

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

Results for Area H2 for Solar and Wind

Version 1.0

11/02/26



Revision History						
Revision	Date	Description	Originator	Reviewer	Checker	Approver
R0	11.02.2026	Overview results and node results in Area H2	ECP Team	ECP Lead	ECP Senior Lead	Economic Analysis Manager

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1 Results for Area H2



Figure 1-1 Network Map for Area H2

Area H2, in the south-east of the country, includes a mix of wind and solar generation. The counties that are covered in this area include Waterford (partial), Wexford, Kilkenny (partial) and Wicklow (partial). The transmission network in Area H2 and the surrounding area is shown in Figure 1-1. The 400 kV circuits are shown in red, the 220 kV circuits in green and the 110 kV circuits in black. 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 H2. For information on the study assumptions, methodology and Ireland summary report please refer to the ECP webpage¹. This document contains two main sections:

Section 1: An overview of the estimated surplus, curtailment, and constraint values for Area H2 for a range of scenarios. There are a total of six core ECP-2.5 studies and eight sensitivity studies presented in this report. The results highly depend on the study assumptions, which are described in the Assumptions Document.

Section 2: Area H2 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 H2.

1.2 Key Summary

Area H2 includes the assumed connection point for the Greenlink interconnector at Great Island. The area also receives connections at Arklow for future offshore wind in the offshore based scenarios. For Area H2, the dominant power flows tend to be towards the load centres on the east coast and the interconnectors. These flow patterns are relevant when seeking to understand constraint apportionment in the simulation.

Constraints in Area H2 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 may increase constraints in Area H2. In addition to the power flowing out of Area H2, there are also power flows across or through Area H2. Renewable power from other areas will flow across the transmission network and at least some of this power will flow through Area H2. The power flowing out of Area H2 meets and joins with power flows from other areas, as the power flows towards north region.

In the Area H2, the Arklow 220/110 kV transformer and Waterford region are two major bottlenecks in the area during the high-RES scenarios. The Great Island 220/110 kV transformer is another bottleneck in the area during the high-RES scenarios, but this benefits with the inclusion of transformer upgrades in 2030. Further, the loss of 220 kV circuits to Carrickmines or Dunstown creates additional stress to the network in this area. The Greenlink and Celtic interconnectors provide additional extraction points during high-RES scenarios. Thus, generation in Area K and H2 tries to push power towards the Dublin and interconnectors through the 220 kV and 110 kV circuits. 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 H2 in the “ECP” scenario is given in Table 1-1. Installed and controllable energy in Area H2 is given in Table 1-2 for solar and Table 1-3 for wind.

Node	SO	Status	Solar	Wind
Arklow 220kV	TSO	due to connected		400
Arklow 220kV	TSO	due to connected		400
Arklow	DSO	due to connected	55	

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

Arklow	TSO	due to connected	77	
Arklow	DSO	due to connected	1	
Arklow	DSO	due to connected		40
Arklow	DSO	connected		78
Ballybeg	DSO	connected	8	
Ballybeg	DSO	due to connected	8	
Ballyragget	DSO	due to connected	40	
Ballyragget	DSO	due to connected		45
Ballyragget	DSO	connected		9
Ballywater	TSO	connected		42
Banoge	DSO	connected	8	
Carlow	DSO	due to connected	43	
Carlow	TSO	due to connected	50	
Carlow	DSO	due to connected		21
Carlow	DSO	connected		30
Carlow	DSO	connected		4
Castledockrell	TSO	connected		41
Crane	DSO	connected	9	
Crane	DSO	due to connected	1	
Crane	DSO	connected		2
Crane	DSO	connected		5
Crory	DSO	due to connected	20	
Crory	DSO	connected		44
Crory	DSO	connected		16
Efferloge	DSO	due to connected	1	
Efferloge	TSO	due to connected	50	
Garrintaggart	TSO	due to connected		50
Great Island 220Kv	TSO	due to connected		378
Great Island	DSO	connected	5	
Great Island	DSO	due to connected	12	
Kellis	TSO	due to connected	288	
Kellymount	TSO	due to connected		50
Kilkenny	DSO	connected	4	

Kilkenny	DSO	due to connected	93	
Kilkenny	TSO	due to connected	50	
Kilvinoge	TSO	due to connected		139
Lodgewood	TSO	due to connected	109	
Rosspile	TSO	connected	95	
Stratford	DSO	due to connected	1	
Tullabeg	TSO	connected	50	
Tullabeg	TSO	due to connected	135	
Waterford	DSO	connected	4	
Waterford	DSO	due to connected	6	
Waterford	DSO	connected		14
Waterford	DSO	connected		4
Wexford	DSO	connected	13	
Wexford	TSO	due to connected	101	
Wexford	DSO	connected		27
Wexford	DSO	connected		12
Total			1337	1851

Table 1-1 Wind and Solar Generation Summary (MW) in Area H2 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 H2 (MW)	1338	1338	1338	1338	1338
Installed Controllable Area H2 (MW)	1336	1336	1336	1336	1336
Available Controllable Area H2 (GWh)	1566	1566	1566	1566	1566

Table 1-2- Installed MW and Available GWh for Area H2 - 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 H2 (MW)	675	675	1853	1853	1853
Installed Controllable Area H2 (MW)	634	634	1812	1812	1812
Available Controllable Area H2 (GWh)	1793	1793	6529	6529	6529

Table 1-3 - Installed MW and Available GWh for Area H2 - 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 H2 identified constraint subgroups for solar and wind generation combining Area H2 and Area K. The subgroup nodes are given in Table 1-4. The constraints are shared on a pro-rata basis amongst the non-priority generators in the subgroup ahead of priority generators. The individual node level dispatch down is given in Section 2.

Subgroup	Nodes
H2 & K	Arklow
	Arklow 220 kV
	Ballybeg
	Ballyragget
	Ballywater
	Banoge
	Carlow
	Castledockrell
	Crane
	Crory
	Effernoge
	Garrintagart
	Great Island
	Great Island 220 kV
	Kellis
	Kellymount
	Kilkenny
	Kilvinoge
	Lodgewood
	Rosspile
	Tullabeg
	Waterford
	Wexford

Table 1-4 Area H2 generator nodes and their subgroups



Figure 1-2 Subgroup H2 & K (subgroups outlined by blue dashed line)

1.5 Area H2 - Summary Results

The Total Dispatch Down results for Area H2 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 H2 (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 H2 & K

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

Area H2 (H2 & K)	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	409	872	1336					
Installed Capacity (MW)	2030	409	872	1336	1336	1336			
Installed Capacity (MW)	FG						1336	1336	1336
Available Energy (GWh)	2028	480	1024	1568					
Available Energy (GWh)	2030	479	1023	1566	1566	1566			
Available Energy (GWh)	FG						1566	1566	1566
Generation (GWh)	2028	328	813	1086					
Generation (GWh)	2030	374	820	1100	932	1016			
Generation (GWh)	FG						1117	1039	1232
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	40 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 1-5 - Surplus, Curtailment and Constraint for Solar Non-priority in Area H2 (H2 & K)

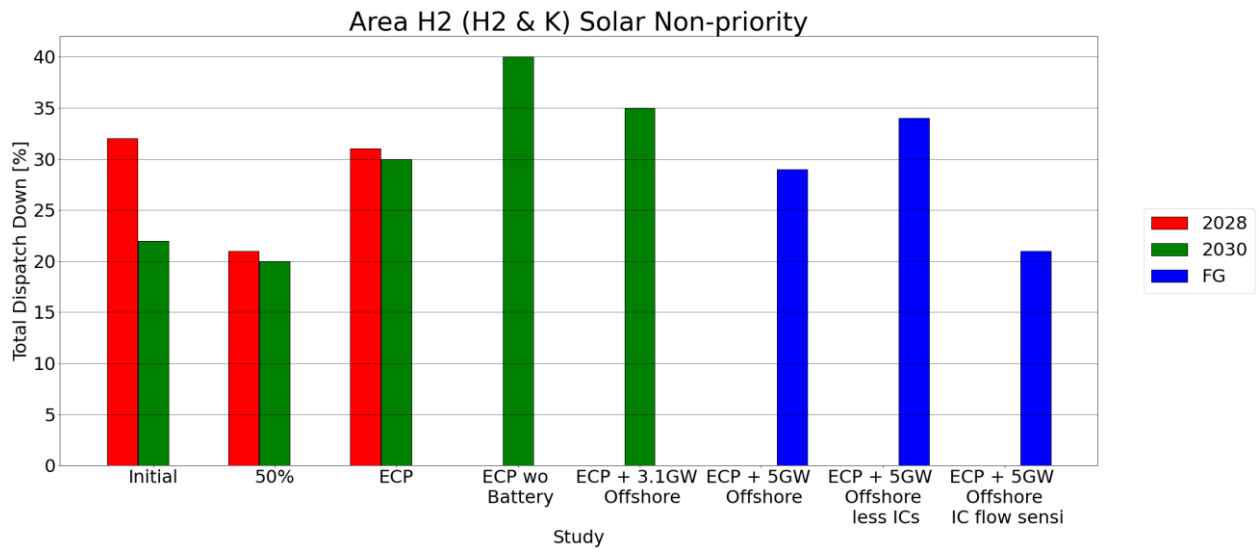


Figure 1-3 - Results Solar Non-priority Area H2 (H2 & K)

Area H2 (H2 & K)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	1336	
Installed Capacity (MW)	2030	1336	1336
Available Energy (GWh)	2028	1568	
Available Energy (GWh)	2030	1566	1566
Generation (GWh)	2028	1086	
Generation (GWh)	2030	1100	1016
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 1-6 - Surplus, Curtailement and Constraint for Solar Non-priority with Sensitivity in Area H2 (H2 & K)

1.5.2 Non - priority Wind Results for H2 & K

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

Area H2 (H2 & K)	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		172	344					
Installed Capacity (MW)	2030		172	344	344	344			
Installed Capacity (MW)	FG						1522	1522	1522
Available Energy (GWh)	2028		490	980					
Available Energy (GWh)	2030		487	974	974	974			
Available Energy (GWh)	FG						5711	5711	5711
Generation (GWh)	2028		313	633					
Generation (GWh)	2030		337	644	537	511			
Generation (GWh)	FG						3629	3415	4402
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	29 %	34 %	43 %			
Surplus (%)	FG						33 %	38 %	20 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		11 %	4 %					
Constraint (%)	2030		6 %	2 %	7 %	2 %			
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028		36 %	35 %					
Total Dispatch Down (%)	2030		31 %	34 %	45 %	48 %			
Total Dispatch Down (%)	FG						38 %	42 %	24 %

Table 1-7 - Surplus, Curtailment and Constraint for Wind Non-priority in Area H2 (H2 & K)

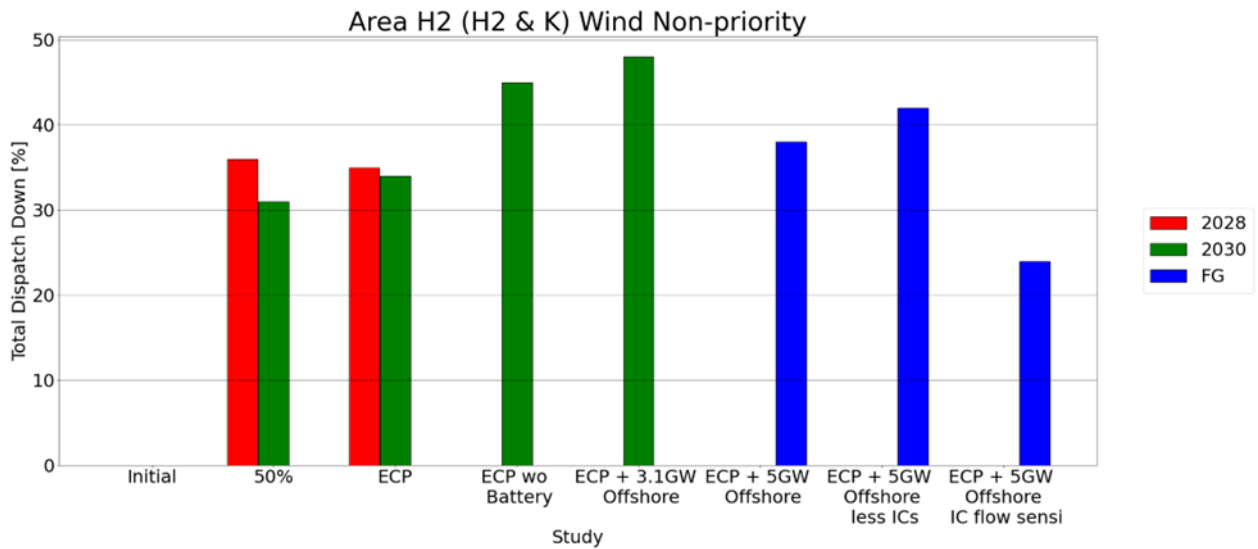


Figure 1-4 - Results Wind Non-priority Area H2 (H2 & K)

Area H2 (H2 & K)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	344	
Installed Capacity (MW)	2030	344	344
Available Energy (GWh)	2028	980	
Available Energy (GWh)	2030	974	974
Generation (GWh)	2028	649	
Generation (GWh)	2030	653	519
Surplus (%)	2028	26 %	
Surplus (%)	2030	29 %	43 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	33 %	47 %

Table 1-8 - Surplus, Curtailement and Constraint for Wind Non-priority with Sensitivity in Area H2 (H2 & K)

1.5.3 Priority Wind Results for H2 & K

The wind priority data is given in the following table.

Area H2 (H2 & K)	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	289	289	289					
Installed Capacity (MW)	2030	289	289	289	289	289			
Installed Capacity (MW)	FG						289	289	289
Available Energy (GWh)	2028	823	823	823					
Available Energy (GWh)	2030	818	818	818	818	818			
Available Energy (GWh)	FG						818	818	818
Generation (GWh)	2028	678	748	742					
Generation (GWh)	2030	765	770	768	747	757			
Generation (GWh)	FG						770	772	793
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 1-9 - Surplus, Curtailement and Constraint for Wind Priority in Area H2 (H2 & K)

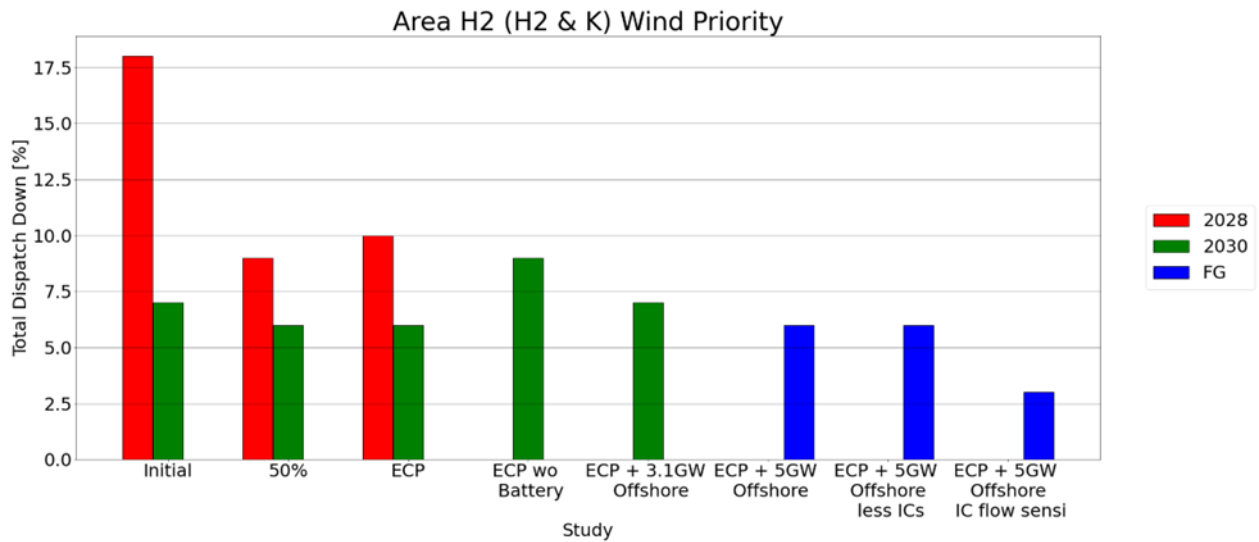


Figure 1-5 - Results Wind Priority Area H2 (H2 & K)

Area H2 (H2 & K)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	289	
Installed Capacity (MW)	2030	289	289
Available Energy (GWh)	2028	823	
Available Energy (GWh)	2030	818	818
Generation (GWh)	2028	721	
Generation (GWh)	2030	757	748
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

Table 1-10 - Surplus, Curtailment and Constraint for Wind Priority with Sensitivity in Area H2 (H2 & K)

2 Area H2 Node Results

This section presents results for 23 nodes in Area H2.

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 Arklow, the below table identified which are Grandfathering and Pro-rata, the entire rest of this document is structured in this manner.

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

2.1 Arklow



Figure 2-1 - Location of node Arklow

Generator	SO	Capacity	Type	Status
Arklow Bank (1)	DSO	25.2	wind priority	connected
Ballycumber (1)	DSO	18.0	wind priority	connected
Raheenleagh (1)	DSO	35.2	wind priority	connected
Knockadosan Solar (formerly Springfarm Wind Farm)	DSO	6.0	solar not priority	due to connected
Templeraíne East Solar Farm (Ballycooleen)	DSO	4.0	solar not priority	due to connected
Ballymanus Wind Farm	DSO	39.99	wind not priority	due to connected
Coolnagloose Community Solar Farm	DSO	0.85	solar not priority	due to connected
North Arklow Solar	TSO	47.0	solar not priority	due to connected
Coolboy Solar Farm	DSO	5.99	solar not priority	due to connected
Johnstown North PV	DSO	22.0	solar not priority	due to connected
Ballymoney PV	DSO	7.6	solar not priority	due to connected
Templemichael Solar Plus Storage Facility	TSO	30.0	solar not priority	due to connected
Ballymoney Solar ph2	DSO	9.4	solar not priority	due to connected

Table 2-1 Generation Included in Study for Node Arklow

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

Area H2	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	75	132					
Installed Capacity (MW)	2030	18	75	132	132	132			
Installed Capacity (MW)	FG						132	132	132
Available Energy (GWh)	2028	21	88	155					
Available Energy (GWh)	2030	21	88	155	155	155			
Available Energy (GWh)	FG						155	155	155
Generation (GWh)	2028	14	70	107					
Generation (GWh)	2030	16	70	109	92	100			
Generation (GWh)	FG						110	102	122
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

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

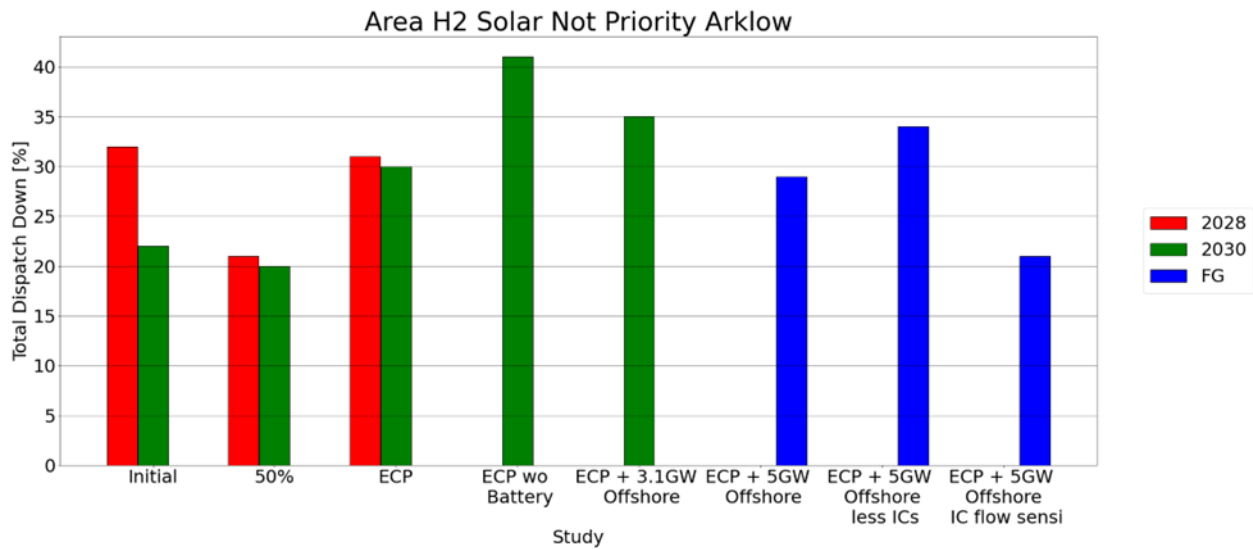


Figure 2-2 - Total Dispatch Down for Solar not priority for Node Arklow

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	132	
Installed Capacity (MW)	2030	132	132
Available Energy (GWh)	2028	155	
Available Energy (GWh)	2030	155	155
Generation (GWh)	2028	107	
Generation (GWh)	2030	109	100
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-3 Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Arklow

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		20	40					
Installed Capacity (MW)	2030		20	40	40	40			
Installed Capacity (MW)	FG						40	40	40
Available Energy (GWh)	2028		57	114					
Available Energy (GWh)	2030		57	113	113	113			
Available Energy (GWh)	FG						113	113	113
Generation (GWh)	2028		36	74					
Generation (GWh)	2030		39	75	62	59			
Generation (GWh)	FG						69	65	85
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	29 %	34 %	43 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		11 %	4 %					
Constraint (%)	2030		6 %	2 %	7 %	2 %			
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028		36 %	35 %					
Total Dispatch Down (%)	2030		31 %	34 %	45 %	48 %			
Total Dispatch Down (%)	FG						39 %	43 %	25 %

Table 2-4 Surplus, Curtailement and Constraint for Wind non-priority for Node Arklow

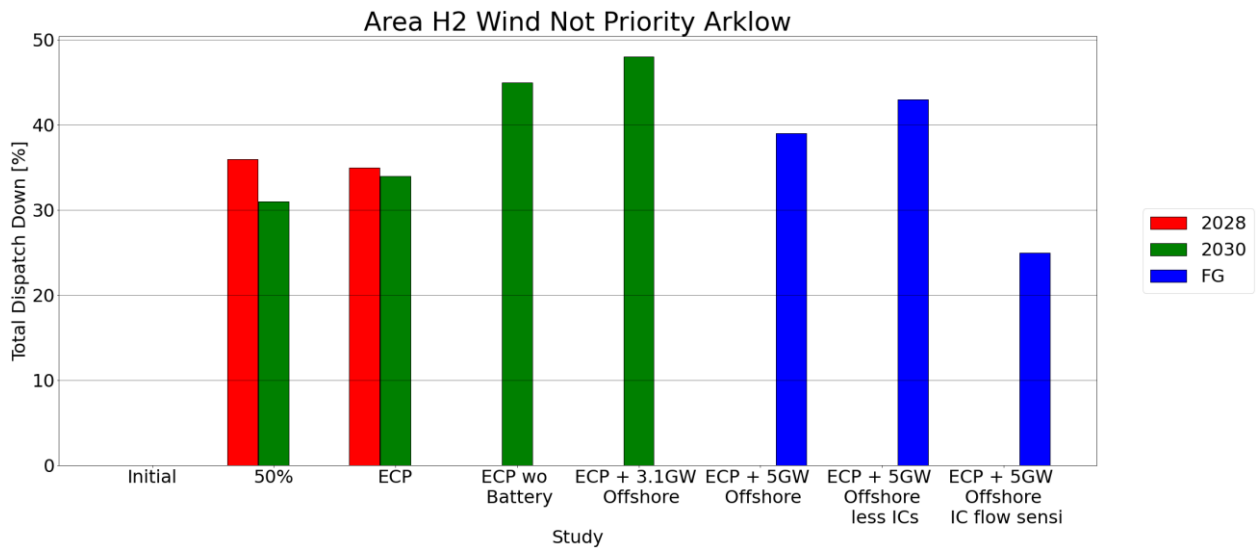


Figure 2-3- Total Dispatch Down for Wind not priority for Node Arklow

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	40	
Installed Capacity (MW)	2030	40	40
Available Energy (GWh)	2028	114	
Available Energy (GWh)	2030	113	113
Generation (GWh)	2028	75	
Generation (GWh)	2030	76	60
Surplus (%)	2028	26 %	
Surplus (%)	2030	29 %	43 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	33 %	47 %

Table 2-5 Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Arklow

The wind priority data is given in the following table.

Area H2	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	78	78	78					
Installed Capacity (MW)	2030	78	78	78	78	78			
Installed Capacity (MW)	FG						78	78	78
Available Energy (GWh)	2028	223	223	223					
Available Energy (GWh)	2030	222	222	222	222	222			
Available Energy (GWh)	FG						222	222	222
Generation (GWh)	2028	184	203	201					
Generation (GWh)	2030	207	209	208	202	205			
Generation (GWh)	FG						209	209	215
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-6 Surplus, Curtailement and Constraint for Wind priority for Node Arklow

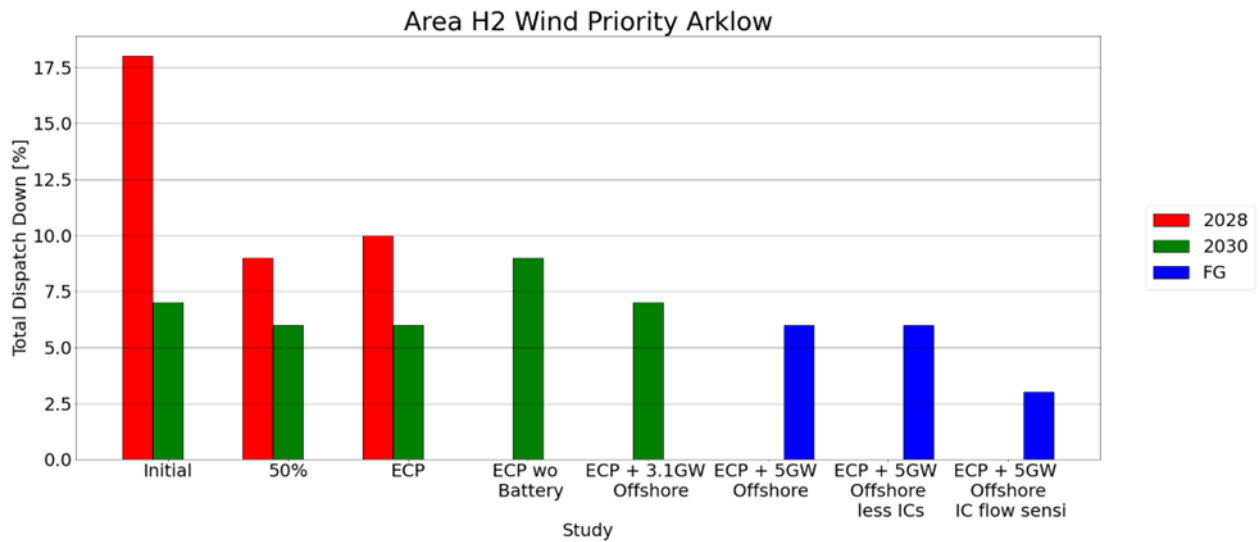


Figure 2-4 -Total Dispatch Down for Wind priority for Node Arklow

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	78	
Installed Capacity (MW)	2030	78	78
Available Energy (GWh)	2028	223	
Available Energy (GWh)	2030	222	222
Generation (GWh)	2028	196	
Generation (GWh)	2030	205	203
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

Table 2-7 Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Arklow

2.2 Arklow 220kV



Figure 2-5- Location of node Arklow 220kV

Generator	SO	Capacity	Type	Status
Arklow Bank Phase 2 A	TSO	400.0	wind not priority	due to connected
Arklow Bank Phase 2 B	TSO	400.0	wind not priority	due to connected

Table 2-8 Generation Included in Study for Node Arklow 220kV

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028								
Installed Capacity (MW)	2030								
Installed Capacity (MW)	FG						800	800	800
Available Energy (GWh)	2028								
Available Energy (GWh)	2030								
Available Energy (GWh)	FG						3217	3217	3217
Generation (GWh)	2028								
Generation (GWh)	2030								
Generation (GWh)	FG						2058	1941	2492
Surplus (%)	2028								
Surplus (%)	2030								
Surplus (%)	FG						31 %	36 %	19 %
Curtailment (%)	2028								
Curtailment (%)	2030								
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030								
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030								
Total Dispatch Down (%)	FG						36 %	40 %	23 %

Table 2-9 Surplus, Curtailment and Constraint for Wind non-priority for Node Arklow 220kV

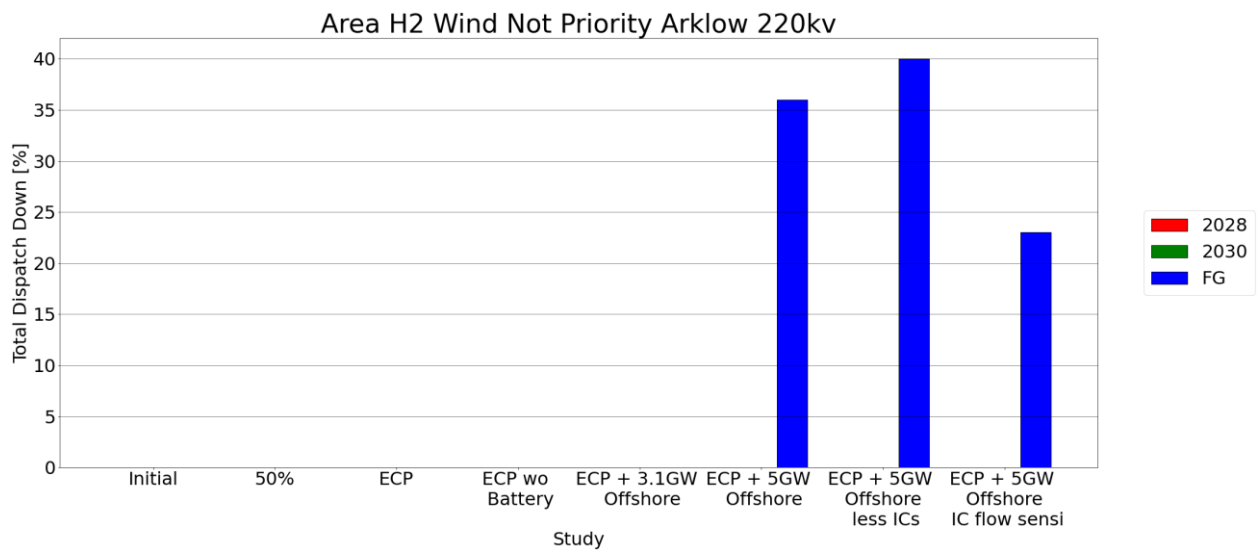


Figure 2-6 - Total Dispatch Down for Wind not priority for Node Arklow 220kV

2.3 Ballybeg

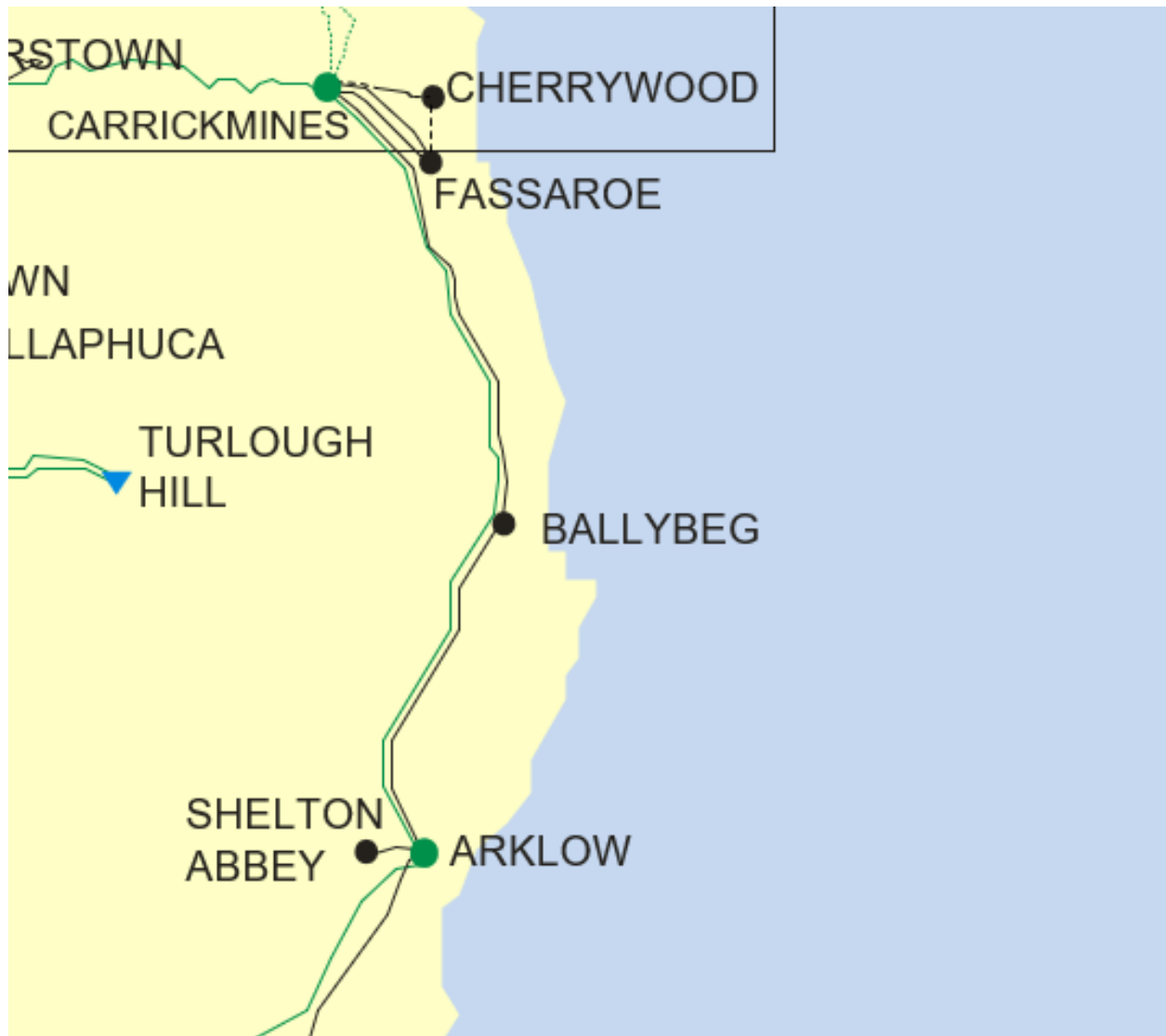


Figure 2-7- Location of node Ballybeg

Generator	SO	Capacity	Type	Status
Millvale PV	DSO	8.0	solar not priority	connected
Ballinacloyh Solar Farm	DSO	8.5	solar not priority	due to connected

Table 2-10- Generation Included in Study for Node Ballybeg

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	8	12	16					
Installed Capacity (MW)	2030	8	12	16	16	16			
Installed Capacity (MW)	FG						16	16	16
Available Energy (GWh)	2028	10	16	21					
Available Energy (GWh)	2030	10	16	21	21	21			
Available Energy (GWh)	FG						21	21	21
Generation (GWh)	2028	7	13	15					
Generation (GWh)	2030	8	13	15	13	14			
Generation (GWh)	FG						15	14	17
Surplus (%)	2028	7 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	31 %	20 %	30 %					
Total Dispatch Down (%)	2030	22 %	20 %	29 %	40 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	21 %

Table 2-11- Surplus, Curtailement and Constraint for Solar non-priority for Node Ballybeg

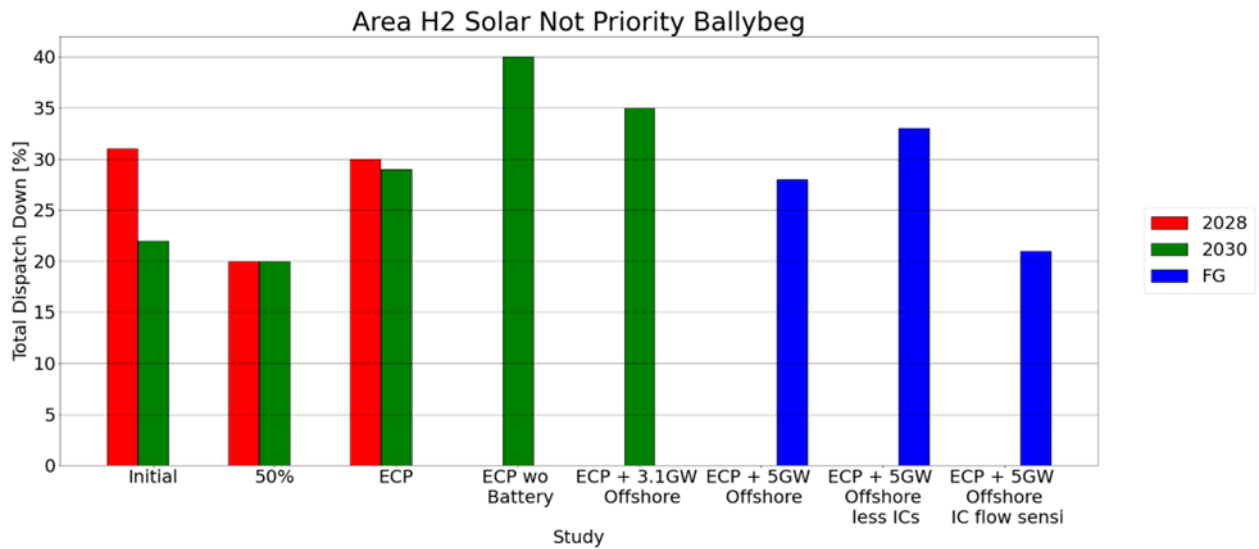


Figure 2-8 - Total Dispatch Down for Solar not priority for Node Ballybeg

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	16	
Installed Capacity (MW)	2030	16	16
Available Energy (GWh)	2028	21	
Available Energy (GWh)	2030	21	21
Generation (GWh)	2028	15	
Generation (GWh)	2030	15	14
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	30 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-12- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Ballybeg

2.4 Ballyragget

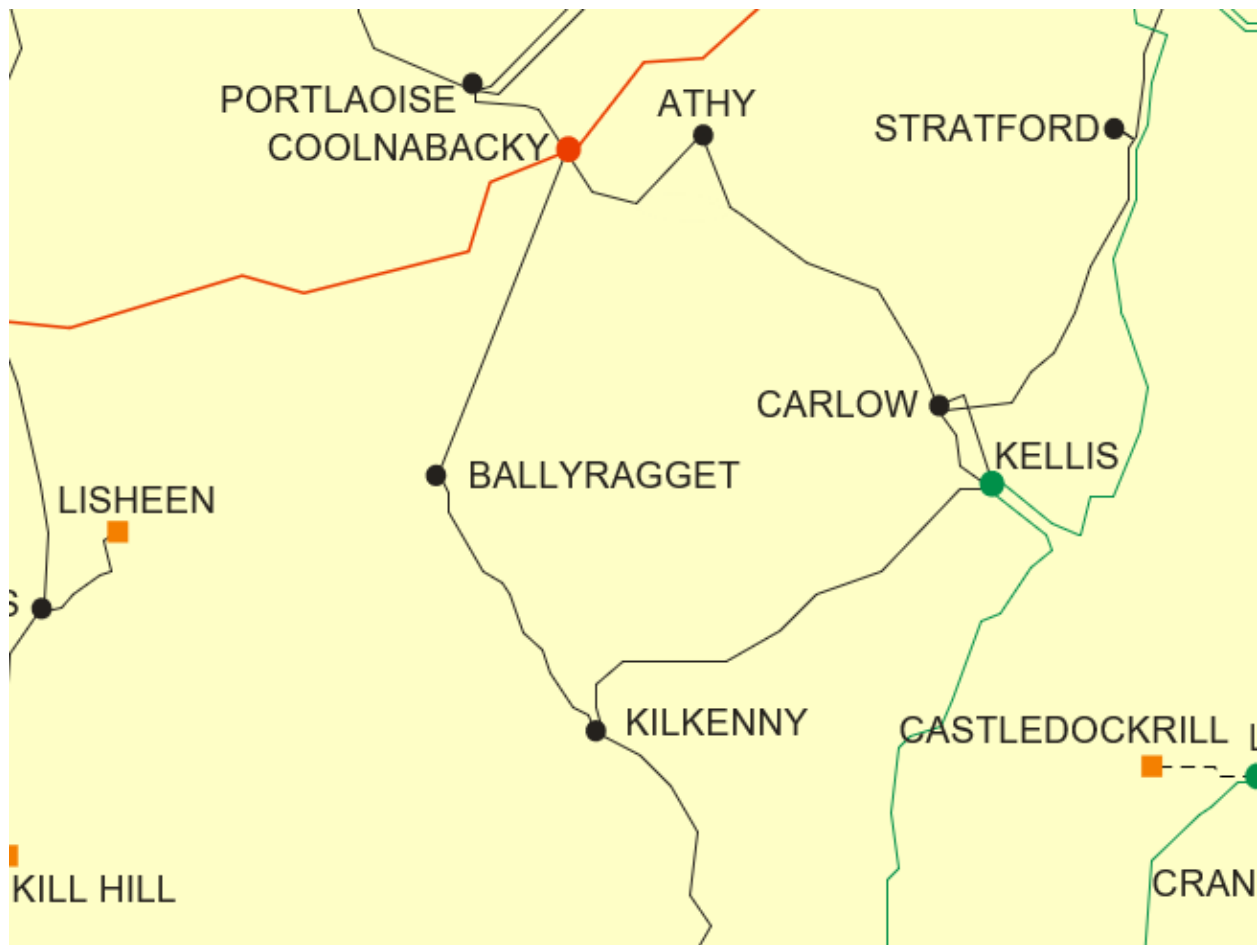


Figure 2-9 - Location of node Ballyragget

Generator	SO	Capacity	Type	Status
Lisdowney (1)	DSO	9.2	wind priority	connected
Loan PV	DSO	4.99	solar not priority	due to connected
Parksgrove solar	DSO	35.0	solar not priority	due to connected
Farranrory Wind Farm	DSO	45.0	wind not priority	due to connected

Figure 2-10 Generation Included in Study for Node Ballyragget

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		20	40					
Installed Capacity (MW)	2030		20	40	40	40			
Installed Capacity (MW)	FG						40	40	40
Available Energy (GWh)	2028		23	47					
Available Energy (GWh)	2030		23	47	47	47			
Available Energy (GWh)	FG						47	47	47
Generation (GWh)	2028		19	32					
Generation (GWh)	2030		19	33	28	30			
Generation (GWh)	FG						33	31	37
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	2 %					
Constraint (%)	2030		2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-13 - Surplus, Curtailment and Constraint for Solar non-priority f
Area H2 Solar Not Priority Ballyragget

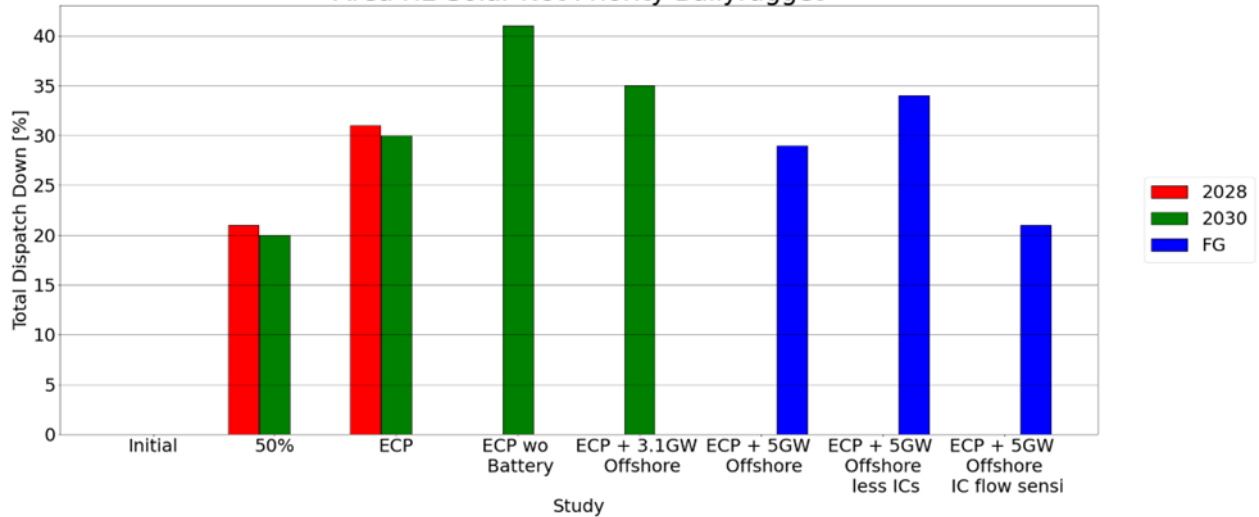


Figure 2-11- Total Dispatch Down for Solar not priority for Node Ballyragget

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

	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	40	
Installed Capacity (MW)	2030	40	40
Available Energy (GWh)	2028	47	
Available Energy (GWh)	2030	47	47
Generation (GWh)	2028	32	
Generation (GWh)	2030	33	30
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

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

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

Area H2	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	45					
Installed Capacity (MW)	2030		22	45	45	45			
Installed Capacity (MW)	FG						45	45	45
Available Energy (GWh)	2028		64	128					
Available Energy (GWh)	2030		64	127	127	127			
Available Energy (GWh)	FG						127	127	127
Generation (GWh)	2028		41	83					
Generation (GWh)	2030		44	84	70	67			
Generation (GWh)	FG						78	73	96
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	29 %	34 %	43 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		11 %	4 %					
Constraint (%)	2030		6 %	2 %	7 %	2 %			
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028		36 %	35 %					
Total Dispatch Down (%)	2030		31 %	34 %	45 %	48 %			
Total Dispatch Down (%)	FG						39 %	43 %	25 %

Table 2-15 Surplus, Curtailement and Constraint for Wind non-priority for Node Ballyragget

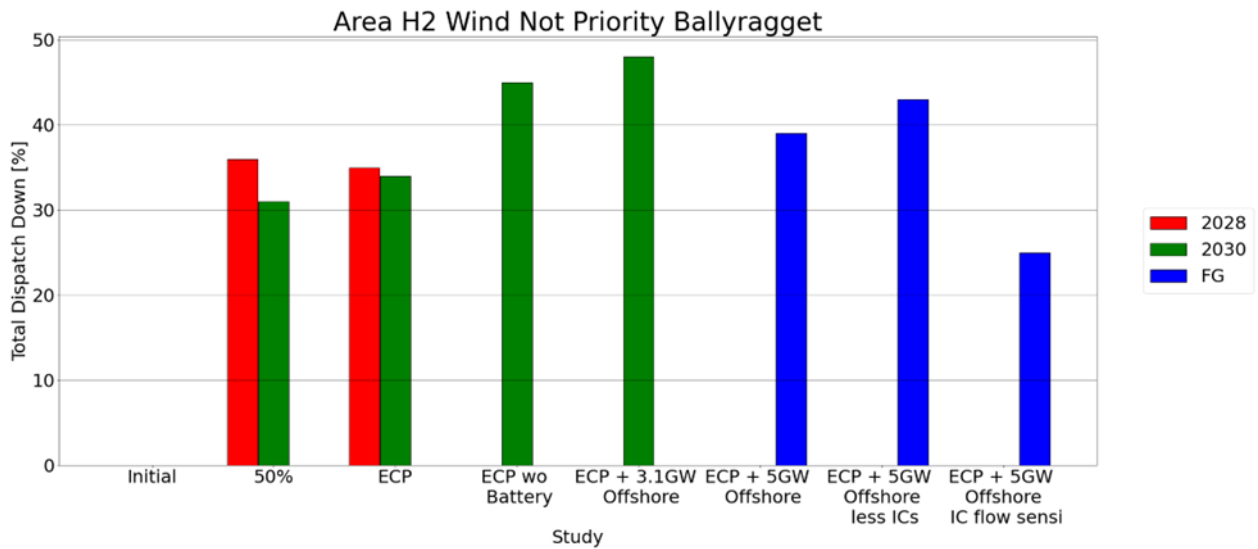


Figure 2-12- Total Dispatch Down for Wind not priority for Node Ballyragget

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	45	
Installed Capacity (MW)	2030	45	45
Available Energy (GWh)	2028	128	
Available Energy (GWh)	2030	127	127
Generation (GWh)	2028	85	
Generation (GWh)	2030	85	68
Surplus (%)	2028	26 %	
Surplus (%)	2030	29 %	43 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	33 %	47 %

Table 2-16 - Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Ballyragget

The wind priority data is given in the following table.

Area H2	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	26	26	26					
Available Energy (GWh)	2030	26	26	26	26	26			
Available Energy (GWh)	FG						26	26	26
Generation (GWh)	2028	22	24	24					
Generation (GWh)	2030	24	24	24	24	24			
Generation (GWh)	FG						24	25	25
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-17 - Surplus, Curtailement and Constraint for Wind priority for Node Ballyragget

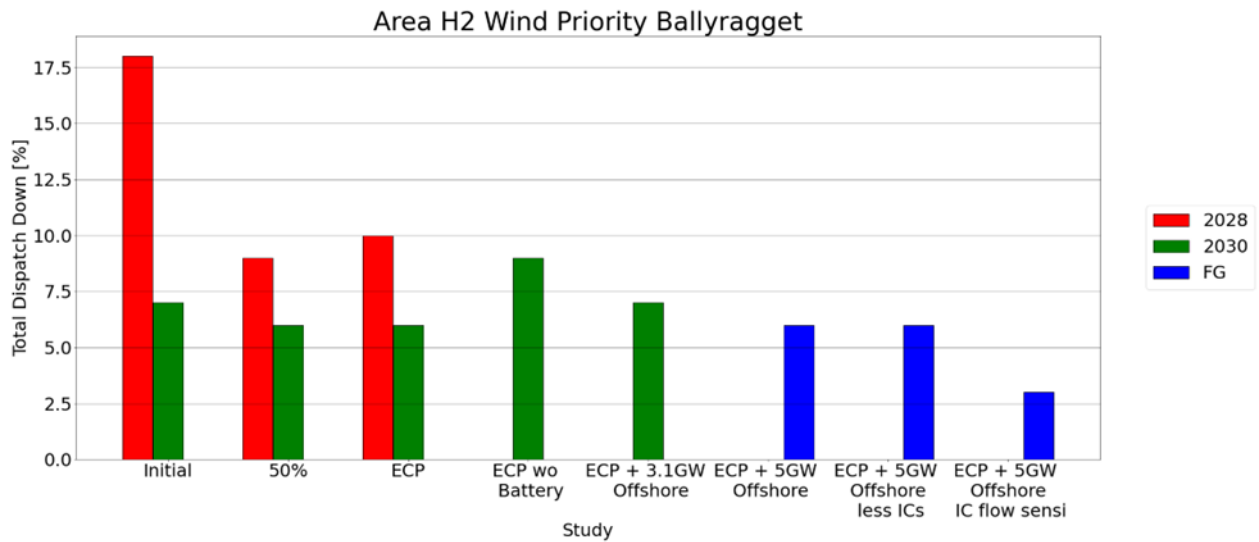


Figure 2-13 - Total Dispatch Down for Wind priority for Node Ballyragget

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	9	
Installed Capacity (MW)	2030	9	9
Available Energy (GWh)	2028	26	
Available Energy (GWh)	2030	26	26
Generation (GWh)	2028	23	
Generation (GWh)	2030	24	24
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

Table 2-18- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Ballyragget

2.5 Ballywater



Figure 2-14 - Location of node Ballywater

Generator	SO	Capacity	Type	Status
Ballywater (1)	TSO	31.5	wind priority	connected
Ballywater (2)	TSO	10.5	wind priority	connected

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

The wind priority data is given in the following table.

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	42	42	42					
Installed Capacity (MW)	2030	42	42	42	42	42			
Installed Capacity (MW)	FG						42	42	42
Available Energy (GWh)	2028	120	120	120					
Available Energy (GWh)	2030	119	119	119	119	119			
Available Energy (GWh)	FG						119	119	119
Generation (GWh)	2028	98	109	108					
Generation (GWh)	2030	111	112	111	108	110			
Generation (GWh)	FG						112	112	115
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-20- Surplus, Curtailment and Constraint for Wind priority for Node Ballywater

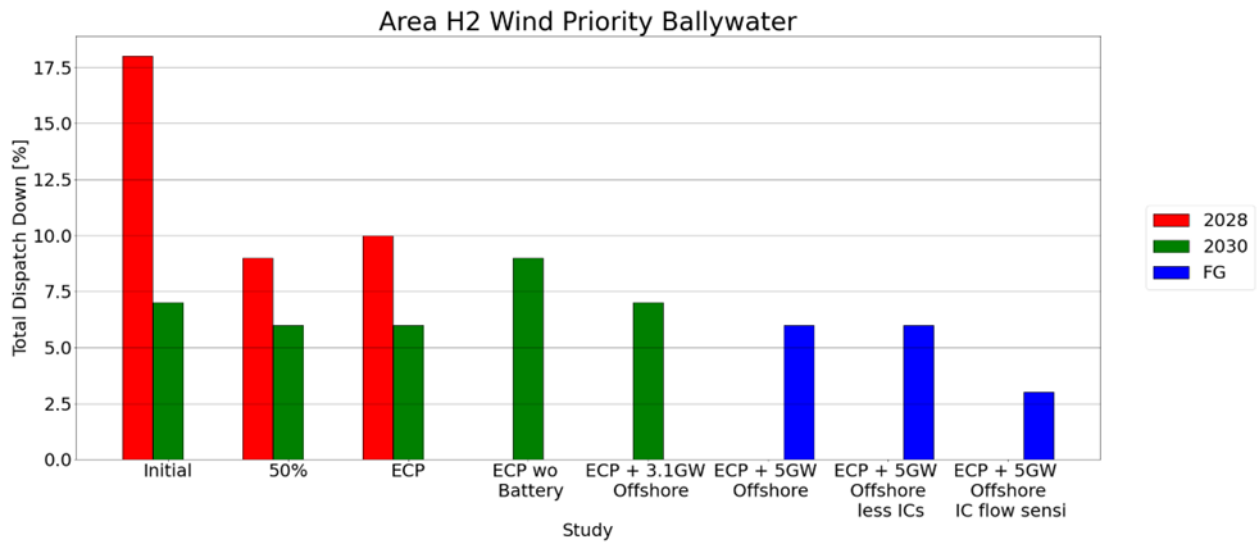


Figure 2-15 - Total Dispatch Down for Wind priority for Node Ballywater

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	42	
Installed Capacity (MW)	2030	42	42
Available Energy (GWh)	2028	120	
Available Energy (GWh)	2030	119	119
Generation (GWh)	2028	105	
Generation (GWh)	2030	110	109
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

Table 2-21 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Ballywater

2.6 Banoge



Figure 2-16 - Location of node Banoge

Generator	SO	Capacity	Type	Status
Courtown Solar Farm (previously Coolnastudd)	DSO	4.0	solar not priority	connected
Gorey Solar	DSO	4.0	solar not priority	connected

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

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	8	8	8					
Installed Capacity (MW)	2030	8	8	8	8	8			
Installed Capacity (MW)	FG						8	8	8
Available Energy (GWh)	2028	9	9	9					
Available Energy (GWh)	2030	9	9	9	9	9			
Available Energy (GWh)	FG						9	9	9
Generation (GWh)	2028	6	7	6					
Generation (GWh)	2030	7	8	7	6	6			
Generation (GWh)	FG						7	6	7
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	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-23 - Surplus, Curtailment and Constraint for Solar non-priority for Node Banoge

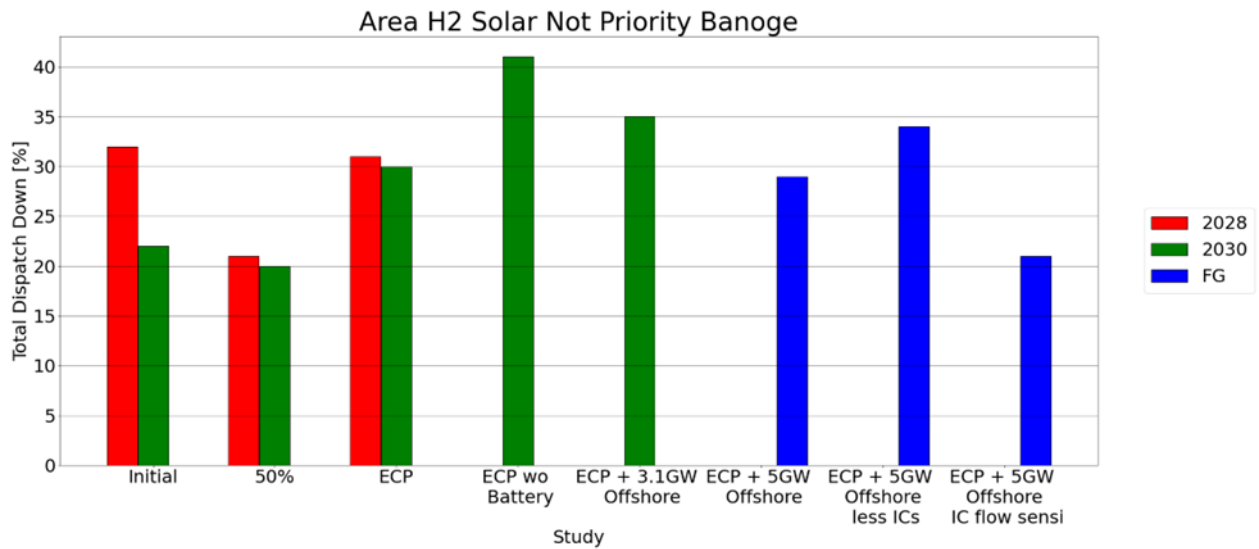


Figure 2-17 - Total Dispatch Down for Solar not priority for Node Banoge

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	8	
Installed Capacity (MW)	2030	8	8
Available Energy (GWh)	2028	9	
Available Energy (GWh)	2030	9	9
Generation (GWh)	2028	6	
Generation (GWh)	2030	7	6
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-24 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Banoge

2.7 Carlow

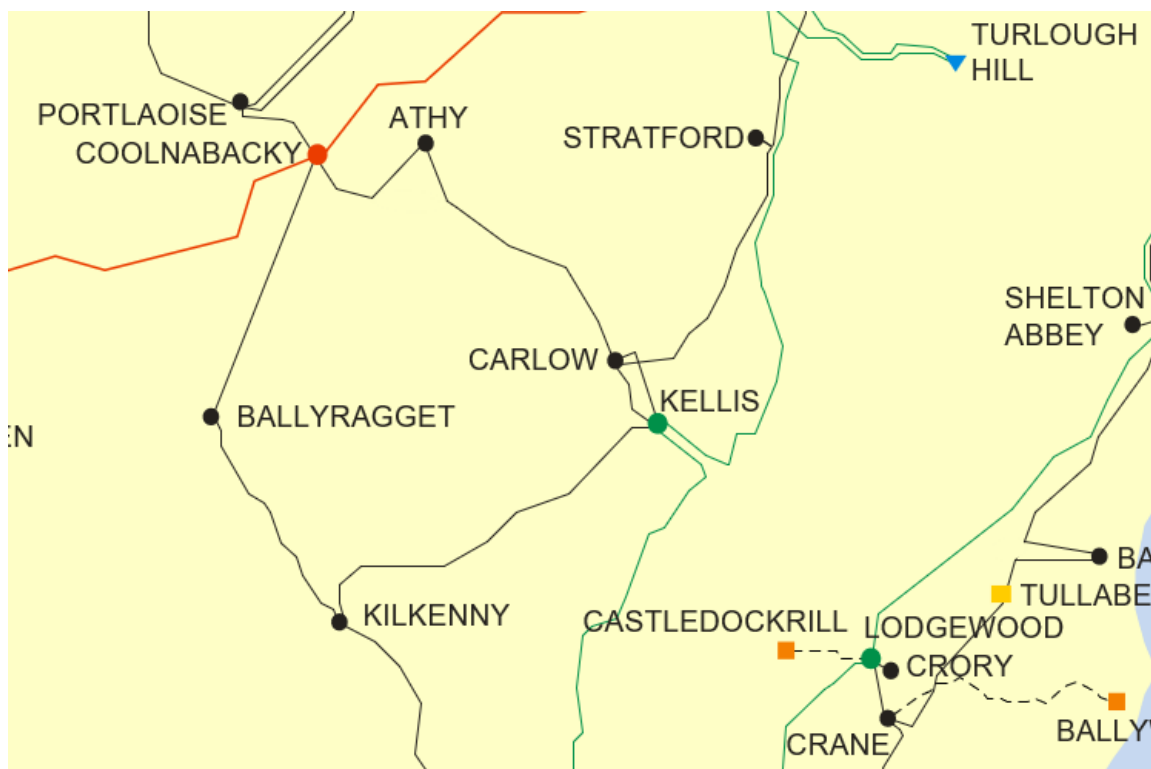


Figure 2-18- Location of node Carlow

Generator	SO	Capacity	Type	Status
Cronelea Upper (1)	DSO	2.55	wind uncontrolled	connected
Cronelea (1)	DSO	4.99	wind priority	connected
Gortahile (1)	DSO	21.0	wind priority	connected
Cronelea (2)	DSO	4.5	wind priority	connected
Cronelea Upper (2)	DSO	1.7	wind uncontrolled	connected
Bilboa (1)	DSO	15.0	wind not priority	due to connected
Kilcarrig Solar PV Farm	DSO	4.0	solar not priority	due to connected
Bilboa Wind farm Ext	DSO	6.0	wind not priority	due to connected
Coppenagh solar	DSO	4.6	solar not priority	due to connected
Coppenagh Solar Park Extension	DSO	4.7	solar not priority	due to connected
Friarstown Solar Farm	TSO	50.0	solar not priority	due to connected
JOHNSTOWN SOLAR PARK	DSO	9.99	solar not priority	due to connected
Coppenagh Solar ph3	DSO	20.0	solar not priority	due to connected

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

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

Area H2	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		47	93					
Installed Capacity (MW)	2030		47	93	93	93			
Installed Capacity (MW)	FG						93	93	93
Available Energy (GWh)	2028		55	109					
Available Energy (GWh)	2030		55	109	109	109			
Available Energy (GWh)	FG						109	109	109
Generation (GWh)	2028		43	76					
Generation (GWh)	2030		44	77	65	71			
Generation (GWh)	FG						78	72	86
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	2 %					
Constraint (%)	2030		2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-26 - Surplus, Curtailment and Constraint for Solar non-priority for Node Carlow

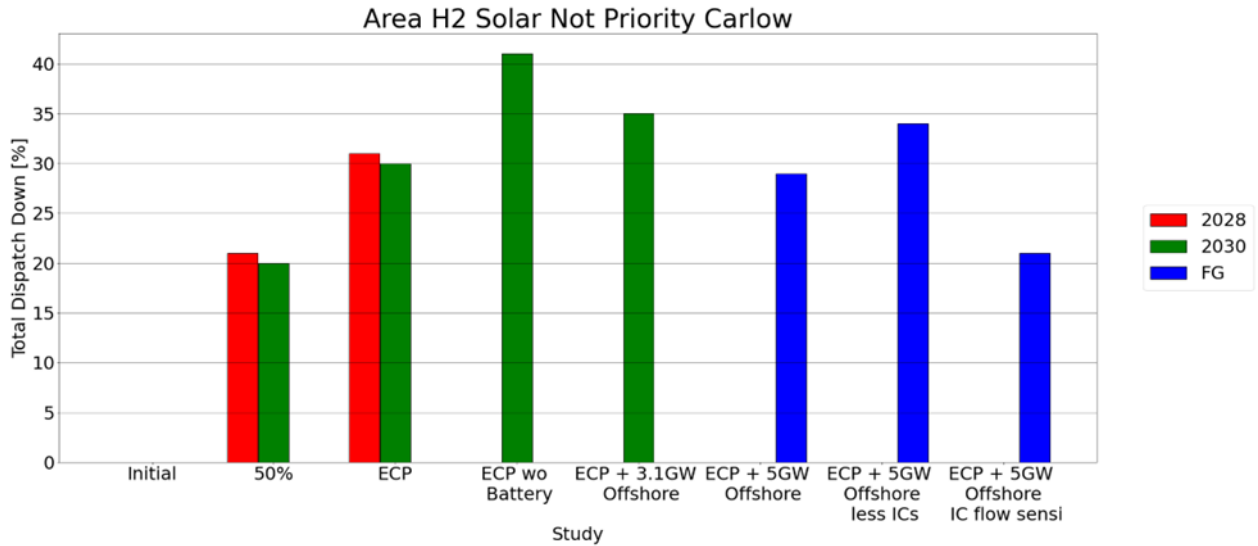


Figure 2-19 - Total Dispatch Down for Solar not priority for Node Carlow

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	93	
Installed Capacity (MW)	2030	93	93
Available Energy (GWh)	2028	109	
Available Energy (GWh)	2030	109	109
Generation (GWh)	2028	76	
Generation (GWh)	2030	77	71
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

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

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

Area H2	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		10	21					
Installed Capacity (MW)	2030		10	21	21	21			
Installed Capacity (MW)	FG						21	21	21
Available Energy (GWh)	2028		30	60					
Available Energy (GWh)	2030		30	59	59	59			
Available Energy (GWh)	FG						59	59	59
Generation (GWh)	2028		19	39					
Generation (GWh)	2030		21	39	33	31			
Generation (GWh)	FG						36	34	45
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	29 %	34 %	43 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		11 %	4 %					
Constraint (%)	2030		6 %	2 %	7 %	2 %			
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028		36 %	35 %					
Total Dispatch Down (%)	2030		31 %	34 %	45 %	48 %			
Total Dispatch Down (%)	FG						39 %	43 %	25 %

Table 2-28- Surplus, Curtailment and Constraint for Wind non-priority for Node Carlow

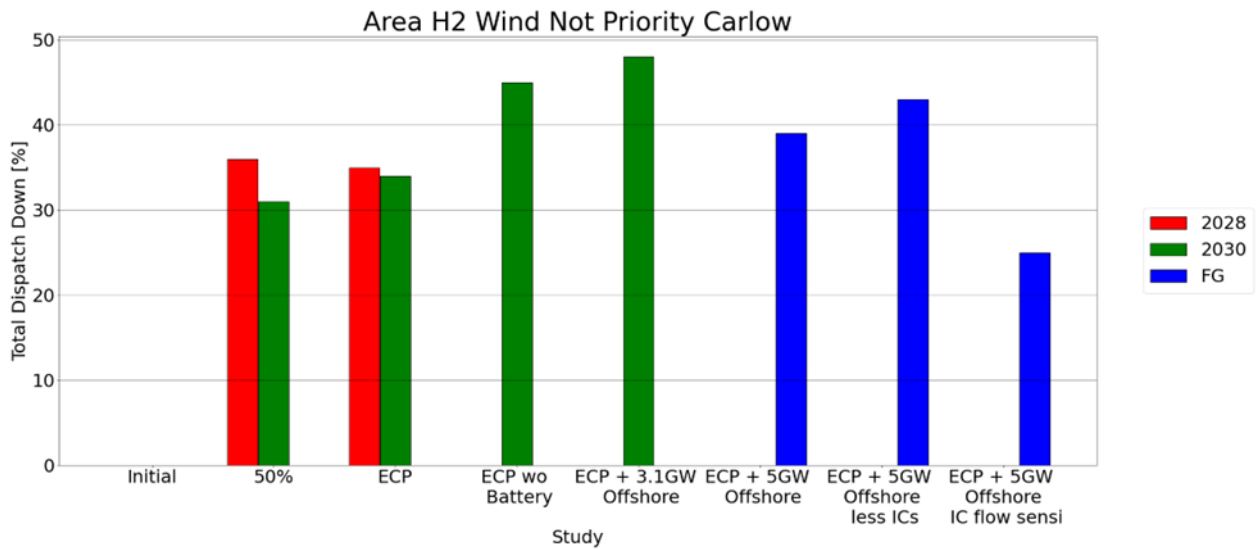


Figure 2-20- Total Dispatch Down for Wind not priority for Node Carlow

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	21	
Installed Capacity (MW)	2030	21	21
Available Energy (GWh)	2028	60	
Available Energy (GWh)	2030	59	59
Generation (GWh)	2028	40	
Generation (GWh)	2030	40	32
Surplus (%)	2028	26 %	
Surplus (%)	2030	29 %	43 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	33 %	47 %

Table 2-29- Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Carlow

The wind priority data is given in the following table.

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	30	30	30					
Installed Capacity (MW)	2030	30	30	30	30	30			
Installed Capacity (MW)	FG						30	30	30
Available Energy (GWh)	2028	87	87	87					
Available Energy (GWh)	2030	86	86	86	86	86			
Available Energy (GWh)	FG						86	86	86
Generation (GWh)	2028	71	79	78					
Generation (GWh)	2030	81	81	81	79	80			
Generation (GWh)	FG						81	81	84
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

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

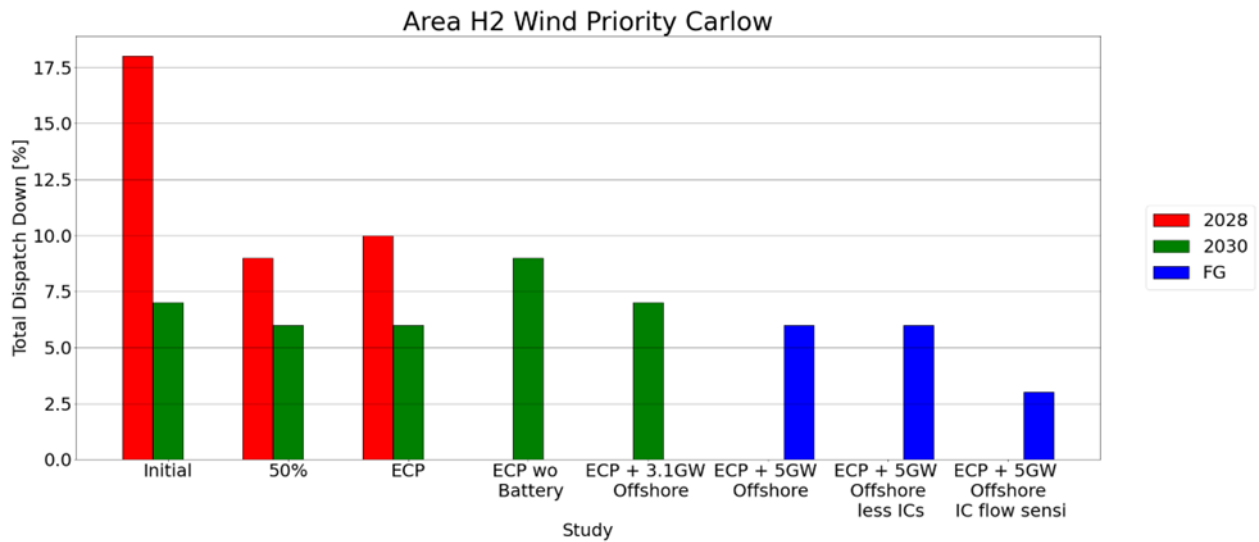


Figure 2-21- Total Dispatch Down for Wind priority for Node Carlow

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	30	
Installed Capacity (MW)	2030	30	30
Available Energy (GWh)	2028	87	
Available Energy (GWh)	2030	86	86
Generation (GWh)	2028	76	
Generation (GWh)	2030	80	79
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

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

2.8 Castledockrell

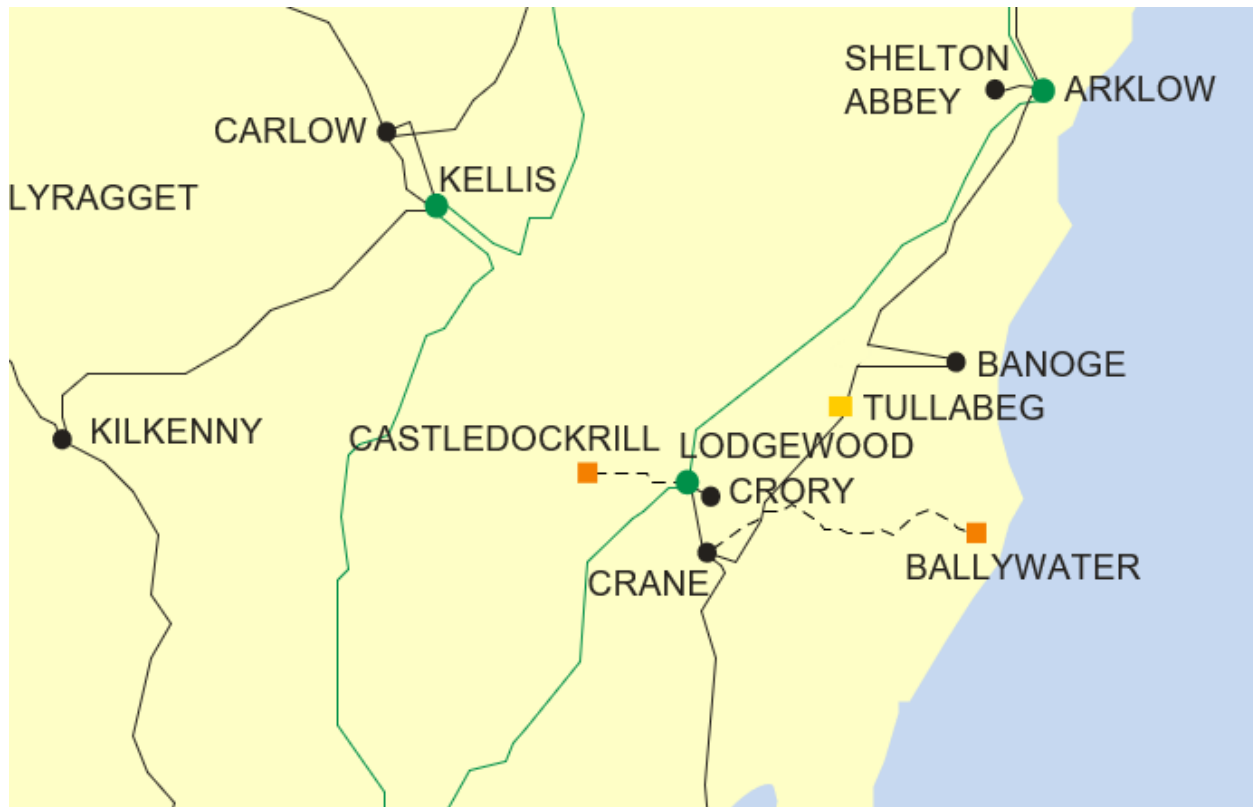


Figure 2-22- Location of node Castledockrell

Generator	SO	Capacity	Type	Status
Castledockrell (3)	TSO	3.3	wind priority	connected
Castledockrell (4)	TSO	16.1	wind priority	connected
Castledockrell (1)	TSO	20.0	wind priority	connected
Castledockrell (2)	TSO	2.0	wind priority	connected

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

The wind priority data is given in the following table.

Area H2	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	41	41	41					
Installed Capacity (MW)	2030	41	41	41	41	41			
Installed Capacity (MW)	FG						41	41	41
Available Energy (GWh)	2028	118	118	118					
Available Energy (GWh)	2030	117	117	117	117	117			
Available Energy (GWh)	FG						117	117	117
Generation (GWh)	2028	97	107	106					
Generation (GWh)	2030	109	110	110	107	108			
Generation (GWh)	FG						110	110	114
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

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

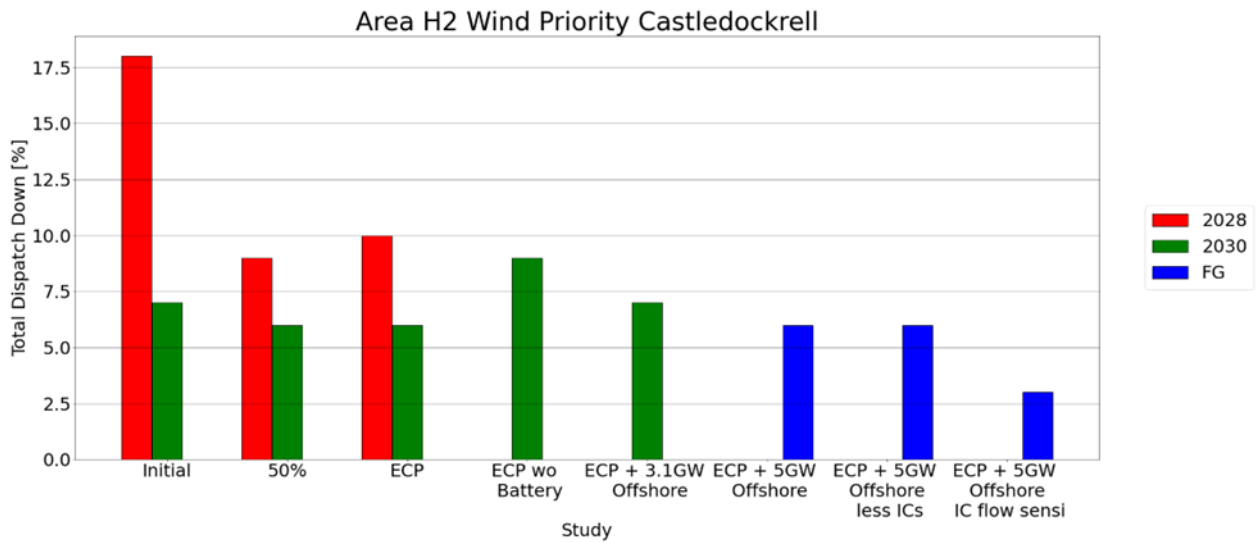


Figure 2-23- Total Dispatch Down for Wind priority for Node Castledockrell

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	41	
Installed Capacity (MW)	2030	41	41
Available Energy (GWh)	2028	118	
Available Energy (GWh)	2030	117	117
Generation (GWh)	2028	103	
Generation (GWh)	2030	108	107
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

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

2.9 Crane

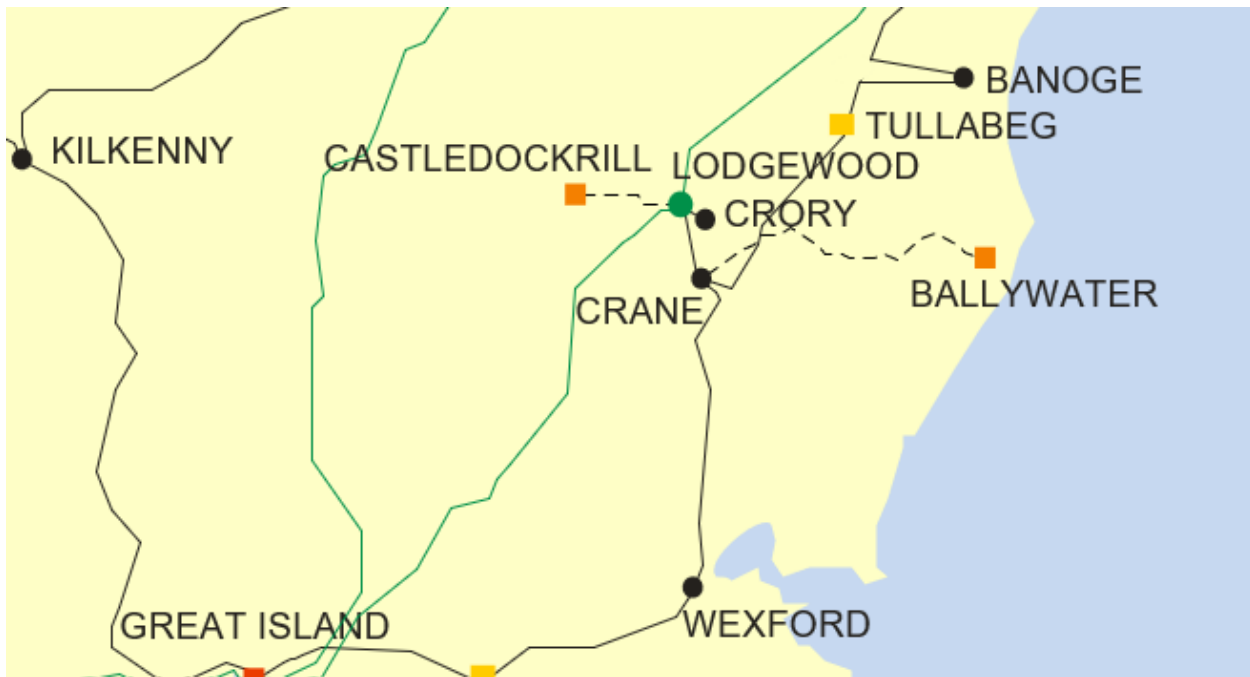


Figure 2-24- Location of node Crane

Generator	SO	Capacity	Type	Status
Greenoge (1)	DSO	4.99	wind uncontrolled	connected
Kilbrinish (1)	DSO	2.5	wind priority	connected
Macallian Solar	DSO	9.0	solar not priority	connected
Monart Spa Ground Mount 3	DSO	1.3	solar not priority	due to connect

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

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

Area H2	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	10	10					
Installed Capacity (MW)	2030	9	10	10	10	10			
Installed Capacity (MW)	FG						10	10	10
Available Energy (GWh)	2028	11	11	12					
Available Energy (GWh)	2030	11	11	12	12	12			
Available Energy (GWh)	FG						12	12	12
Generation (GWh)	2028	7	9	8					
Generation (GWh)	2030	8	9	8	7	8			
Generation (GWh)	FG						9	8	9
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-36- Surplus, Curtailement and Constraint for Solar non-priority for Node Crane

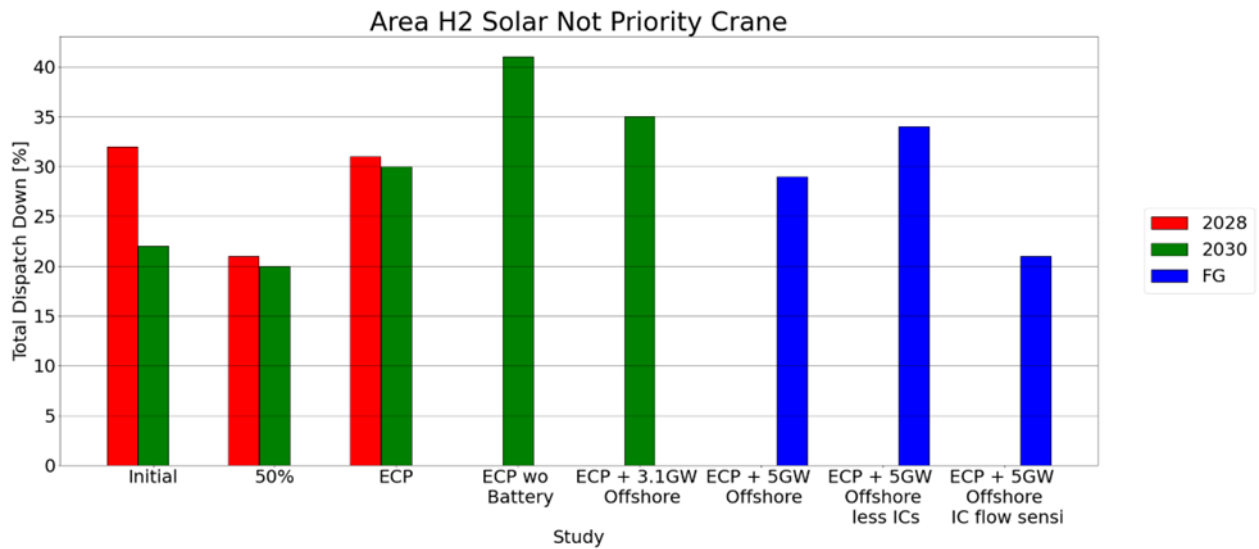


Figure 2-25- Total Dispatch Down for Solar not priority for Node Crane

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	10	
Installed Capacity (MW)	2030	10	10
Available Energy (GWh)	2028	12	
Available Energy (GWh)	2030	12	12
Generation (GWh)	2028	8	
Generation (GWh)	2030	8	8
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-37- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Crane

The wind priority data is given in the following table.

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	2	2	2					
Installed Capacity (MW)	2030	2	2	2	2	2			
Installed Capacity (MW)	FG						2	2	2
Available Energy (GWh)	2028	7	7	7					
Available Energy (GWh)	2030	7	7	7	7	7			
Available Energy (GWh)	FG						7	7	7
Generation (GWh)	2028	6	6	6					
Generation (GWh)	2030	7	7	7	6	7			
Generation (GWh)	FG						7	7	7
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	9 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailment (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

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

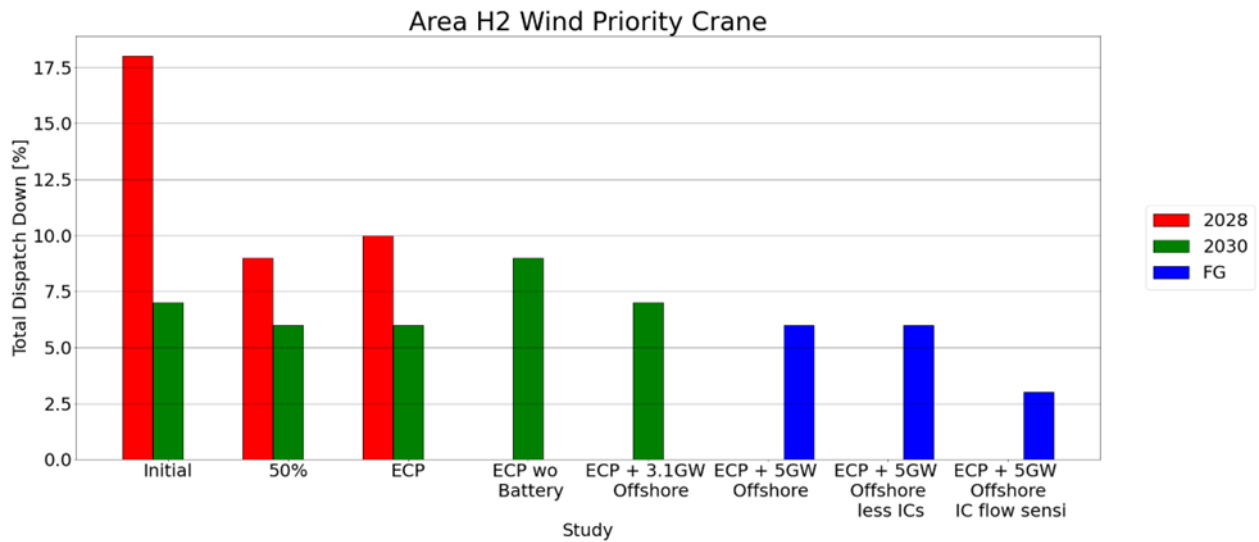


Figure 2-26- Total Dispatch Down for Wind priority for Node Crane

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	2	
Installed Capacity (MW)	2030	2	2
Available Energy (GWh)	2028	7	
Available Energy (GWh)	2030	7	7
Generation (GWh)	2028	6	
Generation (GWh)	2030	7	6
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

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

2.10 Crory



Figure 2-27- Location of node Crory

Generator	SO	Capacity	Type	Status
Knocknalour (1)	DSO	5.0	wind priority	connected
Ballycadden (1)	DSO	14.45	wind priority	connected
Ballyduff (1)	DSO	4.0	wind uncontrolled	connected
Ballynancoran (1)	DSO	4.0	wind uncontrolled	connected
Gibbet Hill (1)	DSO	14.8	wind priority	connected
Ballaman formerly (Kennystown) (1)	DSO	3.6	wind uncontrolled	connected
Knocknalour (2)	DSO	3.95	wind uncontrolled	connected
Ballycadden (2)	DSO	9.762	wind priority	connected
The Dell Solar	DSO	20.0	solar not priority	due to connected

Table 2-40- Generation Included in Study for Node Crory

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	20	20	20					
Installed Capacity (MW)	2030	20	20	20	20	20			
Installed Capacity (MW)	FG						20	20	20
Available Energy (GWh)	2028	23	23	23					
Available Energy (GWh)	2030	23	23	23	23	23			
Available Energy (GWh)	FG						23	23	23
Generation (GWh)	2028	16	19	16					
Generation (GWh)	2030	18	19	16	14	15			
Generation (GWh)	FG						17	16	18
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-41- Surplus, Curtailment and Constraint for Solar non-priority for Node Crory

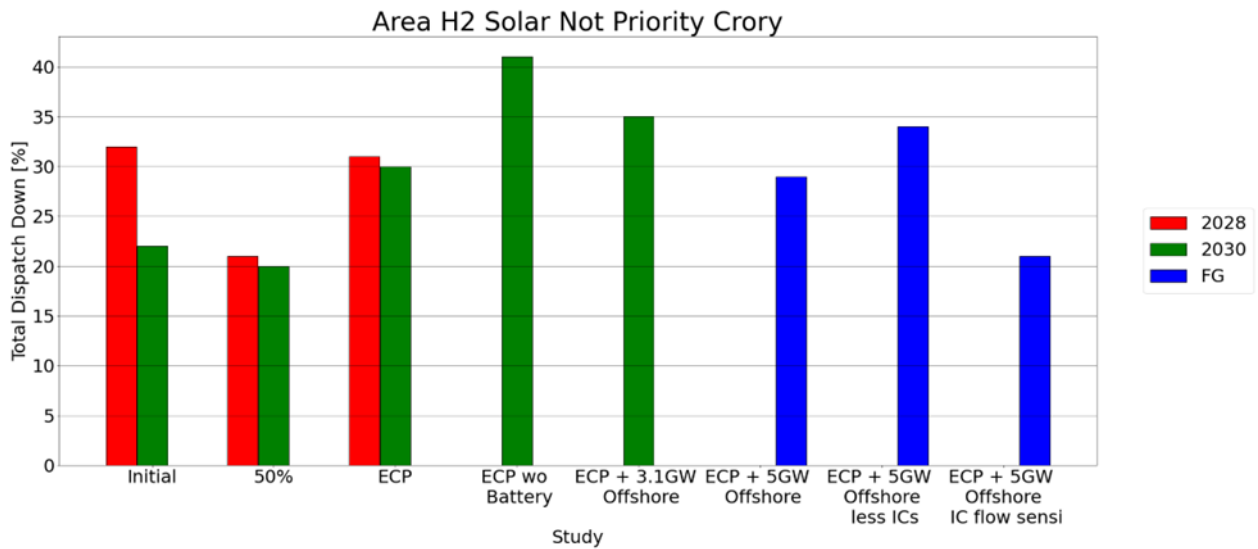


Figure 2-28- Total Dispatch Down for Solar not priority for Node Crory

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	20	
Installed Capacity (MW)	2030	20	20
Available Energy (GWh)	2028	23	
Available Energy (GWh)	2030	23	23
Generation (GWh)	2028	16	
Generation (GWh)	2030	16	15
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-42- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Crory

The wind priority data is given in the following table.

Area H2	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	44	44	44					
Installed Capacity (MW)	2030	44	44	44	44	44			
Installed Capacity (MW)	FG						44	44	44
Available Energy (GWh)	2028	125	125	125					
Available Energy (GWh)	2030	124	124	124	124	124			
Available Energy (GWh)	FG						124	124	124
Generation (GWh)	2028	103	114	113					
Generation (GWh)	2030	116	117	117	114	115			
Generation (GWh)	FG						117	117	121
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-43- Surplus, Curtailement and Constraint for Wind priority for Node Crory

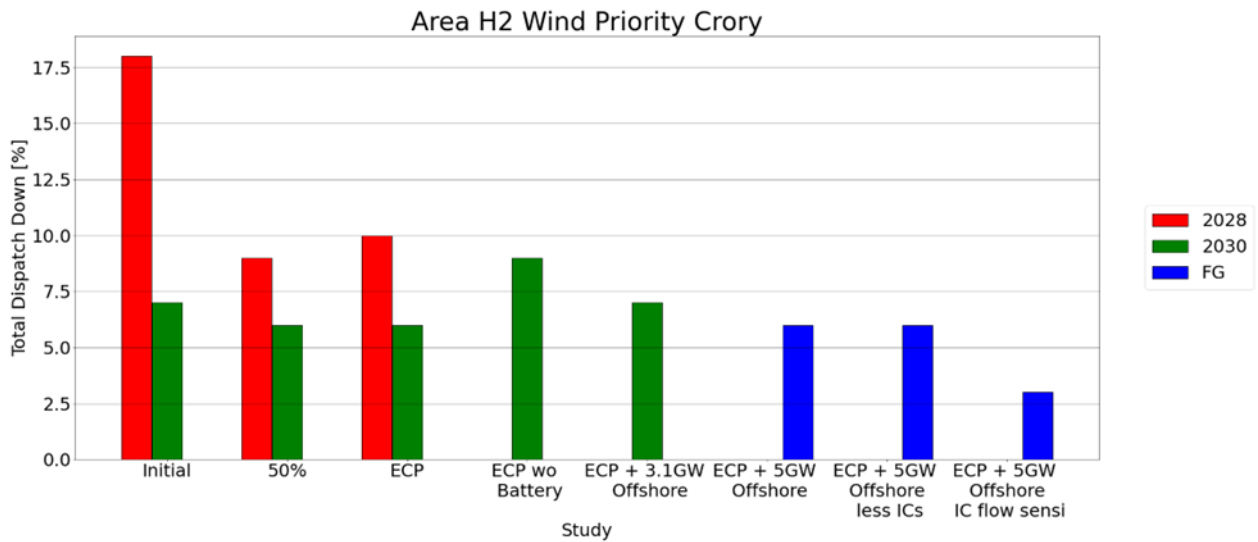


Figure 2-29- Total Dispatch Down for Wind priority for Node Crory

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	44	
Installed Capacity (MW)	2030	44	44
Available Energy (GWh)	2028	125	
Available Energy (GWh)	2030	124	124
Generation (GWh)	2028	110	
Generation (GWh)	2030	115	114
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

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

2.11 Effernoge



Figure 2-30- Location of node Effernoge

Generator	SO	Capacity	Type	Status
Tomsallagh Solar	TSO	50.0	solar not priority	due to connected
Tomsallagh ph2	DSO	1.0	solar not priority	due to connected

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

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

Area H2	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		26	51					
Installed Capacity (MW)	2030		26	51	51	51			
Installed Capacity (MW)	FG						51	51	51
Available Energy (GWh)	2028		30	60					
Available Energy (GWh)	2030		30	60	60	60			
Available Energy (GWh)	FG						60	60	60
Generation (GWh)	2028		24	41					
Generation (GWh)	2030		24	42	36	39			
Generation (GWh)	FG						43	40	47
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	2 %					
Constraint (%)	2030		2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

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

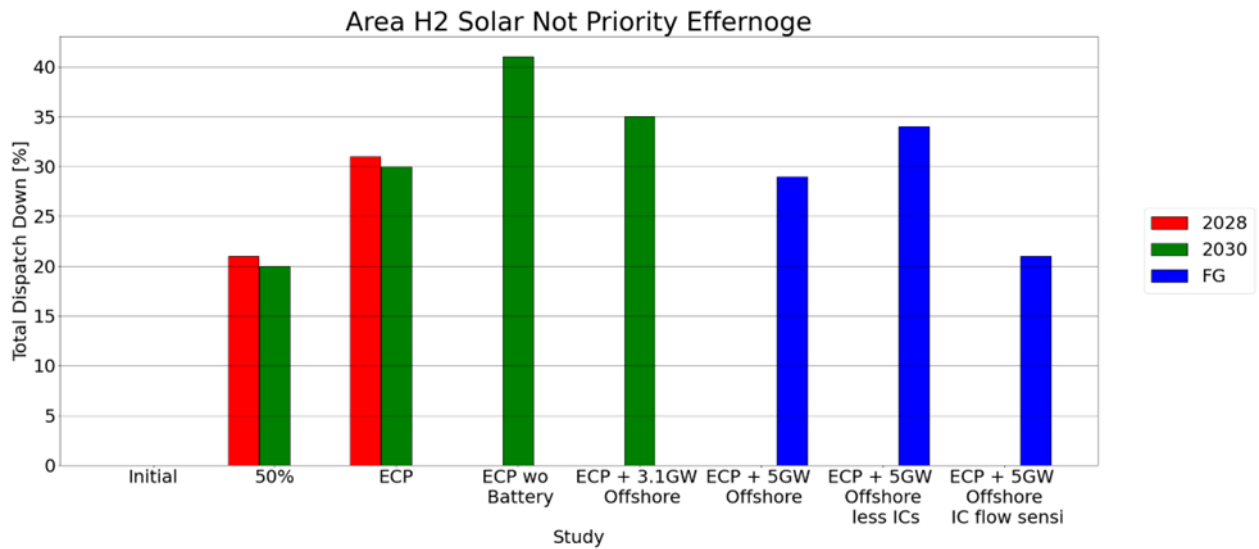


Figure 2-31- Total Dispatch Down for Solar not priority for Node Efferenoge

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	51	
Installed Capacity (MW)	2030	51	51
Available Energy (GWh)	2028	60	
Available Energy (GWh)	2030	60	60
Generation (GWh)	2028	41	
Generation (GWh)	2030	42	39
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-47- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Efferenoge

2.12 Garrintaggart

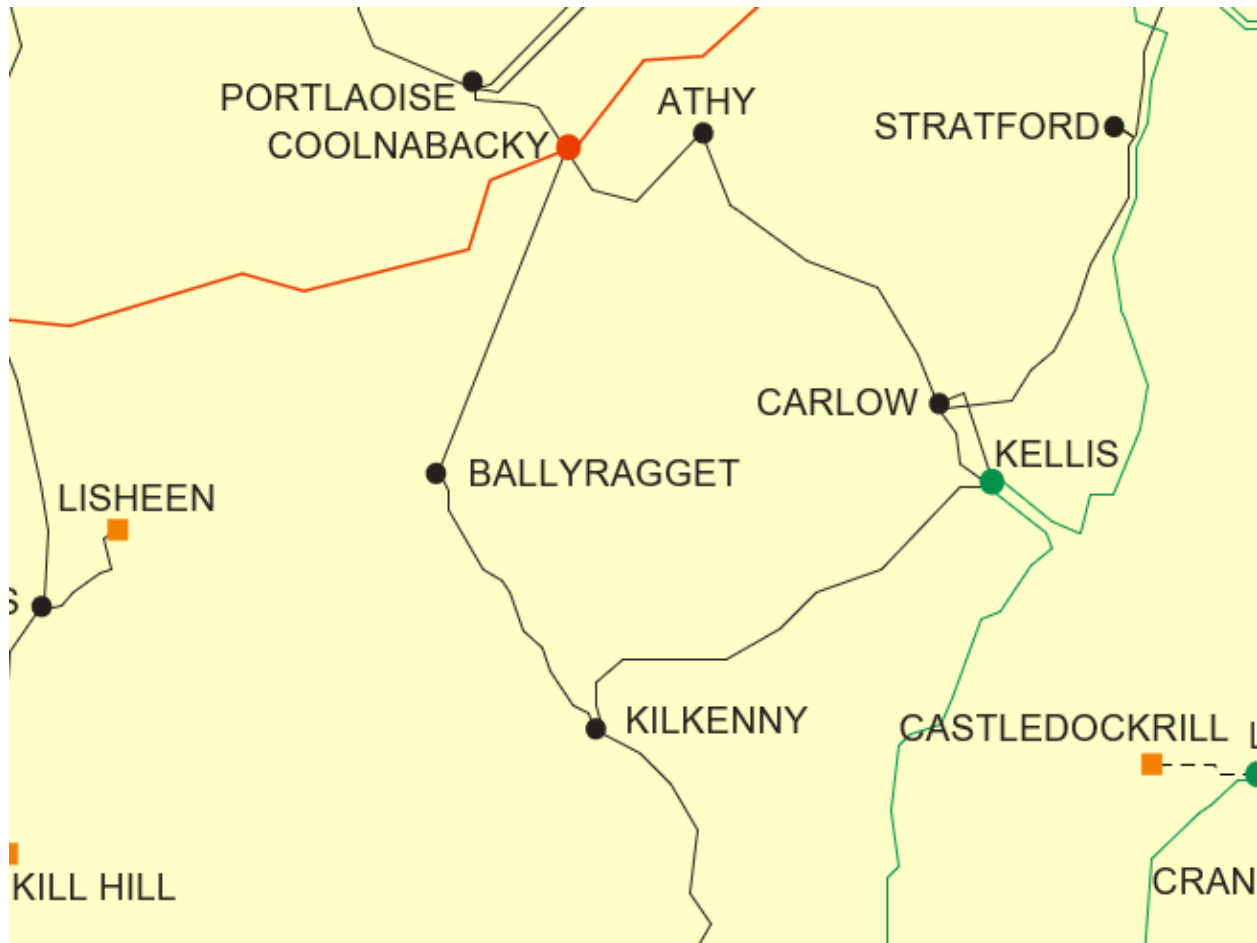


Figure 2-32 - Location of node Garrintaggart

Generator	SO	Capacity	Type	Status
Pinewoods wind	TSO	49.5	wind not priority	due to connected

Table 2-48 - Generation Included in Study for Node Garrintaggart

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		25	50					
Installed Capacity (MW)	2030		25	50	50	50			
Installed Capacity (MW)	FG						50	50	50
Available Energy (GWh)	2028		70	141					
Available Energy (GWh)	2030		70	140	140	140			
Available Energy (GWh)	FG						140	140	140
Generation (GWh)	2028		45	91					
Generation (GWh)	2030		48	93	77	73			
Generation (GWh)	FG						86	80	105
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	29 %	34 %	43 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		11 %	4 %					
Constraint (%)	2030		6 %	2 %	7 %	2 %			
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028		36 %	35 %					
Total Dispatch Down (%)	2030		31 %	34 %	45 %	48 %			
Total Dispatch Down (%)	FG						39 %	43 %	25 %

Table 2-49 - Surplus, Curtailement and Constraint for Wind non-priority for Node Garrintaggart

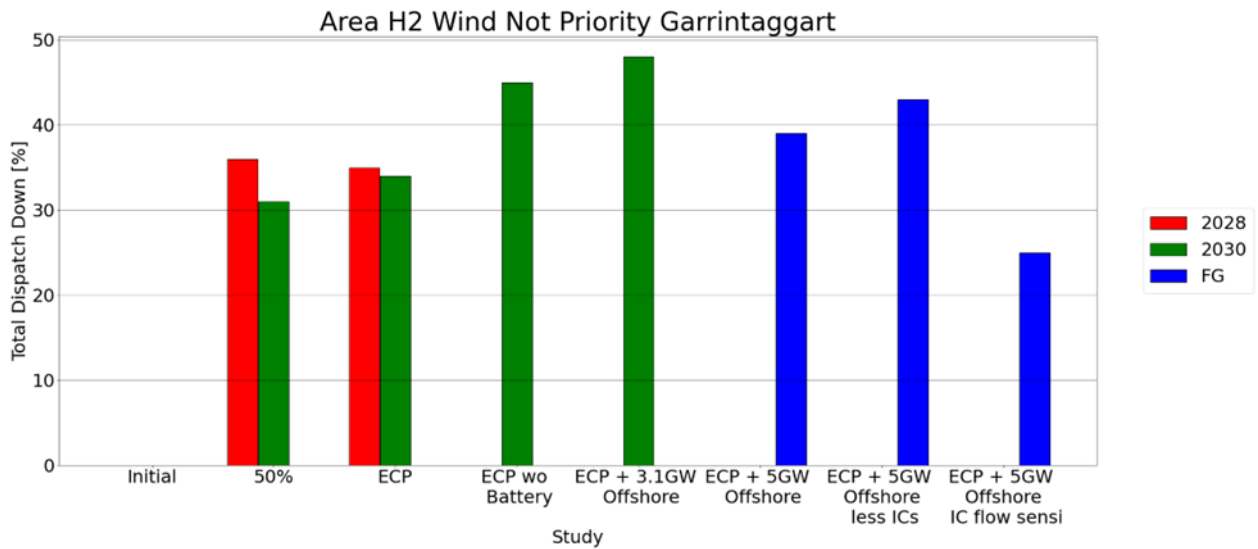


Figure 2-33- Total Dispatch Down for Wind not priority for Node Garrintaggart

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	50	
Installed Capacity (MW)	2030	50	50
Available Energy (GWh)	2028	141	
Available Energy (GWh)	2030	140	140
Generation (GWh)	2028	93	
Generation (GWh)	2030	94	75
Surplus (%)	2028	26 %	
Surplus (%)	2030	29 %	43 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	33 %	47 %

Table 2-50- Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Garrintaggart

2.13 Great island



Figure 2-34 - Location of node Great island

Generator	SO	Capacity	Type	Status
Ballycullane Solar Park	DSO	4.99	solar not priority	connected
Ballyedock	DSO	12.0	solar not priority	due to connected

Table 2-51 - Generation Included in Study for Node Great island

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	17	17	17					
Installed Capacity (MW)	2030	17	17	17	17	17			
Installed Capacity (MW)	FG						17	17	17
Available Energy (GWh)	2028	20	20	20					
Available Energy (GWh)	2030	20	20	20	20	20			
Available Energy (GWh)	FG						20	20	20
Generation (GWh)	2028	14	16	14					
Generation (GWh)	2030	16	16	14	12	13			
Generation (GWh)	FG						14	13	16
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-52 - Surplus, Curtailement and Constraint for Solar non-priority for Node Great island

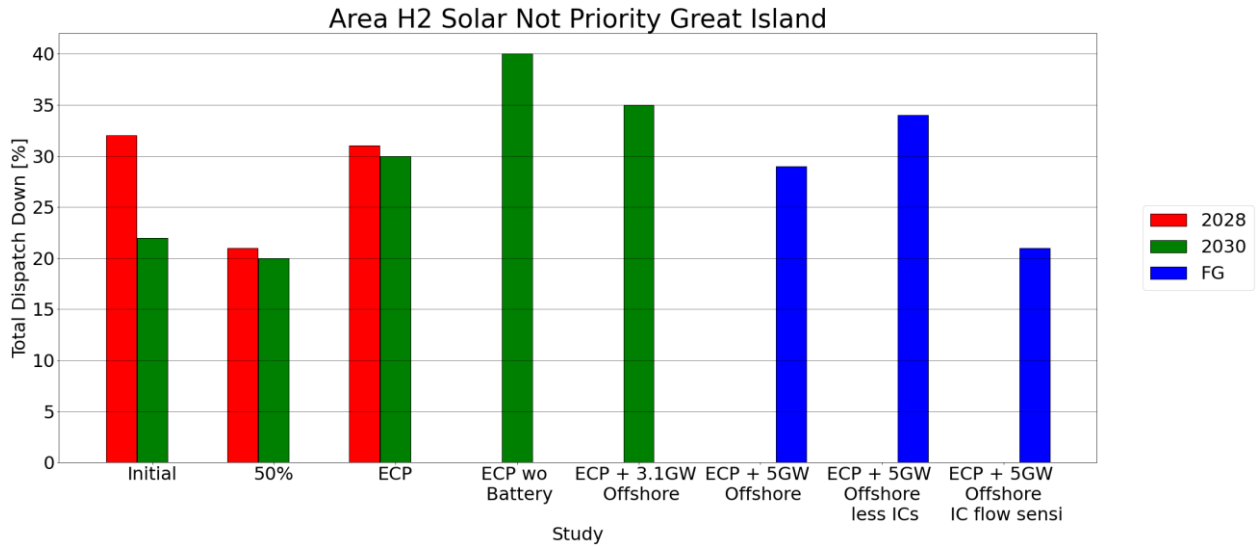


Figure 2-35 - Total Dispatch Down for Solar not priority for Node Great island

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	17	
Installed Capacity (MW)	2030	17	17
Available Energy (GWh)	2028	20	
Available Energy (GWh)	2030	20	20
Generation (GWh)	2028	14	
Generation (GWh)	2030	14	13
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-53 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Great island

2.14 Great island 220kV



Figure 2-36 - Location of node Great island 220kV

Generator	SO	Capacity	Type	Status
Great Island OWF	TSO	378.0	wind not priority	due to connected

Table 2-54 - Generation Included in Study for Node Great island 220kV

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028								
Installed Capacity (MW)	2030								
Installed Capacity (MW)	FG						378	378	378
Available Energy (GWh)	2028								
Available Energy (GWh)	2030								
Available Energy (GWh)	FG						1520	1520	1520
Generation (GWh)	2028								
Generation (GWh)	2030								
Generation (GWh)	FG						973	917	1178
Surplus (%)	2028								
Surplus (%)	2030								
Surplus (%)	FG						31 %	36 %	19 %
Curtailement (%)	2028								
Curtailement (%)	2030								
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030								
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030								
Total Dispatch Down (%)	FG						36 %	40 %	23 %

Table 2-55 - Surplus, Curtailement and Constraint for Wind non-priority for Node Great island 220kv

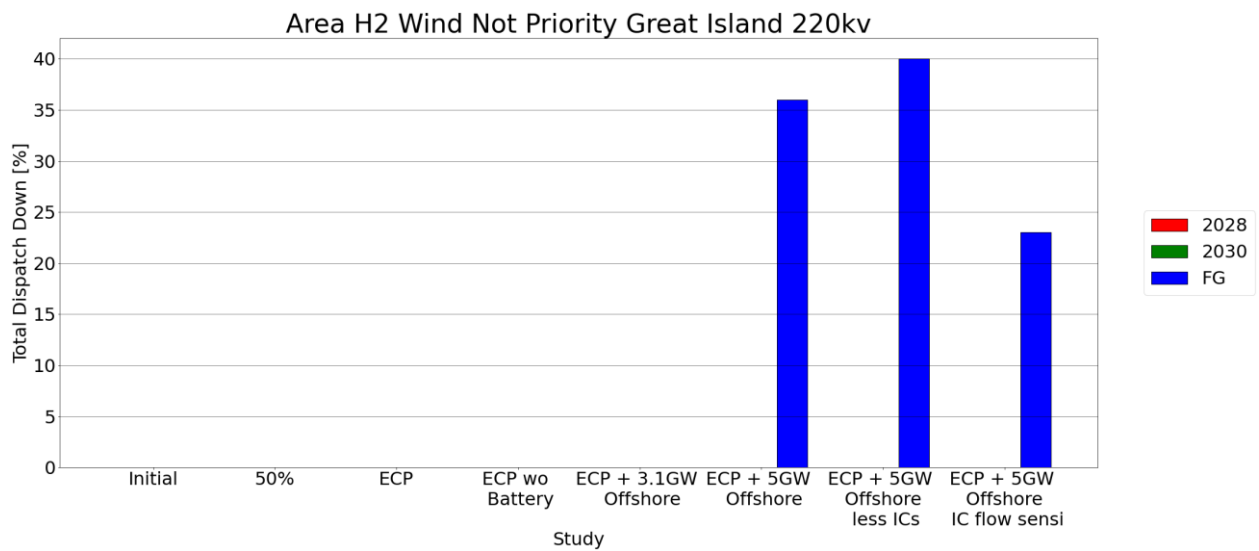


Figure 2-37 - Total Dispatch Down for Wind not priority for Node Great island 220kV

2.15 Kellis

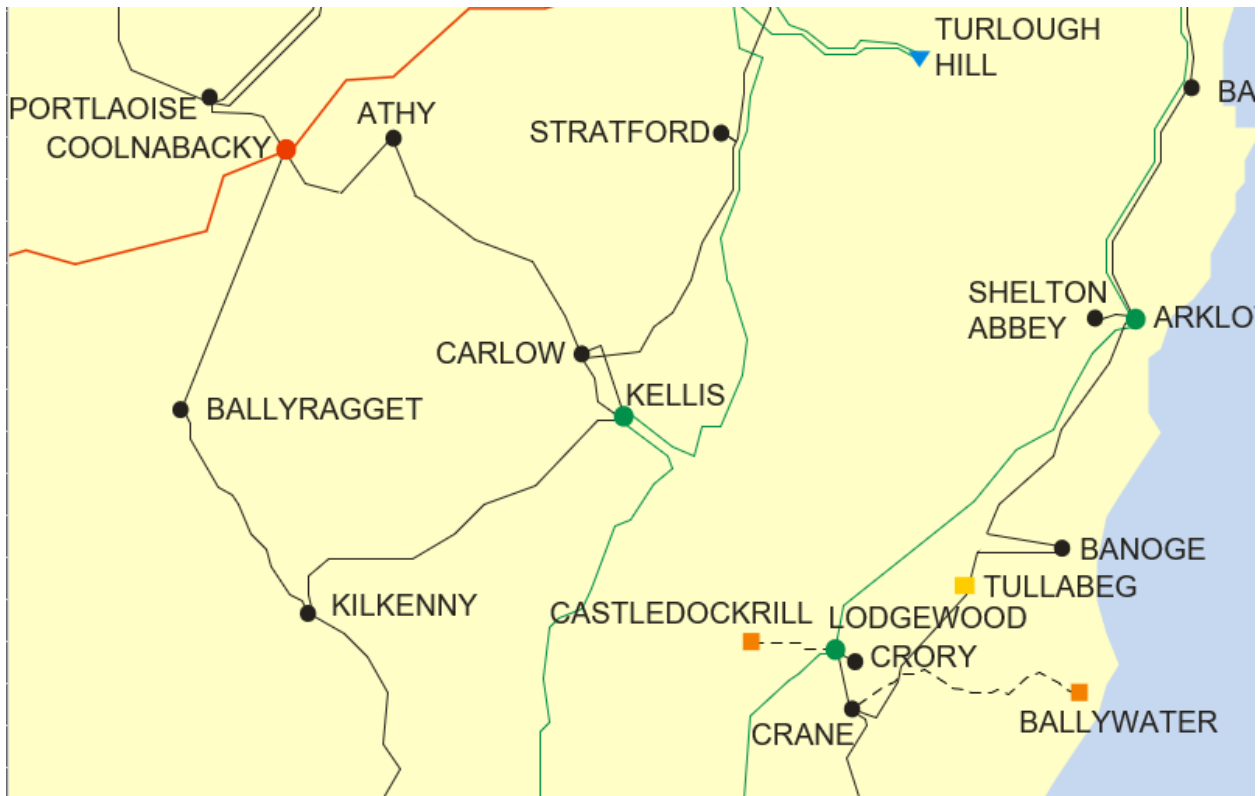


Figure 2-38 - Location of node Kellis

Generator	SO	Capacity	Type	Status
Garreenleen Solar Farm	TSO	81.0	solar not priority	due to connected
Grangeford Solar PV	TSO	48.0	solar not priority	due to connected
Garreenleen Solar Farm Phase 2	TSO	82.0	solar not priority	due to connected
Baunogephylure Solar	TSO	55.0	solar not priority	due to connected
Grangeford Solar ph2	TSO	22.0	solar not priority	due to connected

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

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

Area H2	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	163	226	288					
Installed Capacity (MW)	2030	163	226	288	288	288			
Installed Capacity (MW)	FG						288	288	288
Available Energy (GWh)	2028	191	264	338					
Available Energy (GWh)	2030	191	264	337	337	337			
Available Energy (GWh)	FG						337	337	337
Generation (GWh)	2028	131	210	234					
Generation (GWh)	2030	149	212	237	201	219			
Generation (GWh)	FG						240	224	265
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-57 - Surplus, Curtailement and Constraint for Solar non-priority for Node Kellis

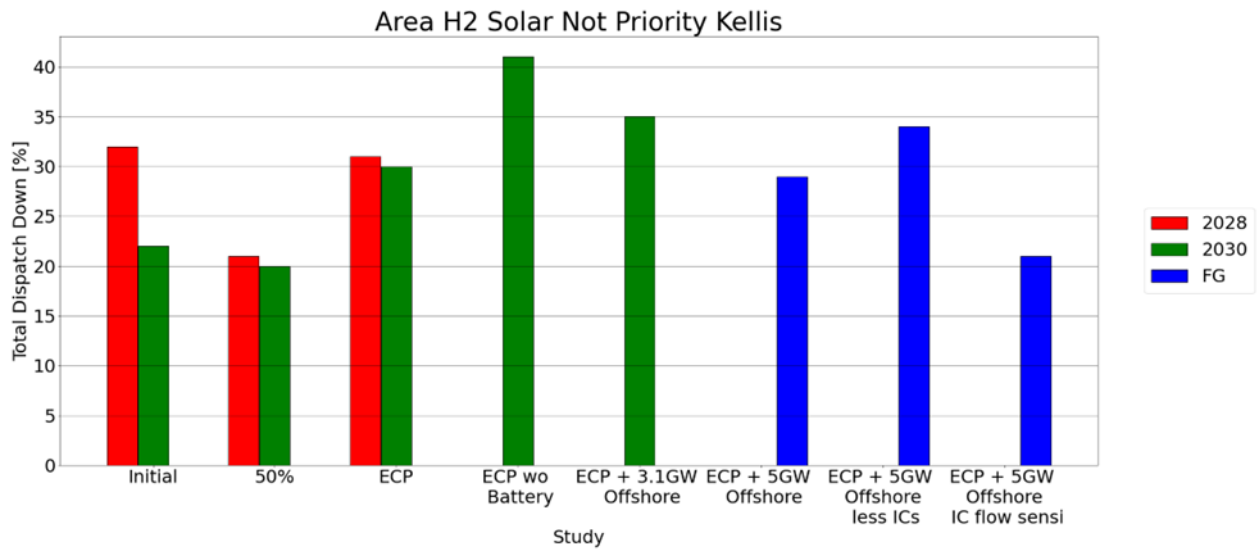


Figure 2-39 - Total Dispatch Down for Solar not priority for Node Kellis

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	288	
Installed Capacity (MW)	2030	288	288
Available Energy (GWh)	2028	338	
Available Energy (GWh)	2030	337	337
Generation (GWh)	2028	234	
Generation (GWh)	2030	237	219
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-58 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Kellis

2.16 Kellymount

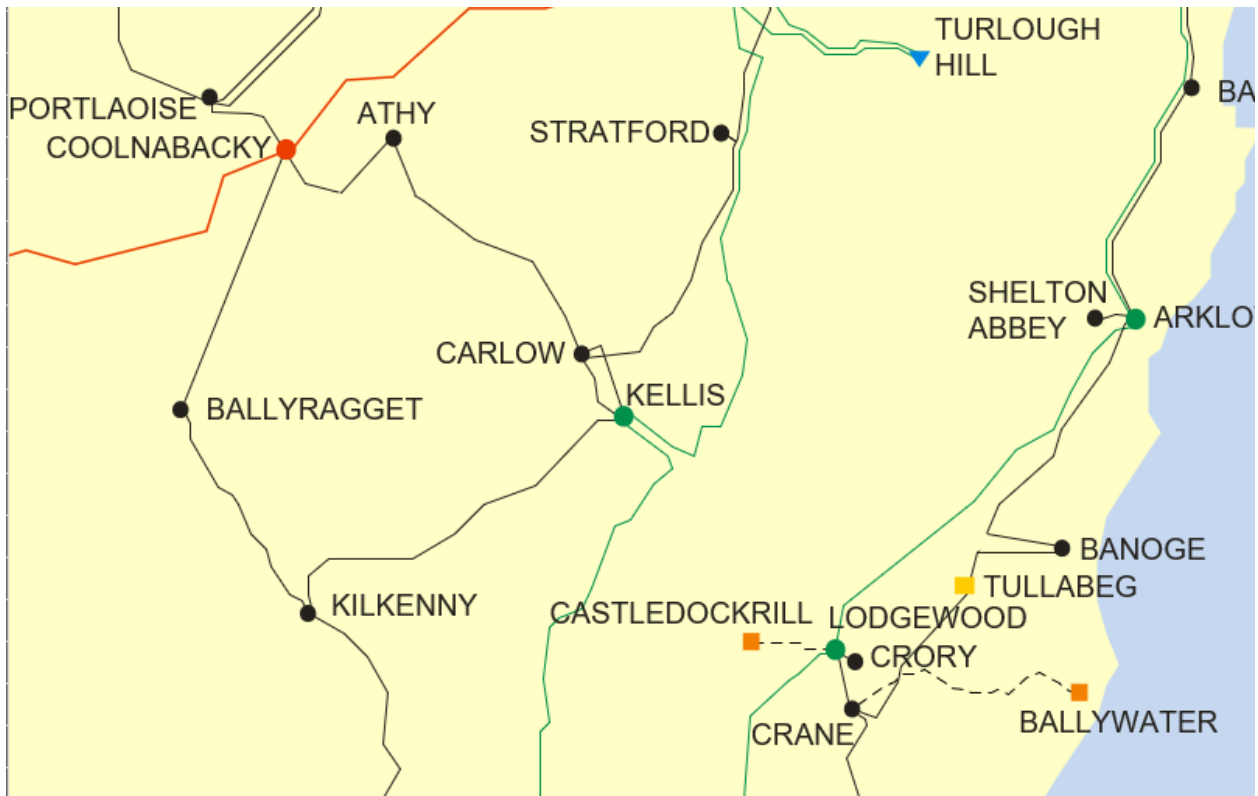


Figure 2-40 - Location of node Kellymount

Generator	SO	Capacity	Type	Status
White Hill Wind Farm	TSO	50.4	wind not priority	due to connected

Table 2-59 - Generation Included in Study for Node Kellymount

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		25	50					
Installed Capacity (MW)	2030		25	50	50	50			
Installed Capacity (MW)	FG						50	50	50
Available Energy (GWh)	2028		72	143					
Available Energy (GWh)	2030		71	143	143	143			
Available Energy (GWh)	FG						143	143	143
Generation (GWh)	2028		46	93					
Generation (GWh)	2030		49	94	79	75			
Generation (GWh)	FG						88	81	107
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	29 %	34 %	43 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		11 %	4 %					
Constraint (%)	2030		6 %	2 %	7 %	2 %			
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028		36 %	35 %					
Total Dispatch Down (%)	2030		31 %	34 %	45 %	48 %			
Total Dispatch Down (%)	FG						39 %	43 %	25 %

Table 2-60 - Surplus, Curtailement and Constraint for Wind non-priority for Node Kellymount

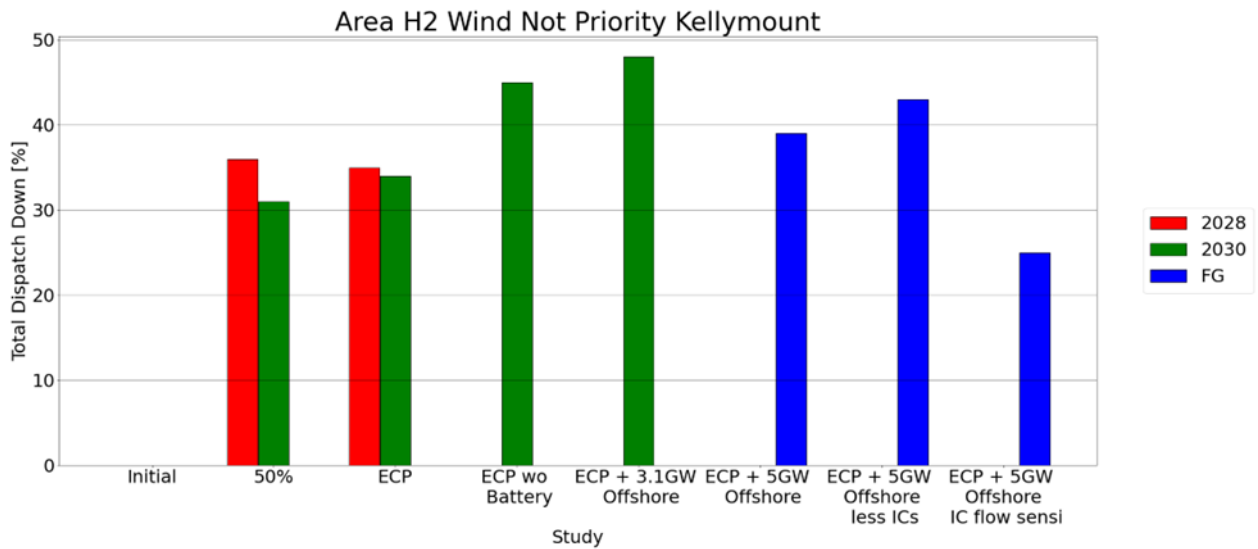


Figure 2-41 - Total Dispatch Down for Wind not priority for Node Kellymount

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	50	
Installed Capacity (MW)	2030	50	50
Available Energy (GWh)	2028	143	
Available Energy (GWh)	2030	143	143
Generation (GWh)	2028	95	
Generation (GWh)	2030	96	76
Surplus (%)	2028	26 %	
Surplus (%)	2030	29 %	43 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	33 %	47 %

Table 2-61 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Kellymount

2.17 Kilkenny

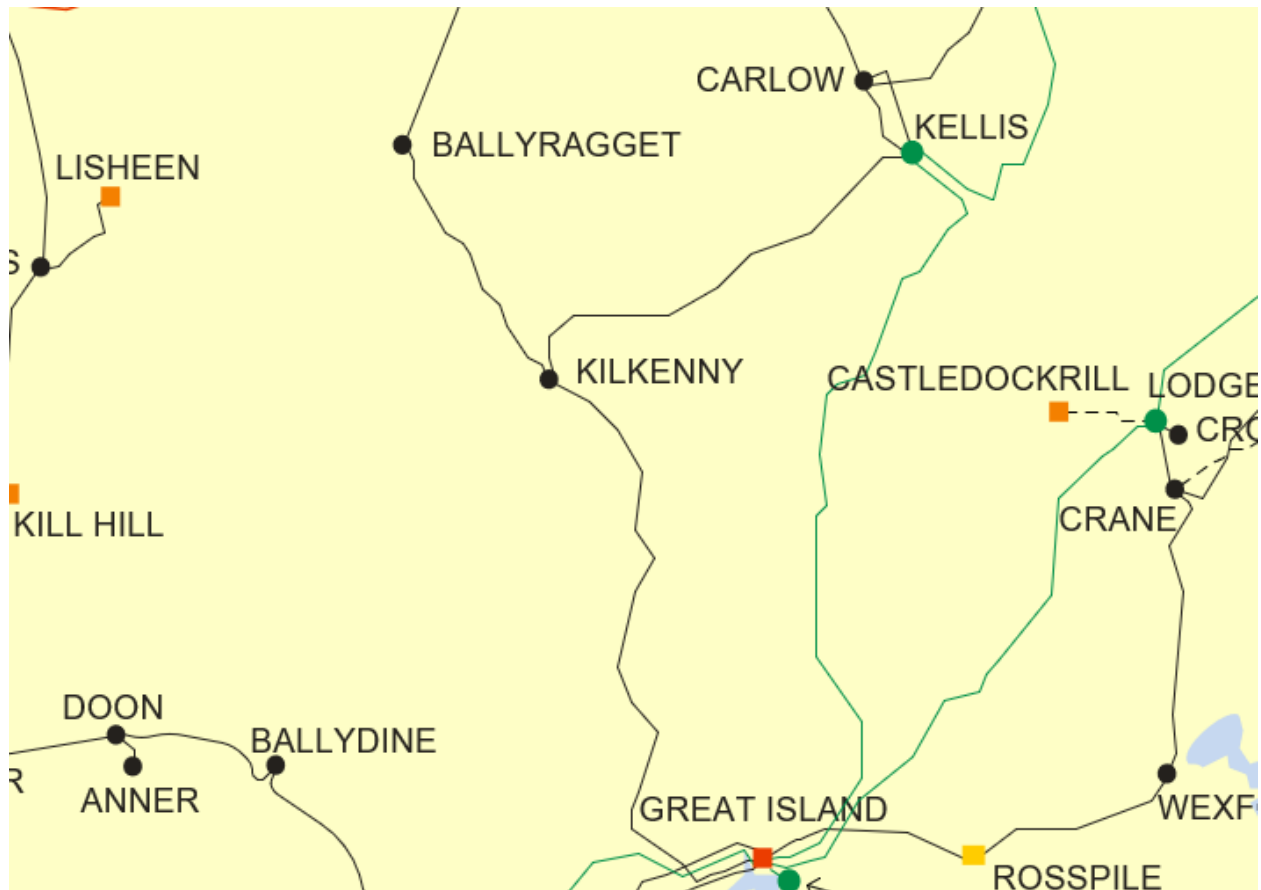


Figure 2-42 - Location of node Kilkenny

Generator	SO	Capacity	Type	Status
Ballytobin Solar PV	DSO	4.0	solar not priority	due to connected
CastleKelly Solar PV Farm	DSO	4.0	solar not priority	due to connected
Keatingstown Solar Farm	DSO	6.0	solar not priority	due to connected
Clashwilliam Solar	DSO	44.0	solar not priority	due to connected
Thomastown Road Solar	DSO	4.0	solar not priority	due to connected
Brownstown Solar	TSO	50.0	solar not priority	due to connected
Kilderry Solar	DSO	35.0	solar not priority	due to connected

Table 2-62 - Generation Included in Study for Node Kilkenny

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

Area H2	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	76	147					
Installed Capacity (MW)	2030	4	76	147	147	147			
Installed Capacity (MW)	FG						147	147	147
Available Energy (GWh)	2028	5	89	172					
Available Energy (GWh)	2030	5	88	172	172	172			
Available Energy (GWh)	FG						172	172	172
Generation (GWh)	2028	3	70	119					
Generation (GWh)	2030	4	71	121	102	112			
Generation (GWh)	FG						123	114	135
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-63 - Surplus, Curtailement and Constraint for Solar non-priority for Node Kilkenny

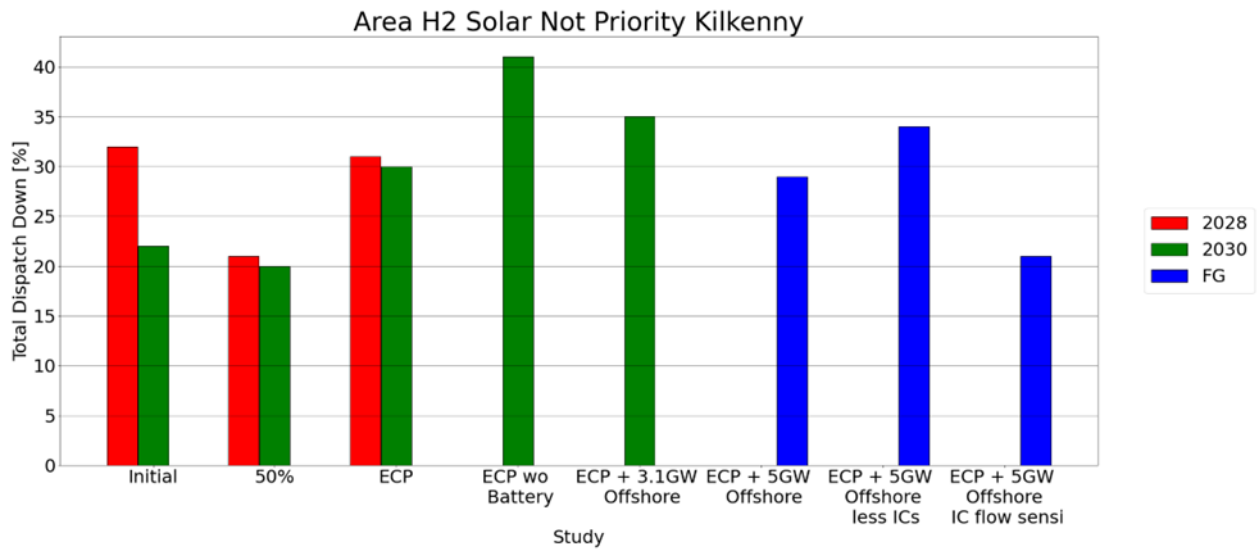


Figure 2-43 - Total Dispatch Down for Solar not priority for Node Kilkenny

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	147	
Installed Capacity (MW)	2030	147	147
Available Energy (GWh)	2028	172	
Available Energy (GWh)	2030	172	172
Generation (GWh)	2028	119	
Generation (GWh)	2030	121	112
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-64 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Kilkenny

2.18 Kilvinoge



Figure 2-44 - Location of node Kilvinoge

Generator	SO	Capacity	Type	Status
Castlebanny Wind Farm	TSO	138.6	wind not priority	due to connected

Table 2-65 - Generation Included in Study for Node Kilvinoge

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

Area H2	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		69	139					
Installed Capacity (MW)	2030		69	139	139	139			
Installed Capacity (MW)	FG						139	139	139
Available Energy (GWh)	2028		197	394					
Available Energy (GWh)	2030		196	392	392	392			
Available Energy (GWh)	FG						392	392	392
Generation (GWh)	2028		126	255					
Generation (GWh)	2030		135	259	216	206			
Generation (GWh)	FG						241	224	295
Surplus (%)	2028		20 %	26 %					
Surplus (%)	2030		22 %	29 %	34 %	43 %			
Surplus (%)	FG						34 %	39 %	21 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		11 %	4 %					
Constraint (%)	2030		6 %	2 %	7 %	2 %			
Constraint (%)	FG						3 %	2 %	2 %
Total Dispatch Down (%)	2028		36 %	35 %					
Total Dispatch Down (%)	2030		31 %	34 %	45 %	48 %			
Total Dispatch Down (%)	FG						39 %	43 %	25 %

Table 2-66 - Surplus, Curtailement and Constraint for Wind non-priority for Node Kilvinoge

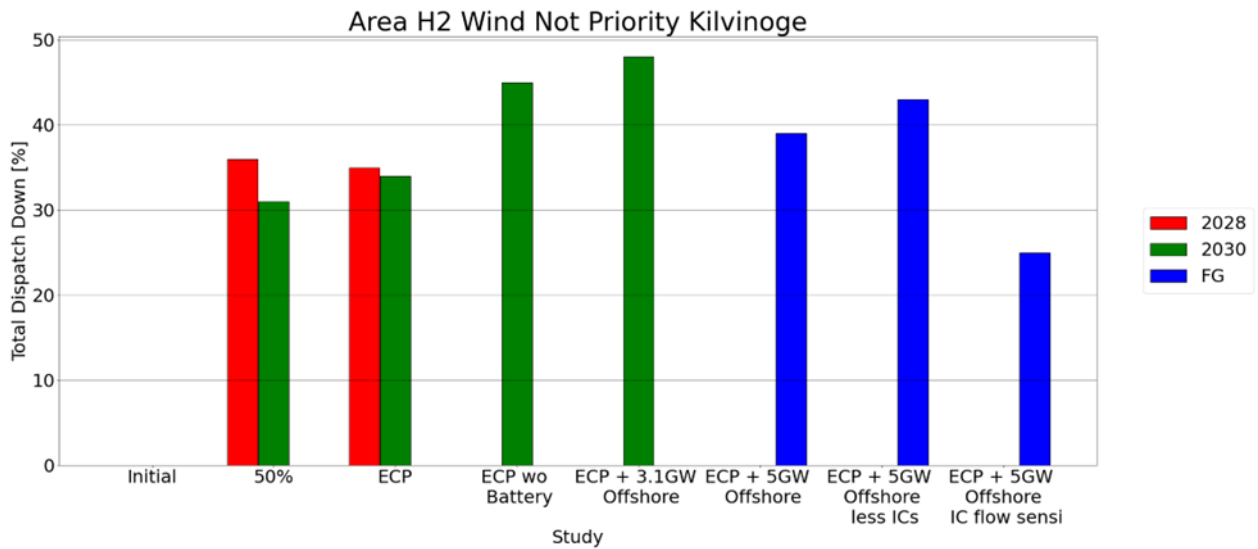


Figure 2-45 - Total Dispatch Down for Wind not priority for Node Kilvinoge

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	139	
Installed Capacity (MW)	2030	139	139
Available Energy (GWh)	2028	394	
Available Energy (GWh)	2030	392	392
Generation (GWh)	2028	261	
Generation (GWh)	2030	263	209
Surplus (%)	2028	26 %	
Surplus (%)	2030	29 %	43 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	33 %	47 %

Table 2-67 - Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Kilvinoge

2.19 Lodgewood



Figure 2-46 - Location of node Lodgewood

Generator	SO	Capacity	Type	Status
Tincurry Solar Farm	TSO	109.0	solar not priority	due to connected

Table 2-68 - Generation Included in Study for Node Lodgewood

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

Area H2	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		54	109					
Installed Capacity (MW)	2030		54	109	109	109			
Installed Capacity (MW)	FG						109	109	109
Available Energy (GWh)	2028		64	128					
Available Energy (GWh)	2030		64	128	128	128			
Available Energy (GWh)	FG						128	128	128
Generation (GWh)	2028		51	88					
Generation (GWh)	2030		51	90	76	83			
Generation (GWh)	FG						91	85	100
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	2 %					
Constraint (%)	2030		2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-69 - Surplus, Curtailement and Constraint for Solar non-priority for Node Lodgewood

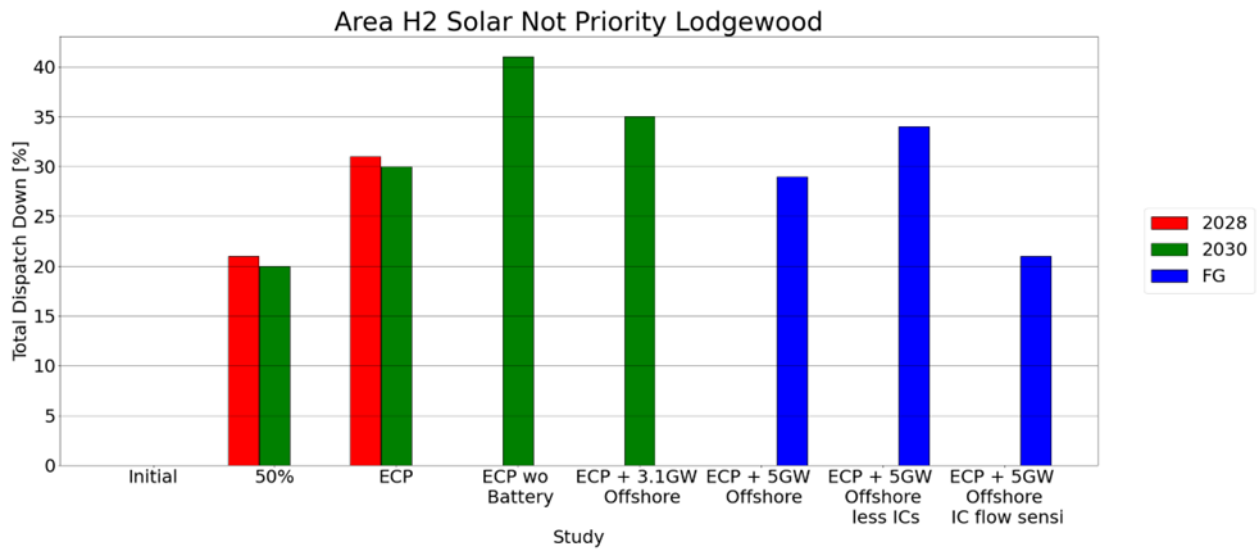


Figure 2-47 - Total Dispatch Down for Solar not priority for Node Lodgewood

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	109	
Installed Capacity (MW)	2030	109	109
Available Energy (GWh)	2028	128	
Available Energy (GWh)	2030	128	128
Generation (GWh)	2028	88	
Generation (GWh)	2030	90	83
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-70 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Lodgewood

2.20 Rosspile



Figure 2-48 - Location of node Rosspile

Generator	SO	Capacity	Type	Status
Rosspile Solar Farm	TSO	95.0	solar not priority	connected

Table 2-71 - Generation Included in Study for Node Rosspile

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

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	95	95	95					
Installed Capacity (MW)	2030	95	95	95	95	95			
Installed Capacity (MW)	FG						95	95	95
Available Energy (GWh)	2028	111	111	111					
Available Energy (GWh)	2030	111	111	111	111	111			
Available Energy (GWh)	FG						111	111	111
Generation (GWh)	2028	76	88	77					
Generation (GWh)	2030	87	89	78	66	72			
Generation (GWh)	FG						79	74	87
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-72 - Surplus, Curtailement and Constraint for Solar non-priority for Node Rosspile

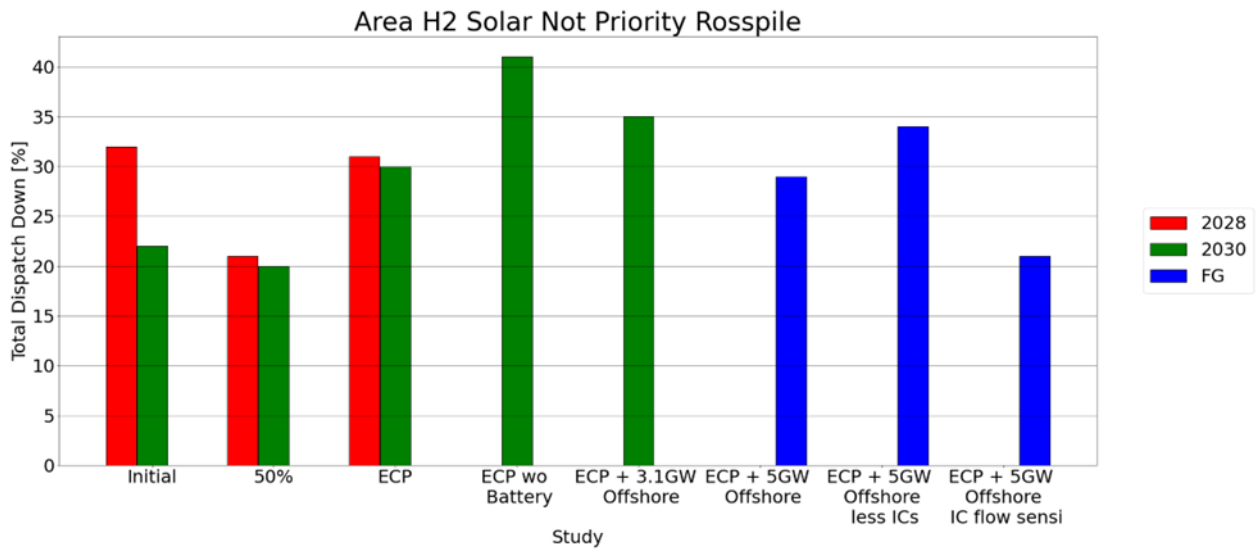


Figure 2-49 - Total Dispatch Down for Solar not priority for Node Rosspile

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	95	
Installed Capacity (MW)	2030	95	95
Available Energy (GWh)	2028	111	
Available Energy (GWh)	2030	111	111
Generation (GWh)	2028	77	
Generation (GWh)	2030	78	72
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-73 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Rosspile

2.21 Tullabeg



Figure 2-50 - Location of node Tullabeg

Generator	SO	Capacity	Type	Status
Tullabeg Solar Park	TSO	50.0	solar not priority	connected
Tullabeg Phase 2	TSO	105.0	solar not priority	due to connected
Tullabeg Phase 3	TSO	30.0	solar not priority	due to connected

Table 2-74 - Generation Included in Study for Node Tullabeg

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

Area H2	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	50	118	185					
Installed Capacity (MW)	2030	50	118	185	185	185			
Installed Capacity (MW)	FG						185	185	185
Available Energy (GWh)	2028	59	138	217					
Available Energy (GWh)	2030	59	138	217	217	217			
Available Energy (GWh)	FG						217	217	217
Generation (GWh)	2028	40	109	150					
Generation (GWh)	2030	46	110	152	129	140			
Generation (GWh)	FG						154	144	170
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-75 - Surplus, Curtailement and Constraint for Solar non-priority for Node Tullabeg

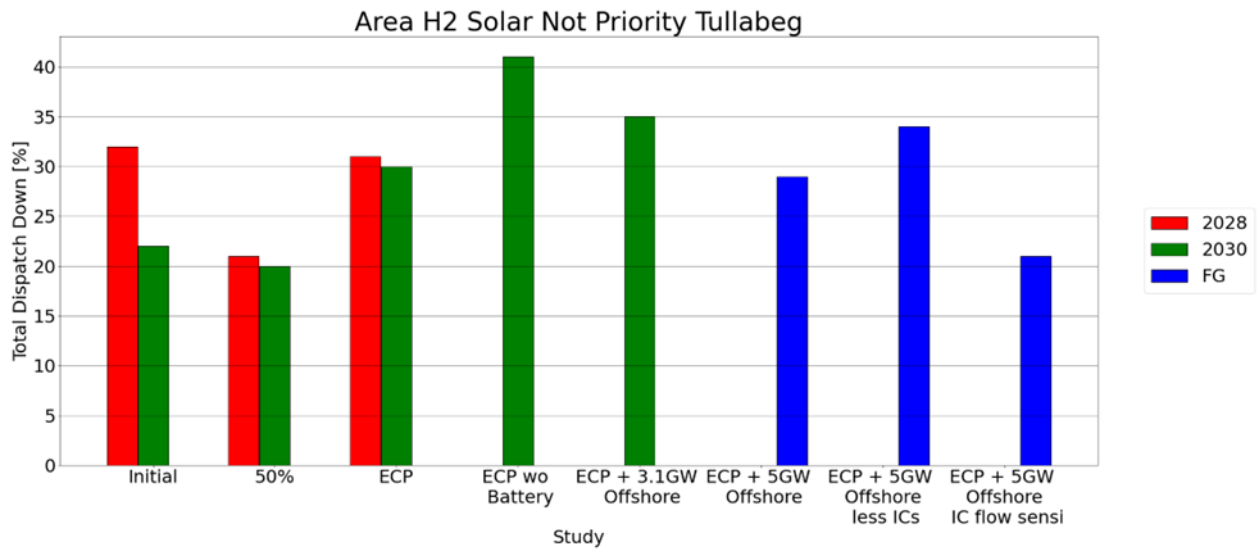


Figure 2-51 - Total Dispatch Down for Solar not priority for Node Tullabeg

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	185	
Installed Capacity (MW)	2030	185	185
Available Energy (GWh)	2028	217	
Available Energy (GWh)	2030	217	217
Generation (GWh)	2028	150	
Generation (GWh)	2030	152	140
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-76 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Tullabeg

2.22 Waterford



Figure 2-52 - Location of node Waterford

Generator	SO	Capacity	Type	Status
Ballymartin (1)	DSO	6.0	wind priority	connected
Rahora (1)	DSO	4.25	wind uncontrolled	connected
Ballymartin (2)	DSO	8.28	wind priority	connected
Curraghmartin Solar Park	DSO	3.99	solar not priority	connected
Farranmacedmond Solar Farm	DSO	6.0	solar not priority	due to connected

Table 2-77 - Generation Included in Study for Node Waterford

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

Area H2	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	7	10					
Installed Capacity (MW)	2030	4	7	10	10	10			
Installed Capacity (MW)	FG						10	10	10
Available Energy (GWh)	2028	5	8	12					
Available Energy (GWh)	2030	5	8	12	12	12			
Available Energy (GWh)	FG						12	12	12
Generation (GWh)	2028	3	7	8					
Generation (GWh)	2030	4	7	8	7	8			
Generation (GWh)	FG						8	8	9
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-78 - Surplus, Curtailment and Constraint for Solar non-priority for Node Waterford

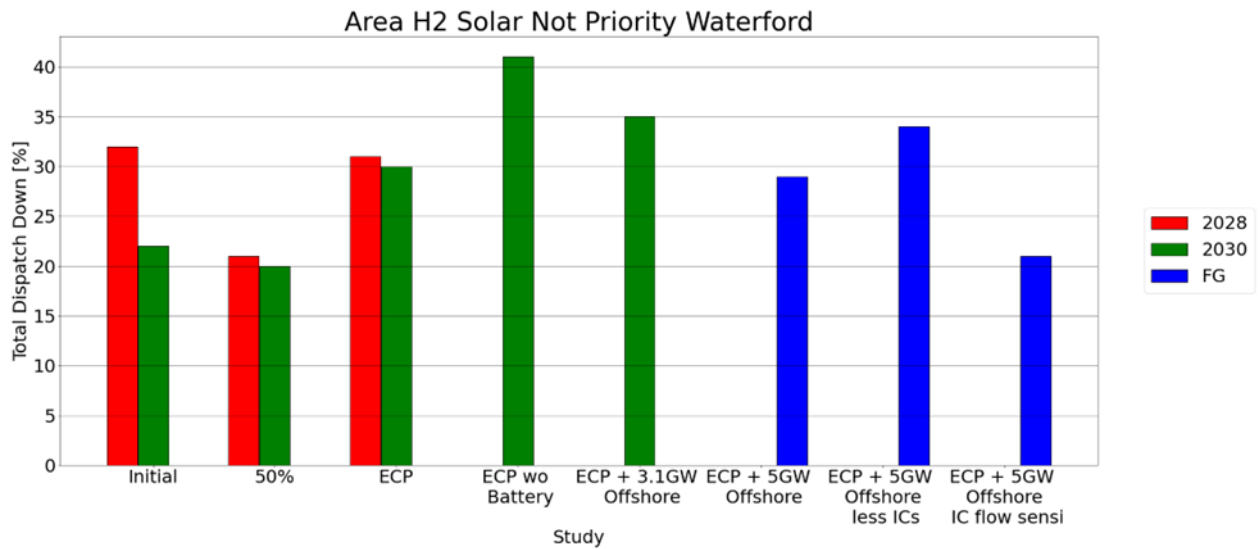


Figure 2-53 - Total Dispatch Down for Solar not priority for Node Waterford

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	10	
Installed Capacity (MW)	2030	10	10
Available Energy (GWh)	2028	12	
Available Energy (GWh)	2030	12	12
Generation (GWh)	2028	8	
Generation (GWh)	2030	8	8
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-79 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Waterford

The wind priority data is given in the following table.

Area H2	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	14	14	14					
Installed Capacity (MW)	2030	14	14	14	14	14			
Installed Capacity (MW)	FG						14	14	14
Available Energy (GWh)	2028	41	41	41					
Available Energy (GWh)	2030	40	40	40	40	40			
Available Energy (GWh)	FG						40	40	40
Generation (GWh)	2028	33	37	37					
Generation (GWh)	2030	38	38	38	37	37			
Generation (GWh)	FG						38	38	39
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-80 - Surplus, Curtailement and Constraint for Wind priority for Node Waterford

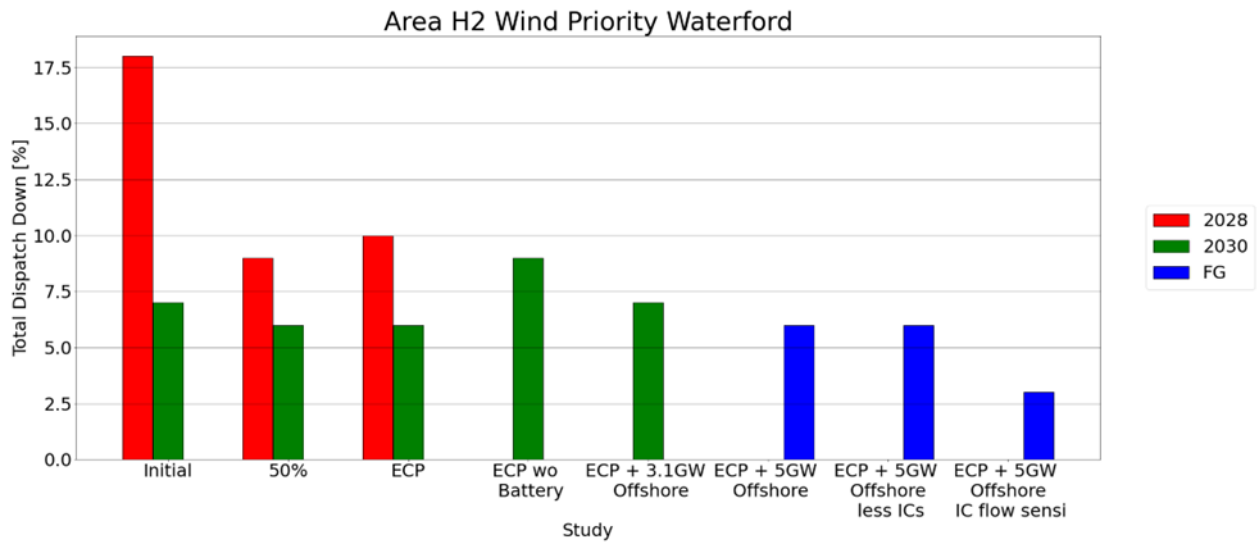


Figure 2-54 - Total Dispatch Down for Wind priority for Node Waterford

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	14	
Installed Capacity (MW)	2030	14	14
Available Energy (GWh)	2028	41	
Available Energy (GWh)	2030	40	40
Generation (GWh)	2028	36	
Generation (GWh)	2030	37	37
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

Table 2-81 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Waterford

2.23 Wexford



Figure 2-55 - Location of node Wexford

Generator	SO	Capacity	Type	Status
Richfield (1)	DSO	20.25	wind priority	connected
Carnsore (1)	DSO	11.9	wind uncontrolled	connected
Richfield (2)	DSO	6.75	wind priority	connected
Blusheens Solar (1)	DSO	7.98	solar not priority	connected
Davidstown Solar	DSO	4.95	solar not priority	connected
Tracystown Solar	TSO	101.1	solar not priority	due to connected

Table 2-82 - Generation Included in Study for Node Wexford

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

Area H2	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	13	63	114					
Installed Capacity (MW)	2030	13	63	114	114	114			
Installed Capacity (MW)	FG						114	114	114
Available Energy (GWh)	2028	15	74	134					
Available Energy (GWh)	2030	15	74	134	134	134			
Available Energy (GWh)	FG						134	134	134
Generation (GWh)	2028	10	59	93					
Generation (GWh)	2030	12	60	94	79	87			
Generation (GWh)	FG						95	89	105
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailement (%)	2028	4 %	4 %	6 %					
Curtailement (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	20 %	3 %	2 %					
Constraint (%)	2030	11 %	2 %	1 %	3 %	1 %			
Constraint (%)	FG						4 %	2 %	1 %
Total Dispatch Down (%)	2028	32 %	21 %	31 %					
Total Dispatch Down (%)	2030	22 %	20 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						29 %	34 %	21 %

Table 2-83 - Surplus, Curtailement and Constraint for Solar non-priority for Node Wexford

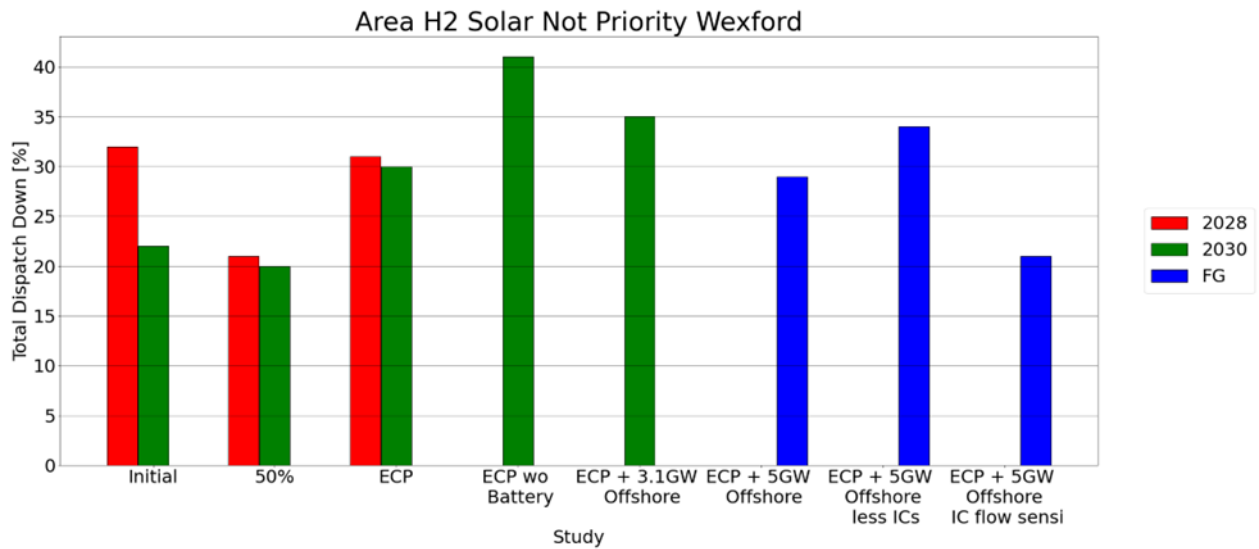


Figure 2-56 - Total Dispatch Down for Solar not priority for Node Wexford

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	114	
Installed Capacity (MW)	2030	114	114
Available Energy (GWh)	2028	134	
Available Energy (GWh)	2030	134	134
Generation (GWh)	2028	93	
Generation (GWh)	2030	94	87
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-84 - Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Wexford

The wind priority data is given in the following table.

Area H2	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	27	27	27					
Installed Capacity (MW)	2030	27	27	27	27	27			
Installed Capacity (MW)	FG						27	27	27
Available Energy (GWh)	2028	77	77	77					
Available Energy (GWh)	2030	76	76	76	76	76			
Available Energy (GWh)	FG						76	76	76
Generation (GWh)	2028	63	70	69					
Generation (GWh)	2030	71	72	72	70	71			
Generation (GWh)	FG						72	72	74
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	9 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	7 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	8 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	18 %	9 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	7 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-85 - Surplus, Curtailement and Constraint for Wind priority for Node Wexford

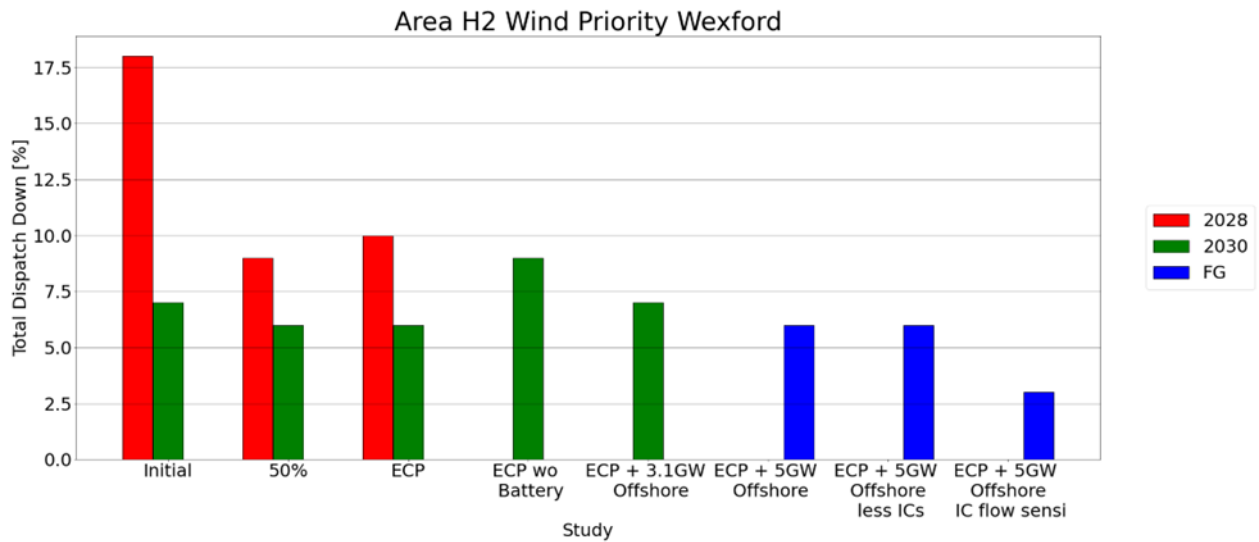


Figure 2-57 - Total Dispatch Down for Wind priority for Node Wexford

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

Area H2	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	27	
Installed Capacity (MW)	2030	27	27
Available Energy (GWh)	2028	77	
Available Energy (GWh)	2030	76	76
Generation (GWh)	2028	67	
Generation (GWh)	2030	71	70
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	7 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	1 %	1 %
Total Dispatch Down (%)	2028	12 %	
Total Dispatch Down (%)	2030	7 %	9 %

Table 2-86 - Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Wexford