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

Results for Area F for Solar and Wind

Version 1.0

11/02/26

EirGrid

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

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

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

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1 Overview for Area F

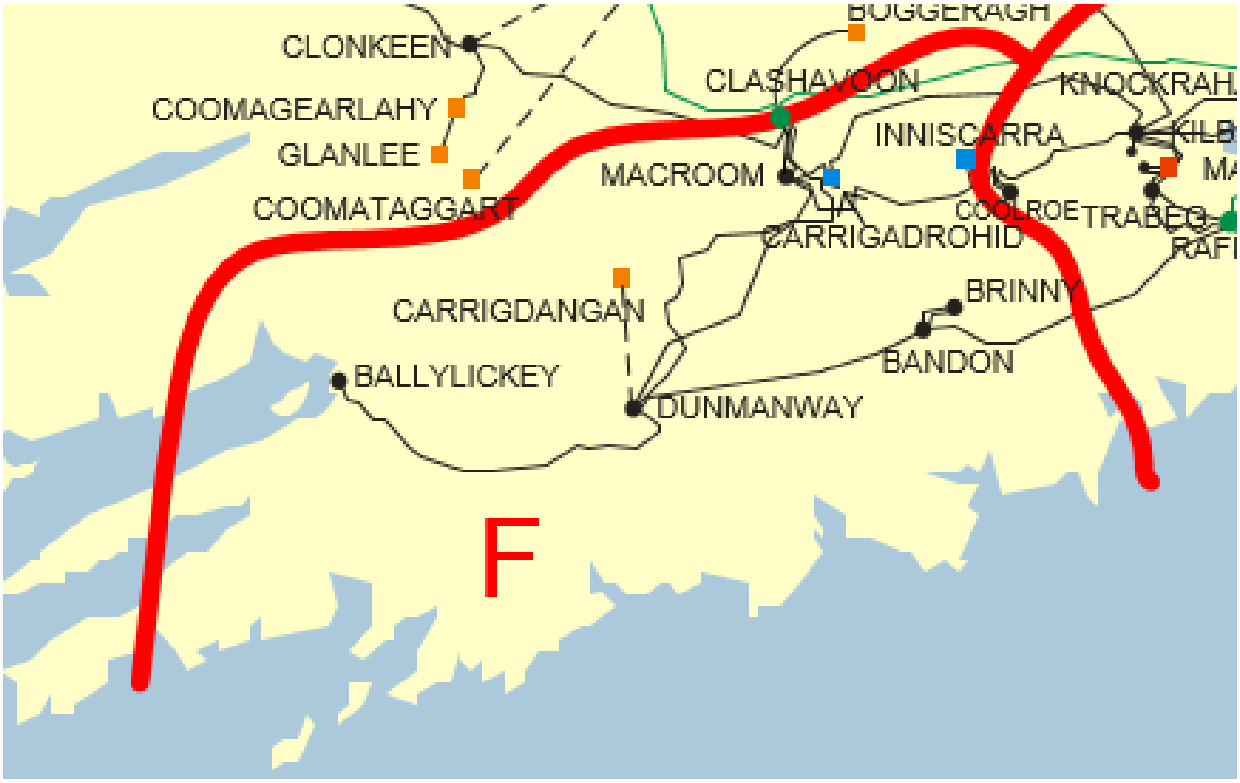

Figure 1-1 Network Map for Area F

The transmission network in Area F and the surrounding area is shown in Figure 1-1. Area F, in the south of the country includes a mix of wind and solar generation. The counties that are covered in this area include Kerry (partial) and Cork. The 220 kV circuits are shown in green and the 110 kV circuits in black. Possible future transmission stations and lines for the connection of new generation are also shown on the map above.

1.1 Introduction

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

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

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

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

1.2 Key Summary

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

Constraints in Area F 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 F. Also, the power flowing out of Area F meets and joins with power flows from other areas, as the power flows towards north (Dublin).

Area F is adjacent to Area E, and the power from Area E tends to flow onto the 220 kV circuit running from Kilpaddoge towards Knockraha. Area F pulls its power onto the 220 kV nodes in Area E or I. In Area F, during the high renewable energy scenarios, the Clashavoon 220kV region becomes a major bottleneck. Any issues with the 220 kV circuit or with parallel paths can limit the generation in this area. Additionally, the issues binding for the circuits in Area E can create additional stress on the Area F and Area I circuits, as they merge with rescue flows. List of binding contingency and overloaded lines are given in ECP 2.5 Ireland summary report in ECP webpage.

1.3 Generation Overview

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

Node	SO	Status	Solar	Wind
Ballylickey	DSO	due to connected		6
Ballylickey	DSO	connected		51
Ballylickey	DSO	connected		8
Bandon	DSO	connected	8	
Bandon	DSO	due to connected	21	
Bandon	TSO	due to connected	8	
Bandon	DSO	connected		9
Bandon	DSO	connected		5
Dunmanway	DSO	due to connected		14
Dunmanway	TSO	connected		54
Dunmanway	TSO	due to connected		14
Dunmanway	DSO	connected		31
Dunmanway	DSO	connected		19
Macroom	DSO	connected	4	
Macroom	DSO	due to connected	14	
Macroom	DSO	connected		24
Total			55	235

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

Solar	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Ireland (MW)	9312	9312	9312	9312	9312
Installed Area F (MW)	55	55	55	55	55
Installed Controllable Area F (MW)	47	47	47	47	47
Available Controllable Area F (GWh)	55	55	55	55	55

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

Wind	ECP	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Ireland (MW)	8197	11271	13197	13197	13197
Installed Area F (MW)	235	235	235	235	235
Installed Controllable Area F (MW)	203	203	203	203	203
Available Controllable Area F (GWh)	655	655	655	655	655

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

1.4 Subgroups

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

Analysis of Area F identified a constraint subgroup for solar and wind generation combining Area E, Area F and Area I. The subgroup nodes are given in Table 1-4. The individual node level dispatch down is given in Section 2.

Subgroup	Nodes
E, F & I	Ballylickey
	Bandon
	Dunmanway
	Macroom

Table 1-4 Area F generator nodes and their subgroups

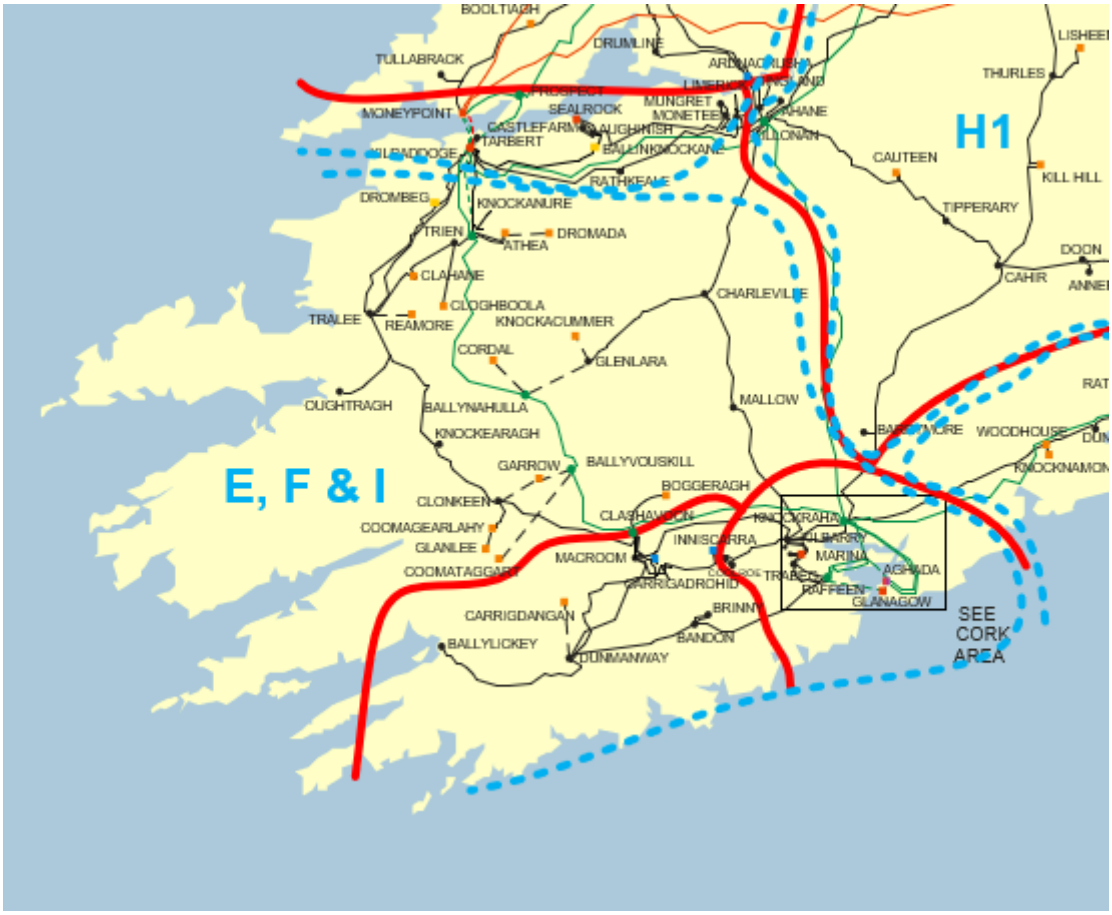

Figure 1-2 Subgroup E, F & I (subgroups outlined by blue dashed line)

1.5 Area F – Summary Results

The Total Dispatch Down results for Area F are provided below in Table 1-5 to Table 1-10 and Figure 1-3 to Figure 1-5. These include the breakdown between surplus, curtailment, and constraint. The Table 1-6, Table 1-8, and Table 1-10 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 in most cases the system level Total Dispatch Down increases with additional installed capacity due to a significant increase in surplus. However, the Total Dispatch Down reduces when the 2030 studies are compared with 2028 and there is a further reduction in the Future Grid scenario owing to increased demand, network reinforcement, interconnection, and relaxed system level operational limits.

For each generation type in Area F (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 1-10. The total generation in GWh after dispatch down and the corresponding percentage Total Dispatch Down are also included in the tables for each scenario. Details on the generation and network scenarios are given in the Assumptions document and Methodology report.

1.5.1 Non – priority Solar Results for E, F & I

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

Area F (E,F & I)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	22	35	47					
Installed Capacity (MW)	2030	22	35	47	47	47			
Installed Capacity (MW)	FG						47	47	47
Available Energy (GWh)	2028	26	41	55					
Available Energy (GWh)	2030	26	41	55	55	55			
Available Energy (GWh)	FG						55	55	55
Generation (GWh)	2028	17	32	38					
Generation (GWh)	2030	22	33	39	34	36			
Generation (GWh)	FG						40	37	44
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

Table 1-5 - Surplus, Curtailment and Constraint for Solar Non-priority in Area F (E, F & I)

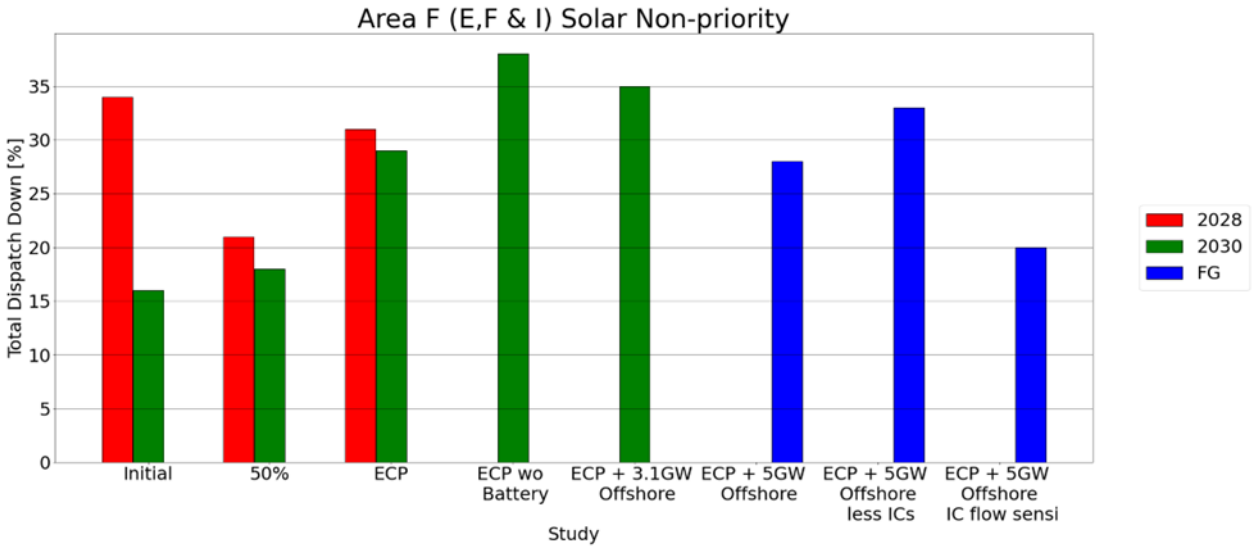

Figure 1-3 - Results Solar Non-priority Area F (E, F & I)

Area F (E,F & I)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	47	
Installed Capacity (MW)	2030	47	47
Available Energy (GWh)	2028	55	
Available Energy (GWh)	2030	55	55
Generation (GWh)	2028	38	
Generation (GWh)	2030	39	36
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 1-6 - Surplus, Curtailment and Constraint for Solar Non-priority with Sensitivity in Area F (E, F & I)

1.5.2 Non - priority Wind Results for E, F & I

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

Area F (E,F & I)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	88	88	88					
Installed Capacity (MW)	2030	88	88	88	88	88			
Installed Capacity (MW)	FG						88	88	88
Available Energy (GWh)	2028	285	285	285					
Available Energy (GWh)	2030	283	283	283	283	283			
Available Energy (GWh)	FG						283	283	283
Generation (GWh)	2028	75	145	151					
Generation (GWh)	2030	184	181	166	145	101			
Generation (GWh)	FG						151	147	204
Surplus (%)	2028	15 %	19 %	25 %					
Surplus (%)	2030	11 %	21 %	27 %	32 %	39 %			
Surplus (%)	FG						31 %	36 %	20 %
Curtailment (%)	2028	6 %	5 %	4 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	53 %	25 %	18 %					
Constraint (%)	2030	19 %	12 %	11 %	13 %	23 %			
Constraint (%)	FG						14 %	11 %	7 %
Total Dispatch Down (%)	2028	74 %	49 %	47 %					
Total Dispatch Down (%)	2030	35 %	36 %	41 %	49 %	64 %			
Total Dispatch Down (%)	FG						47 %	48 %	28 %

Table 1-7 - Surplus, Curtailment and Constraint for Wind Non-priority in Area F (E, F & I)

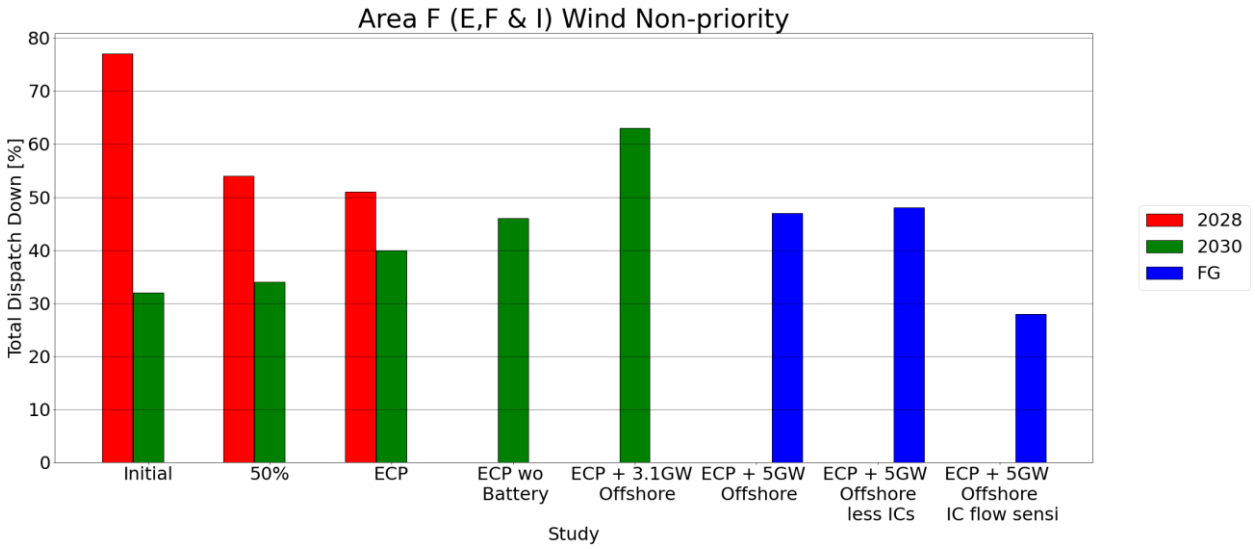

Figure 1-4 - Results Wind Non-priority Area F (E, F & I)

Area F (E,F & I)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	88	
Installed Capacity (MW)	2030	88	88
Available Energy (GWh)	2028	285	
Available Energy (GWh)	2030	283	283
Generation (GWh)	2028	183	
Generation (GWh)	2030	187	142
Surplus (%)	2028	25 %	
Surplus (%)	2030	27 %	39 %
Curtailment (%)	2028	4 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	36 %	
Total Dispatch Down (%)	2030	34 %	50 %

Table 1-8 - Surplus, Curtailment and Constraint for Wind Non-priority with Sensitivity in Area F (E, F & I)

1.5.3 Priority Wind Results for E, F & I

The wind priority data is given in the following table.

Area F (E,F & I)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	115	115	115					
Installed Capacity (MW)	2030	115	115	115	115	115			
Installed Capacity (MW)	FG						115	115	115
Available Energy (GWh)	2028	374	374	374					
Available Energy (GWh)	2030	372	372	372	372	372			
Available Energy (GWh)	FG						372	372	372
Generation (GWh)	2028	340	342	340					
Generation (GWh)	2030	349	352	351	342	347			
Generation (GWh)	FG						352	353	362
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	9 %	9 %	9 %					
Curtailment (%)	2030	6 %	5 %	6 %	8 %	7 %			
Curtailment (%)	FG						5 %	5 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	9 %	9 %	9 %					
Total Dispatch Down (%)	2030	6 %	5 %	6 %	8 %	7 %			
Total Dispatch Down (%)	FG						5 %	5 %	3 %

Table 1-9 - Surplus, Curtailment and Constraint for Wind Priority in Area F (E, F & I)

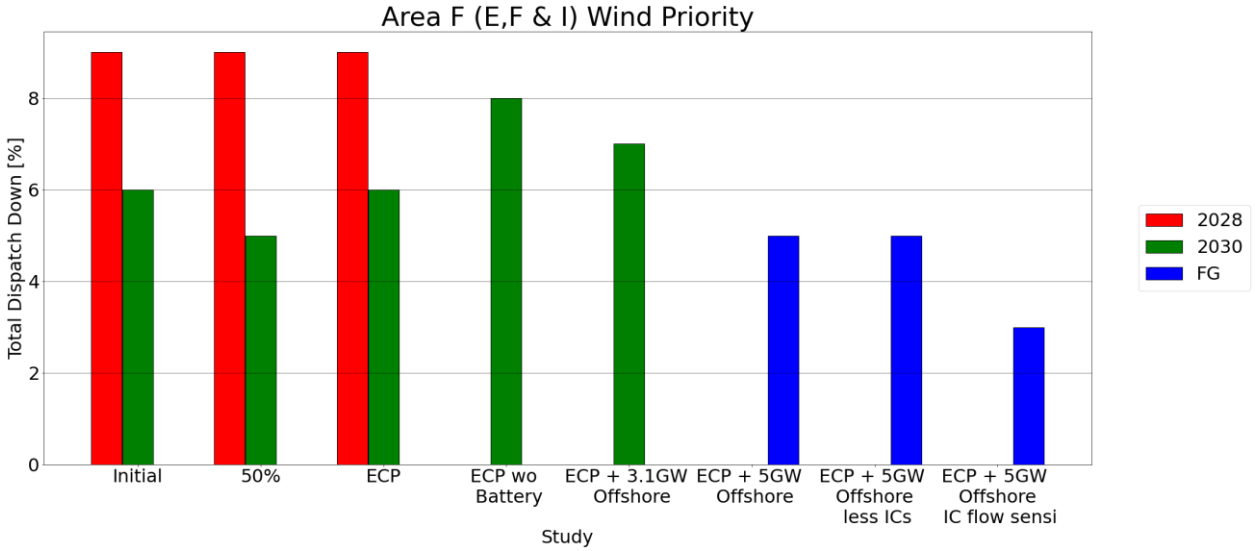

Figure 1-5 - Results Wind Priority Area F (E, F & I)

Area F (E,F & I)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	115	
Installed Capacity (MW)	2030	115	115
Available Energy (GWh)	2028	374	
Available Energy (GWh)	2030	372	372
Generation (GWh)	2028	316	
Generation (GWh)	2030	335	316
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	9 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	16 %	
Total Dispatch Down (%)	2030	10 %	15 %

Table 1-10 - Surplus, Curtailment and Constraint for Wind Priority with Sensitivity in Area F (E, F & I)

2 Area F Node Results

This section presents results for 4 nodes in Area F.

In each node section:

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

Example

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

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

2.1 Ballylickey

Figure 2-1- Location of node Ballylickey

Generator	SO	Capacity	Type	Status
Ballybane (Glanta Commons) Wind Farm	DSO	19.55	wind priority	connected
Kealkil (Curraglass) (1)	DSO	8.5	wind uncontrolled	connected
Ballybane 2 (Glanta Commons) Wind Farm	DSO	8.4	wind priority	connected
Ballybane 2A (Glanta Commons) Wind Farm Extension	DSO	1.55	wind priority	connected
Ballybane 3 (Glanta Commons) Wind Farm	DSO	4.45	wind priority	connected
Ballybane 2A	DSO	11.5	wind priority	connected
Derreenacrinnig West (prev Kilvinane 2 WF)	DSO	5.82	wind not priority	due to connected

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

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

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	6	6	6					
Installed Capacity (MW)	2030	6	6	6	6	6			
Installed Capacity (MW)	FG						6	6	6
Available Energy (GWh)	2028	19	19	19					
Available Energy (GWh)	2030	19	19	19	19	19			
Available Energy (GWh)	FG						19	19	19
Generation (GWh)	2028	5	10	10					
Generation (GWh)	2030	12	12	11	10	7			
Generation (GWh)	FG						10	10	14
Surplus (%)	2028	15 %	19 %	25 %					
Surplus (%)	2030	11 %	21 %	27 %	32 %	39 %			
Surplus (%)	FG						31 %	36 %	20 %
Curtailment (%)	2028	6 %	5 %	4 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	53 %	25 %	18 %					
Constraint (%)	2030	19 %	12 %	11 %	13 %	23 %			
Constraint (%)	FG						14 %	11 %	7 %
Total Dispatch Down (%)	2028	74 %	49 %	47 %					
Total Dispatch Down (%)	2030	35 %	36 %	41 %	49 %	64 %			
Total Dispatch Down (%)	FG						47 %	48 %	28 %

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

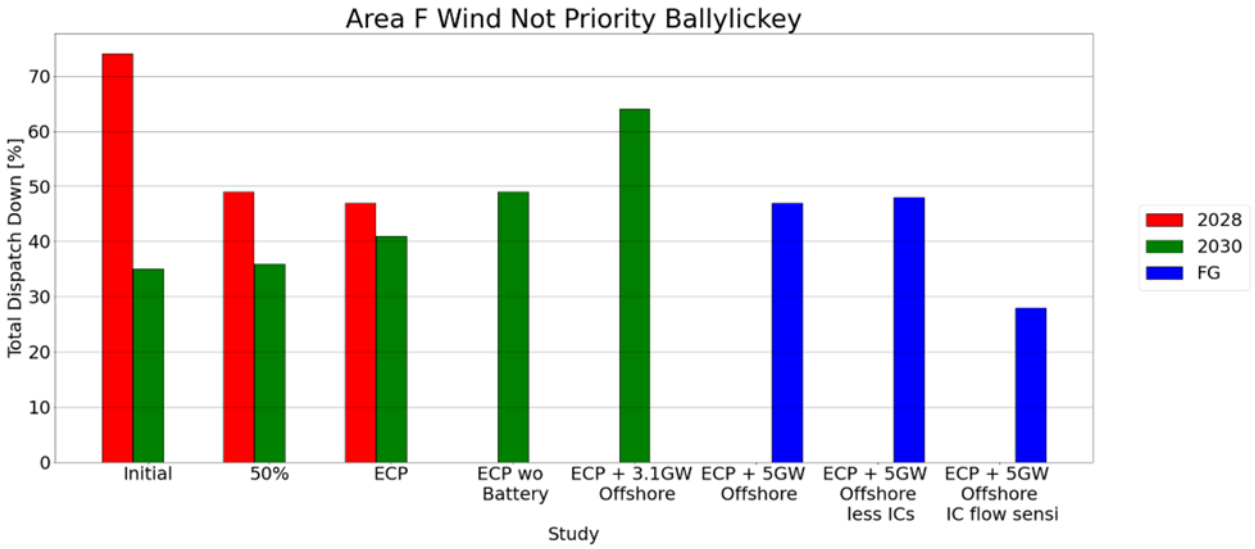

Figure 2-2 - Total Dispatch Down for Wind not priority for Node Ballylickey

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	6	
Installed Capacity (MW)	2030	6	6
Available Energy (GWh)	2028	19	
Available Energy (GWh)	2030	19	19
Generation (GWh)	2028	12	
Generation (GWh)	2030	12	9
Surplus (%)	2028	25 %	
Surplus (%)	2030	27 %	39 %
Curtailment (%)	2028	4 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	36 %	
Total Dispatch Down (%)	2030	34 %	50 %

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

The wind priority data is given in the following table.

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	51	51	51					
Installed Capacity (MW)	2030	51	51	51	51	51			
Installed Capacity (MW)	FG						51	51	51
Available Energy (GWh)	2028	168	168	168					
Available Energy (GWh)	2030	167	167	167	167	167			
Available Energy (GWh)	FG						167	167	167
Generation (GWh)	2028	152	153	152					
Generation (GWh)	2030	156	157	157	153	155			
Generation (GWh)	FG						158	158	162
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	9 %	9 %	9 %					
Curtailment (%)	2030	6 %	5 %	6 %	8 %	7 %			
Curtailment (%)	FG						5 %	5 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	9 %	9 %	9 %					
Total Dispatch Down (%)	2030	6 %	5 %	6 %	8 %	7 %			
Total Dispatch Down (%)	FG						5 %	5 %	3 %

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

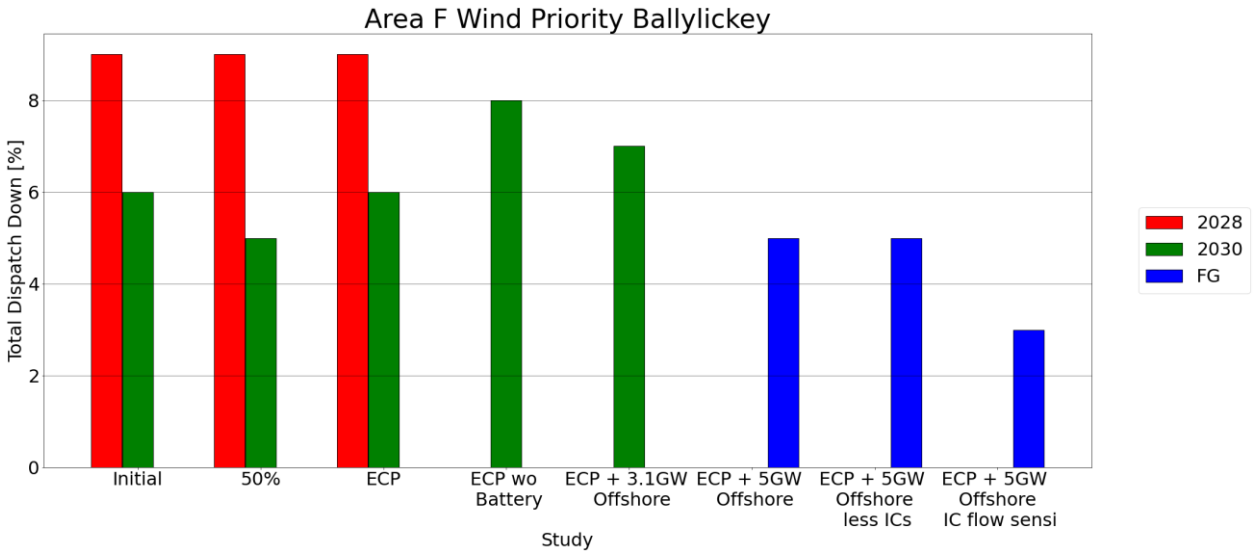

Figure 2-3 - Total Dispatch Down for Wind priority for Node Ballylickey

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	51	
Installed Capacity (MW)	2030	51	51
Available Energy (GWh)	2028	168	
Available Energy (GWh)	2030	167	167
Generation (GWh)	2028	141	
Generation (GWh)	2030	150	142
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	9 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	16 %	
Total Dispatch Down (%)	2030	10 %	15 %

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

2.2 Bandon

Figure 2-4 - Location of node Bandon

Generator	SO	Capacity	Type	Status
Kilvinane (1)	DSO	4.85	wind uncontrolled	connected
Garranereagh (1)	DSO	8.75	wind priority	connected
Currabeha	DSO	4.95	solar not priority	due to connected
Callatrim South Solar Farm (prev. Kilcawha)	DSO	5.95	solar not priority	due to connected
Garryndruig	DSO	4.95	solar not priority	due to connected
Farrangalway Solar PV Farm	DSO	4.95	solar not priority	due to connected
Finnis PV	DSO	8.5	solar not priority	connected
Brinny solar non export	TSO	8.2	solar uncontrolled	due to connected

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

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

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	18	24	29					
Installed Capacity (MW)	2030	18	24	29	29	29			
Installed Capacity (MW)	FG						29	29	29
Available Energy (GWh)	2028	22	28	34					
Available Energy (GWh)	2030	22	28	34	34	34			
Available Energy (GWh)	FG						34	34	34
Generation (GWh)	2028	14	22	24					
Generation (GWh)	2030	18	23	24	21	22			
Generation (GWh)	FG						25	23	27
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

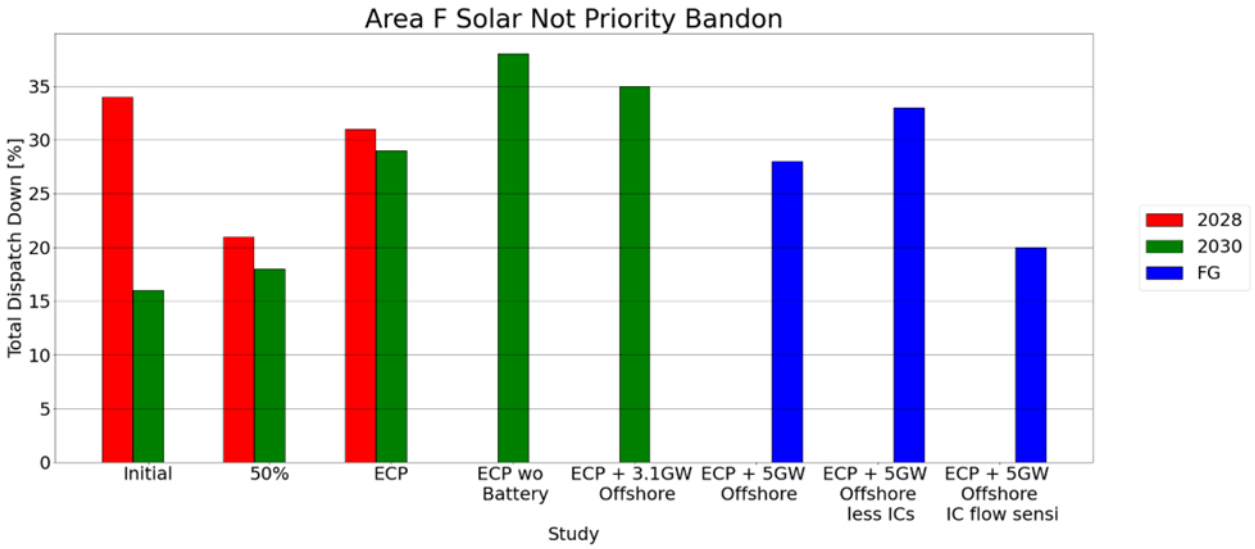

Figure 2-5 - Total Dispatch Down for Solar not priority for Node Bandon

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	29	
Installed Capacity (MW)	2030	29	29
Available Energy (GWh)	2028	34	
Available Energy (GWh)	2030	34	34
Generation (GWh)	2028	24	
Generation (GWh)	2030	24	22
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

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

The wind priority data is given in the following table.

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	9	9	9					
Installed Capacity (MW)	2030	9	9	9	9	9			
Installed Capacity (MW)	FG						9	9	9
Available Energy (GWh)	2028	28	28	28					
Available Energy (GWh)	2030	28	28	28	28	28			
Available Energy (GWh)	FG						28	28	28
Generation (GWh)	2028	26	26	26					
Generation (GWh)	2030	27	27	27	26	26			
Generation (GWh)	FG						27	27	28
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	9 %	9 %	9 %					
Curtailment (%)	2030	6 %	5 %	6 %	8 %	7 %			
Curtailment (%)	FG						5 %	5 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	9 %	9 %	9 %					
Total Dispatch Down (%)	2030	6 %	5 %	6 %	8 %	7 %			
Total Dispatch Down (%)	FG						5 %	5 %	3 %

Table 2-9 - Surplus, Curtailment and Constraint for Wind priority for Node Bandon

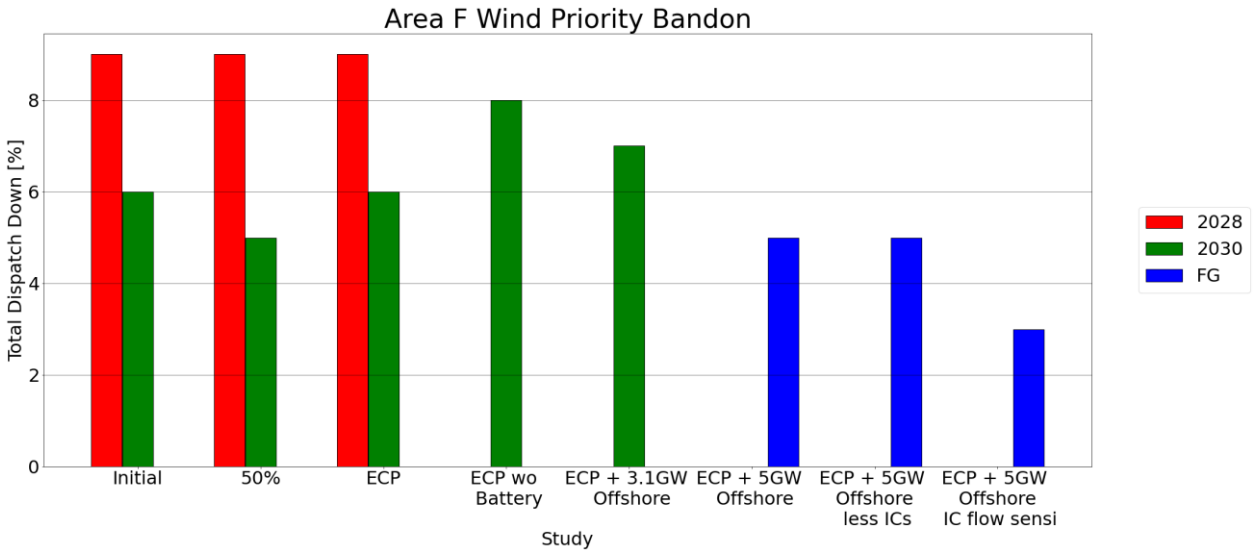

Figure 2-6 - Total Dispatch Down for Wind priority for Node Bandon

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	9	
Installed Capacity (MW)	2030	9	9
Available Energy (GWh)	2028	28	
Available Energy (GWh)	2030	28	28
Generation (GWh)	2028	24	
Generation (GWh)	2030	26	24
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	9 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	16 %	
Total Dispatch Down (%)	2030	10 %	15 %

Table 2-10 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Bandon

2.3 Dunmanway

Figure 2-7 - Location of node Dunmanway

Generator	SO	Capacity	Type	Status
Lahanaght Hill (1)	DSO	4.25	wind uncontrolled	connected
Coomatallin (1)	DSO	5.95	wind priority	connected
Milane Hill (1)	DSO	5.94	wind uncontrolled	connected
Currabwee (1)	DSO	4.62	wind uncontrolled	connected
Killaveenoge Windfarm (Derryvacorneen merge with Barrboy Windfarm)	DSO	17.0	wind priority	connected
Reenascreena (1)	DSO	4.5	wind uncontrolled	connected
Killaveenoge Windfarm (Derryvacorneen merge with Barrboy)	DSO	7.8	wind priority	connected
Carrigdangan (formerly Barnadivine)	TSO	54.3	wind not priority	connected
Carrigdangan Wind Farm - Phase 2	TSO	13.65	wind not priority	due to connected
Knockeenbui (1)	DSO	13.8	wind not priority	due to connected

Table 2-11 - Generation Included in Study for Node Dunmanway

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

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	82	82	82					
Installed Capacity (MW)	2030	82	82	82	82	82			
Installed Capacity (MW)	FG						82	82	82
Available Energy (GWh)	2028	266	266	266					
Available Energy (GWh)	2030	265	265	265	265	265			
Available Energy (GWh)	FG						265	265	265
Generation (GWh)	2028	70	136	141					
Generation (GWh)	2030	172	169	155	135	94			
Generation (GWh)	FG						141	137	191
Surplus (%)	2028	15 %	19 %	25 %					
Surplus (%)	2030	11 %	21 %	27 %	32 %	39 %			
Surplus (%)	FG						31 %	36 %	20 %
Curtailment (%)	2028	6 %	5 %	4 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	53 %	25 %	18 %					
Constraint (%)	2030	19 %	12 %	11 %	13 %	23 %			
Constraint (%)	FG						14 %	11 %	7 %
Total Dispatch Down (%)	2028	74 %	49 %	47 %					
Total Dispatch Down (%)	2030	35 %	36 %	41 %	49 %	64 %			
Total Dispatch Down (%)	FG						47 %	48 %	28 %

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

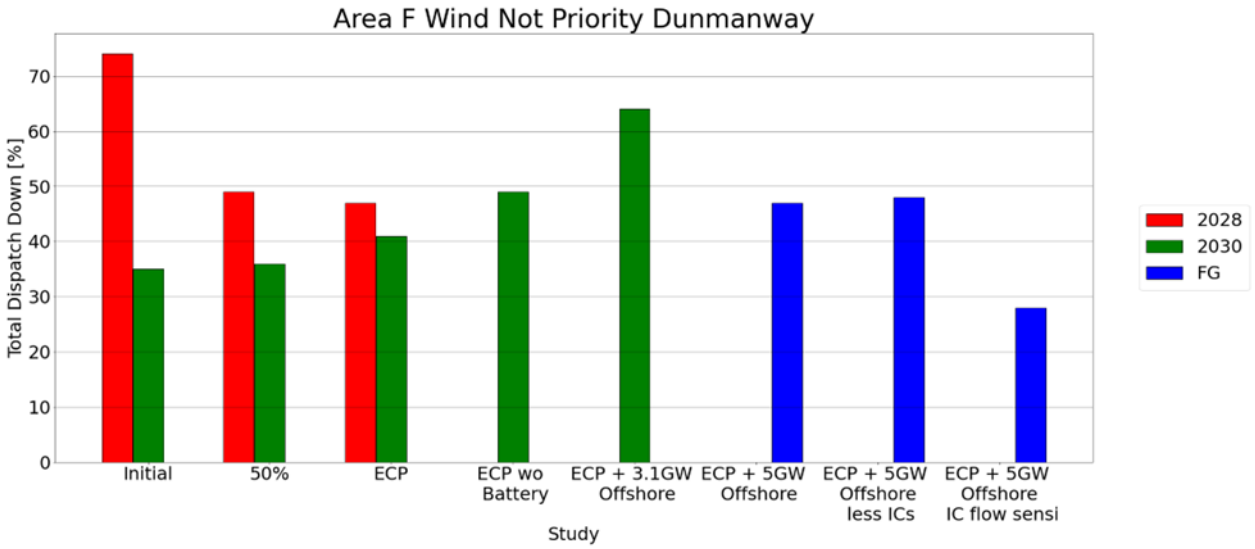

Figure 2-8 - Total Dispatch Down for Wind not priority for Node Dunmanway

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	82	
Installed Capacity (MW)	2030	82	82
Available Energy (GWh)	2028	266	
Available Energy (GWh)	2030	265	265
Generation (GWh)	2028	171	
Generation (GWh)	2030	175	132
Surplus (%)	2028	25 %	
Surplus (%)	2030	27 %	39 %
Curtailment (%)	2028	4 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	36 %	
Total Dispatch Down (%)	2030	34 %	50 %

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

The wind priority data is given in the following table.

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	31	31	31					
Installed Capacity (MW)	2030	31	31	31	31	31			
Installed Capacity (MW)	FG						31	31	31
Available Energy (GWh)	2028	100	100	100					
Available Energy (GWh)	2030	100	100	100	100	100			
Available Energy (GWh)	FG						100	100	100
Generation (GWh)	2028	91	92	91					
Generation (GWh)	2030	93	94	94	92	93			
Generation (GWh)	FG						94	94	97
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	9 %	9 %	9 %					
Curtailment (%)	2030	6 %	5 %	6 %	8 %	7 %			
Curtailment (%)	FG						5 %	5 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	9 %	9 %	9 %					
Total Dispatch Down (%)	2030	6 %	5 %	6 %	8 %	7 %			
Total Dispatch Down (%)	FG						5 %	5 %	3 %

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

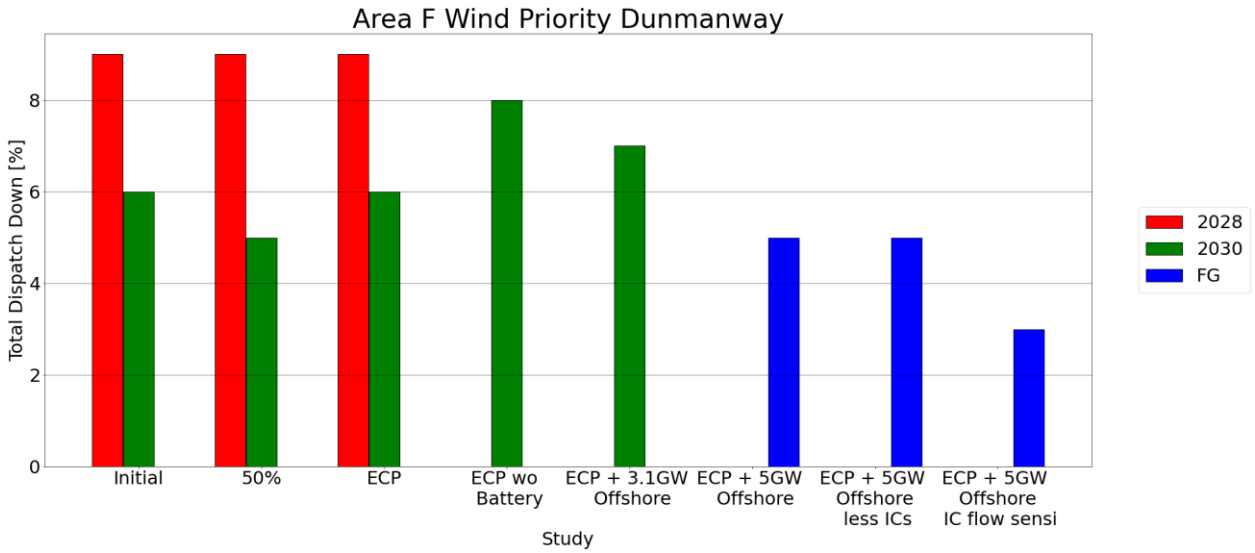

Figure 2-9 - Total Dispatch Down for Wind priority for Node Dunmanway

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	31	
Installed Capacity (MW)	2030	31	31
Available Energy (GWh)	2028	100	
Available Energy (GWh)	2030	100	100
Generation (GWh)	2028	85	
Generation (GWh)	2030	90	85
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	9 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	16 %	
Total Dispatch Down (%)	2030	10 %	15 %

Table 2-15 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Dunmanway

2.4 Macroom

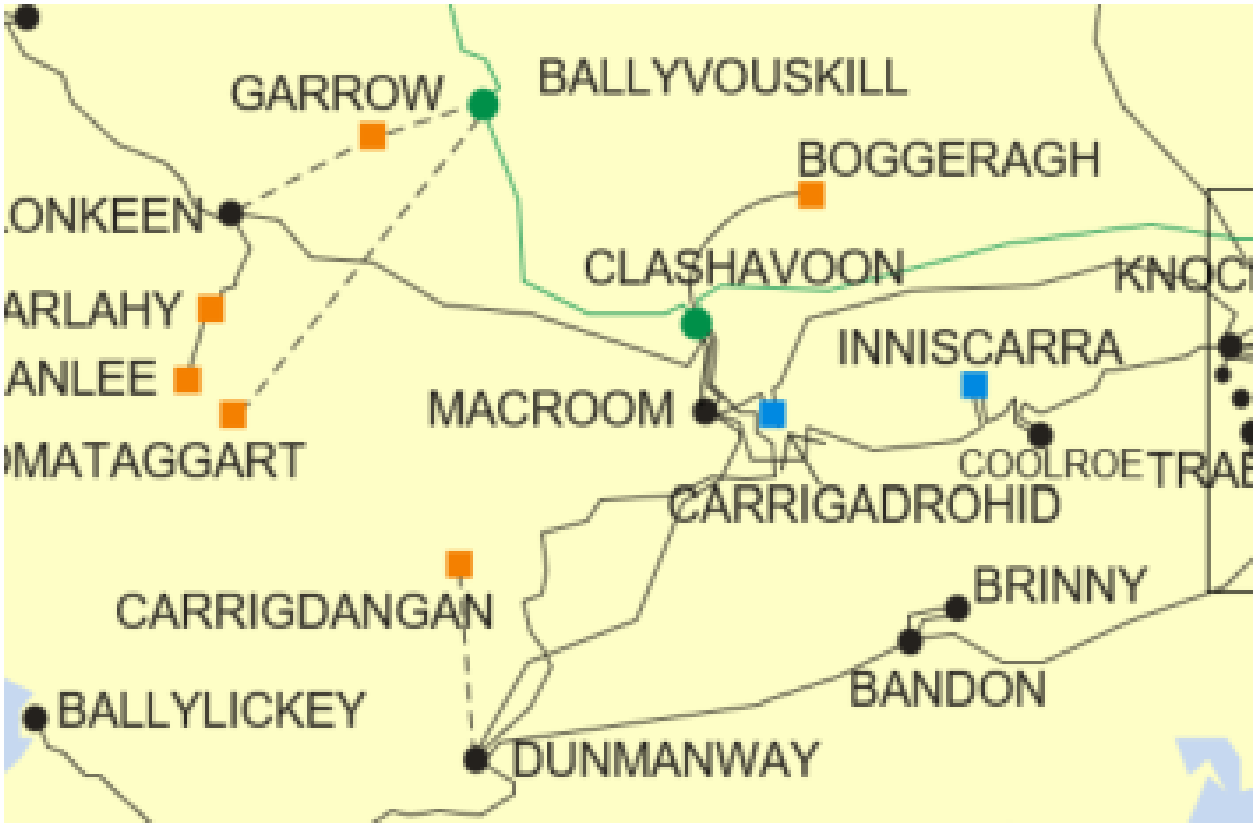

Figure 2-10 - Location of node Macroom

Generator	SO	Capacity	Type	Status
Bawnmore (1) formerly Burren (Cork)	DSO	24.0	wind priority	connected
Knockglass Solar Farm	DSO	4.0	solar not priority	connected
Berrings Solar Farm	DSO	13.8	solar not priority	due to connected

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

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

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	4	11	18					
Installed Capacity (MW)	2030	4	11	18	18	18			
Installed Capacity (MW)	FG						18	18	18
Available Energy (GWh)	2028	5	13	21					
Available Energy (GWh)	2030	5	13	21	21	21			
Available Energy (GWh)	FG						21	21	21
Generation (GWh)	2028	3	10	14					
Generation (GWh)	2030	4	10	15	13	14			
Generation (GWh)	FG						15	14	17
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

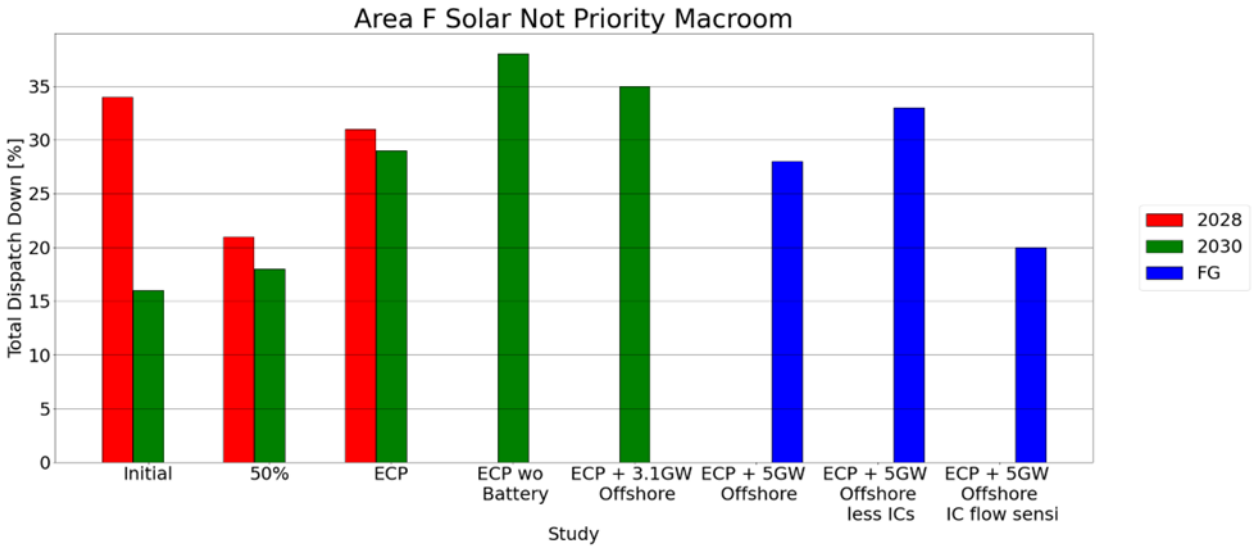

Figure 2-11 - Total Dispatch Down for Solar not priority for Node Macroom

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	18	
Installed Capacity (MW)	2030	18	18
Available Energy (GWh)	2028	21	
Available Energy (GWh)	2030	21	21
Generation (GWh)	2028	14	
Generation (GWh)	2030	15	14
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

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

The wind priority data is given in the following table.

Area F	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	24	24	24					
Installed Capacity (MW)	2030	24	24	24	24	24			
Installed Capacity (MW)	FG						24	24	24
Available Energy (GWh)	2028	78	78	78					
Available Energy (GWh)	2030	78	78	78	78	78			
Available Energy (GWh)	FG						78	78	78
Generation (GWh)	2028	71	71	71					
Generation (GWh)	2030	73	73	73	71	72			
Generation (GWh)	FG						74	74	76
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	9 %	9 %	9 %					
Curtailment (%)	2030	6 %	5 %	6 %	8 %	7 %			
Curtailment (%)	FG						5 %	5 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	9 %	9 %	9 %					
Total Dispatch Down (%)	2030	6 %	5 %	6 %	8 %	7 %			
Total Dispatch Down (%)	FG						5 %	5 %	3 %

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

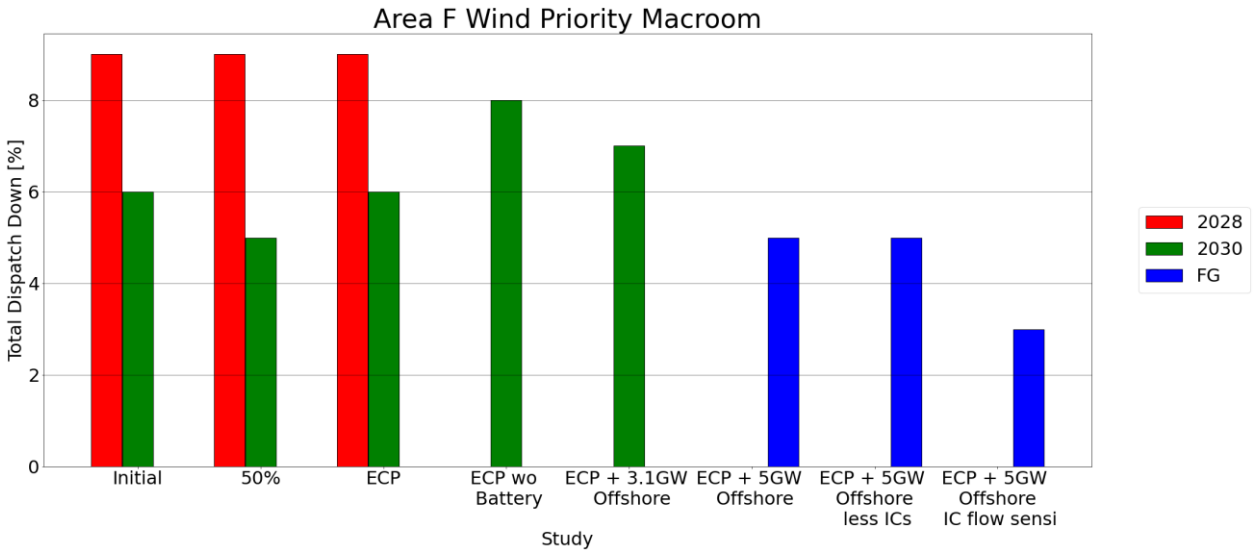

Figure 2-12 - Total Dispatch Down for wind priority for Node Macroom

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

Area F	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	24	
Installed Capacity (MW)	2030	24	24
Available Energy (GWh)	2028	78	
Available Energy (GWh)	2030	78	78
Generation (GWh)	2028	66	
Generation (GWh)	2030	70	66
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	9 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	6 %	
Constraint (%)	2030	4 %	8 %
Total Dispatch Down (%)	2028	16 %	
Total Dispatch Down (%)	2030	10 %	15 %

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