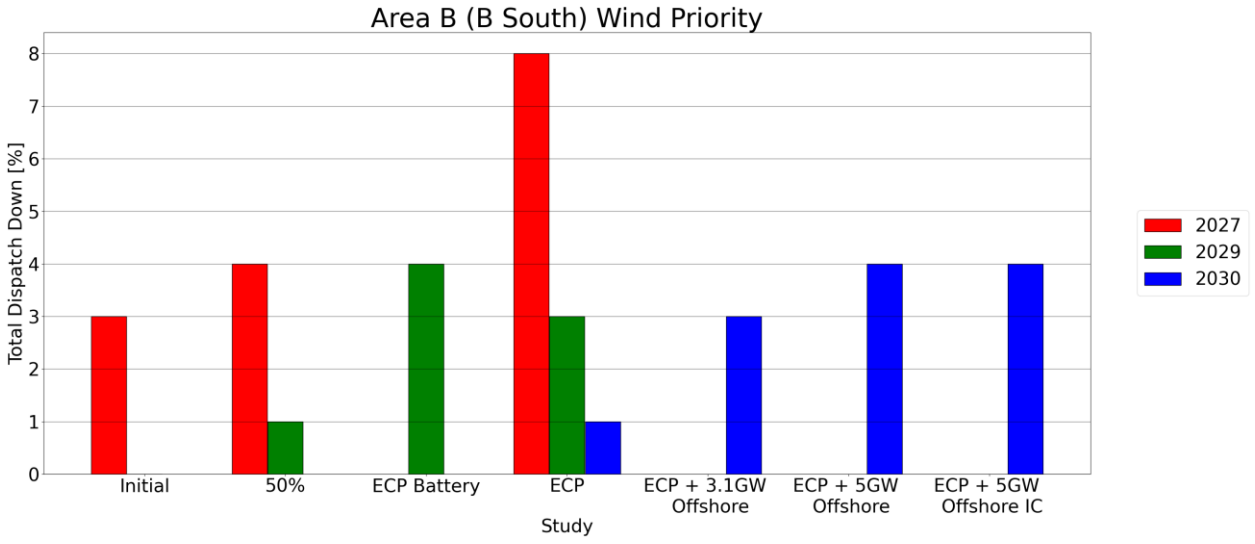

Figure 1-9 - Results Wind Priority Area B (B South)

Area B (B South)	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	244	
Installed Capacity (MW)	2029 (pro-rata)	244	
Installed Capacity (MW)	FG (pro-rata)		244
Available Energy (GWh)	2027 (GF)	1020	
Available Energy (GWh)	2029 (pro-rata)	1020	
Available Energy (GWh)	FG (pro-rata)		1020
Generation (GWh)	2027 (GF)	985	
Generation (GWh)	2029 (pro-rata)	998	
Generation (GWh)	FG (pro-rata)		993
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	1 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	2 %	
Total Dispatch Down (%)	FG (pro-rata)		3 %

Table 1-20 - Surplus, Curtailment and Constraint for Wind Priority with sensitivity in 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.

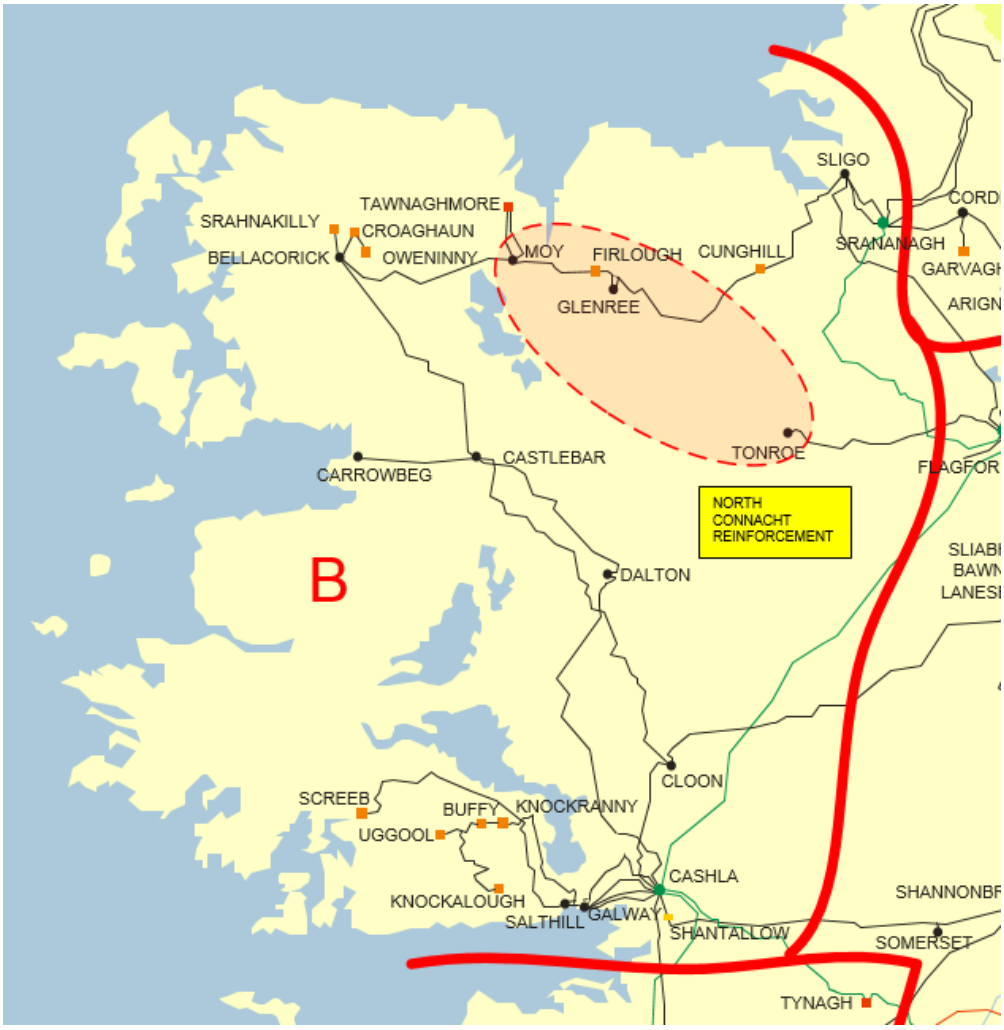

Figure 2-0 Area B

2.1 Bellacorick

Figure 2-1 - Location of node Bellacorick

Generator	SO	Capacity	Type	Status
Bellacorick (1)	DSO	6.45	wind priority	connected
Oweninny Power (1)	TSO	89.0	wind not priority	connected
Bunnahowen (1)	DSO	2.55	wind uncontrolled	connected
Oweninny Power (2)	TSO	83.0	wind not priority	connected
Sheskin (1)	DSO	16.8	wind not priority	connected
Sheskin Windfarm Phase 2	DSO	16.1	wind not priority	due to connect
Corvoderry (was Gortnahurra (1))	DSO	33.9	wind not priority	due to connect
Oweninny 3 (Previously Oweninny 5)	TSO	50.0	wind not priority	due to connect
Dooleeg More (1)	DSO	2.5	wind not priority	due to connect
Dooleeg More Ext.	DSO	1.3	wind not priority	due to connect

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

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	190	241	293				
Installed Capacity (MW)	2029	190	241	293	293			
Installed Capacity (MW)	FG			293		293	293	293
Available Energy (GWh)	2027	578	734	890				
Available Energy (GWh)	2029	578	734	890	890			
Available Energy (GWh)	FG			890		890	890	890
Generation (GWh)	2027	380	489	521				
Generation (GWh)	2029	214	440	495	441			
Generation (GWh)	FG			629		614	564	515
Surplus (%)	2027	1 %	7 %	14 %				
Surplus (%)	2029	0 %	2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027	2 %	3 %	5 %				
Curtailment (%)	2029	0 %	1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	63 %	36 %	35 %	37 %			
Constraint (%)	FG			25 %		15 %	10 %	6 %
Total Dispatch Down (%)	2027	34 %	33 %	41 %				
Total Dispatch Down (%)	2029	63 %	40 %	44 %	50 %			
Total Dispatch Down (%)	FG			29 %		31 %	37 %	42 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	241	
Installed Capacity (MW)	2029 (pro-rata)	241	
Installed Capacity (MW)	FG (pro-rata)		293
Available Energy (GWh)	2027 (GF)	734	
Available Energy (GWh)	2029 (pro-rata)	734	
Available Energy (GWh)	FG (pro-rata)		890
Generation (GWh)	2027 (GF)	358	
Generation (GWh)	2029 (pro-rata)	556	
Generation (GWh)	FG (pro-rata)		664
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	41 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	51 %	
Total Dispatch Down (%)	2029 (pro-rata)	24 %	
Total Dispatch Down (%)	FG (pro-rata)		25 %

Table 2-3 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Bellacorick

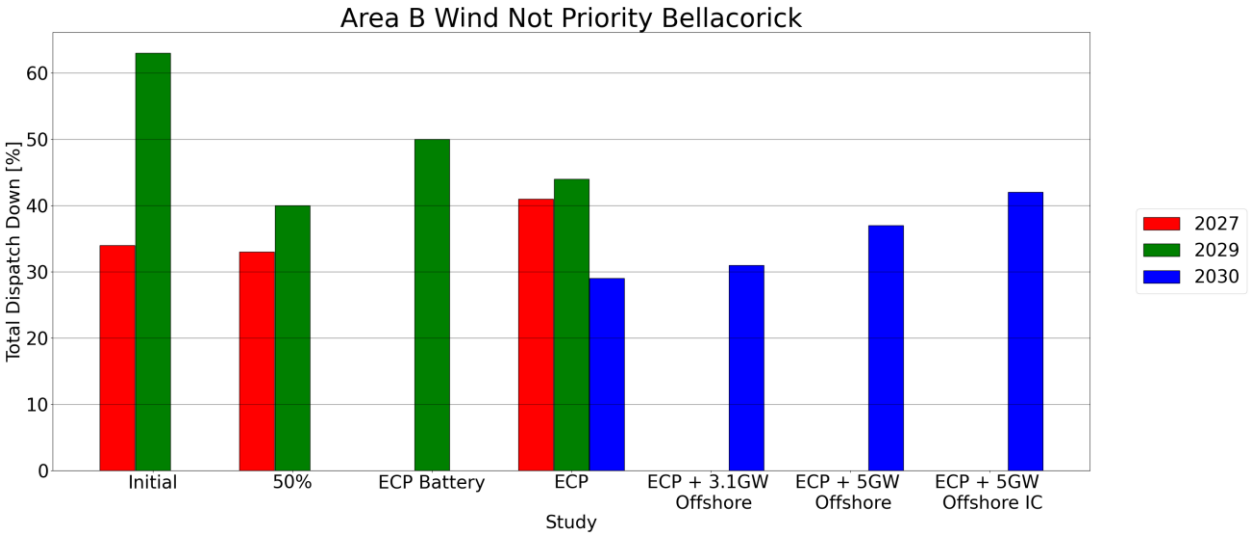

Figure 2-2 - Total Dispatch Down for Wind not priority for Node Bellacorick

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	6	6	6				
Installed Capacity (MW)	2029	6	6	6	6			
Installed Capacity (MW)	FG			6		6	6	6
Available Energy (GWh)	2027	20	20	20				
Available Energy (GWh)	2029	20	20	20	20			
Available Energy (GWh)	FG			20		20	20	20
Generation (GWh)	2027	13	14	14				
Generation (GWh)	2029	20	19	19	19			
Generation (GWh)	FG			19		19	19	19
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	6	
Installed Capacity (MW)	2029 (pro-rata)	6	
Installed Capacity (MW)	FG (pro-rata)		6
Available Energy (GWh)	2027 (GF)	20	
Available Energy (GWh)	2029 (pro-rata)	20	
Available Energy (GWh)	FG (pro-rata)		20
Generation (GWh)	2027 (GF)	19	
Generation (GWh)	2029 (pro-rata)	15	
Generation (GWh)	FG (pro-rata)		17
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

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

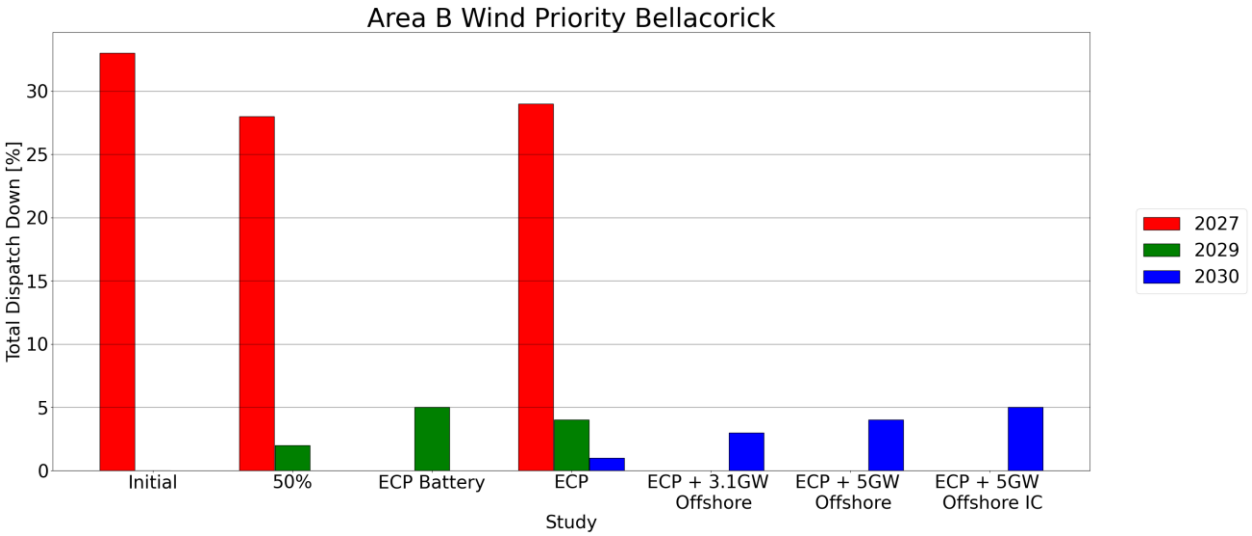

Figure 2-3 - Total Dispatch Down for Wind priority for Node Bellacorick

2.2 Cashla

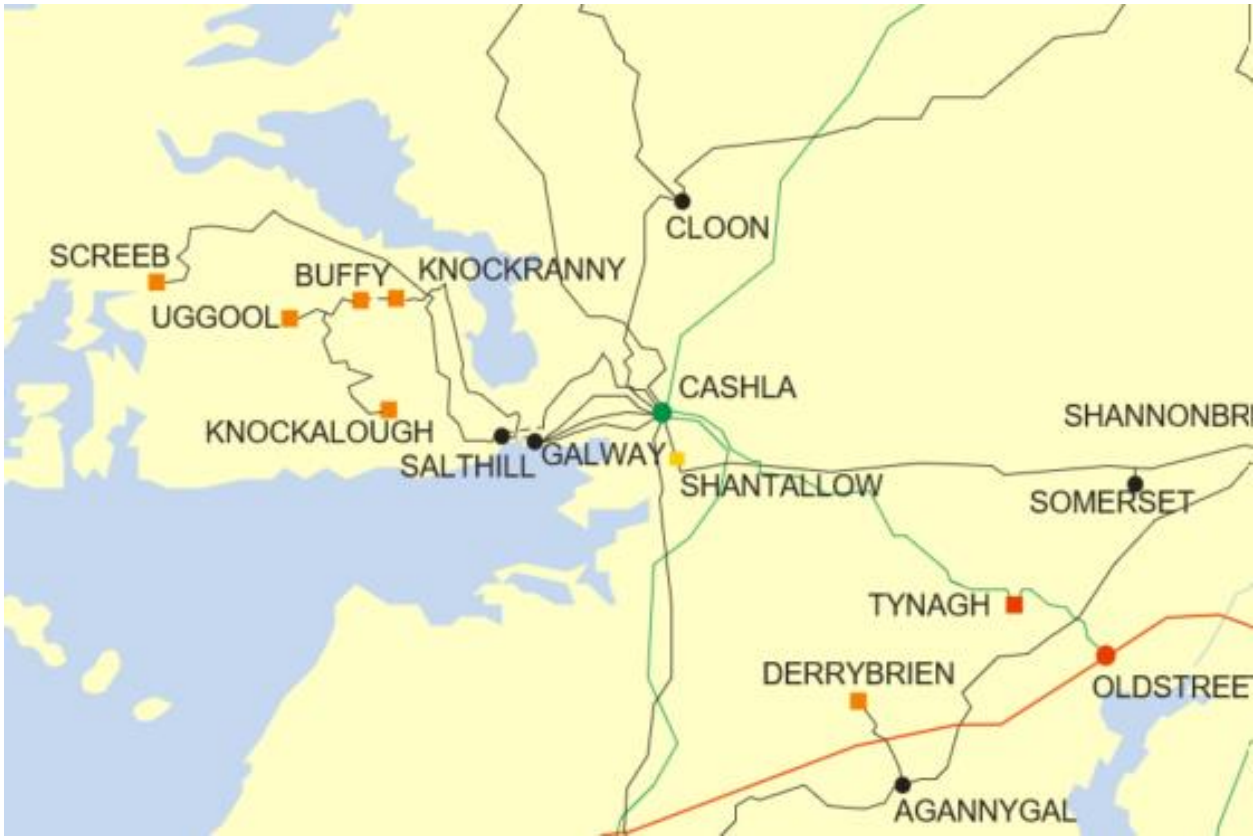

Figure 2-4 - Location of node Cashla

Generator	SO	Capacity	Type	Status
Ballymoneen Solar Park	TSO	100.0	solar not priority	due to connect
Ballymoneen Phase 2	TSO	5.0	solar not priority	due to connect

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

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		52	105				
Installed Capacity (MW)	2029		52	105	105			
Installed Capacity (MW)	FG			105		105	105	105
Available Energy (GWh)	2027		67	135				
Available Energy (GWh)	2029		67	135	135			
Available Energy (GWh)	FG			135		135	135	135
Generation (GWh)	2027		61	107				
Generation (GWh)	2029		63	116	103			
Generation (GWh)	FG			124		117	111	103
Surplus (%)	2027		6 %	14 %				
Surplus (%)	2029		3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027		2 %	4 %				
Curtailment (%)	2029		1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		2 %	2 %				
Constraint (%)	2029		2 %	2 %	3 %			
Constraint (%)	FG			1 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027		10 %	20 %				
Total Dispatch Down (%)	2029		6 %	14 %	23 %			
Total Dispatch Down (%)	FG			8 %		13 %	17 %	24 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	52	
Installed Capacity (MW)	2029 (pro-rata)	52	
Installed Capacity (MW)	FG (pro-rata)		105
Available Energy (GWh)	2027 (GF)	67	
Available Energy (GWh)	2029 (pro-rata)	67	
Available Energy (GWh)	FG (pro-rata)		135
Generation (GWh)	2027 (GF)	61	
Generation (GWh)	2029 (pro-rata)	63	
Generation (GWh)	FG (pro-rata)		117
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	2 %	
Constraint (%)	2029 (pro-rata)	2 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	10 %	
Total Dispatch Down (%)	2029 (pro-rata)	6 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

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

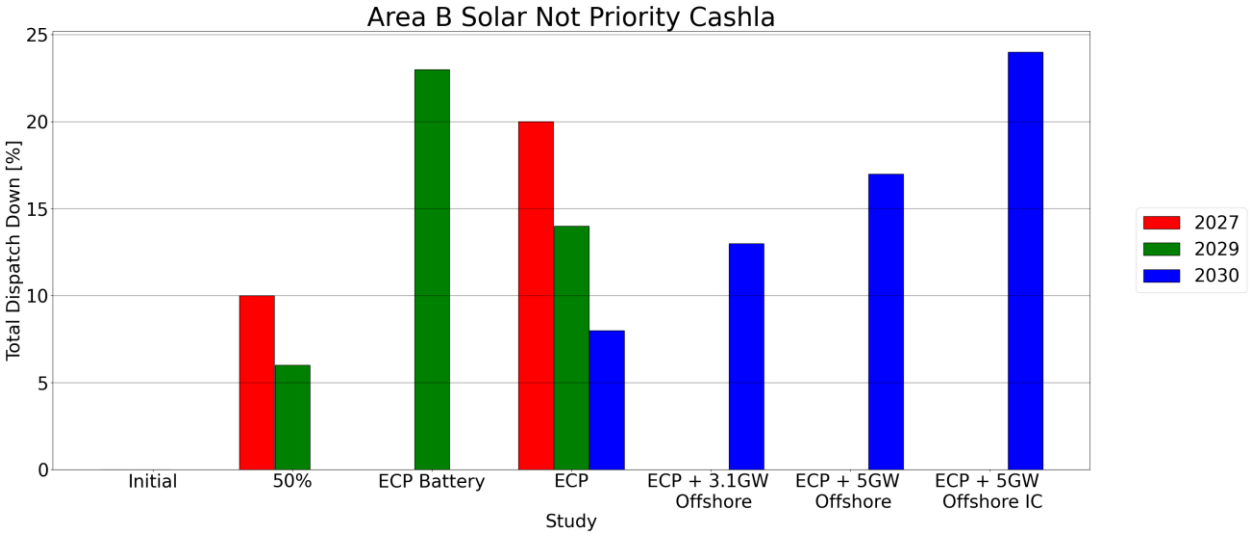

Figure 2-5 - Total Dispatch Down for Solar not priority for Node Cashla

2.3 Castlebar

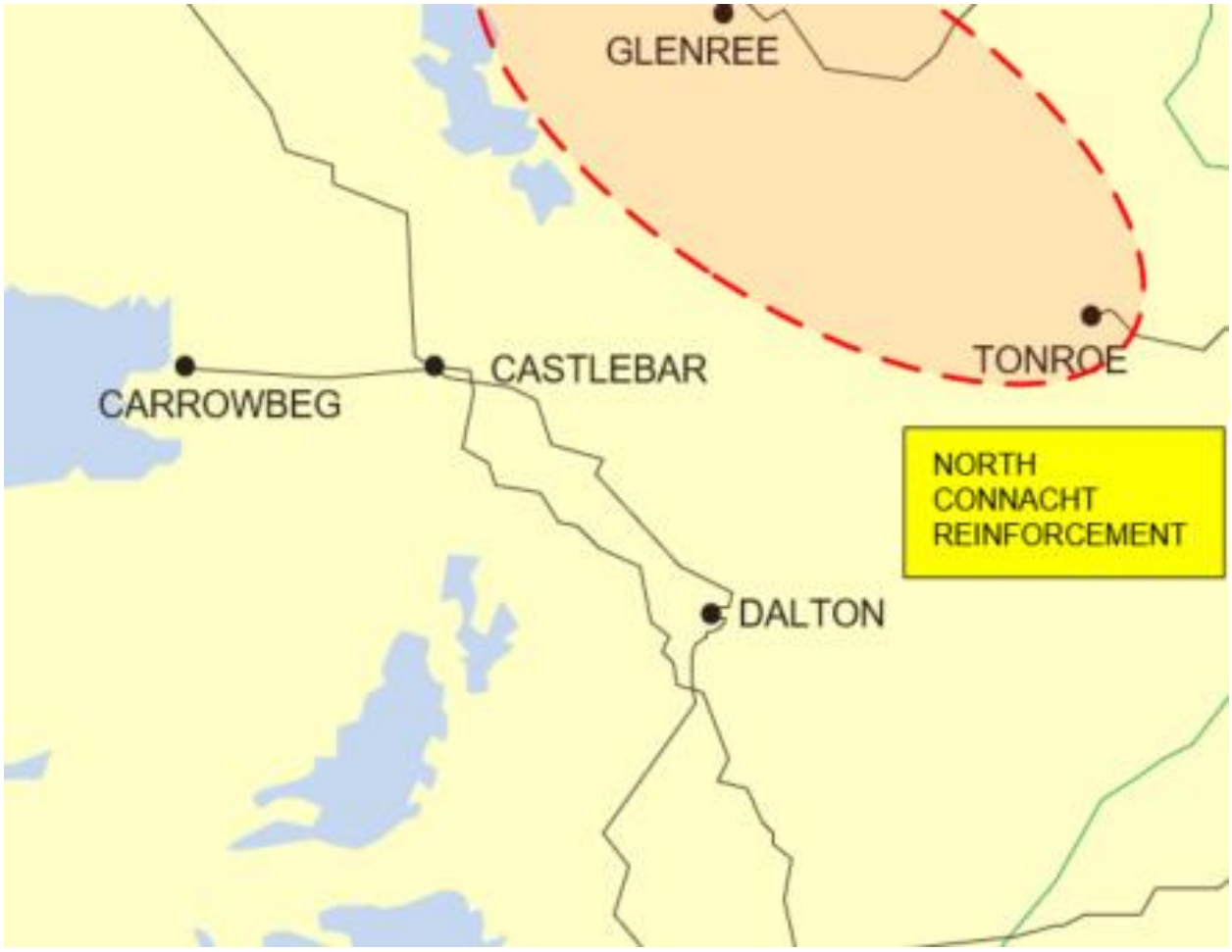

Figure 2-6 - Location of node Castlebar

Generator	SO	Capacity	Type	Status
Cuillalea (1)	DSO	3.4	wind uncontrolled	connected
Raheen Barr (1)	DSO	18.7	wind uncontrolled	connected
Raheen Barr extension (was Derrynadivva extension)	DSO	6.8	wind not priority	connected
Lenanavea (Burren) Wind Farm	DSO	4.65	wind uncontrolled	connected
Cuillalea (2)	DSO	1.59	wind uncontrolled	connected
Derrynadivva Wind Farm (prev. Raheen Bar 2)	DSO	8.5	wind priority	connected
Moy Valley Decarbonising Community CLG	DSO	4.99	solar not priority	due to connect

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

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		2	5				
Installed Capacity (MW)	2029		2	5	5			
Installed Capacity (MW)	FG			5		5	5	5
Available Energy (GWh)	2027		3	6				
Available Energy (GWh)	2029		3	6	6			
Available Energy (GWh)	FG			6		6	6	6
Generation (GWh)	2027		3	5				
Generation (GWh)	2029		3	5	5			
Generation (GWh)	FG			6		5	5	5
Surplus (%)	2027		6 %	14 %				
Surplus (%)	2029		3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027		2 %	4 %				
Curtailment (%)	2029		1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		9 %	7 %				
Constraint (%)	2029		10 %	9 %	9 %			
Constraint (%)	FG			5 %		3 %	2 %	1 %
Total Dispatch Down (%)	2027		17 %	25 %				
Total Dispatch Down (%)	2029		15 %	21 %	29 %			
Total Dispatch Down (%)	FG			11 %		16 %	19 %	25 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	2	
Installed Capacity (MW)	2029 (pro-rata)	2	
Installed Capacity (MW)	FG (pro-rata)		5
Available Energy (GWh)	2027 (GF)	3	
Available Energy (GWh)	2029 (pro-rata)	3	
Available Energy (GWh)	FG (pro-rata)		6
Generation (GWh)	2027 (GF)	3	
Generation (GWh)	2029 (pro-rata)	3	
Generation (GWh)	FG (pro-rata)		5
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	9 %	
Constraint (%)	2029 (pro-rata)	10 %	
Constraint (%)	FG (pro-rata)		3 %
Total Dispatch Down (%)	2027 (GF)	17 %	
Total Dispatch Down (%)	2029 (pro-rata)	15 %	
Total Dispatch Down (%)	FG (pro-rata)		16 %

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

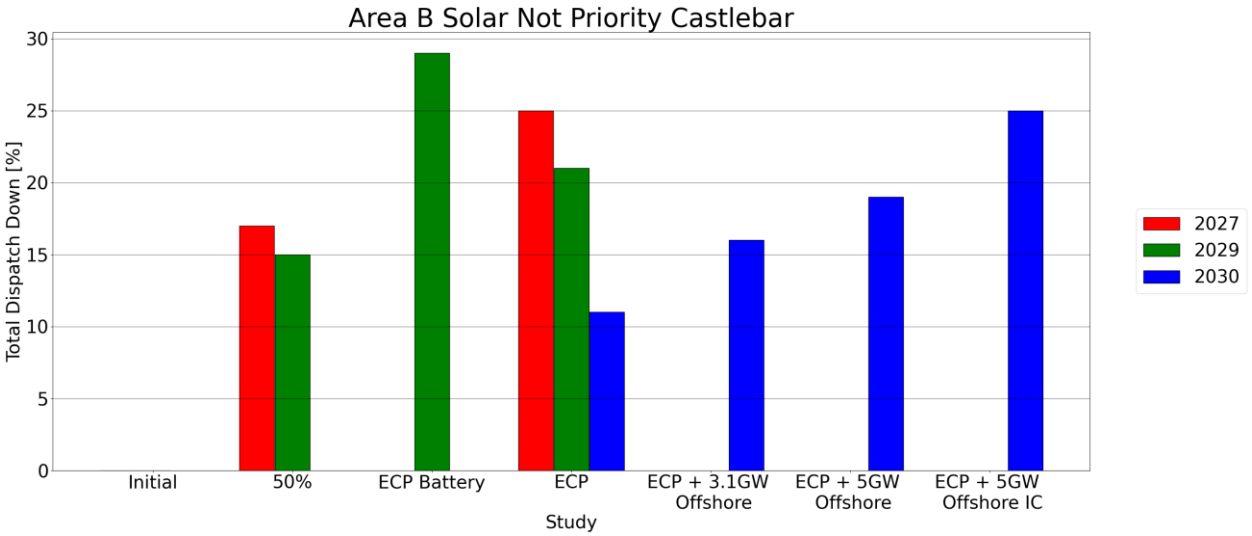

Figure 2-7 - Total Dispatch Down for Solar not priority for Node Castlebar

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	7	7	7				
Installed Capacity (MW)	2029	7	7	7	7			
Installed Capacity (MW)	FG			7		7	7	7
Available Energy (GWh)	2027	21	21	21				
Available Energy (GWh)	2029	21	21	21	21			
Available Energy (GWh)	FG			21		21	21	21
Generation (GWh)	2027	14	14	12				
Generation (GWh)	2029	8	12	12	10			
Generation (GWh)	FG			15		14	13	12
Surplus (%)	2027	1 %	7 %	14 %				
Surplus (%)	2029	0 %	2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027	2 %	3 %	5 %				
Curtailment (%)	2029	0 %	1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	63 %	36 %	35 %	37 %			
Constraint (%)	FG			25 %		15 %	10 %	6 %
Total Dispatch Down (%)	2027	34 %	33 %	41 %				
Total Dispatch Down (%)	2029	63 %	40 %	44 %	50 %			
Total Dispatch Down (%)	FG			29 %		31 %	37 %	42 %

Table 2-12 - Surplus, Curtailment and Constraint for Wind non-priority for Node Castlebar

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	7	
Installed Capacity (MW)	2029 (pro-rata)	7	
Installed Capacity (MW)	FG (pro-rata)		7
Available Energy (GWh)	2027 (GF)	21	
Available Energy (GWh)	2029 (pro-rata)	21	
Available Energy (GWh)	FG (pro-rata)		21
Generation (GWh)	2027 (GF)	10	
Generation (GWh)	2029 (pro-rata)	16	
Generation (GWh)	FG (pro-rata)		15
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	41 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	51 %	
Total Dispatch Down (%)	2029 (pro-rata)	24 %	
Total Dispatch Down (%)	FG (pro-rata)		25 %

Table 2-13 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Castlebar

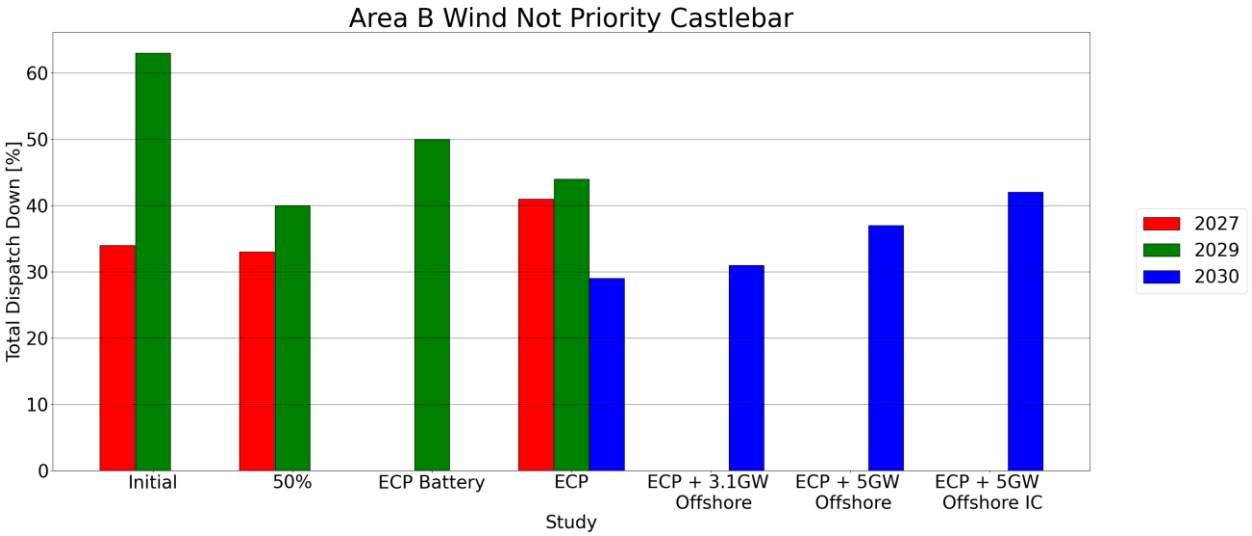

Figure 2-8 - Total Dispatch Down for Wind not priority for Node Castlebar

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	8	8	8				
Installed Capacity (MW)	2029	8	8	8	8			
Installed Capacity (MW)	FG			8		8	8	8
Available Energy (GWh)	2027	26	26	26				
Available Energy (GWh)	2029	26	26	26	26			
Available Energy (GWh)	FG			26		26	26	26
Generation (GWh)	2027	17	19	18				
Generation (GWh)	2029	26	25	25	25			
Generation (GWh)	FG			26		25	25	25
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

Table 2-14 - Surplus, Curtailment and Constraint for Wind priority for Node Castlebar

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	8	
Installed Capacity (MW)	2029 (pro-rata)	8	
Installed Capacity (MW)	FG (pro-rata)		8
Available Energy (GWh)	2027 (GF)	26	
Available Energy (GWh)	2029 (pro-rata)	26	
Available Energy (GWh)	FG (pro-rata)		26
Generation (GWh)	2027 (GF)	25	
Generation (GWh)	2029 (pro-rata)	20	
Generation (GWh)	FG (pro-rata)		23
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-23 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Castlebar

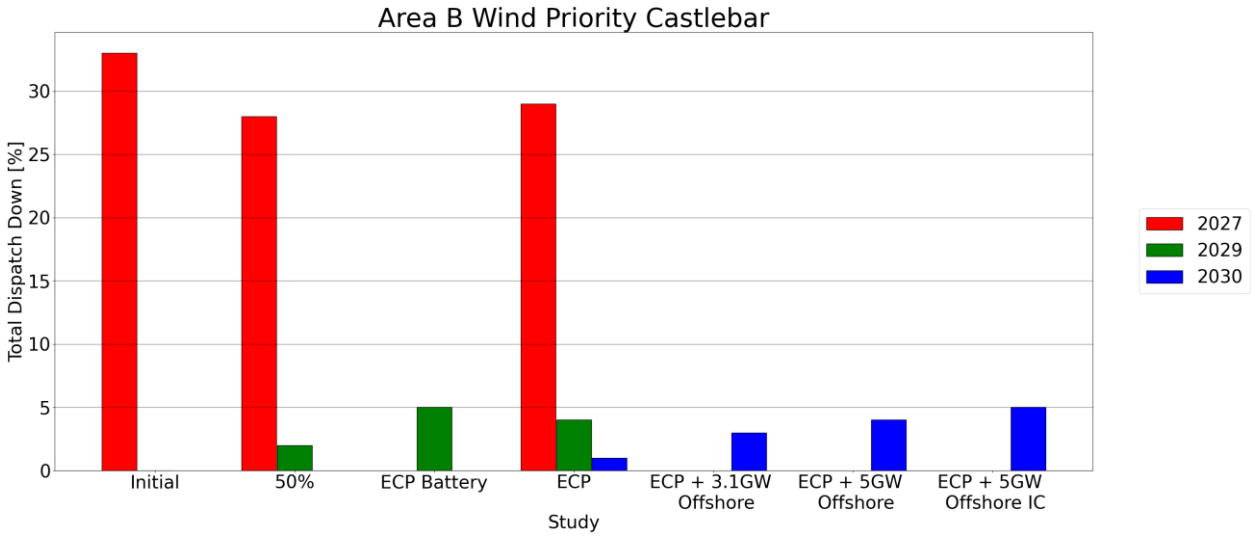

Figure 2-15 - Total Dispatch Down for Wind priority for Node Castlebar

2.4 Cloon

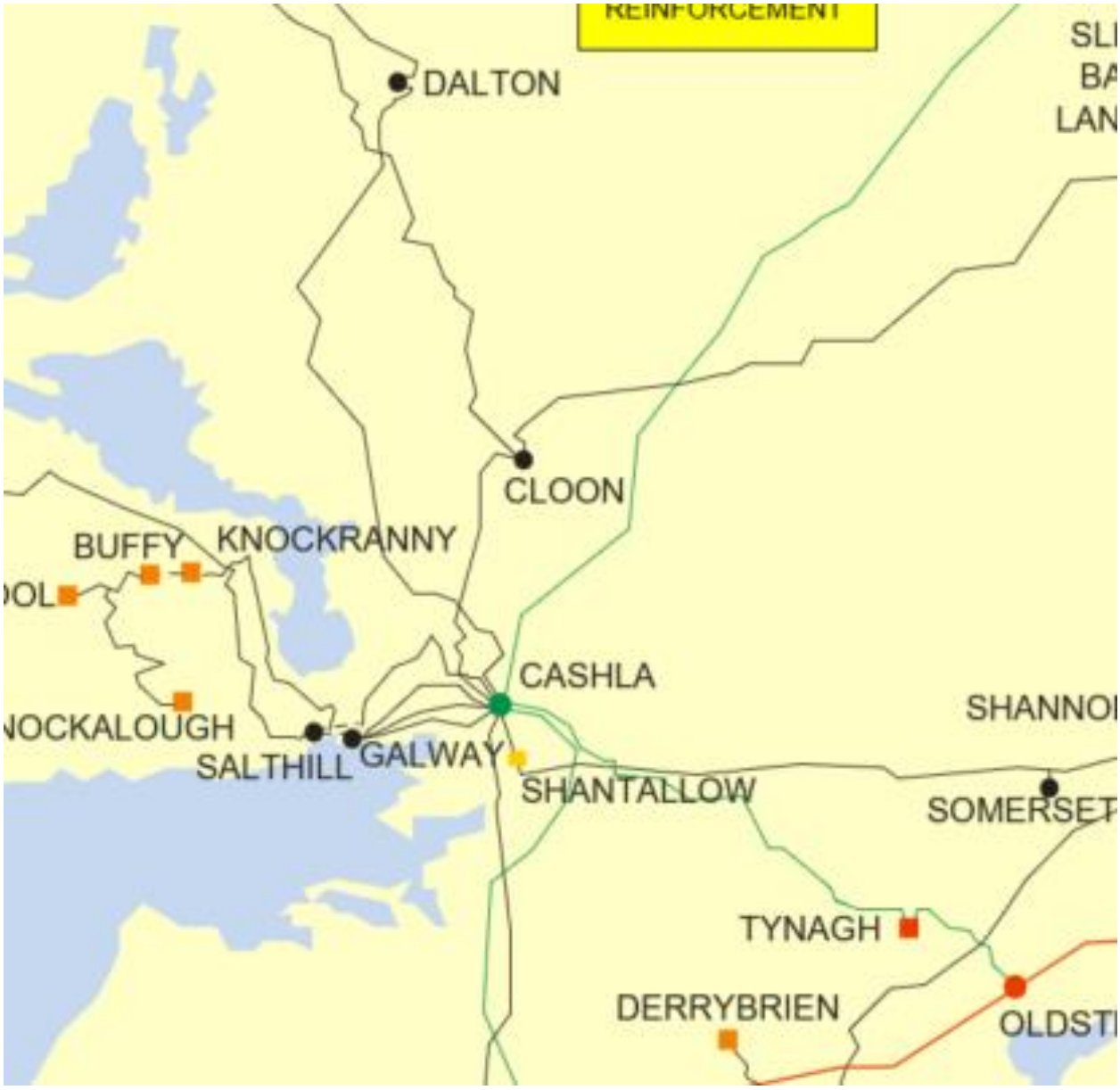

Figure 2-10 - Location of node Cloon

Generator	SO	Capacity	Type	Status
Cloonlusk (1)	DSO	4.25	wind uncontrolled	connected
Barnderg Solar Farm	DSO	4.0	solar not priority	due to connect
Cloonascragh Solar	DSO	20.0	solar not priority	due to connect
Barnacurragh Solar Park	TSO	50.0	solar not priority	due to connect
Milltown Community Solar Farm	DSO	4.99	solar not priority	due to connect
Ballynakilla Wind Farm	DSO	4.99	wind not priority	due to connect
Cloonbar WF	DSO	4.99	wind not priority	due to connect

Table 2-16 - Generation Included in Study for Node Cloon

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	4	41	79				
Installed Capacity (MW)	2029	4	41	79	79			
Installed Capacity (MW)	FG			79		79	79	79
Available Energy (GWh)	2027	5	53	101				
Available Energy (GWh)	2029	5	53	101	101			
Available Energy (GWh)	FG			101		101	101	101
Generation (GWh)	2027	5	48	80				
Generation (GWh)	2029	5	50	87	78			
Generation (GWh)	FG			93		88	84	77
Surplus (%)	2027	1 %	6 %	14 %				
Surplus (%)	2029	0 %	3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027	1 %	2 %	4 %				
Curtailment (%)	2029	0 %	1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	1 %	2 %	2 %				
Constraint (%)	2029	1 %	2 %	2 %	3 %			
Constraint (%)	FG			1 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	3 %	10 %	20 %				
Total Dispatch Down (%)	2029	1 %	6 %	14 %	23 %			
Total Dispatch Down (%)	FG			8 %		13 %	17 %	24 %

Table 2-17 - Surplus, Curtailment and Constraint for Solar non-priority for Node Cloon

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	41	
Installed Capacity (MW)	2029 (pro-rata)	41	
Installed Capacity (MW)	FG (pro-rata)		79
Available Energy (GWh)	2027 (GF)	53	
Available Energy (GWh)	2029 (pro-rata)	53	
Available Energy (GWh)	FG (pro-rata)		101
Generation (GWh)	2027 (GF)	48	
Generation (GWh)	2029 (pro-rata)	50	
Generation (GWh)	FG (pro-rata)		88
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	2 %	
Constraint (%)	2029 (pro-rata)	2 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	10 %	
Total Dispatch Down (%)	2029 (pro-rata)	6 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-18 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Cloon

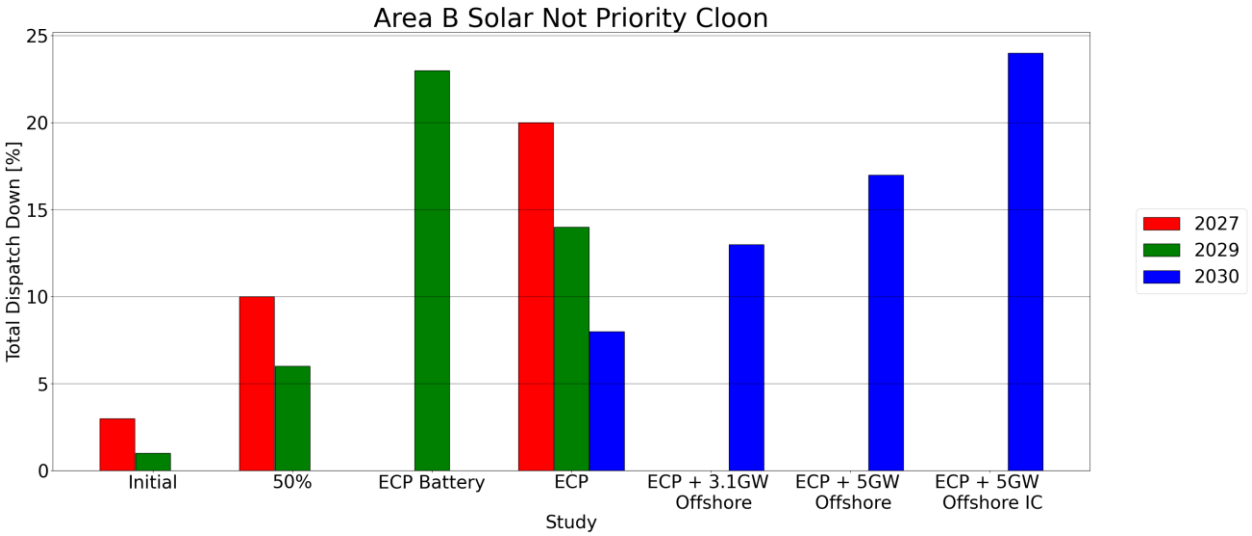

Figure 2-11 - Total Dispatch Down for Solar not priority for Node Cloon

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		5	10				
Installed Capacity (MW)	2029		5	10	10			
Installed Capacity (MW)	FG			10		10	10	10
Available Energy (GWh)	2027		15	30				
Available Energy (GWh)	2029		15	30	30			
Available Energy (GWh)	FG			30		30	30	30
Generation (GWh)	2027		12	23				
Generation (GWh)	2029		12	25	22			
Generation (GWh)	FG			25		25	21	19
Surplus (%)	2027		7 %	14 %				
Surplus (%)	2029		2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027		3 %	5 %				
Curtailment (%)	2029		1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		9 %	6 %				
Constraint (%)	2029		16 %	9 %	13 %			
Constraint (%)	FG			12 %		2 %	3 %	2 %
Total Dispatch Down (%)	2027		19 %	25 %				
Total Dispatch Down (%)	2029		19 %	18 %	26 %			
Total Dispatch Down (%)	FG			16 %		18 %	30 %	38 %

Table 2-19 - Surplus, Curtailment and Constraint for Wind non-priority for Node Cloon

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	5	
Installed Capacity (MW)	2029 (pro-rata)	5	
Installed Capacity (MW)	FG (pro-rata)		10
Available Energy (GWh)	2027 (GF)	15	
Available Energy (GWh)	2029 (pro-rata)	15	
Available Energy (GWh)	FG (pro-rata)		30
Generation (GWh)	2027 (GF)	12	
Generation (GWh)	2029 (pro-rata)	13	
Generation (GWh)	FG (pro-rata)		25
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	12 %	
Constraint (%)	2029 (pro-rata)	12 %	
Constraint (%)	FG (pro-rata)		2 %
Total Dispatch Down (%)	2027 (GF)	22 %	
Total Dispatch Down (%)	2029 (pro-rata)	16 %	
Total Dispatch Down (%)	FG (pro-rata)		18 %

Table 2-20 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Cloon

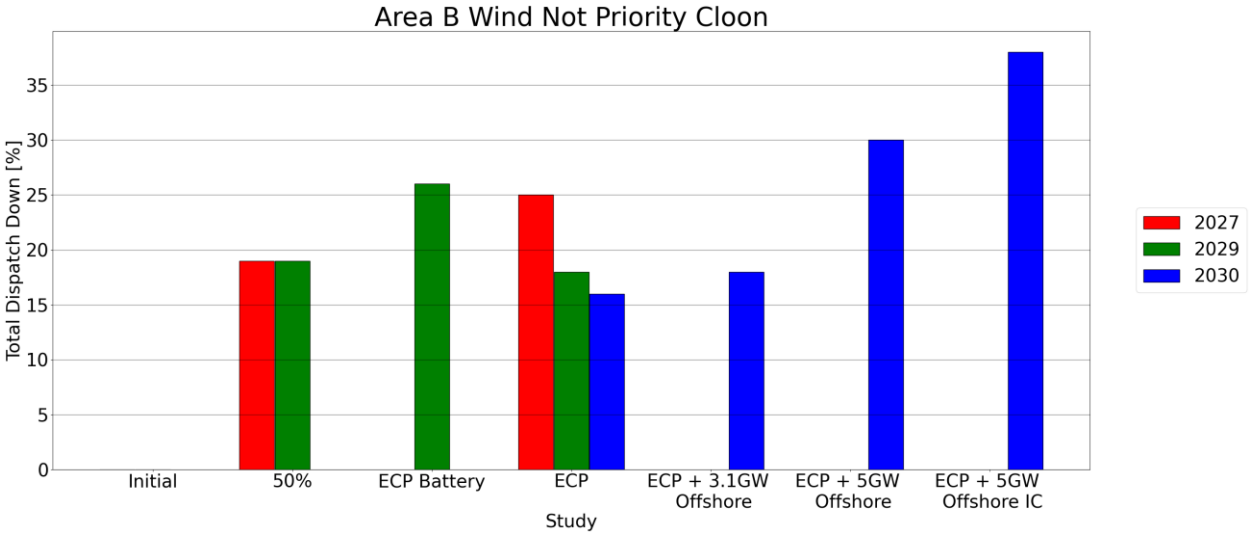

Figure 2-12 - Total Dispatch Down for Wind not priority for Node Cloon

2.5 Cunghill

Figure 2-13 - 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 2-21 - Generation Included in Study for Node Cunghill

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	35	35	35				
Installed Capacity (MW)	2029	35	35	35	35			
Installed Capacity (MW)	FG			35		35	35	35
Available Energy (GWh)	2027	106	106	106				
Available Energy (GWh)	2029	106	106	106	106			
Available Energy (GWh)	FG			106		106	106	106
Generation (GWh)	2027	70	76	75				
Generation (GWh)	2029	105	104	102	101			
Generation (GWh)	FG			105		103	102	101
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

Table 2-22 - Surplus, Curtailment and Constraint for Wind priority for Node Cunghill

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	35	
Installed Capacity (MW)	2029 (pro-rata)	35	
Installed Capacity (MW)	FG (pro-rata)		35
Available Energy (GWh)	2027 (GF)	106	
Available Energy (GWh)	2029 (pro-rata)	106	
Available Energy (GWh)	FG (pro-rata)		106
Generation (GWh)	2027 (GF)	101	
Generation (GWh)	2029 (pro-rata)	82	
Generation (GWh)	FG (pro-rata)		93
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-23 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Cunghill

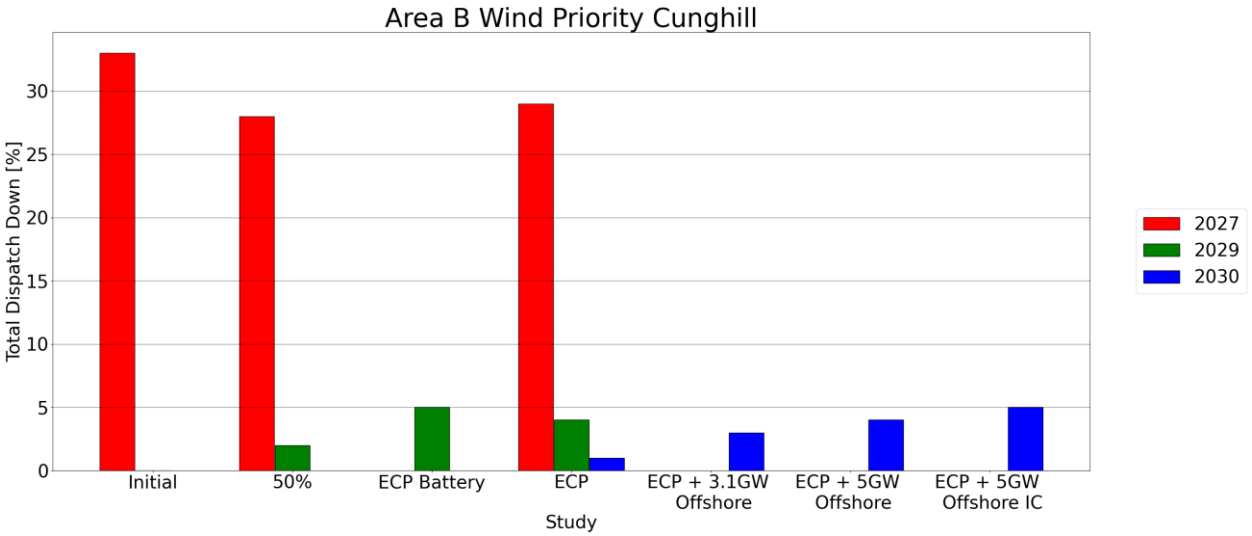

Figure 2-14 - Total Dispatch Down for Wind priority for Node Cunghill

2.6 Dalton

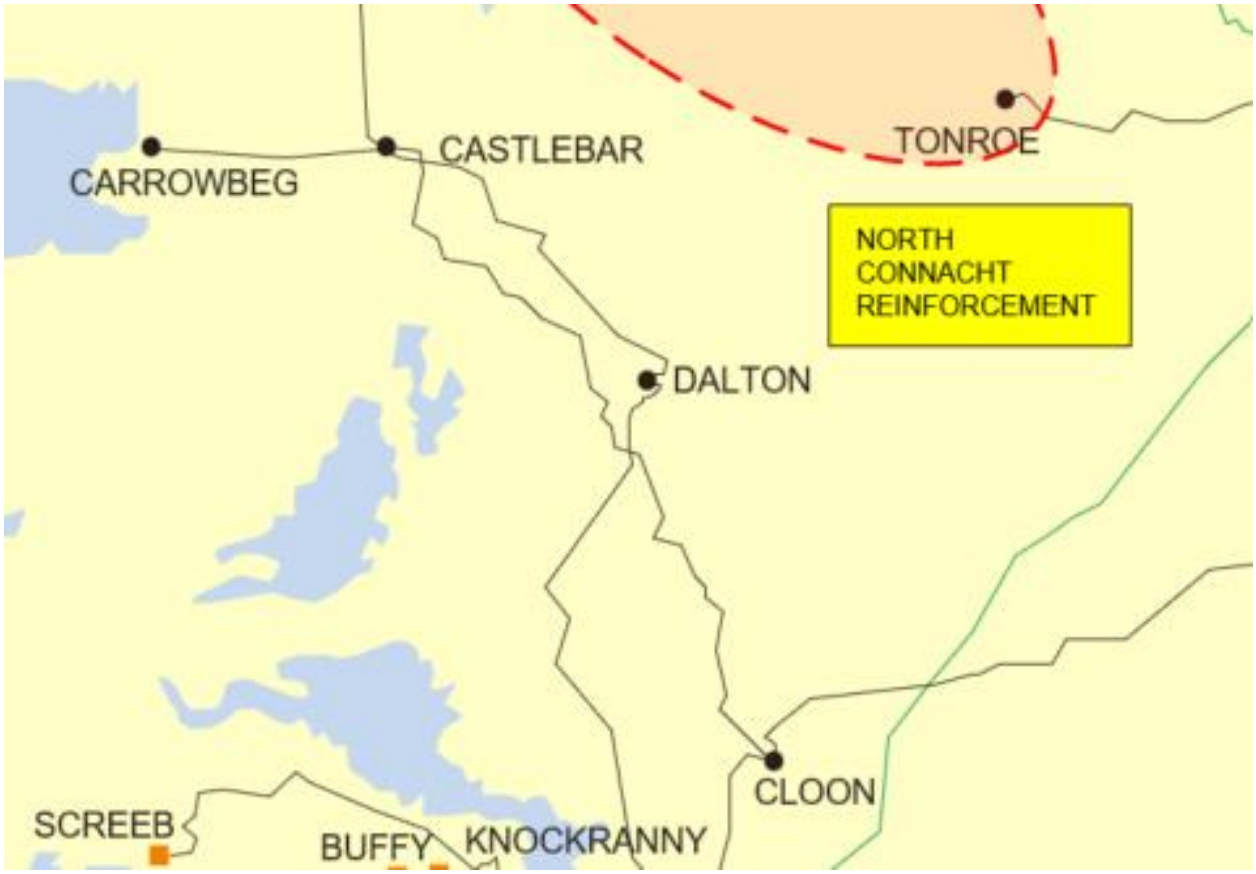

Figure 2-15 - Location of node Dalton

Generator	SO	Capacity	Type	Status
Mace Upper (1)	DSO	2.55	wind uncontrolled	connected
Magheramore and Cloontooa (1)	DSO	40.8	wind priority	connected
Lisduff Solar Park (Claremorris)	DSO	4.0	solar not priority	due to connect
Claremorris 2 Solar Farm	DSO	4.0	solar not priority	due to connect

Table 2-24 - Generation Included in Study for Node Dalton

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	4	6	8				
Installed Capacity (MW)	2029	4	6	8	8			
Installed Capacity (MW)	FG			8		8	8	8
Available Energy (GWh)	2027	5	8	10				
Available Energy (GWh)	2029	5	8	10	10			
Available Energy (GWh)	FG			10		10	10	10
Generation (GWh)	2027	5	6	8				
Generation (GWh)	2029	5	7	8	7			
Generation (GWh)	FG			9		9	8	8
Surplus (%)	2027	1 %	6 %	14 %				
Surplus (%)	2029	0 %	3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027	1 %	2 %	4 %				
Curtailment (%)	2029	0 %	1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	4 %	9 %	7 %				
Constraint (%)	2029	2 %	10 %	9 %	9 %			
Constraint (%)	FG			5 %		3 %	2 %	1 %
Total Dispatch Down (%)	2027	5 %	17 %	25 %				
Total Dispatch Down (%)	2029	3 %	15 %	21 %	29 %			
Total Dispatch Down (%)	FG			11 %		16 %	19 %	25 %

Table 2-25 - Surplus, Curtailment and Constraint for Solar non-priority for Node Dalton

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	6	
Installed Capacity (MW)	2029 (pro-rata)	6	
Installed Capacity (MW)	FG (pro-rata)		8
Available Energy (GWh)	2027 (GF)	8	
Available Energy (GWh)	2029 (pro-rata)	8	
Available Energy (GWh)	FG (pro-rata)		10
Generation (GWh)	2027 (GF)	6	
Generation (GWh)	2029 (pro-rata)	7	
Generation (GWh)	FG (pro-rata)		9
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	9 %	
Constraint (%)	2029 (pro-rata)	10 %	
Constraint (%)	FG (pro-rata)		3 %
Total Dispatch Down (%)	2027 (GF)	17 %	
Total Dispatch Down (%)	2029 (pro-rata)	15 %	
Total Dispatch Down (%)	FG (pro-rata)		16 %

Table 2-26 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Dalton

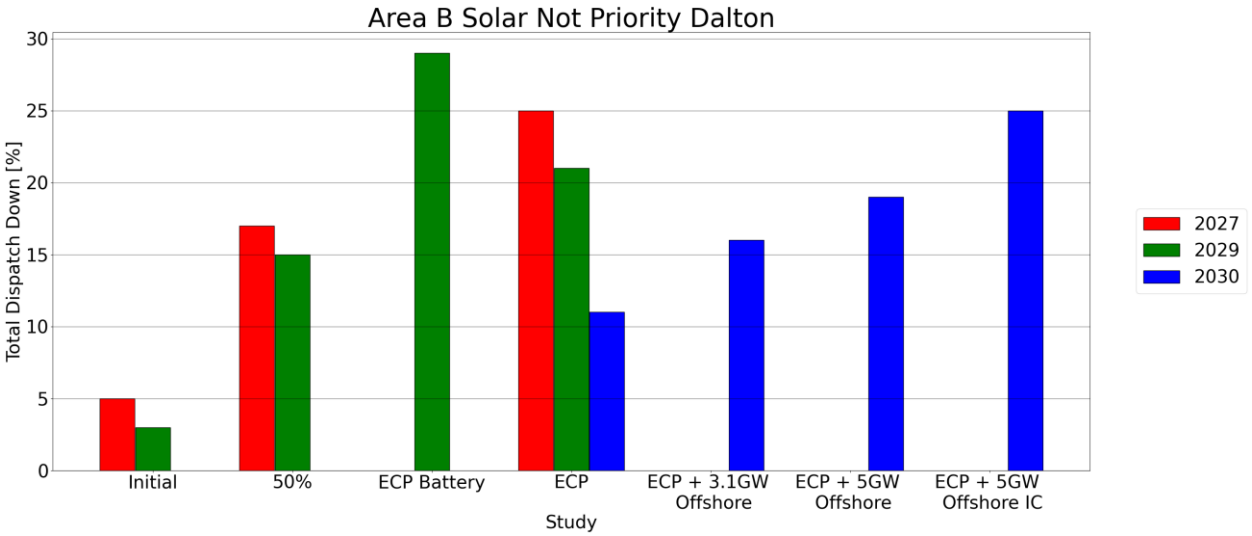

Figure 2-16 - Total Dispatch Down for Solar not priority for Node Dalton

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	41	41	41				
Installed Capacity (MW)	2029	41	41	41	41			
Installed Capacity (MW)	FG			41		41	41	41
Available Energy (GWh)	2027	124	124	124				
Available Energy (GWh)	2029	124	124	124	124			
Available Energy (GWh)	FG			124		124	124	124
Generation (GWh)	2027	83	90	88				
Generation (GWh)	2029	124	122	120	118			
Generation (GWh)	FG			123		120	119	118
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

Table 2-27 - Surplus, Curtailment and Constraint for Wind priority for Node Dalton

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	41	
Installed Capacity (MW)	2029 (pro-rata)	41	
Installed Capacity (MW)	FG (pro-rata)		41
Available Energy (GWh)	2027 (GF)	124	
Available Energy (GWh)	2029 (pro-rata)	124	
Available Energy (GWh)	FG (pro-rata)		124
Generation (GWh)	2027 (GF)	119	
Generation (GWh)	2029 (pro-rata)	96	
Generation (GWh)	FG (pro-rata)		109
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-28 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Dalton

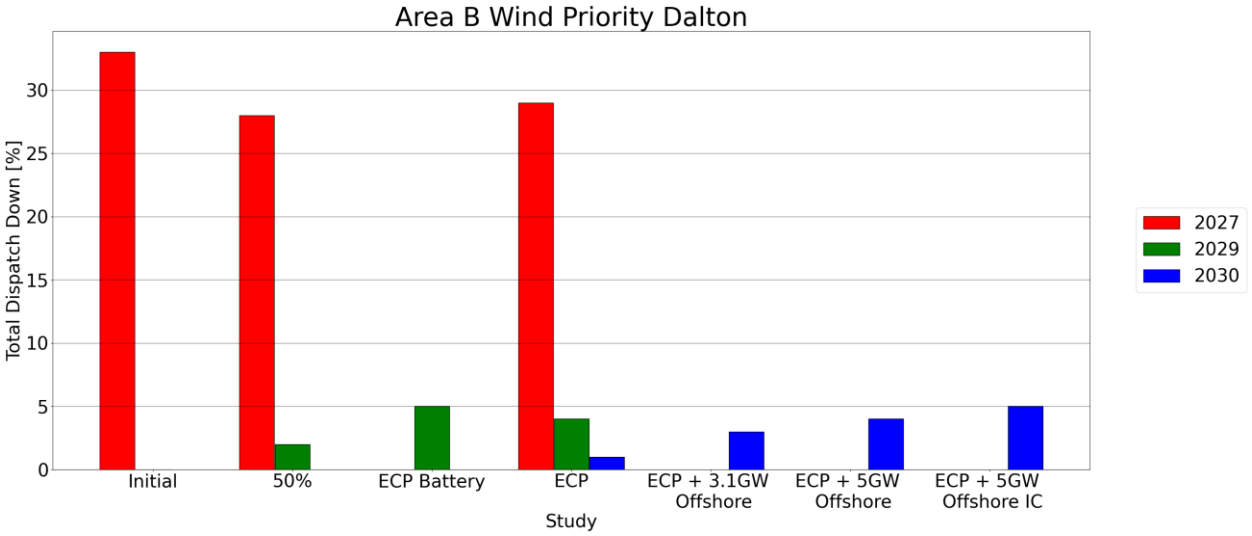

Figure 2-17 - Total Dispatch Down for Wind priority for Node Dalton

2.7 Firlough

Figure 2-18 - Location of node Firlough

Generator	SO	Capacity	Type	Status
Firlough TG371 was Carrowleagh-Kilbride DG741	TSO	48.3	wind not priority	due to connect
Firlough Wind Farm	TSO	27.3	wind not priority	due to connect

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

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		38	76				
Installed Capacity (MW)	2029		38	76	76			
Installed Capacity (MW)	FG			76		76	76	76
Available Energy (GWh)	2027		115	230				
Available Energy (GWh)	2029		115	230	230			
Available Energy (GWh)	FG			230		230	230	230
Generation (GWh)	2027		77	135				
Generation (GWh)	2029		69	128	114			
Generation (GWh)	FG			163		159	146	133
Surplus (%)	2027		7 %	14 %				
Surplus (%)	2029		2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027		3 %	5 %				
Curtailment (%)	2029		1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		23 %	22 %				
Constraint (%)	2029		36 %	35 %	37 %			
Constraint (%)	FG			25 %		15 %	10 %	6 %
Total Dispatch Down (%)	2027		33 %	41 %				
Total Dispatch Down (%)	2029		40 %	44 %	50 %			
Total Dispatch Down (%)	FG			29 %		31 %	37 %	42 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	38	
Installed Capacity (MW)	2029 (pro-rata)	38	
Installed Capacity (MW)	FG (pro-rata)		76
Available Energy (GWh)	2027 (GF)	115	
Available Energy (GWh)	2029 (pro-rata)	115	
Available Energy (GWh)	FG (pro-rata)		230
Generation (GWh)	2027 (GF)	56	
Generation (GWh)	2029 (pro-rata)	87	
Generation (GWh)	FG (pro-rata)		172
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	41 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	51 %	
Total Dispatch Down (%)	2029 (pro-rata)	24 %	
Total Dispatch Down (%)	FG (pro-rata)		25 %

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

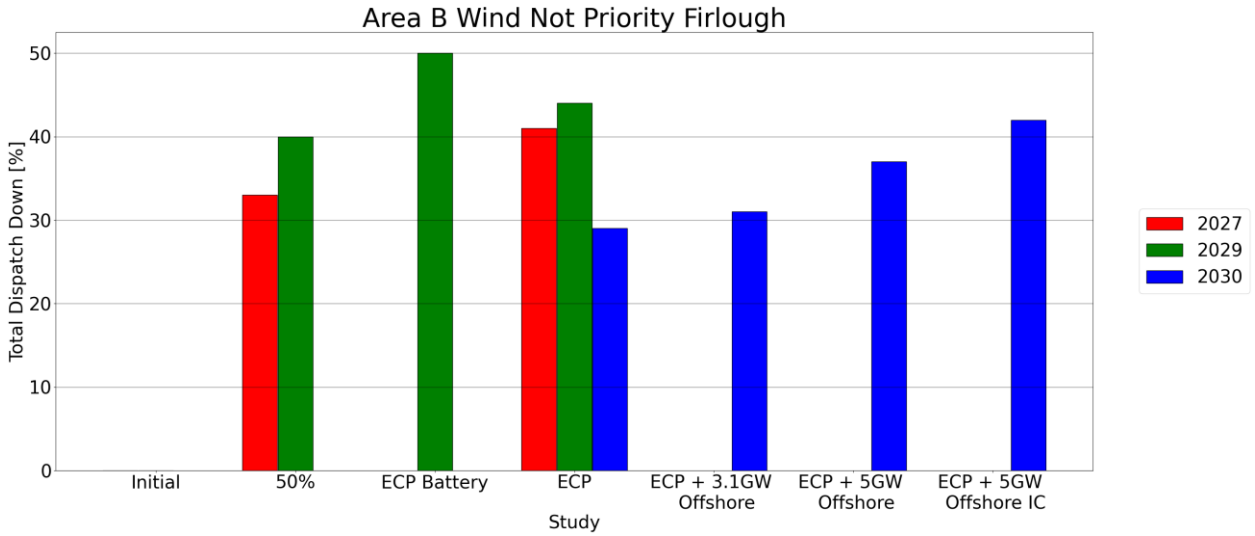

Figure 2-19 - Total Dispatch Down for Wind not priority for Node Firlough

2.8 Glenree

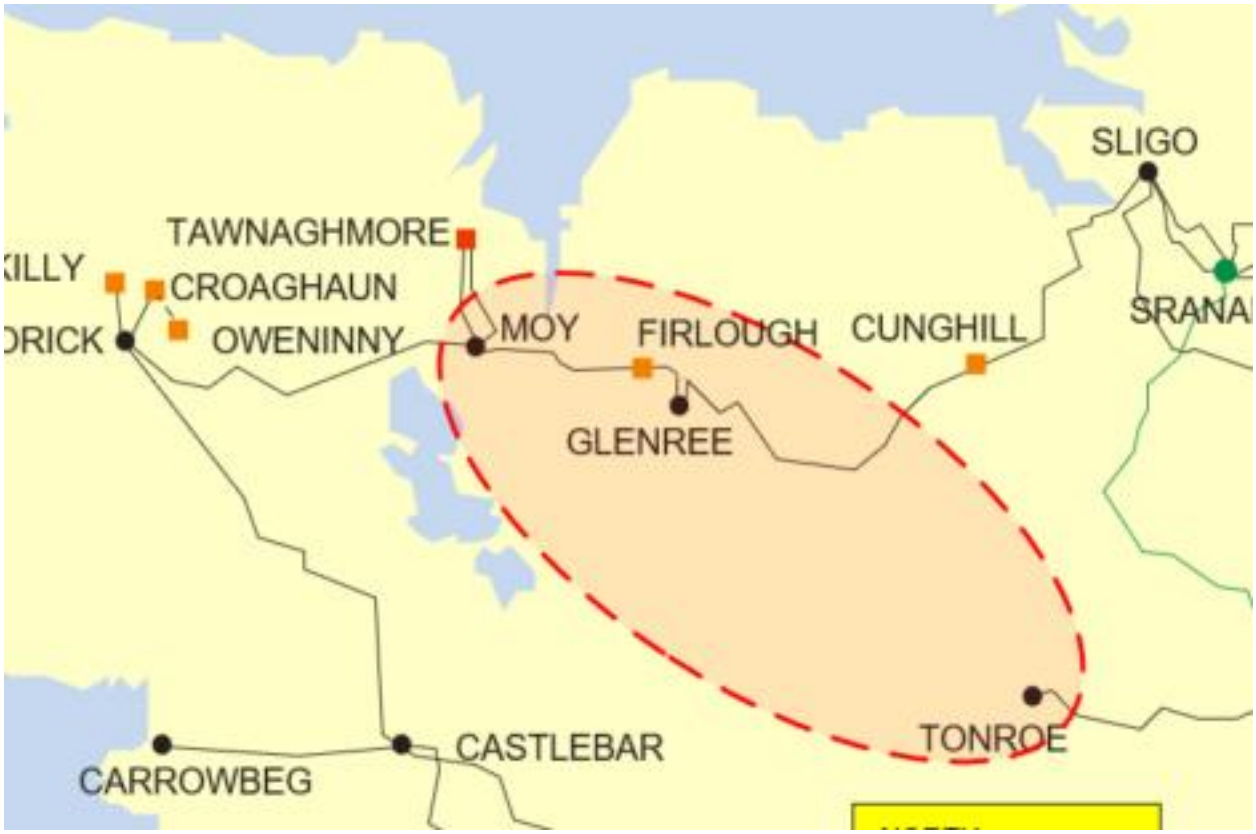

Figure 2-20 - Location of node Glenree

Generator	SO	Capacity	Type	Status
Bunnyconnellan (1)	DSO	28.0	wind not priority	connected
Carrowleagh (1)	DSO	34.15	wind priority	connected
Carrowleagh (2)	DSO	2.65	wind priority	connected
Black Lough (1)	DSO	12.5	wind not priority	connected
Chafhill Wind Farm (prev. Glenree)	DSO	4.65	wind not priority	due to connect

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

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	40	43	45				
Installed Capacity (MW)	2029	40	43	45	45			
Installed Capacity (MW)	FG			45		45	45	45
Available Energy (GWh)	2027	123	130	137				
Available Energy (GWh)	2029	123	130	137	137			
Available Energy (GWh)	FG			137		137	137	137
Generation (GWh)	2027	81	87	80				
Generation (GWh)	2029	46	78	76	68			
Generation (GWh)	FG			97		95	87	80
Surplus (%)	2027	1 %	7 %	14 %				
Surplus (%)	2029	0 %	2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027	2 %	3 %	5 %				
Curtailment (%)	2029	0 %	1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	63 %	36 %	35 %	37 %			
Constraint (%)	FG			25 %		15 %	10 %	6 %
Total Dispatch Down (%)	2027	34 %	33 %	41 %				
Total Dispatch Down (%)	2029	63 %	40 %	44 %	50 %			
Total Dispatch Down (%)	FG			29 %		31 %	37 %	42 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	43	
Installed Capacity (MW)	2029 (pro-rata)	43	
Installed Capacity (MW)	FG (pro-rata)		45
Available Energy (GWh)	2027 (GF)	130	
Available Energy (GWh)	2029 (pro-rata)	130	
Available Energy (GWh)	FG (pro-rata)		137
Generation (GWh)	2027 (GF)	64	
Generation (GWh)	2029 (pro-rata)	99	
Generation (GWh)	FG (pro-rata)		102
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	41 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	51 %	
Total Dispatch Down (%)	2029 (pro-rata)	24 %	
Total Dispatch Down (%)	FG (pro-rata)		25 %

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

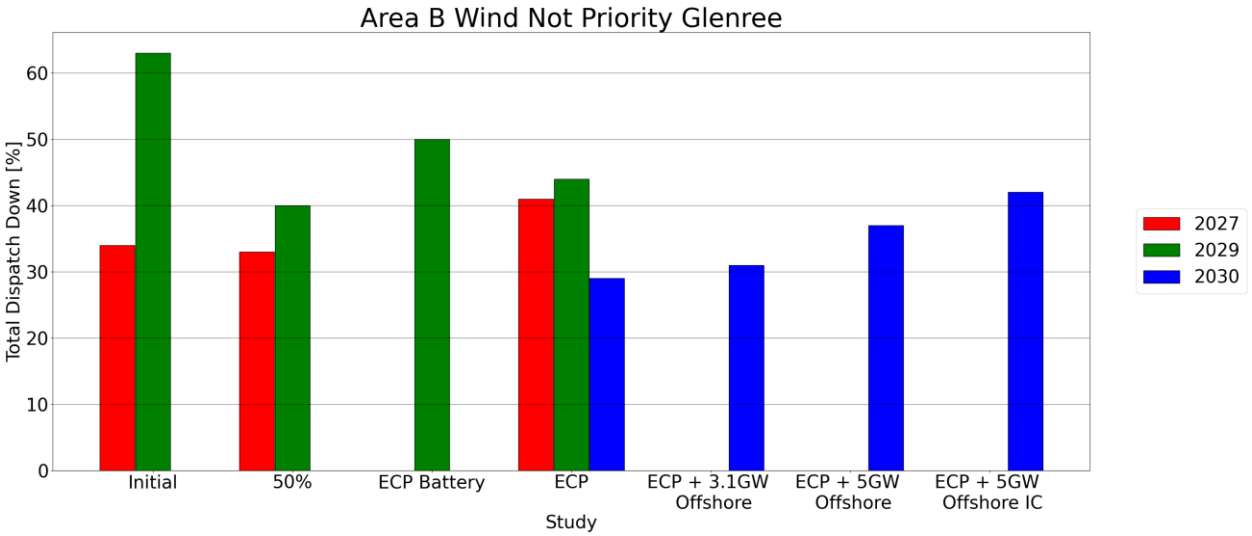

Figure 2-21 - Total Dispatch Down for Wind not priority for Node Glenree

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	37	37	37				
Installed Capacity (MW)	2029	37	37	37	37			
Installed Capacity (MW)	FG			37		37	37	37
Available Energy (GWh)	2027	112	112	112				
Available Energy (GWh)	2029	112	112	112	112			
Available Energy (GWh)	FG			112		112	112	112
Generation (GWh)	2027	75	81	79				
Generation (GWh)	2029	112	110	108	107			
Generation (GWh)	FG			111		109	108	107
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

Table 2-35 - Surplus, Curtailment and Constraint for Wind priority for Node Glenree

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	37	
Installed Capacity (MW)	2029 (pro-rata)	37	
Installed Capacity (MW)	FG (pro-rata)		37
Available Energy (GWh)	2027 (GF)	112	
Available Energy (GWh)	2029 (pro-rata)	112	
Available Energy (GWh)	FG (pro-rata)		112
Generation (GWh)	2027 (GF)	107	
Generation (GWh)	2029 (pro-rata)	87	
Generation (GWh)	FG (pro-rata)		98
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-36 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Glenree

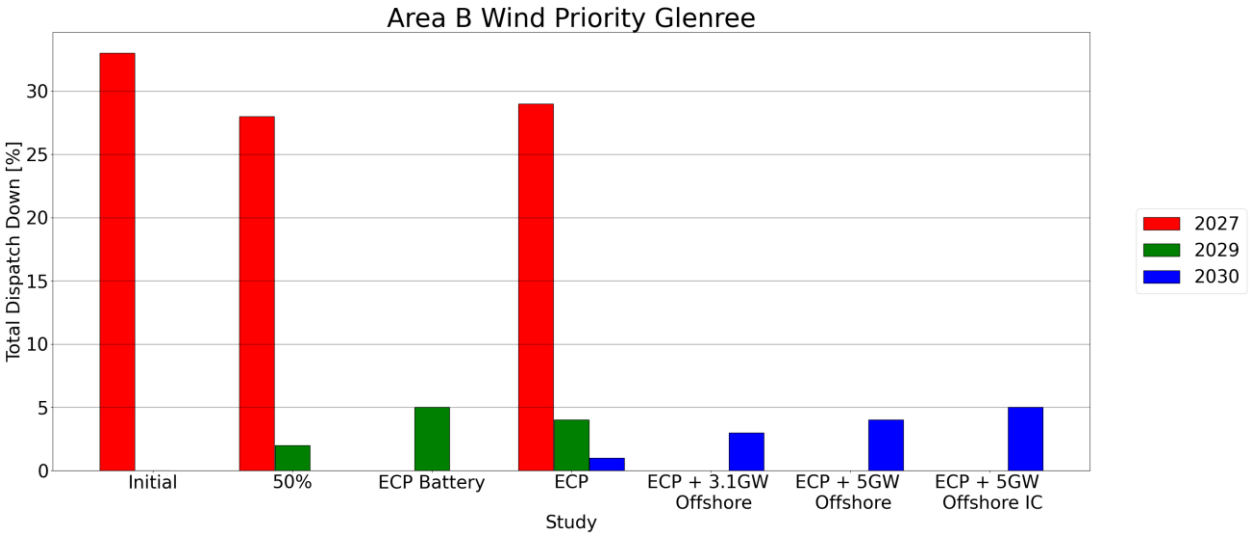

Figure 2-22 - Total Dispatch Down for Wind priority for Node Glenree

2.9 Knockranny

Figure 2-23 - Location of node Knockranny

Generator	SO	Capacity	Type	Status
Knockalough (1)	TSO	33.6	wind priority	connected
Ardderoo 2 (Formerly Buffy)	TSO	64.2	wind not priority	connected
Ardderoo Wind Farm	TSO	27.0	wind not priority	connected
Ardderoo wind extension	TSO	18.0	wind not priority	due to connect
Knockranny wind	TSO	47.3	wind not priority	due to connect

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

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	91	124	156				
Installed Capacity (MW)	2029	91	124	156	156			
Installed Capacity (MW)	FG			156		156	156	156
Available Energy (GWh)	2027	403	548	692				
Available Energy (GWh)	2029	403	548	692	692			
Available Energy (GWh)	FG			692		692	692	692
Generation (GWh)	2027	388	505	581				
Generation (GWh)	2029	389	519	594	580			
Generation (GWh)	FG			661		605	541	483
Surplus (%)	2027	1 %	5 %	11 %				
Surplus (%)	2029	0 %	2 %	5 %	7 %			
Surplus (%)	FG			2 %		10 %	20 %	28 %
Curtailment (%)	2027	1 %	2 %	4 %				
Curtailment (%)	2029	0 %	1 %	2 %	3 %			
Curtailment (%)	FG			0 %		2 %	2 %	2 %
Constraint (%)	2027	2 %	1 %	2 %				
Constraint (%)	2029	3 %	3 %	8 %	6 %			
Constraint (%)	FG			2 %		1 %	0 %	0 %
Total Dispatch Down (%)	2027	4 %	8 %	16 %				
Total Dispatch Down (%)	2029	4 %	5 %	14 %	16 %			
Total Dispatch Down (%)	FG			5 %		13 %	22 %	30 %

Table 2-38 - Surplus, Curtailment and Constraint for Wind non-priority for Node Knockranny

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	124	
Installed Capacity (MW)	2029 (pro-rata)	124	
Installed Capacity (MW)	FG (pro-rata)		156
Available Energy (GWh)	2027 (GF)	548	
Available Energy (GWh)	2029 (pro-rata)	548	
Available Energy (GWh)	FG (pro-rata)		692
Generation (GWh)	2027 (GF)	499	
Generation (GWh)	2029 (pro-rata)	528	
Generation (GWh)	FG (pro-rata)		607
Surplus (%)	2027 (GF)	5 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		10 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	2 %	
Constraint (%)	2029 (pro-rata)	1 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	9 %	
Total Dispatch Down (%)	2029 (pro-rata)	4 %	
Total Dispatch Down (%)	FG (pro-rata)		12 %

Table 2-39 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Knockranny

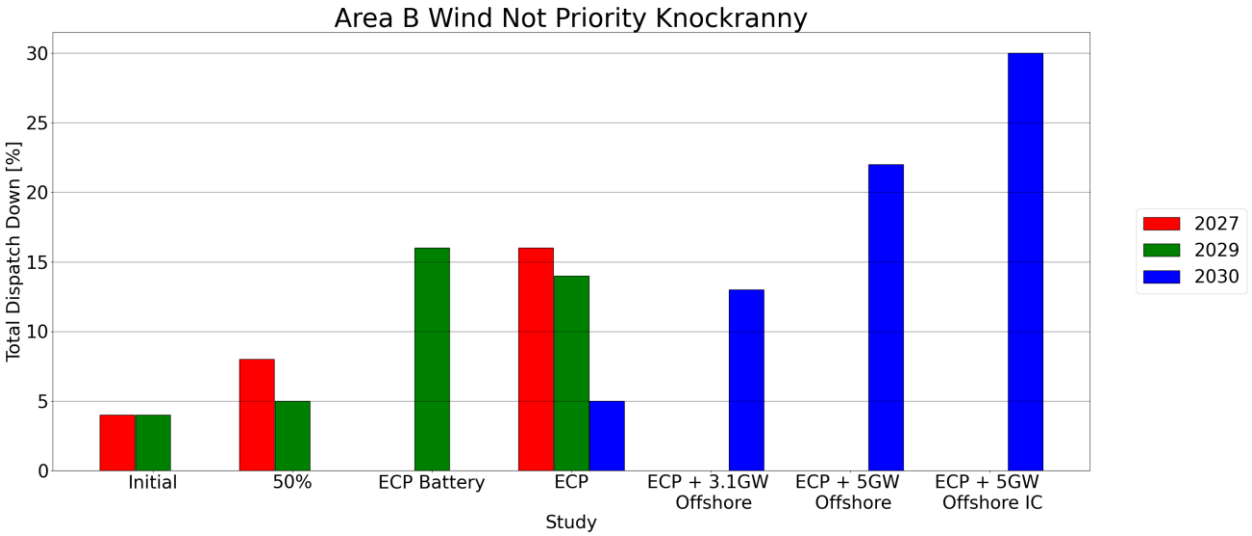

Figure 2-24 - Total Dispatch Down for Wind not priority for Node Knockranny

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	34	34	34				
Installed Capacity (MW)	2029	34	34	34	34			
Installed Capacity (MW)	FG			34		34	34	34
Available Energy (GWh)	2027	149	149	149				
Available Energy (GWh)	2029	149	149	149	149			
Available Energy (GWh)	FG			149		149	149	149
Generation (GWh)	2027	144	143	138				
Generation (GWh)	2029	148	147	145	143			
Generation (GWh)	FG			148		145	144	142
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	1 %	3 %	5 %				
Curtailment (%)	2029	0 %	1 %	3 %	4 %			
Curtailment (%)	FG			1 %		2 %	3 %	4 %
Constraint (%)	2027	2 %	1 %	2 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	3 %	4 %	7 %				
Total Dispatch Down (%)	2029	0 %	1 %	3 %	4 %			
Total Dispatch Down (%)	FG			1 %		2 %	3 %	4 %

Table 2-40 - Surplus, Curtailment and Constraint for Wind priority for Node Knockranny

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	34	
Installed Capacity (MW)	2029 (pro-rata)	34	
Installed Capacity (MW)	FG (pro-rata)		34
Available Energy (GWh)	2027 (GF)	149	
Available Energy (GWh)	2029 (pro-rata)	149	
Available Energy (GWh)	FG (pro-rata)		149
Generation (GWh)	2027 (GF)	144	
Generation (GWh)	2029 (pro-rata)	145	
Generation (GWh)	FG (pro-rata)		145
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	1 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	3 %	
Total Dispatch Down (%)	2029 (pro-rata)	2 %	
Total Dispatch Down (%)	FG (pro-rata)		3 %

Table 2-41 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Knockranny

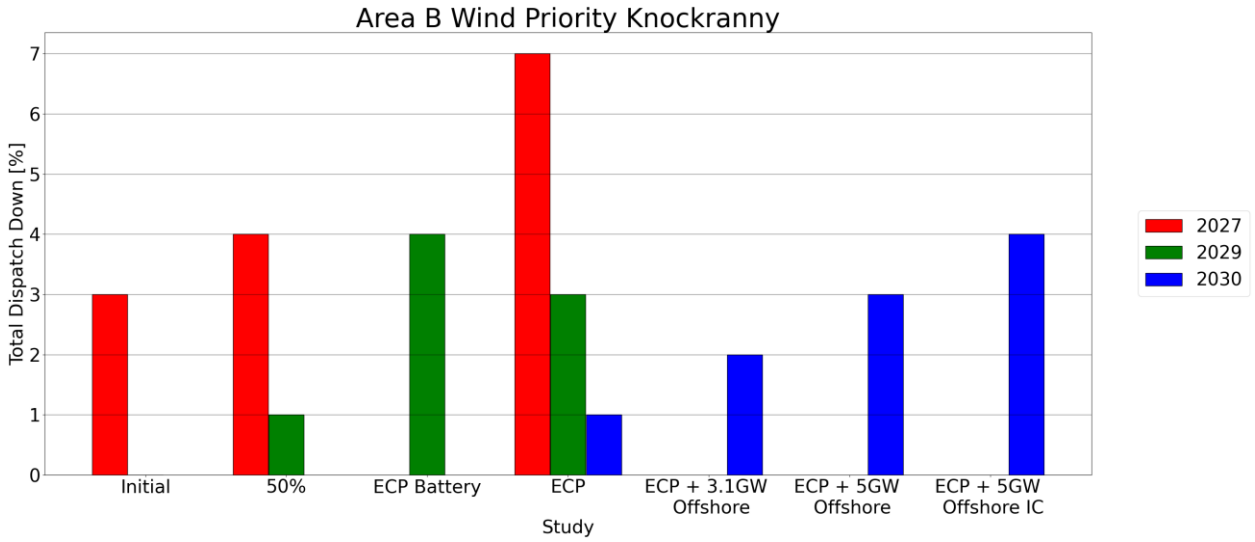

Figure 2-25 - Total Dispatch Down for Wind priority for Node Knockranny

2.10 Moy

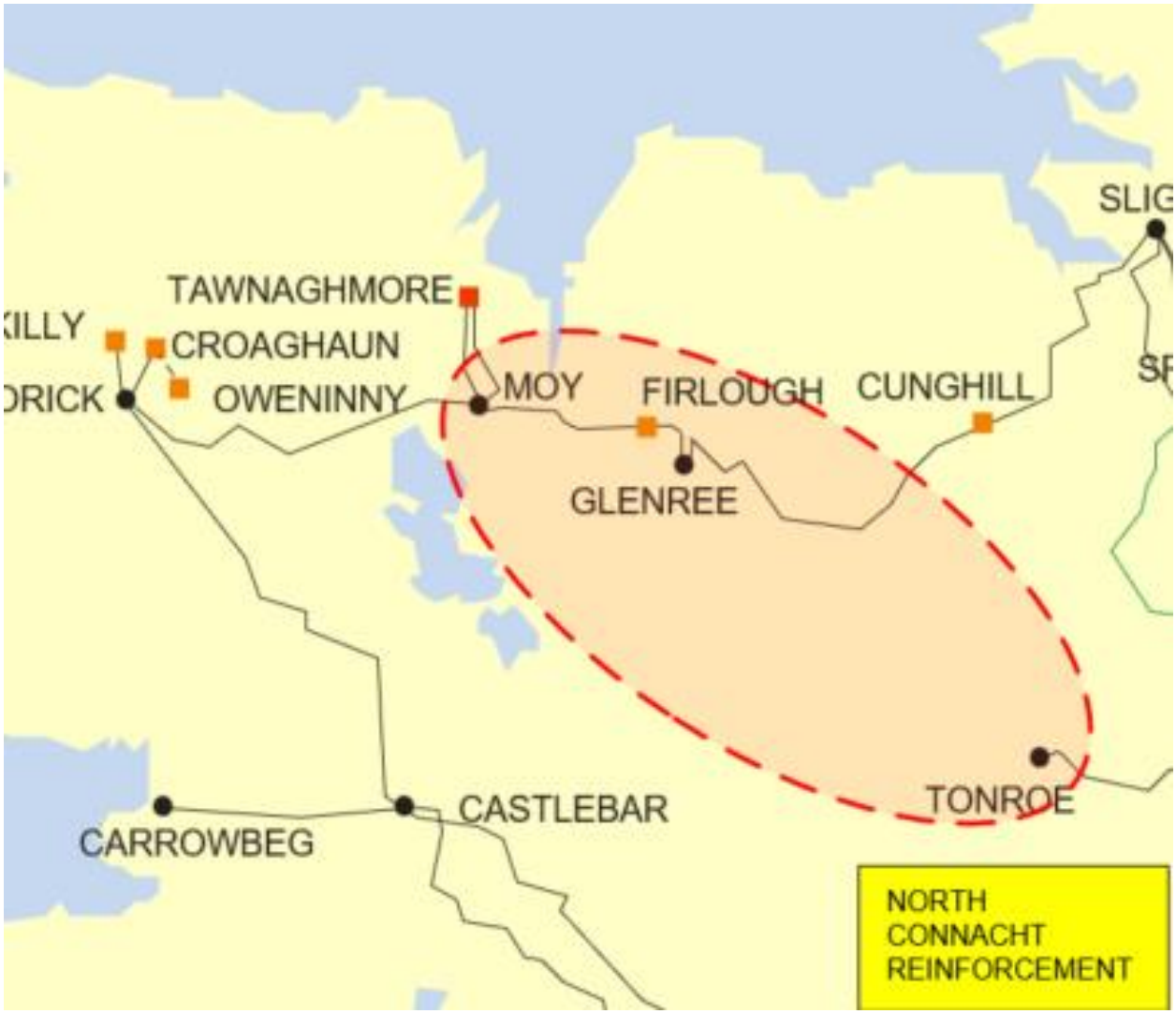

Figure 2-26 - Location of node Moy

Generator	SO	Capacity	Type	Status
Lackan (1)	DSO	6.0	wind priority	connected
Carrowgarve Solar	DSO	4.0	solar not priority	due to connect

Table 2-42 - Generation Included in Study for Node Moy

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		2	4				
Installed Capacity (MW)	2029		2	4	4			
Installed Capacity (MW)	FG			4		4	4	4
Available Energy (GWh)	2027		2	4				
Available Energy (GWh)	2029		2	4	4			
Available Energy (GWh)	FG			4		4	4	4
Generation (GWh)	2027		2	3				
Generation (GWh)	2029		2	3	3			
Generation (GWh)	FG			4		4	3	3
Surplus (%)	2027		6 %	14 %				
Surplus (%)	2029		3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027		2 %	4 %				
Curtailment (%)	2029		1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		9 %	7 %				
Constraint (%)	2029		10 %	9 %	9 %			
Constraint (%)	FG			5 %		3 %	2 %	1 %
Total Dispatch Down (%)	2027		17 %	25 %				
Total Dispatch Down (%)	2029		15 %	21 %	29 %			
Total Dispatch Down (%)	FG			11 %		15 %	19 %	25 %

Table 2-43 - Surplus, Curtailment and Constraint for Solar non-priority for Node Moy

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	2	
Installed Capacity (MW)	2029 (pro-rata)	2	
Installed Capacity (MW)	FG (pro-rata)		4
Available Energy (GWh)	2027 (GF)	2	
Available Energy (GWh)	2029 (pro-rata)	2	
Available Energy (GWh)	FG (pro-rata)		4
Generation (GWh)	2027 (GF)	2	
Generation (GWh)	2029 (pro-rata)	2	
Generation (GWh)	FG (pro-rata)		4
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	9 %	
Constraint (%)	2029 (pro-rata)	10 %	
Constraint (%)	FG (pro-rata)		3 %
Total Dispatch Down (%)	2027 (GF)	17 %	
Total Dispatch Down (%)	2029 (pro-rata)	15 %	
Total Dispatch Down (%)	FG (pro-rata)		15 %

Table 2-44 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Moy

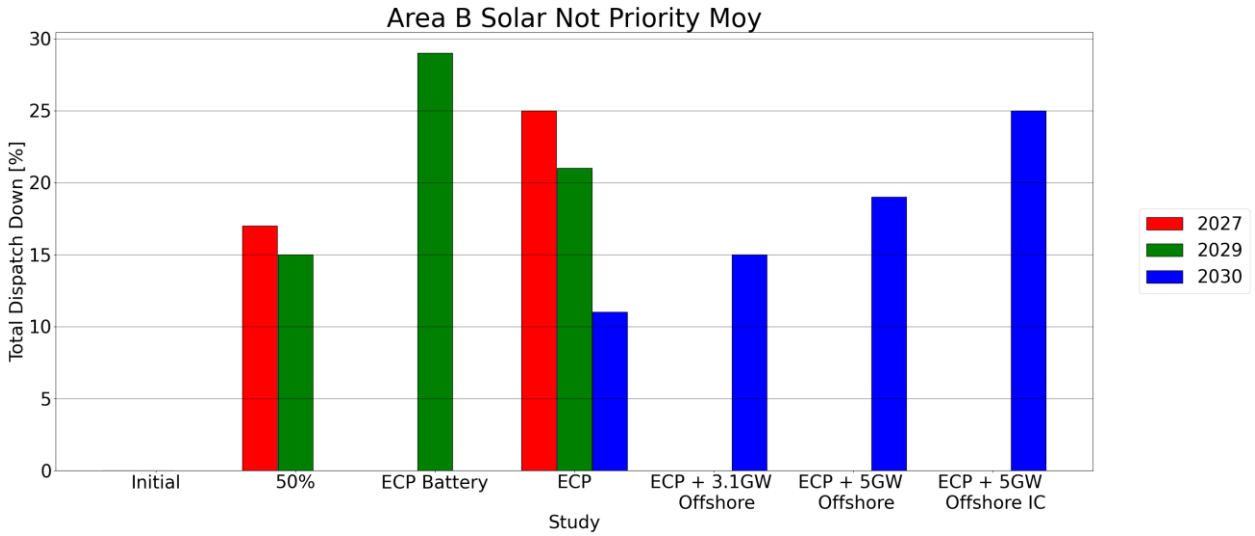

Figure 2-27 - Total Dispatch Down for Solar not priority for Node Moy

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	6	6	6				
Installed Capacity (MW)	2029	6	6	6	6			
Installed Capacity (MW)	FG			6		6	6	6
Available Energy (GWh)	2027	18	18	18				
Available Energy (GWh)	2029	18	18	18	18			
Available Energy (GWh)	FG			18		18	18	18
Generation (GWh)	2027	12	13	13				
Generation (GWh)	2029	18	18	18	17			
Generation (GWh)	FG			18		18	18	17
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

Table 2-45 - Surplus, Curtailment and Constraint for Wind priority for Node Moy

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	6	
Installed Capacity (MW)	2029 (pro-rata)	6	
Installed Capacity (MW)	FG (pro-rata)		6
Available Energy (GWh)	2027 (GF)	18	
Available Energy (GWh)	2029 (pro-rata)	18	
Available Energy (GWh)	FG (pro-rata)		18
Generation (GWh)	2027 (GF)	17	
Generation (GWh)	2029 (pro-rata)	14	
Generation (GWh)	FG (pro-rata)		16
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

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

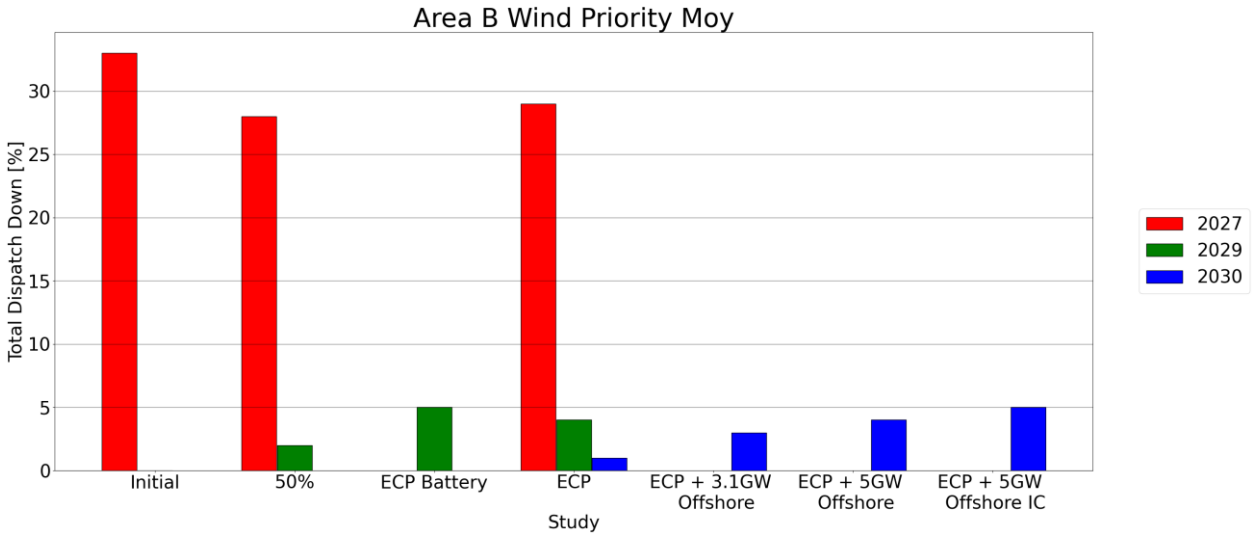

Figure 2-28 - Total Dispatch Down for Wind priority for Node Moy

2.11 Salthill

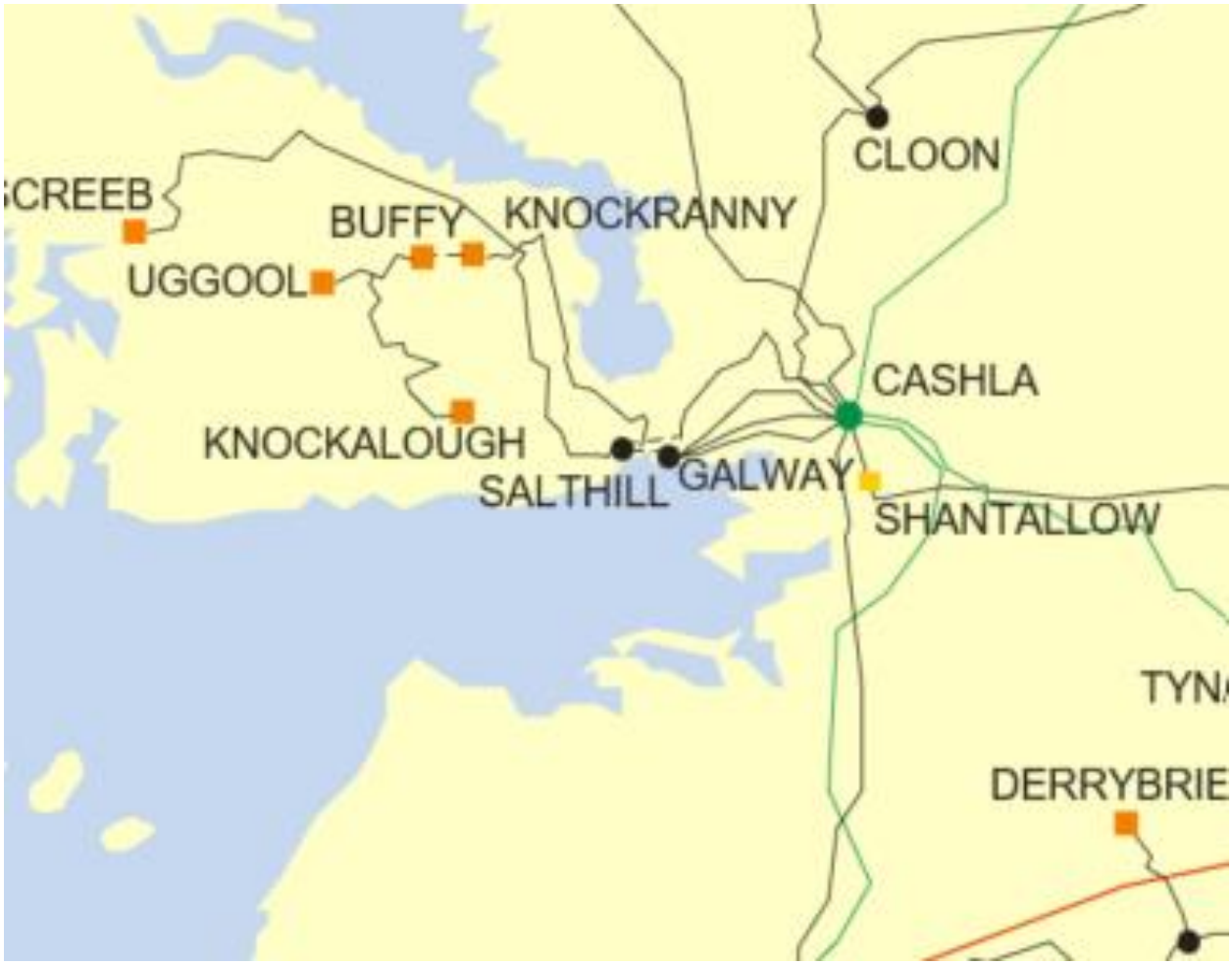

Figure 2-29 - Location of node Salthill

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

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

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	41	41	41				
Installed Capacity (MW)	2029	41	41	41	41			
Installed Capacity (MW)	FG			41		41	41	41
Available Energy (GWh)	2027	124	124	124				
Available Energy (GWh)	2029	124	124	124	124			
Available Energy (GWh)	FG			124		124	124	124
Generation (GWh)	2027	120	118	113				
Generation (GWh)	2029	124	122	120	119			
Generation (GWh)	FG			123		121	120	118
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	2 %	1 %	2 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	4 %	5 %	9 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	41	
Installed Capacity (MW)	2029 (pro-rata)	41	
Installed Capacity (MW)	FG (pro-rata)		41
Available Energy (GWh)	2027 (GF)	124	
Available Energy (GWh)	2029 (pro-rata)	124	
Available Energy (GWh)	FG (pro-rata)		124
Generation (GWh)	2027 (GF)	119	
Generation (GWh)	2029 (pro-rata)	121	
Generation (GWh)	FG (pro-rata)		120
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	1 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	3 %	
Total Dispatch Down (%)	FG (pro-rata)		3 %

Table 2-49 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Salthill

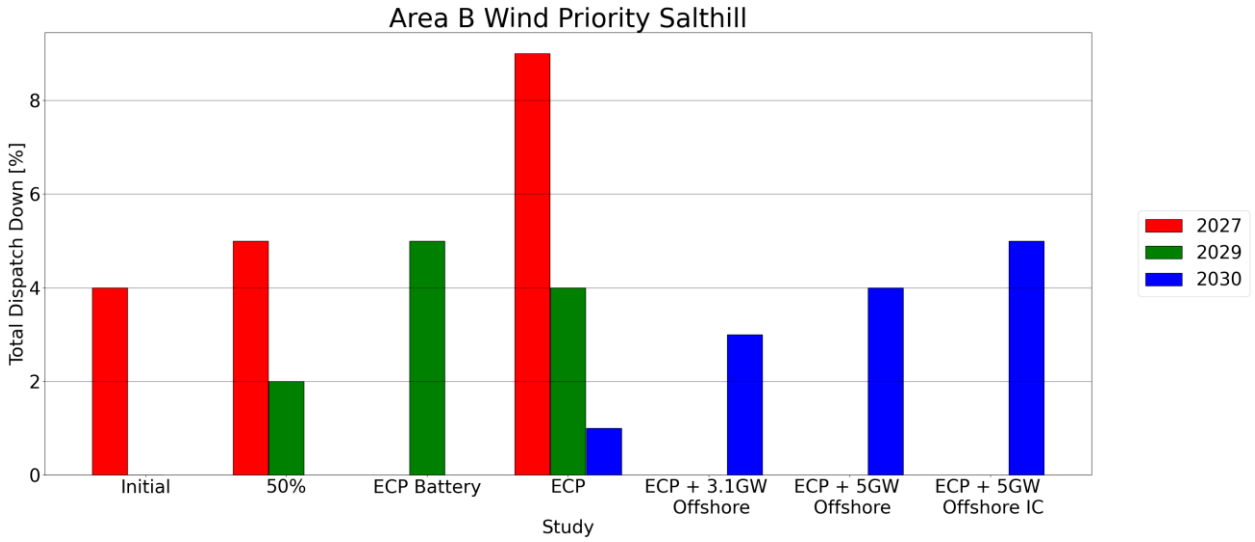

Figure 2-30 - Total Dispatch Down for Wind priority for Node Salthill

2.12 Screebe

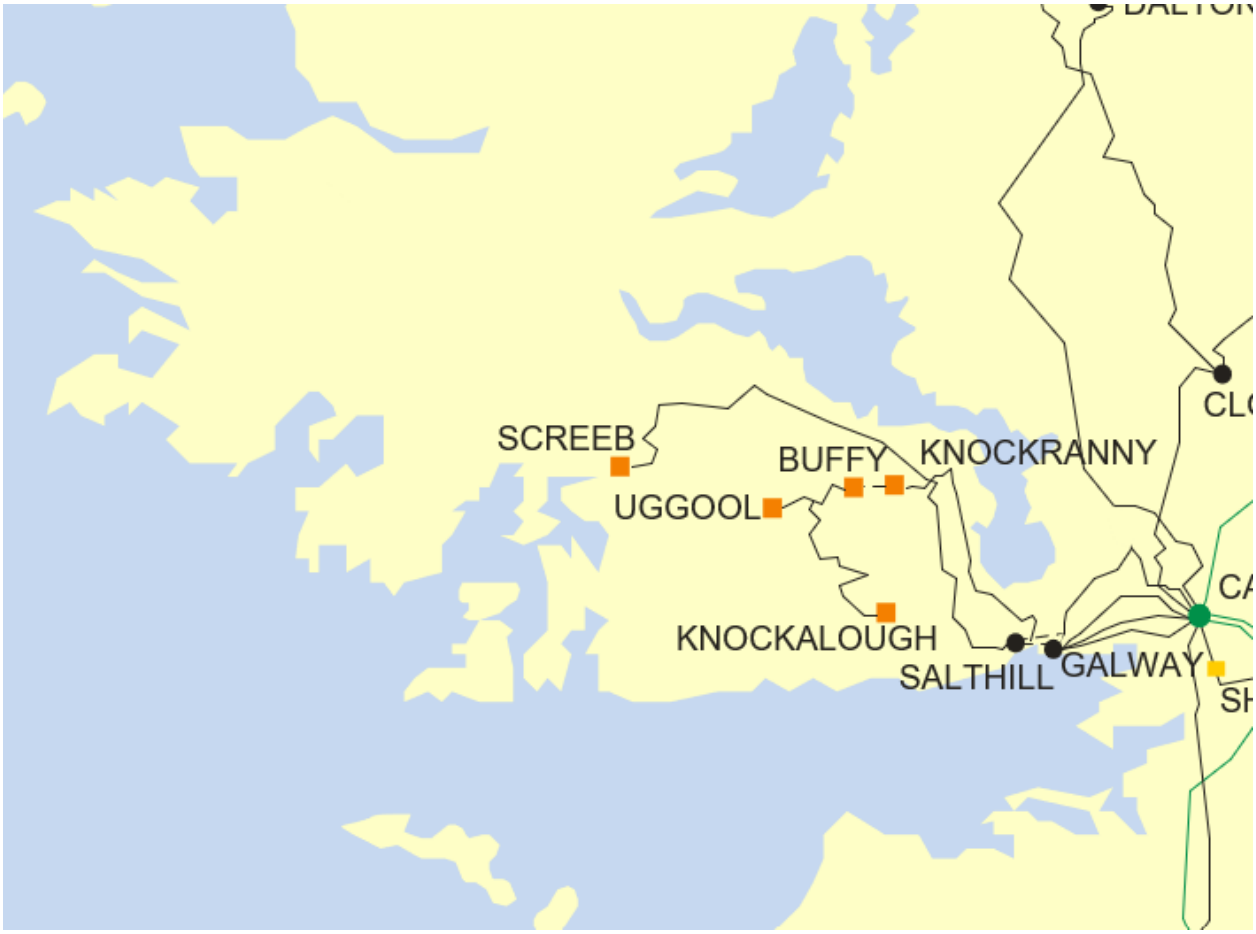

Figure 2-30 - Location of node Screeb

Generator	SO	Capacity	Type	Status
Inverin (Knock South) (1)	DSO	2.64	wind uncontrolled	connected
Rossaveel Wind	DSO	3.0	wind uncontrolled	connected
Inverin Community Wind Turbine	DSO	4.2	wind not priority	due to connect
Tooraskeheen Solar & Storage	DSO	4.0	solar not priority	due to connect

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

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		2	4				
Installed Capacity (MW)	2029		2	4	4			
Installed Capacity (MW)	FG			4		4	4	4
Available Energy (GWh)	2027		3	5				
Available Energy (GWh)	2029		3	5	5			
Available Energy (GWh)	FG			5		5	5	5
Generation (GWh)	2027		2	4				
Generation (GWh)	2029		2	4	4			
Generation (GWh)	FG			5		4	4	4
Surplus (%)	2027		6 %	14 %				
Surplus (%)	2029		3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027		2 %	4 %				
Curtailment (%)	2029		1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		1 %	3 %				
Constraint (%)	2029		2 %	7 %	5 %			
Constraint (%)	FG			2 %		1 %	0 %	0 %
Total Dispatch Down (%)	2027		9 %	21 %				
Total Dispatch Down (%)	2029		7 %	18 %	25 %			
Total Dispatch Down (%)	FG			8 %		13 %	18 %	24 %

Table 2-51 - Surplus, Curtailment and Constraint for Solar non-priority for Node Screebe

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	2	
Installed Capacity (MW)	2029 (pro-rata)	2	
Installed Capacity (MW)	FG (pro-rata)		4
Available Energy (GWh)	2027 (GF)	3	
Available Energy (GWh)	2029 (pro-rata)	3	
Available Energy (GWh)	FG (pro-rata)		5
Generation (GWh)	2027 (GF)	2	
Generation (GWh)	2029 (pro-rata)	2	
Generation (GWh)	FG (pro-rata)		4
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	1 %	
Constraint (%)	2029 (pro-rata)	2 %	
Constraint (%)	FG (pro-rata)		1 %
Total Dispatch Down (%)	2027 (GF)	9 %	
Total Dispatch Down (%)	2029 (pro-rata)	7 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-52 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Screebe

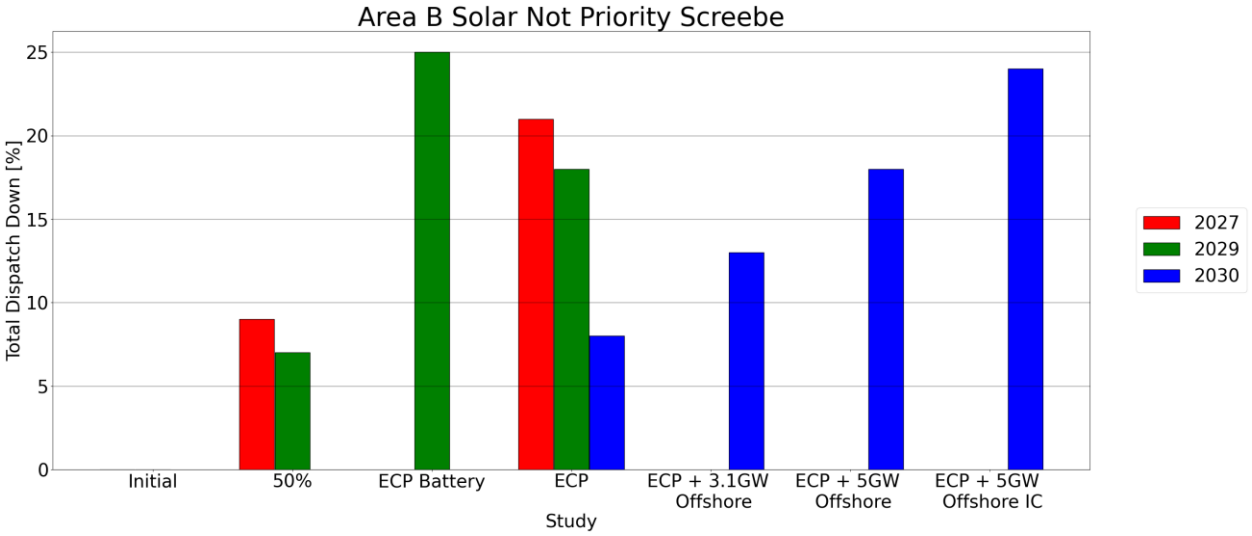

Figure 2-31 - Total Dispatch Down for Solar not priority for Node Screebe

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		2	4				
Installed Capacity (MW)	2029		2	4	4			
Installed Capacity (MW)	FG			4		4	4	4
Available Energy (GWh)	2027		9	19				
Available Energy (GWh)	2029		9	19	19			
Available Energy (GWh)	FG			19		19	19	19
Generation (GWh)	2027		9	16				
Generation (GWh)	2029		9	16	16			
Generation (GWh)	FG			18		16	15	13
Surplus (%)	2027		5 %	11 %				
Surplus (%)	2029		2 %	5 %	7 %			
Surplus (%)	FG			2 %		10 %	20 %	28 %
Curtailment (%)	2027		2 %	4 %				
Curtailment (%)	2029		1 %	2 %	3 %			
Curtailment (%)	FG			0 %		2 %	2 %	2 %
Constraint (%)	2027		1 %	2 %				
Constraint (%)	2029		3 %	8 %	6 %			
Constraint (%)	FG			2 %		1 %	0 %	0 %
Total Dispatch Down (%)	2027		8 %	16 %				
Total Dispatch Down (%)	2029		5 %	14 %	16 %			
Total Dispatch Down (%)	FG			5 %		13 %	22 %	30 %

Table 2-53 - Surplus, Curtailment and Constraint for Wind non-priority for Node Screebe

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	2	
Installed Capacity (MW)	2029 (pro-rata)	2	
Installed Capacity (MW)	FG (pro-rata)		4
Available Energy (GWh)	2027 (GF)	9	
Available Energy (GWh)	2029 (pro-rata)	9	
Available Energy (GWh)	FG (pro-rata)		19
Generation (GWh)	2027 (GF)	8	
Generation (GWh)	2029 (pro-rata)	9	
Generation (GWh)	FG (pro-rata)		16
Surplus (%)	2027 (GF)	5 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		10 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	2 %	
Constraint (%)	2029 (pro-rata)	1 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	9 %	
Total Dispatch Down (%)	2029 (pro-rata)	4 %	
Total Dispatch Down (%)	FG (pro-rata)		12 %

Table 2-54 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Screebe

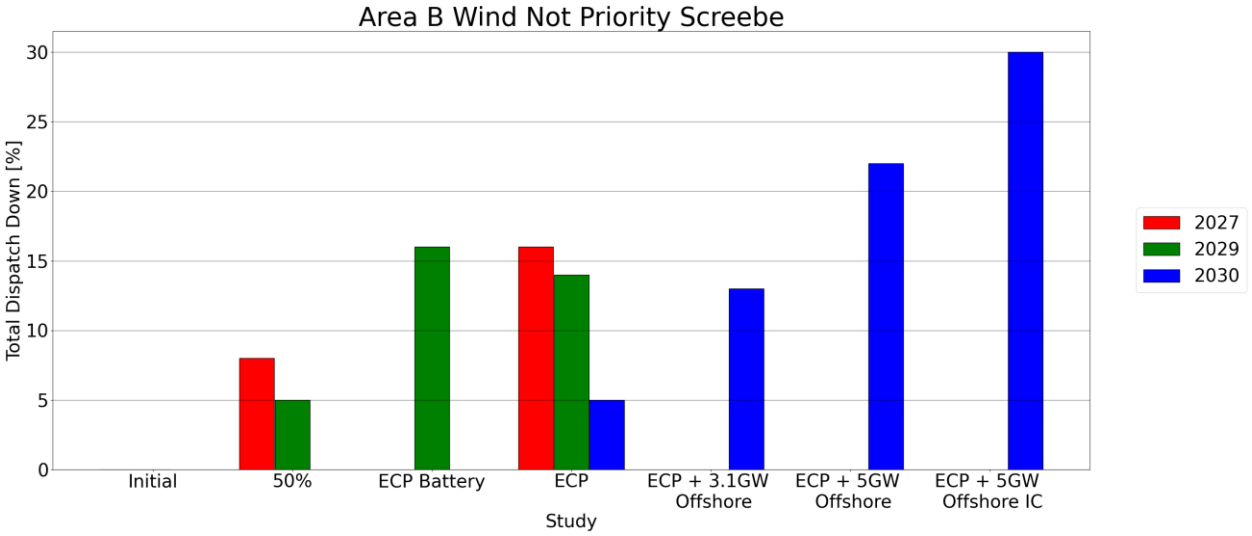

Figure 2-32 - Total Dispatch Down for Wind not priority for Node Screebe

2.13 Shantallow

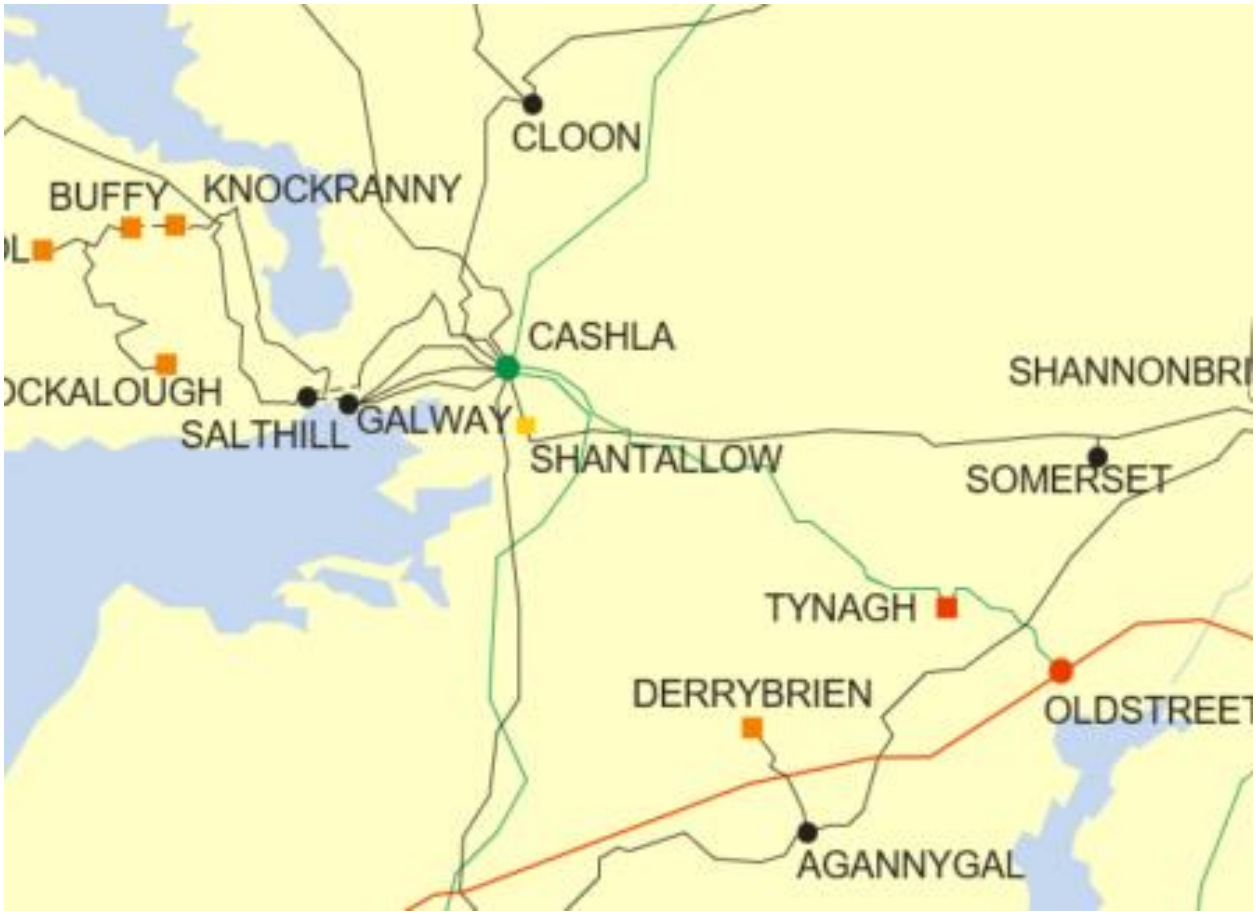

Figure 2-33 - Location of node Shantallow

Generator	SO	Capacity	Type	Status
Shantallow Solar	TSO	35.0	solar not priority	due to connect

Table 2-55 - Generation Included in Study for Node Shantallow

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	35	35	35				
Installed Capacity (MW)	2029	35	35	35	35			
Installed Capacity (MW)	FG			35		35	35	35
Available Energy (GWh)	2027	45	45	45				
Available Energy (GWh)	2029	45	45	45	45			
Available Energy (GWh)	FG			45		45	45	45
Generation (GWh)	2027	44	40	36				
Generation (GWh)	2029	44	42	39	34			
Generation (GWh)	FG			41		39	37	34
Surplus (%)	2027	1 %	6 %	14 %				
Surplus (%)	2029	0 %	3 %	9 %	15 %			
Surplus (%)	FG			5 %		11 %	15 %	21 %
Curtailment (%)	2027	1 %	2 %	4 %				
Curtailment (%)	2029	0 %	1 %	3 %	5 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027	1 %	2 %	2 %				
Constraint (%)	2029	1 %	2 %	2 %	3 %			
Constraint (%)	FG			1 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	3 %	10 %	20 %				
Total Dispatch Down (%)	2029	1 %	6 %	14 %	23 %			
Total Dispatch Down (%)	FG			8 %		13 %	17 %	24 %

Table 2-56 - Surplus, Curtailment and Constraint for Solar non-priority for Node Sligo

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	35	
Installed Capacity (MW)	2029 (pro-rata)	35	
Installed Capacity (MW)	FG (pro-rata)		35
Available Energy (GWh)	2027 (GF)	45	
Available Energy (GWh)	2029 (pro-rata)	45	
Available Energy (GWh)	FG (pro-rata)		45
Generation (GWh)	2027 (GF)	40	
Generation (GWh)	2029 (pro-rata)	42	
Generation (GWh)	FG (pro-rata)		39
Surplus (%)	2027 (GF)	6 %	
Surplus (%)	2029 (pro-rata)	3 %	
Surplus (%)	FG (pro-rata)		11 %
Curtailment (%)	2027 (GF)	2 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	2 %	
Constraint (%)	2029 (pro-rata)	2 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	10 %	
Total Dispatch Down (%)	2029 (pro-rata)	6 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-57 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Sligo

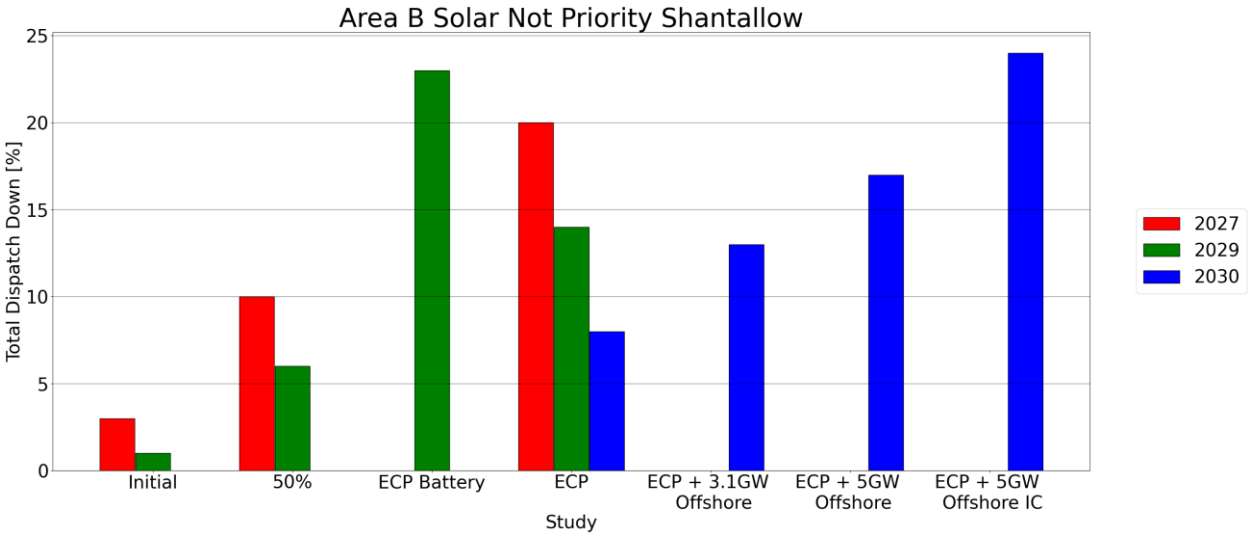

Figure 2-34 - Total Dispatch Down for Solar not priority for Node Shantallow

2.14 Sligo

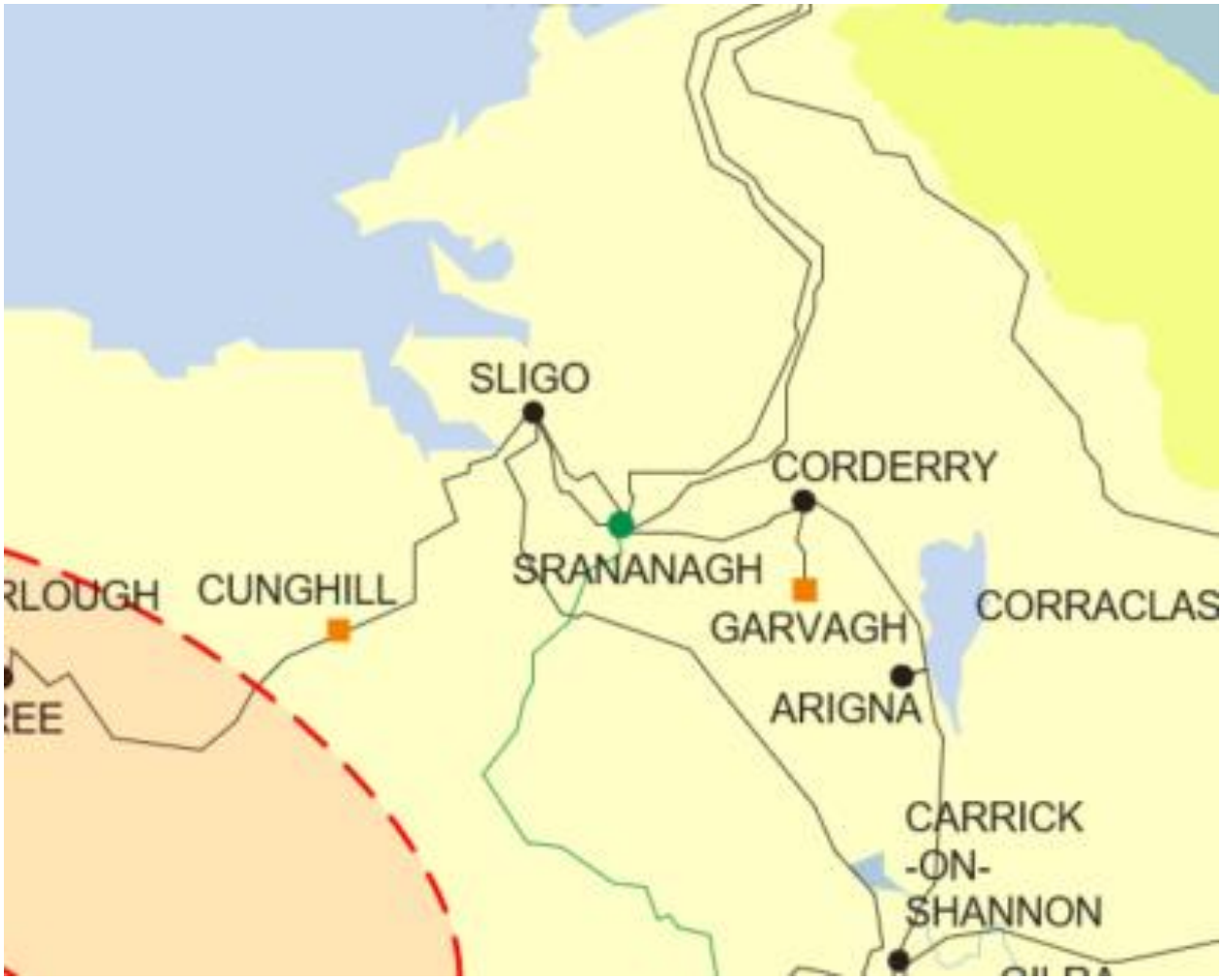

Figure 2-35 - Location of node Sligo

Generator	SO	Capacity	Type	Status
Faughary (1)	DSO	6.0	wind priority	connected
Carrickeeney (1)	DSO	7.65	wind priority	connected
Templehouse Community Wind Turbine	DSO	4.08	wind not priority	due to connect

Table 2-58 - Generation Included in Study for Node Sligo

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		2	4				
Installed Capacity (MW)	2029		2	4	4			
Installed Capacity (MW)	FG			4		4	4	4
Available Energy (GWh)	2027		6	12				
Available Energy (GWh)	2029		6	12	12			
Available Energy (GWh)	FG			12		12	12	12
Generation (GWh)	2027		4	7				
Generation (GWh)	2029		4	7	6			
Generation (GWh)	FG			9		9	8	7
Surplus (%)	2027		7 %	14 %				
Surplus (%)	2029		2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027		3 %	5 %				
Curtailment (%)	2029		1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		23 %	22 %				
Constraint (%)	2029		36 %	35 %	37 %			
Constraint (%)	FG			25 %		15 %	10 %	6 %
Total Dispatch Down (%)	2027		33 %	41 %				
Total Dispatch Down (%)	2029		40 %	44 %	50 %			
Total Dispatch Down (%)	FG			29 %		31 %	37 %	42 %

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

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	2	
Installed Capacity (MW)	2029 (pro-rata)	2	
Installed Capacity (MW)	FG (pro-rata)		4
Available Energy (GWh)	2027 (GF)	6	
Available Energy (GWh)	2029 (pro-rata)	6	
Available Energy (GWh)	FG (pro-rata)		12
Generation (GWh)	2027 (GF)	3	
Generation (GWh)	2029 (pro-rata)	5	
Generation (GWh)	FG (pro-rata)		9
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	41 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	51 %	
Total Dispatch Down (%)	2029 (pro-rata)	24 %	
Total Dispatch Down (%)	FG (pro-rata)		25 %

Table 2-60 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Sligo

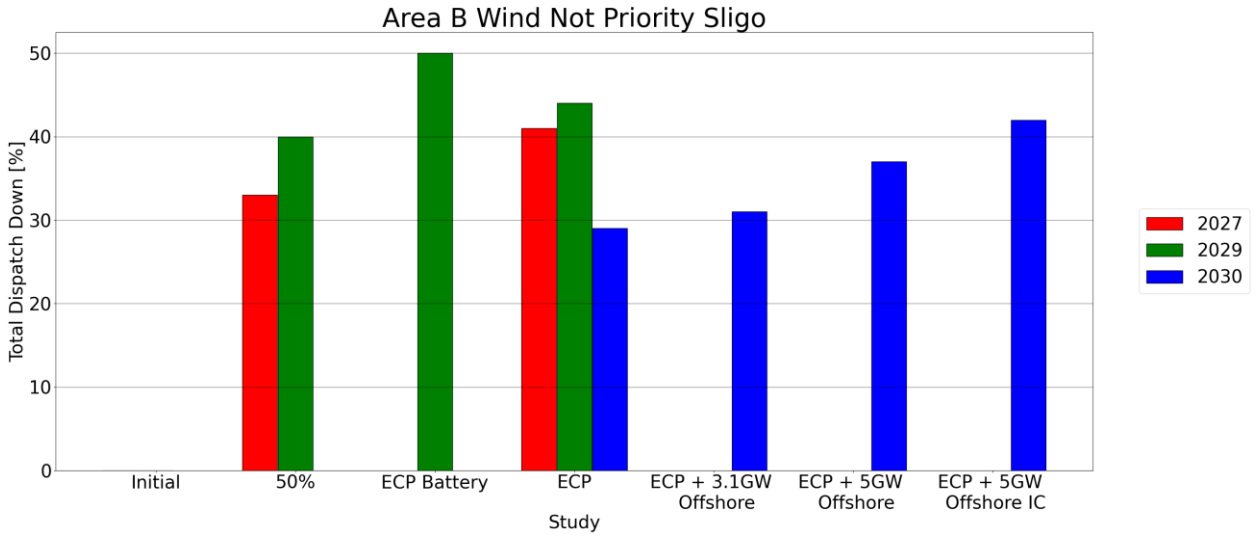

Figure 2-36 - Total Dispatch Down for Wind not priority for Node Sligo

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	14	14	14				
Installed Capacity (MW)	2029	14	14	14	14			
Installed Capacity (MW)	FG			14		14	14	14
Available Energy (GWh)	2027	42	42	42				
Available Energy (GWh)	2029	42	42	42	42			
Available Energy (GWh)	FG			42		42	42	42
Generation (GWh)	2027	28	30	29				
Generation (GWh)	2029	41	41	40	40			
Generation (GWh)	FG			41		40	40	40
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

Table 2-61 - Surplus, Curtailment and Constraint for Wind priority for Node Sligo

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	14	
Installed Capacity (MW)	2029 (pro-rata)	14	
Installed Capacity (MW)	FG (pro-rata)		14
Available Energy (GWh)	2027 (GF)	42	
Available Energy (GWh)	2029 (pro-rata)	42	
Available Energy (GWh)	FG (pro-rata)		42
Generation (GWh)	2027 (GF)	40	
Generation (GWh)	2029 (pro-rata)	32	
Generation (GWh)	FG (pro-rata)		36
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-62 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Sligo

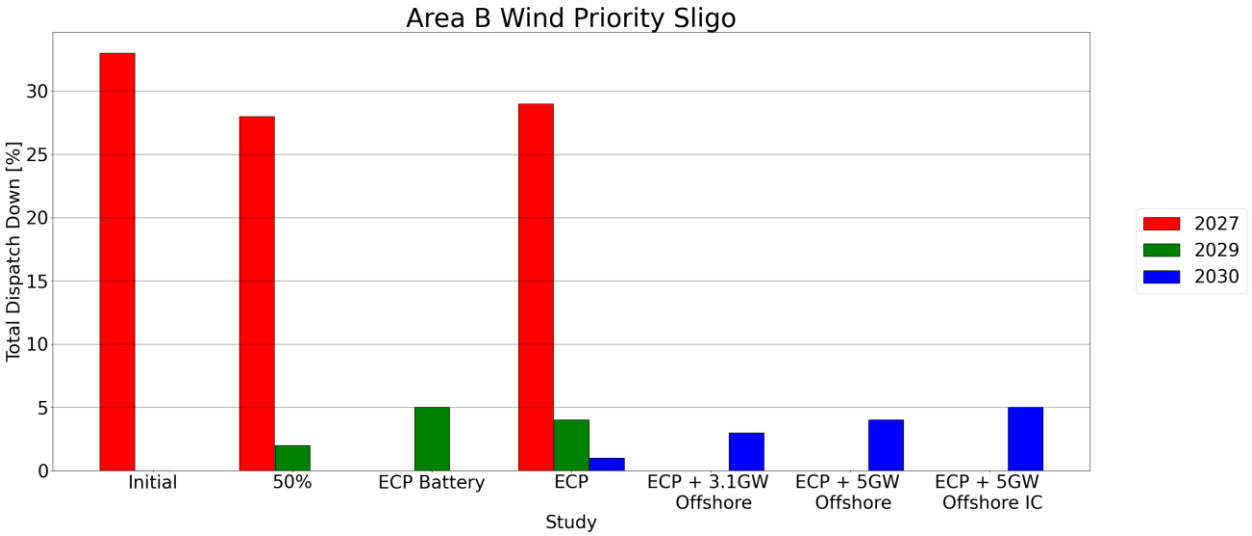

Figure 2-37 - Total Dispatch Down for Wind priority for Node Sligo

2.15 Tawnaghmore

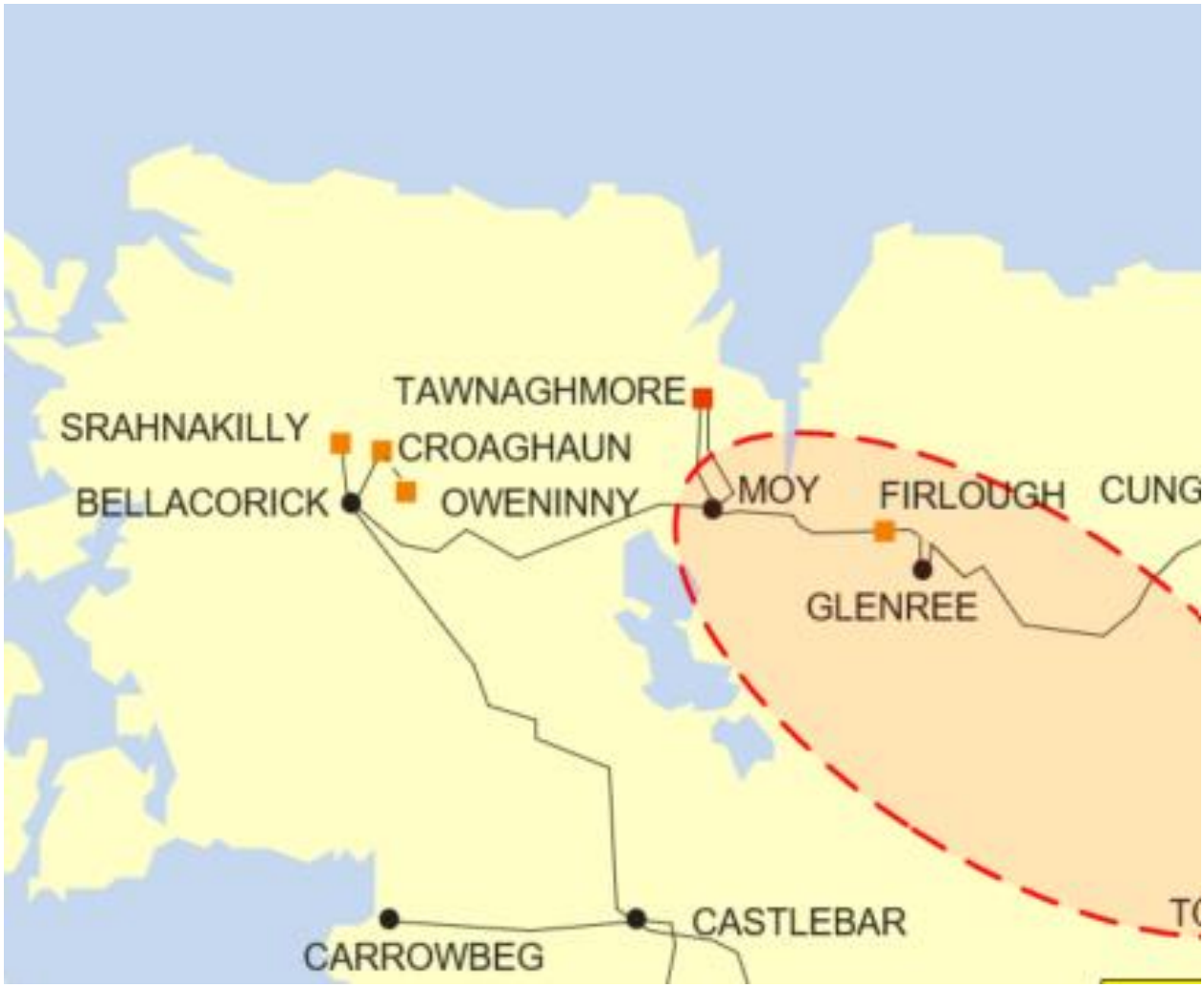

Figure 2-38 - Location of node Tawnaghmore

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

Table 2-63 - Generation Included in Study for Node Tawnaghmore

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	19	19	19				
Installed Capacity (MW)	2029	19	19	19	19			
Installed Capacity (MW)	FG			19		19	19	19
Available Energy (GWh)	2027	58	58	58				
Available Energy (GWh)	2029	58	58	58	58			
Available Energy (GWh)	FG			58		58	58	58
Generation (GWh)	2027	39	42	41				
Generation (GWh)	2029	58	57	56	56			
Generation (GWh)	FG			58		57	56	56
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	2 %	4 %	7 %				
Curtailment (%)	2029	0 %	2 %	4 %	5 %			
Curtailment (%)	FG			1 %		3 %	4 %	5 %
Constraint (%)	2027	32 %	23 %	22 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	33 %	28 %	29 %				
Total Dispatch Down (%)	2029	0 %	2 %	4 %	5 %			
Total Dispatch Down (%)	FG			1 %		3 %	4 %	5 %

Table 2-64 - Surplus, Curtailment and Constraint for Wind priority for Node Tawnaghmore

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	19	
Installed Capacity (MW)	2029 (pro-rata)	19	
Installed Capacity (MW)	FG (pro-rata)		19
Available Energy (GWh)	2027 (GF)	58	
Available Energy (GWh)	2029 (pro-rata)	58	
Available Energy (GWh)	FG (pro-rata)		58
Generation (GWh)	2027 (GF)	56	
Generation (GWh)	2029 (pro-rata)	45	
Generation (GWh)	FG (pro-rata)		51
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	4 %	
Curtailment (%)	2029 (pro-rata)	2 %	
Curtailment (%)	FG (pro-rata)		3 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	4 %	
Total Dispatch Down (%)	2029 (pro-rata)	22 %	
Total Dispatch Down (%)	FG (pro-rata)		13 %

Table 2-65 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Tawnaghmore

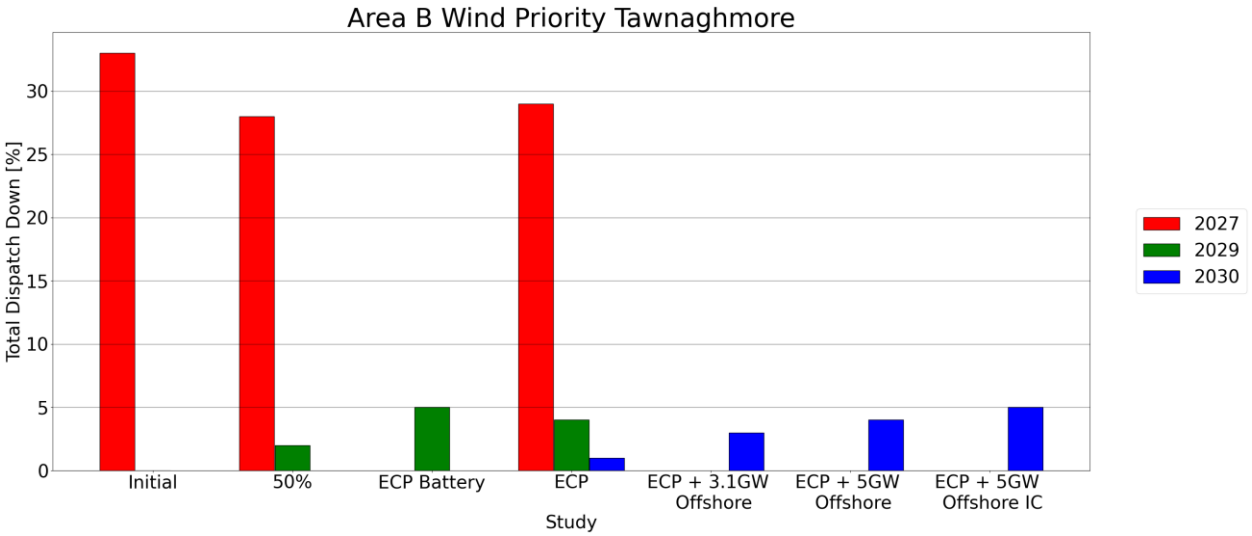

Figure 2-39 - Total Dispatch Down for Wind priority for Node Tawnaghmore

2.16 Tonroe

Figure 2-40 - Location of node Tonroe

Generator	SO	Capacity	Type	Status
Largan Hill (1)	DSO	5.94	wind uncontrolled	connected
Roosky (1)	DSO	3.6	wind uncontrolled	connected
Grady Joinery	DSO	2.5	wind uncontrolled	connected
Riverstown Wind Farm	DSO	3.8	wind not priority	due to connect

Table 2-66 - Generation Included in Study for Node Tonroe

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

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027		2	4				
Installed Capacity (MW)	2029		2	4	4			
Installed Capacity (MW)	FG			4		4	4	4
Available Energy (GWh)	2027		6	12				
Available Energy (GWh)	2029		6	12	12			
Available Energy (GWh)	FG			12		12	12	12
Generation (GWh)	2027		4	7				
Generation (GWh)	2029		3	6	6			
Generation (GWh)	FG			8		8	7	7
Surplus (%)	2027		7 %	14 %				
Surplus (%)	2029		2 %	6 %	10 %			
Surplus (%)	FG			3 %		14 %	24 %	33 %
Curtailment (%)	2027		3 %	5 %				
Curtailment (%)	2029		1 %	3 %	3 %			
Curtailment (%)	FG			1 %		2 %	2 %	2 %
Constraint (%)	2027		23 %	22 %				
Constraint (%)	2029		36 %	35 %	37 %			
Constraint (%)	FG			25 %		15 %	10 %	6 %
Total Dispatch Down (%)	2027		33 %	41 %				
Total Dispatch Down (%)	2029		40 %	44 %	50 %			
Total Dispatch Down (%)	FG			29 %		31 %	37 %	42 %

Table 2-67 - Surplus, Curtailment and Constraint for Wind non-priority for Node Tonroe

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	2	
Installed Capacity (MW)	2029 (pro-rata)	2	
Installed Capacity (MW)	FG (pro-rata)		4
Available Energy (GWh)	2027 (GF)	6	
Available Energy (GWh)	2029 (pro-rata)	6	
Available Energy (GWh)	FG (pro-rata)		12
Generation (GWh)	2027 (GF)	3	
Generation (GWh)	2029 (pro-rata)	4	
Generation (GWh)	FG (pro-rata)		9
Surplus (%)	2027 (GF)	7 %	
Surplus (%)	2029 (pro-rata)	2 %	
Surplus (%)	FG (pro-rata)		14 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	41 %	
Constraint (%)	2029 (pro-rata)	21 %	
Constraint (%)	FG (pro-rata)		10 %
Total Dispatch Down (%)	2027 (GF)	51 %	
Total Dispatch Down (%)	2029 (pro-rata)	24 %	
Total Dispatch Down (%)	FG (pro-rata)		25 %

Table 2-68 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Tonroe

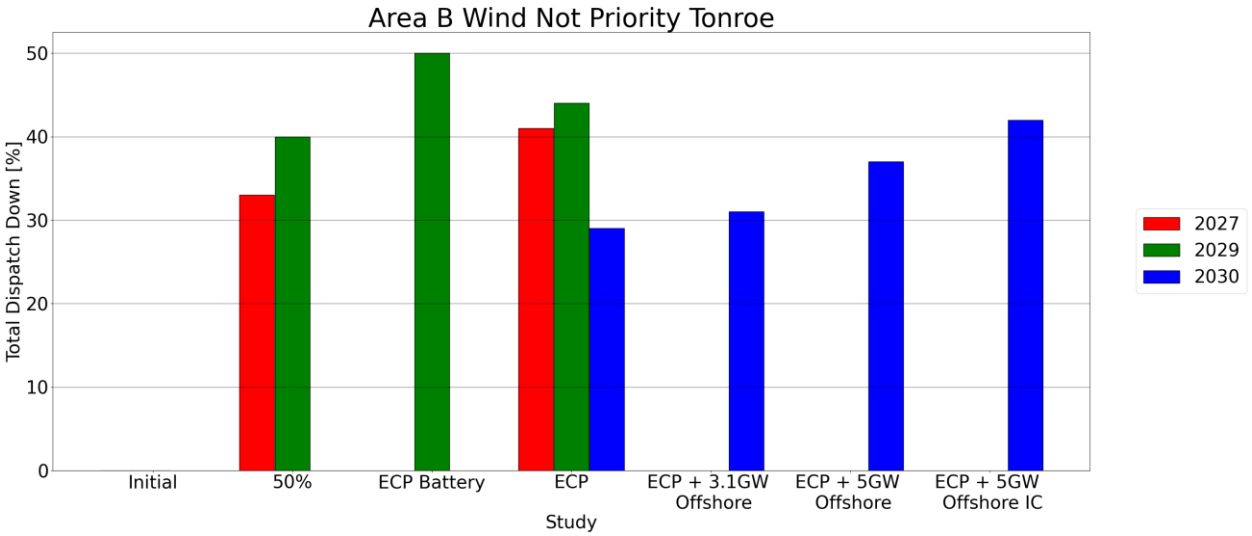

Figure 2-41 - Total Dispatch Down for Wind not priority for Node Tonroe

2.17 Uggool

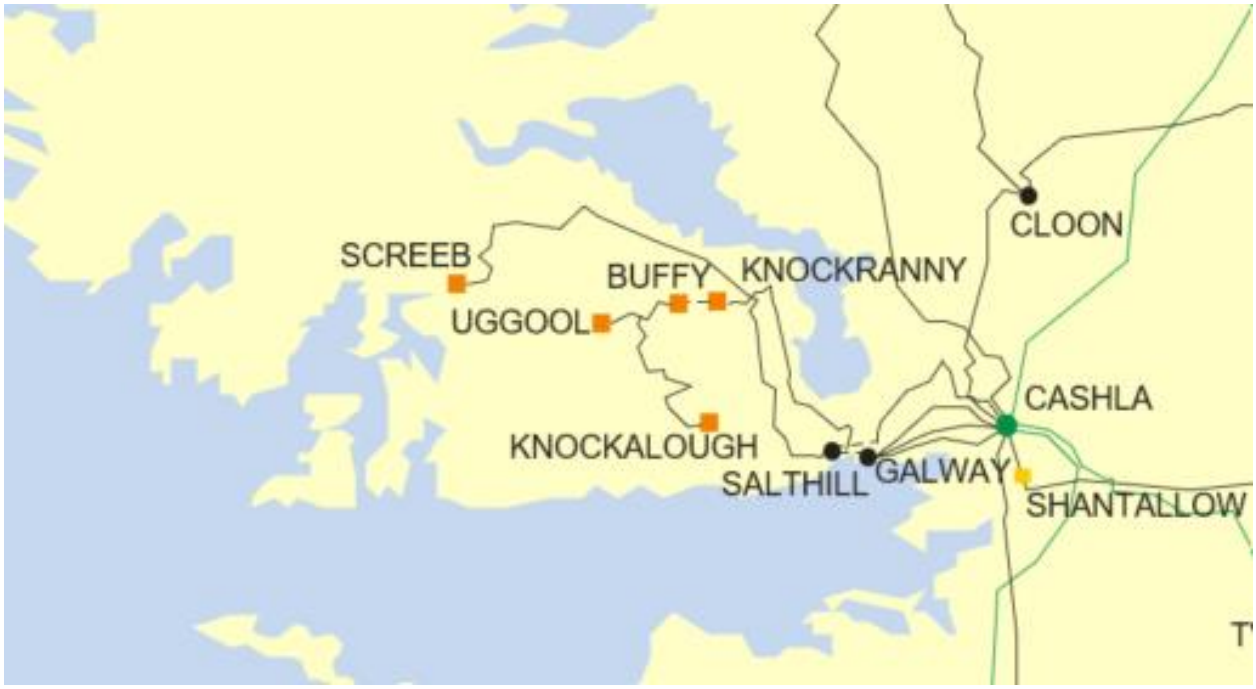

Figure 2-42 - Location of node Uggool

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

Table 2-69 - Generation Included in Study for Node Uggool

The wind priority data is given in the following table.

Area B	Year	Initial	50%	ECP	ECP Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore IC
Installed Capacity (MW)	2027	169	169	169				
Installed Capacity (MW)	2029	169	169	169	169			
Installed Capacity (MW)	FG			169		169	169	169
Available Energy (GWh)	2027	747	747	747				
Available Energy (GWh)	2029	747	747	747	747			
Available Energy (GWh)	FG			747		747	747	747
Generation (GWh)	2027	724	718	694				
Generation (GWh)	2029	746	738	728	721			
Generation (GWh)	FG			743		730	723	715
Surplus (%)	2027	0 %	0 %	0 %				
Surplus (%)	2029	0 %	0 %	0 %	0 %			
Surplus (%)	FG			0 %		0 %	0 %	0 %
Curtailment (%)	2027	1 %	3 %	5 %				
Curtailment (%)	2029	0 %	1 %	3 %	4 %			
Curtailment (%)	FG			1 %		2 %	3 %	4 %
Constraint (%)	2027	2 %	1 %	2 %				
Constraint (%)	2029	0 %	0 %	0 %	0 %			
Constraint (%)	FG			0 %		0 %	0 %	0 %
Total Dispatch Down (%)	2027	3 %	4 %	7 %				
Total Dispatch Down (%)	2029	0 %	1 %	3 %	4 %			
Total Dispatch Down (%)	FG			1 %		2 %	3 %	4 %

Table 2-70 - Surplus, Curtailment and Constraint for Wind priority for Node Ugool

Area B	Year	50%	ECP + 3.1GW Offshore
Installed Capacity (MW)	2027 (GF)	169	
Installed Capacity (MW)	2029 (pro-rata)	169	
Installed Capacity (MW)	FG (pro-rata)		169
Available Energy (GWh)	2027 (GF)	747	
Available Energy (GWh)	2029 (pro-rata)	747	
Available Energy (GWh)	FG (pro-rata)		747
Generation (GWh)	2027 (GF)	723	
Generation (GWh)	2029 (pro-rata)	731	
Generation (GWh)	FG (pro-rata)		728
Surplus (%)	2027 (GF)	0 %	
Surplus (%)	2029 (pro-rata)	0 %	
Surplus (%)	FG (pro-rata)		0 %
Curtailment (%)	2027 (GF)	3 %	
Curtailment (%)	2029 (pro-rata)	1 %	
Curtailment (%)	FG (pro-rata)		2 %
Constraint (%)	2027 (GF)	0 %	
Constraint (%)	2029 (pro-rata)	1 %	
Constraint (%)	FG (pro-rata)		0 %
Total Dispatch Down (%)	2027 (GF)	3 %	
Total Dispatch Down (%)	2029 (pro-rata)	2 %	
Total Dispatch Down (%)	FG (pro-rata)		3 %

Table 2-71 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Ugool

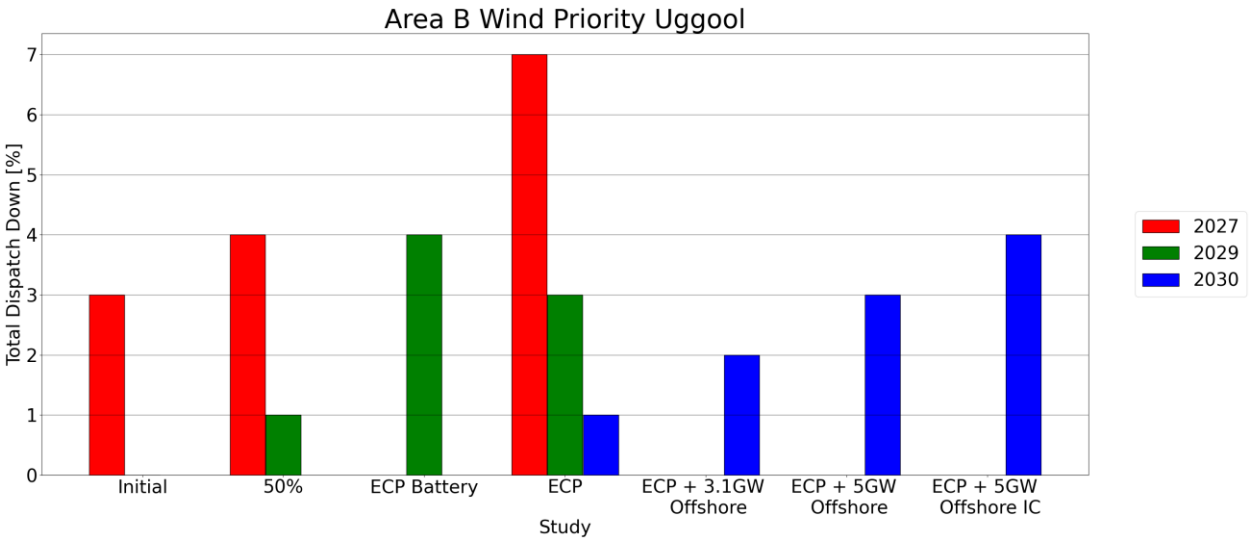

Figure 2-43 - Total Dispatch Down for Wind not priority for Node Ugool