

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

Results for Area J 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 J	ECP Team	ECP Lead	ECP Senior Lead	Economic Analysis Manager

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2.33	Portlaoise	127
2.34	Thornsberry	132
2.35	Timahoe	135

1 Overview for Area J

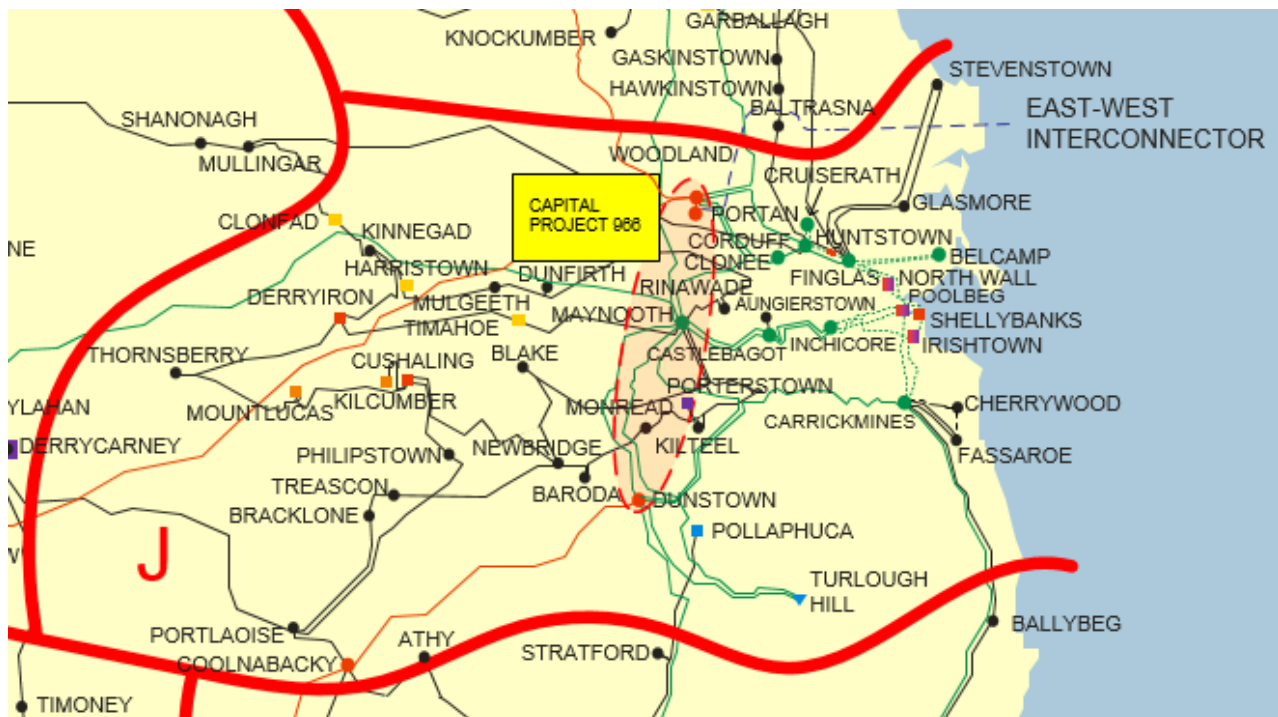


Figure 1-1 Network Map for Area J

Area J, in the east of the country includes a mix of wind and solar generation. The counties that are covered in this area include Dublin, Kildare, Laois, Westmeath (partial), Wicklow (partial) and Offaly (partial). The transmission network in Area J and the surrounding areas 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 J. 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 J for a range of scenarios. There is a total of six core ECP-2.5 studies and eight sensitivity studies presented in this report. The results highly depend on the study assumptions, which are described in the Assumptions Document.

Section 2: Area J 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 J.

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))

1.2 Key Summary

Ireland's largest load centre is in the greater Dublin area, which is located in Area J. This includes the majority of Large Energy User (LEU) demand that has been assumed for the study. The EWIC interconnector is also located in Area J. In general, when renewable generation is high, power flows are predominantly towards Area J from the rest of the system to supply the demand and the EWIC flow (depending on the flow).

Constraints in Area J can be caused both by local and wider system issues. Constraints in the model are optimised on a system-wide basis so, in theory, an increase in the installed generation in another area can increase constraints in Area J.

Area J includes the major Dublin load centres. The power in the meshed 110 kV circuits in the midland flows to the East, towards the 220 kV stations which feed the load centres. With increasing generation in the 110 kV network in the midlands, the power flow increases, which causes bottlenecks in the circuits that have lower ratings. A loss of a circuit in the midlands area creates overloading in other circuits and therefore results in RES generation being dispatched down. In area J, between the initial and the full ECP scenario there is approximately 2.5 GW solar capacity increase. As a result, during the high renewable energy scenarios, regions nearby Maynooth and Mulgeeth become major bottlenecks. Many of the contingencies binding in the J area improves with 2030 providing additional reinforcements. However, with high-RES scenario this region is still getting congested. Further, additional power flow towards Dublin from other Areas will also affect the congestion in Area J. The Derryiron and Finglas regions are another major bottlenecks during the high-RES scenarios. Additionally, the loss of a 220 kV and 400 kV circuit would exert additional stress on the 110 kV circuits in the region.

1.3 Generation Overview

A detailed system-level overview of the renewable generation scenarios used in these studies are 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 J in the "ECP" scenario is given in Table 1-1. Installed and controllable energy in Area J is given in Table 1-2 for solar and Table 1-3 for wind.

Node	SO	Status	Solar	Wind
Arodstown	TSO	due to connected	356	
Athy	DSO	due to connected	5	
Belcamp 220Kv	TSO	due to connected		250
Belcamp 220Kv	TSO	due to connected		250
Blundelstown	TSO	connected	60	
Bracklone	TSO	due to connected	85	
Bracklone	TSO	due to connected		58
Bracklyn	TSO	due to connected		65
Carrickmines 220Kv	TSO	due to connected		412
Carrickmines 220Kv	TSO	due to connected		412
Clonfad	TSO	due to connected	100	
Coolnabacky	TSO	due to connected	80	
Craddanstown	TSO	due to connected		182
Crakenstown	TSO	due to connected	572	
Curraghdoo	TSO	due to connected	4	
Cushaling	TSO	connected		75
Derryiron	TSO	due to connected	132	
Derryiron	TSO	connected		101
Dunfirth	DSO	connected	14	
Dunfirth	DSO	due to connected	18	

Dunstown	TSO	due to connected	210	
Finglas	DSO	connected	8	
Finglas	DSO	due to connected	3	
Finglas	TSO	due to connected	153	
Fosterstown	DSO	due to connected	5	
Fosterstown	TSO	due to connected	79	
Gallanstown	TSO	connected	151	
Gallanstown	TSO	due to connected	32	
Glasmore	DSO	due to connected	4	
Grange	DSO	due to connected	40	
Griffinrath	DSO	due to connected	71	
Harristown	TSO	due to connected	42	
Kilteel	DSO	due to connected	15	
Kinnegad	TSO	due to connected	12	
Maynooth	TSO	due to connected	50	
Monread	DSO	connected	4	
Monread	DSO	due to connected	4	
Mount Lucas	TSO	connected		56
Mount Lucas	TSO	connected		79
Mulgeeth	TSO	due to connected		60
Newbridge	DSO	connected	12	
Newbridge	DSO	due to connected	4	
Philipstown	TSO	due to connected	50	
Philipstown	TSO	due to connected		50
Poolbeg North 220Kv	TSO	due to connected		400
Poolbeg South 220Kv	TSO	due to connected		450
Poolbeg South 220Kv	TSO	due to connected		450
Portlaoise	DSO	due to connected	4	
Portlaoise	DSO	due to connected		45
Thornsberrry	DSO	connected	4	
Thornsberrry	DSO	due to connected	20	
Thornsberrry	TSO	due to connected	220	
Timahoe	TSO	connected	70	
Timahoe	TSO	due to connected	270	
Total			2963	3395

Table 1-1 Wind and Solar Generation Summary (MW) in Area J 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 J (MW)	2962	2962	2962	2962	2962
Installed Controllable Area J (MW)	2950	2950	2950	2950	2950
Available Controllable Area J (GWh)	3780	3780	3780	3780	3780

Table 1-2 Installed MW and Available GWh for Area J - 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 J (MW)	771	3395	3395	3395	3395
Installed Controllable Area J (MW)	771	3395	3395	3395	3395
Available Controllable Area J (GWh)	2378	13232	13232	13232	13232

Table 1-3 Installed MW and Available GWh for Area J - 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 our 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.

Area J has been split into two subgroups in this report; Area J City, G South subgroup and the Area J Country subgroup. The J City, G South subgroup is located in the east of Dublin. Future offshore wind connects into this area and is included in this constraint subgroup. The J City, G South subgroup mostly consists of circuits with 220 kV cables and is connected to the J Country subgroup through 110 kV and 220 kV stations. The J City, G South subgroup also consists of G South region generators, as they feed directly to the 220 kV stations in the North of Dublin.

Analysis of Area J identified two constraint subgroups for solar and wind generation: Area J City, G South subgroup and Area J Country subgroup. The subgroup nodes are given in Table 1-4. The individual node level dispatch down is given in Section 2.

Subgroup	Nodes
J City, G South	Arodstown
	Belcamp 220kV
	Carrickmines 220kV
	Crakenstown
	Dunstown
	Finglas
	Gallanstown
	Glasmore
	Grange
	Griffinrath
	Poolbeg north 220kV
	Poolbeg south 220kV
J Country	Athy
	Blundelstown

Bracklone
Bracklyn
Clonfad
Coolnabacky
Craddanstown
Curraghdoo
Cushaling
Derryiron
Dunfirth
Fosterstown
Harristown
Kilteel
Maynooth
Monread
Mount Lucas
Mulgeeth
Newbridge
Philipstown
Portlaoise
Thornsberry
Timahoe

Table 1-4 Area J generator nodes and their subgroups

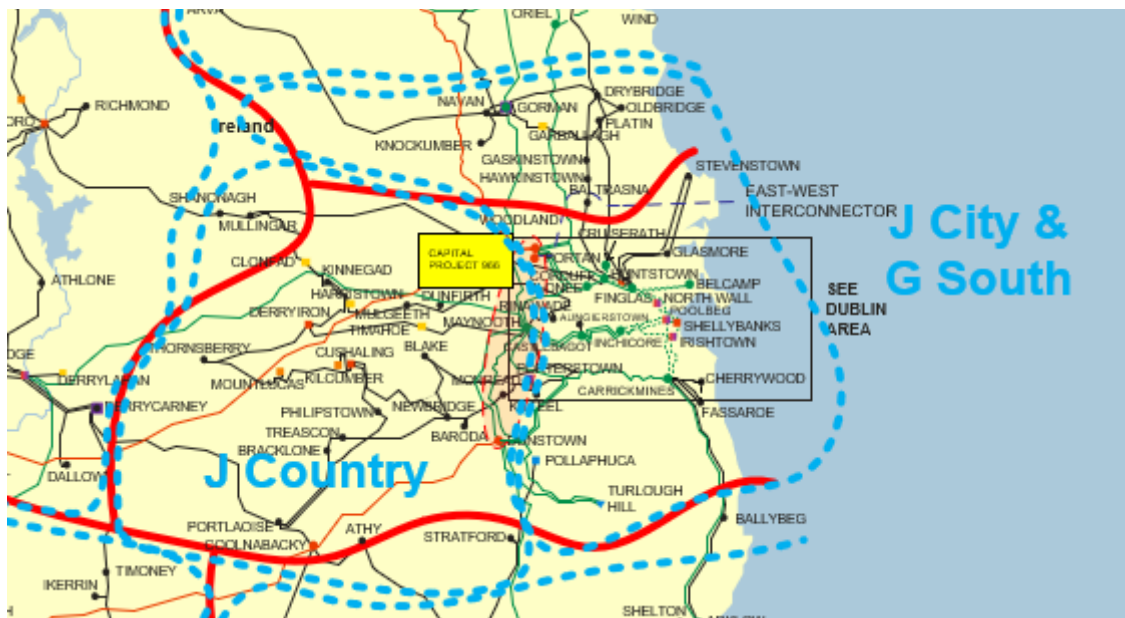


Figure 1-2 Subgroups J City & G South and J Country (subgroups outlined by blue dashed line)

1.5 Area J - Summary Results

The Total Dispatch Down results for Area J are provided below in Table 1-5 to Table 1-14 and Figure 1-3 to Figure 1-7. These include the breakdown between surplus, curtailment, and constraint. The Table 1-6, Table 1-8, Table 1-10, Table 1-12 and Table 1-14 gives the results of constraint sensitivity scenario. The Total Dispatch Down percentages are based on the total available energy. The Total Dispatch Down is the sum of surplus, curtailment, and constraint. The node level breakdown of surplus, curtailment and constraint are given in Section 2. The results show that the system level Total Dispatch Down increases with additional installed capacity due to a significant increase in surplus. However, the Total Dispatch Down reduces when the 2030 studies are compared with 2028 and there is a further reduction in the Future Grid scenario owing to increased demand, network reinforcement, interconnection, and relaxed system level operational limits.

For each generation type in Area J (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 14. 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 J Country

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

Area J (J Country)	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	320	835	1350					
Installed Capacity (MW)	2030	320	835	1350	1350	1350			
Installed Capacity (MW)	FG						1350	1350	1350
Available Energy (GWh)	2028	411	1072	1733					
Available Energy (GWh)	2030	410	1070	1730	1730	1730			
Available Energy (GWh)	FG						1730	1730	1730
Generation (GWh)	2028	341	435	507					
Generation (GWh)	2030	356	611	759	588	739			
Generation (GWh)	FG						799	787	877
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 1-5 - Surplus, Curtailment and Constraint for Solar Non-Priority in Area J (J Country)

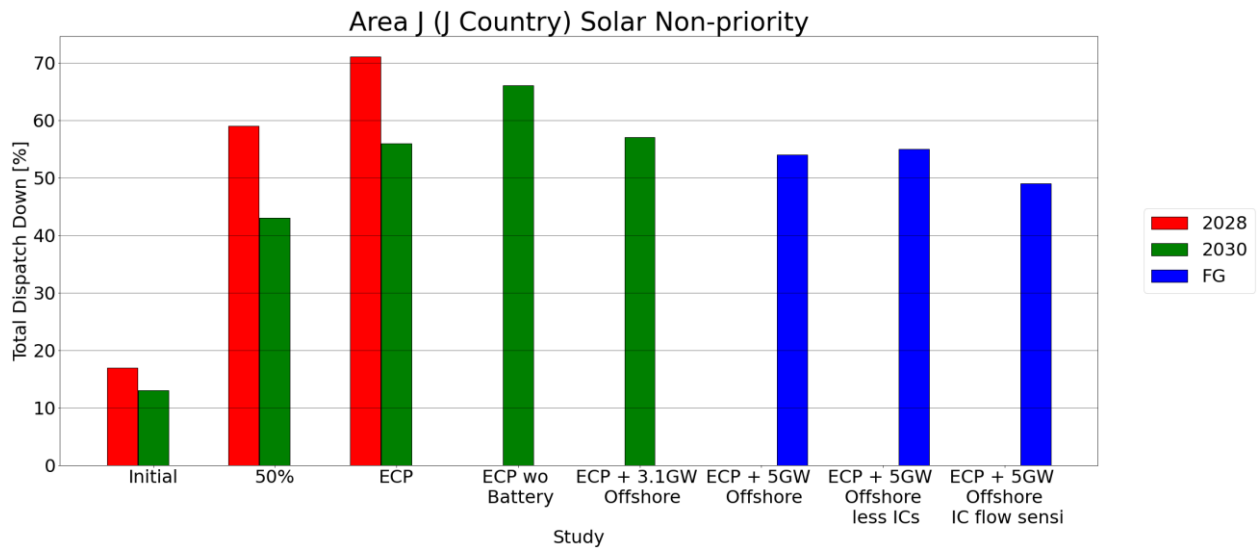


Figure 1-3 - Results Solar Non-Priority Area J (J Country)

Solar Non-priority with Sensitivity generation report

Area J (J Country)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	1350	
Installed Capacity (MW)	2030	1350	1350
Available Energy (GWh)	2028	1733	
Available Energy (GWh)	2030	1730	1730
Generation (GWh)	2028	507	
Generation (GWh)	2030	759	739
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 1-6 - Surplus, Curtailment and Constraint for Solar Non-Priority with Sensitivity in Area J (J Country)

1.5.2 Non - priority Wind Results for J Country

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

Area J (J Country)	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	327	510	692					
Installed Capacity (MW)	2030	327	510	692	692	692			
Installed Capacity (MW)	FG						692	692	692
Available Energy (GWh)	2028	1017	1582	2148					
Available Energy (GWh)	2030	1010	1572	2134	2134	2134			
Available Energy (GWh)	FG						2134	2134	2134
Generation (GWh)	2028	541	614	582					
Generation (GWh)	2030	614	800	973	905	971			
Generation (GWh)	FG						1150	1115	1393
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028	7 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	22 %	33 %	39 %					
Constraint (%)	2030	21 %	21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028	47 %	61 %	73 %					
Total Dispatch Down (%)	2030	39 %	49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 1-7 - Surplus, Curtailement and Constraint for Wind Non-Priority in Area J (J Country)

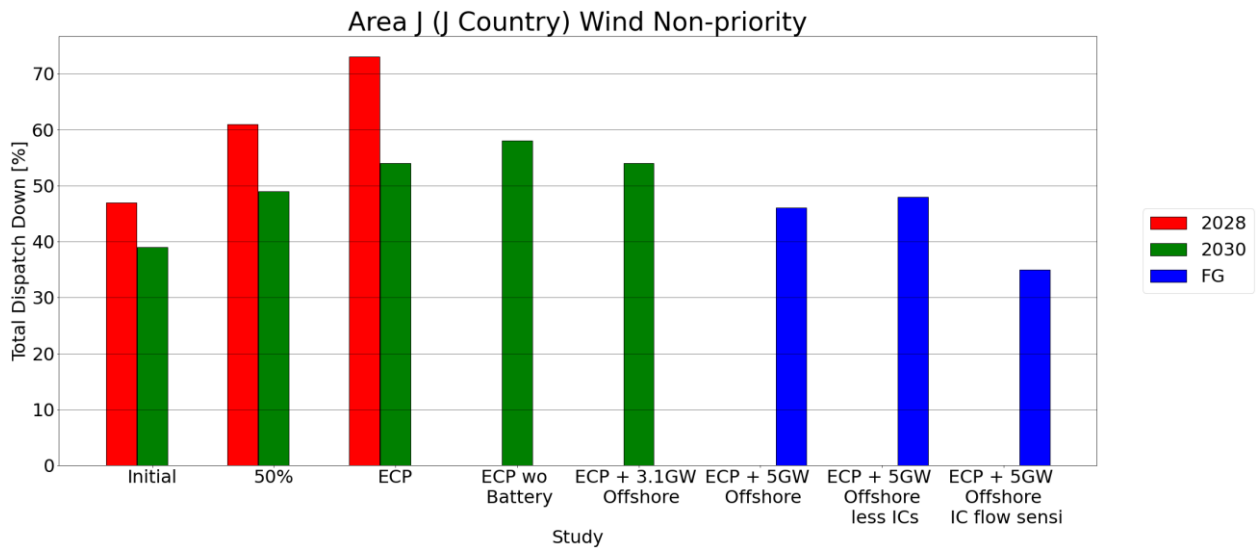


Figure 1-4 - Results Wind Non-Priority in Area J (J Country)

Area J (J Country)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	692	
Installed Capacity (MW)	2030	692	692
Available Energy (GWh)	2028	2148	
Available Energy (GWh)	2030	2134	2134
Generation (GWh)	2028	658	
Generation (GWh)	2030	1012	985
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 1-8 - Surplus, Curtailment and Constraint for Wind Non-Priority with Sensitivity in Area J (J Country)

1.5.3 Priority Wind Results for J Country

The wind priority data is given in the following table.

Area J (J Country)	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	79	79	79					
Installed Capacity (MW)	2030	79	79	79	79	79			
Installed Capacity (MW)	FG						79	79	79
Available Energy (GWh)	2028	246	246	246					
Available Energy (GWh)	2030	244	244	244	244	244			
Available Energy (GWh)	FG						244	244	244
Generation (GWh)	2028	220	222	220					
Generation (GWh)	2030	227	229	229	222	226			
Generation (GWh)	FG						229	230	237
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	10 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	10 %	10 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	8 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 1-9 - Surplus, Curtailment and Constraint for Wind Priority in Area J (J Country)

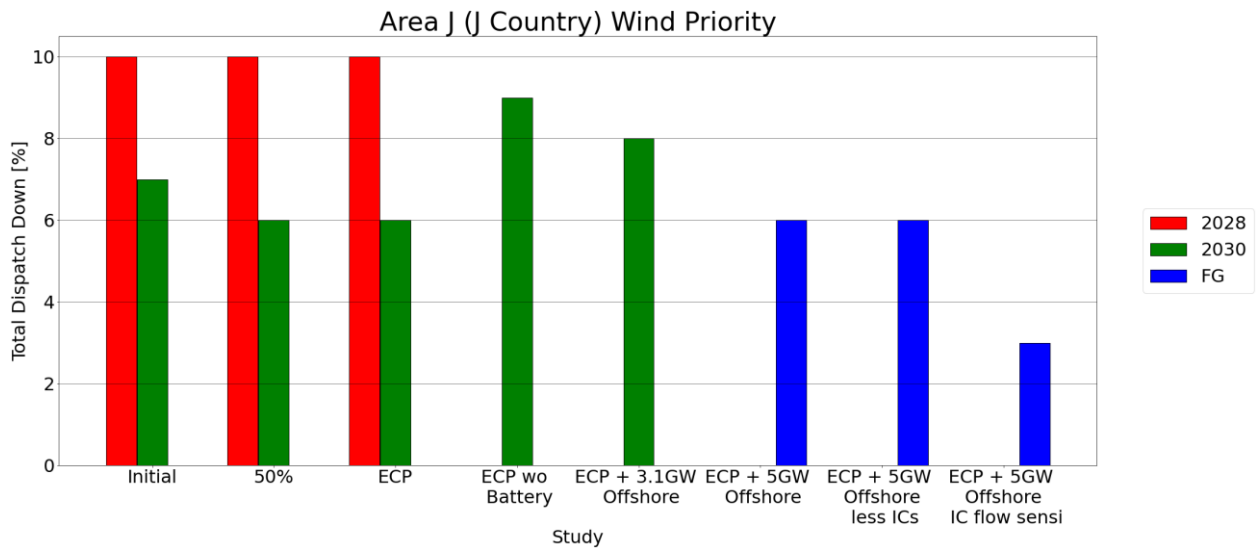


Figure 1-5 - Results Wind Priority Area J (J Country)

Area J (J Country)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	79	
Installed Capacity (MW)	2030	79	79
Available Energy (GWh)	2028	246	
Available Energy (GWh)	2030	244	244
Generation (GWh)	2028	133	
Generation (GWh)	2030	184	210
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	8 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	46 %	
Total Dispatch Down (%)	2030	25 %	14 %

Table 1-10 - Surplus, Curtailement and Constraint for Wind Priority with Sensitivity in Area J (J Country)

1.5.4 Non-Priority Solar Results for J City, G South

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

Area J (J City, G South)	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	179	889	1600					
Installed Capacity (MW)	2030	179	889	1600	1600	1600			
Installed Capacity (MW)	FG						1600	1600	1600
Available Energy (GWh)	2028	229	1141	2053					
Available Energy (GWh)	2030	229	1139	2050	2050	2050			
Available Energy (GWh)	FG						2050	2050	2050
Generation (GWh)	2028	202	920	1359					
Generation (GWh)	2030	204	937	1437	1211	1333			
Generation (GWh)	FG						1538	1402	1635
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	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 1-11 - Surplus, Curtailement and Constraint for Solar Non-priority in Area J (J City, G South)

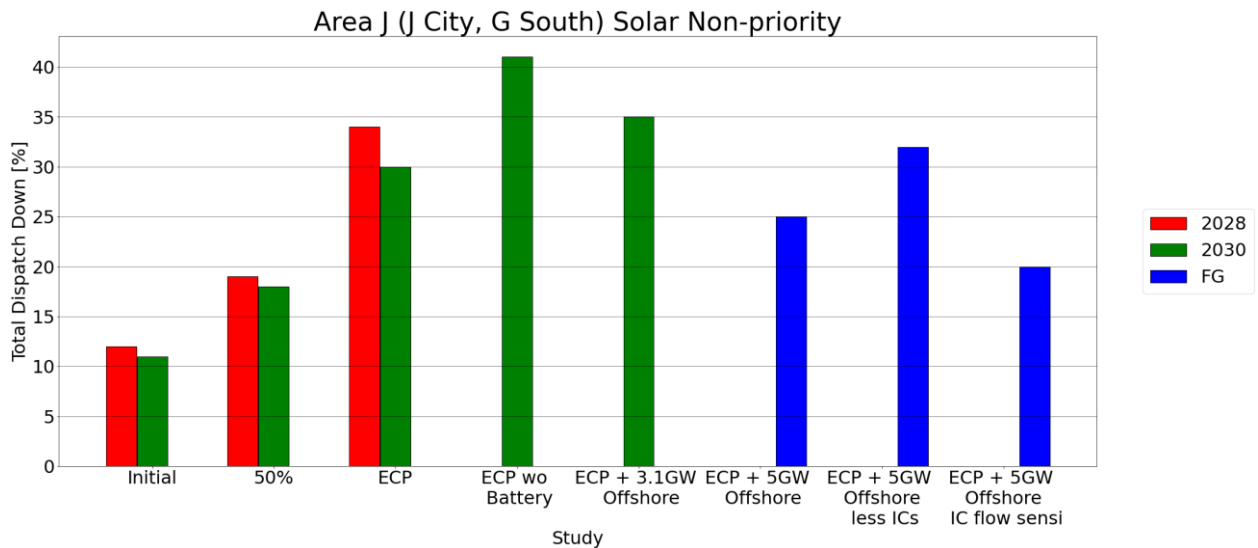


Figure 1-6 - Results Solar Non-priority Area J (J City, G South)

Area J (J City, G South)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	1600	
Installed Capacity (MW)	2030	1600	1600
Available Energy (GWh)	2028	2053	
Available Energy (GWh)	2030	2050	2050
Generation (GWh)	2028	1359	
Generation (GWh)	2030	1437	1333
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 1-12 - Surplus, Curtailment and Constraint for Solar Non-priority with Sensitivity in Area J (J City, G South)

1.5.5 Non-Priority Wind Results for J City, G South

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

Area J (J City, G South)	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					2624			
Installed Capacity (MW)	FG						2624	2624	2624
Available Energy (GWh)	2028								
Available Energy (GWh)	2030					10854			
Available Energy (GWh)	FG						10854	10854	10854
Generation (GWh)	2028								
Generation (GWh)	2030					6104			
Generation (GWh)	FG						6564	6096	8050
Surplus (%)	2028								
Surplus (%)	2030					38 %			
Surplus (%)	FG						31 %	35 %	19 %
Curtailement (%)	2028								
Curtailement (%)	2030					3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030					3 %			
Constraint (%)	FG						7 %	6 %	5 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030					44 %			
Total Dispatch Down (%)	FG						40 %	44 %	26 %

Table 1-13 - Surplus, Curtailement and Constraint for Wind Non-priority in Area J (J City, G South)

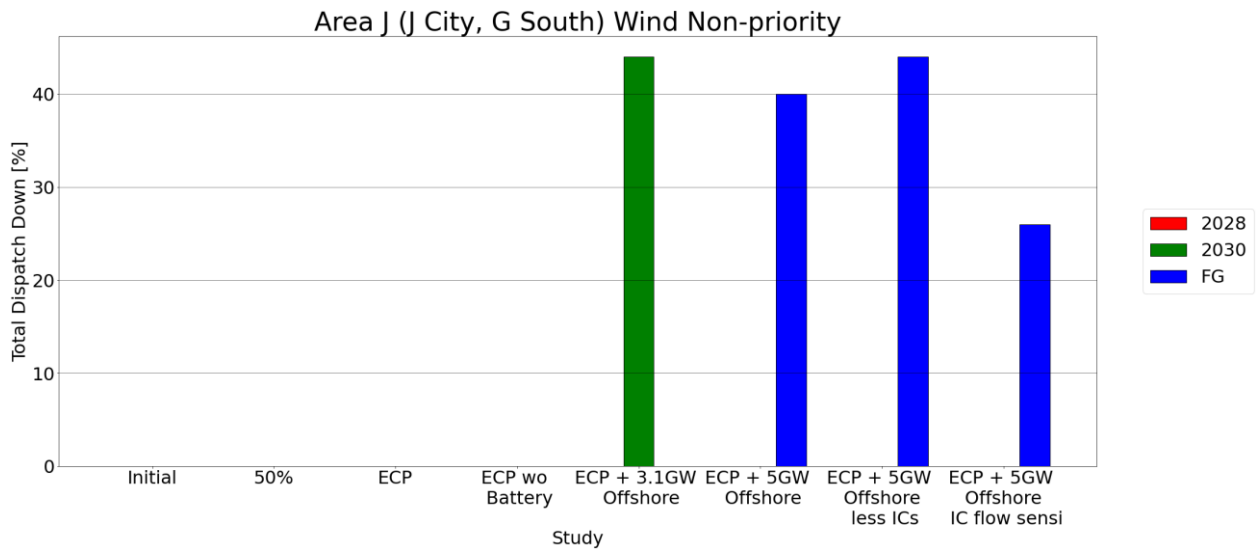


Figure 1-7 - Results Wind Non-priority Area J (J City, G South)

Area J (J City, G South)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028		
Installed Capacity (MW)	2030		2624
Available Energy (GWh)	2028		
Available Energy (GWh)	2030		10854
Generation (GWh)	2028		
Generation (GWh)	2030		6104
Surplus (%)	2028		
Surplus (%)	2030		38 %
Curtailement (%)	2028		
Curtailement (%)	2030		3 %
Constraint (%)	2028		
Constraint (%)	2030		3 %
Total Dispatch Down (%)	2028		
Total Dispatch Down (%)	2030		44 %

Table 1-14 - Surplus, Curtailement and Constraint for Wind Non-priority with Sensitivity in Area J (J City, G South)

2 Area J Node Results

This section presents results for 35 nodes in Area J.

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 Arodstown, 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 Arodstown

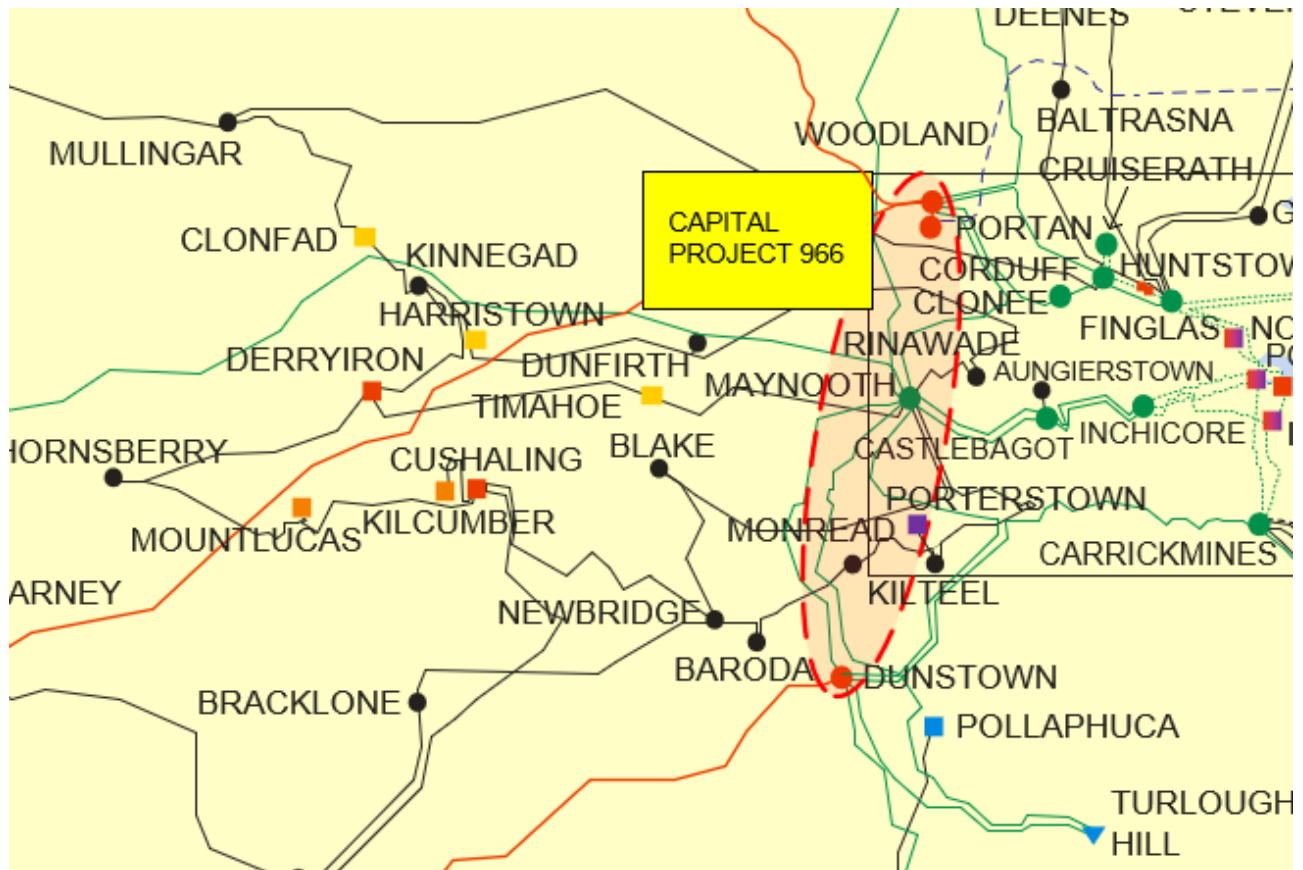


Figure 2-1 - Location of Node Arodstown

Generator	SO	Capacity	Type	Status
Culmullin Solar Farm	TSO	70.0	solar not priority	due to connected
Culmullin Solar Farm Ext	TSO	120.0	solar not priority	due to connected
Blackhall Solar	TSO	165.6	solar not priority	due to connected

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

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

Area J	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		178	356					
Installed Capacity (MW)	2030		178	356	356	356			
Installed Capacity (MW)	FG						356	356	356
Available Energy (GWh)	2028		228	456					
Available Energy (GWh)	2030		228	456	456	456			
Available Energy (GWh)	FG						456	456	456
Generation (GWh)	2028		184	302					
Generation (GWh)	2030		187	320	269	296			
Generation (GWh)	FG						342	312	363
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	5 %					
Constraint (%)	2030		0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028		19 %	34 %					
Total Dispatch Down (%)	2030		18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

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

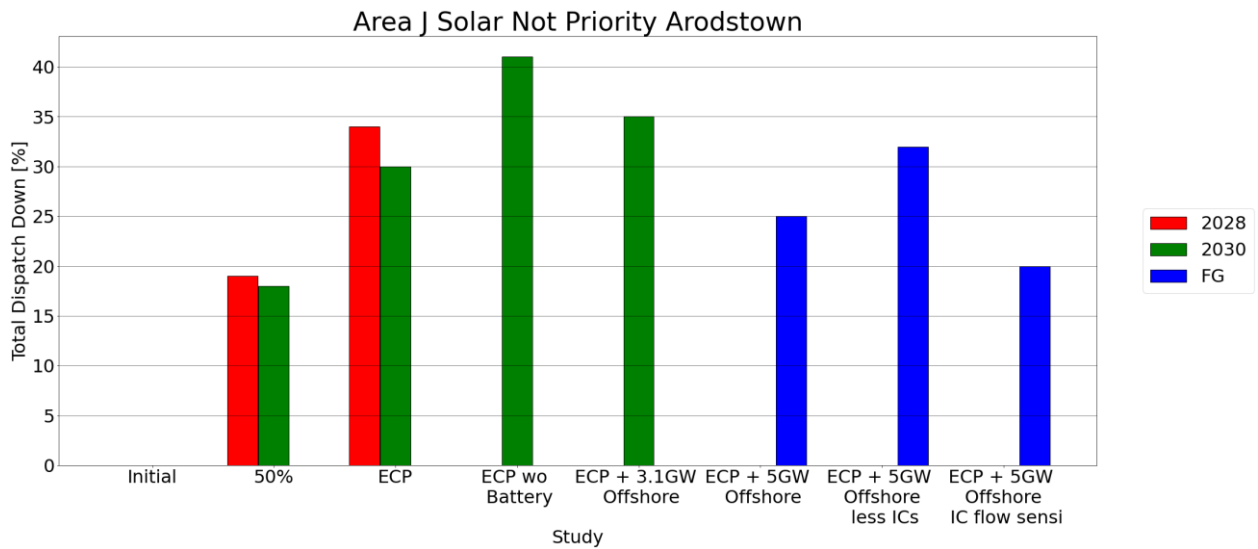


Figure 2-2 - Total Dispatch Down for Solar not priority for Node Arodstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	356	
Installed Capacity (MW)	2030	356	356
Available Energy (GWh)	2028	456	
Available Energy (GWh)	2030	456	456
Generation (GWh)	2028	302	
Generation (GWh)	2030	320	296
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

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

2.2 Athy



Figure 2-3 - Location of node Athy

Generator	SO	Capacity	Type	Status
Woodstock North Solar Farm	DSO	4.99	solar not priority	due to connected

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

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

Area J	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	5	5	5					
Installed Capacity (MW)	2030	5	5	5	5	5			
Installed Capacity (MW)	FG						5	5	5
Available Energy (GWh)	2028	6	6	6					
Available Energy (GWh)	2030	6	6	6	6	6			
Available Energy (GWh)	FG						6	6	6
Generation (GWh)	2028	5	3	2					
Generation (GWh)	2030	6	4	3	2	3			
Generation (GWh)	FG						3	3	3
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-5- Surplus, Curtailement and Constraint for Solar non-priority for Node Athy

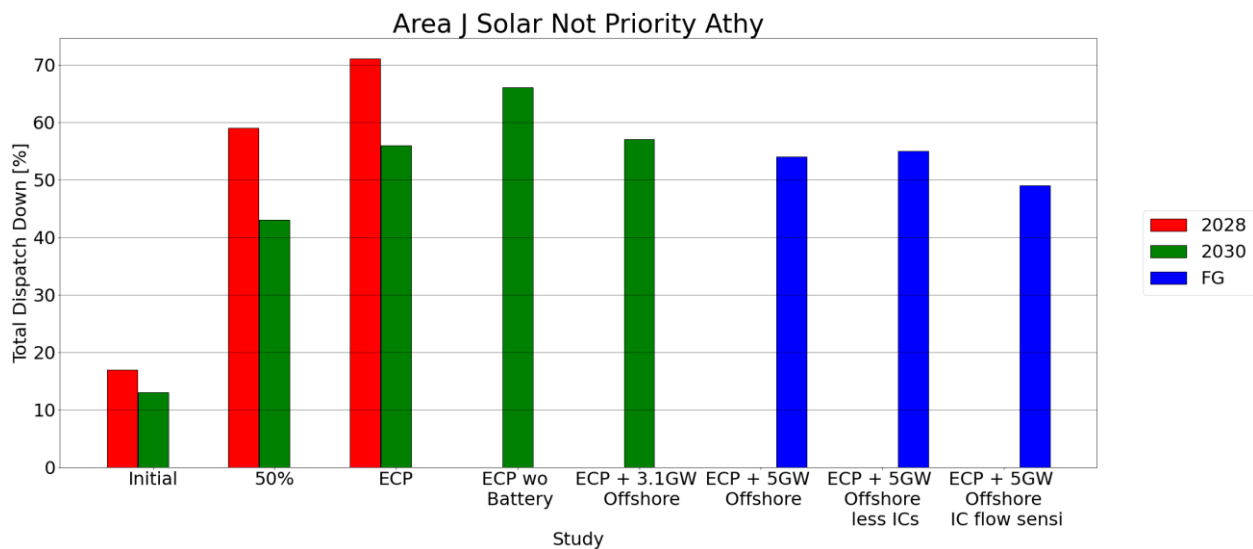


Figure 2-4- Total Dispatch Down for Solar not priority for Node Athy

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	5	
Installed Capacity (MW)	2030	5	5
Available Energy (GWh)	2028	6	
Available Energy (GWh)	2030	6	6
Generation (GWh)	2028	2	
Generation (GWh)	2030	3	3
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-6- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Athy

2.3 Belcamp 220kv



Figure 2-5- Location of node Belcamp 220kv

Generator	SO	Capacity	Type	Status
North Irish Sea Array A	TSO	250.0	wind not priority	due to connected
North Irish Sea Array B	TSO	250.0	wind not priority	due to connected

Table 2-7- Generation Included in Study for Node Belcamp 220kv

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

Area J	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					500			
Installed Capacity (MW)	FG						500	500	500
Available Energy (GWh)	2028								
Available Energy (GWh)	2030					2095			
Available Energy (GWh)	FG						2095	2095	2095
Generation (GWh)	2028								
Generation (GWh)	2030					1185			
Generation (GWh)	FG						1273	1183	1556
Surplus (%)	2028								
Surplus (%)	2030					38 %			
Surplus (%)	FG						30 %	35 %	19 %
Curtailement (%)	2028								
Curtailement (%)	2030					3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030					3 %			
Constraint (%)	FG						7 %	6 %	5 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030					43 %			
Total Dispatch Down (%)	FG						39 %	44 %	26 %

Table 2-8- Surplus, Curtailement and Constraint for Wind non-priority for Node Belcamp 220kv

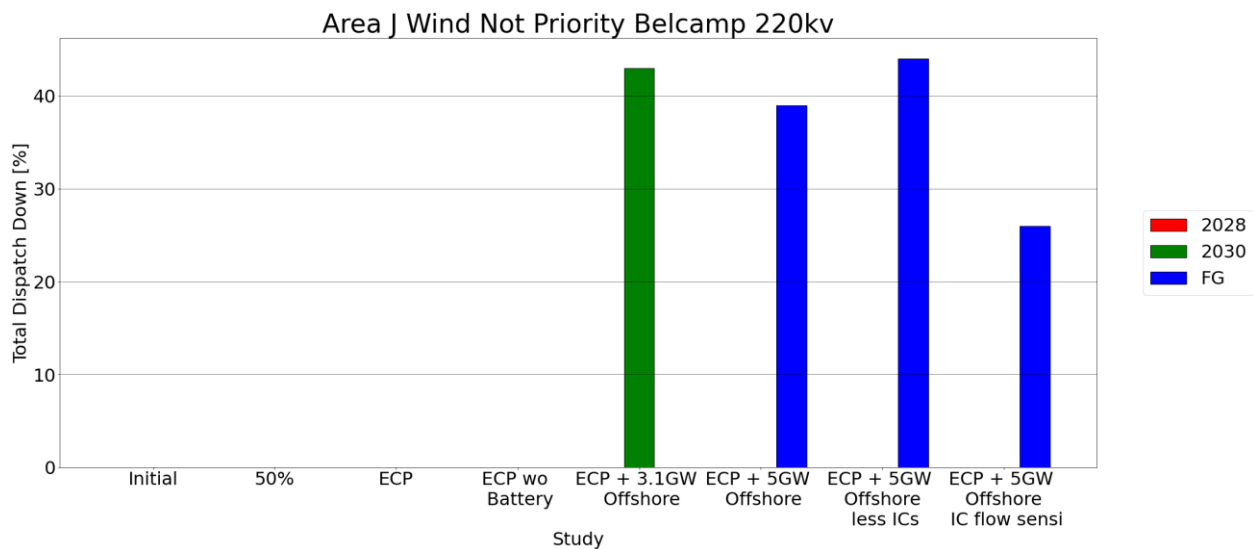


Figure 2-6- Total Dispatch Down for Wind not priority for Node Belcamp 220kv

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028		
Installed Capacity (MW)	2030		500
Available Energy (GWh)	2028		
Available Energy (GWh)	2030		2095
Generation (GWh)	2028		
Generation (GWh)	2030		1185
Surplus (%)	2028		
Surplus (%)	2030		38 %
Curtailment (%)	2028		
Curtailment (%)	2030		3 %
Constraint (%)	2028		
Constraint (%)	2030		3 %
Total Dispatch Down (%)	2028		
Total Dispatch Down (%)	2030		43 %

Table 2-9- Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Belcamp 220kv

2.4 Blundelstown

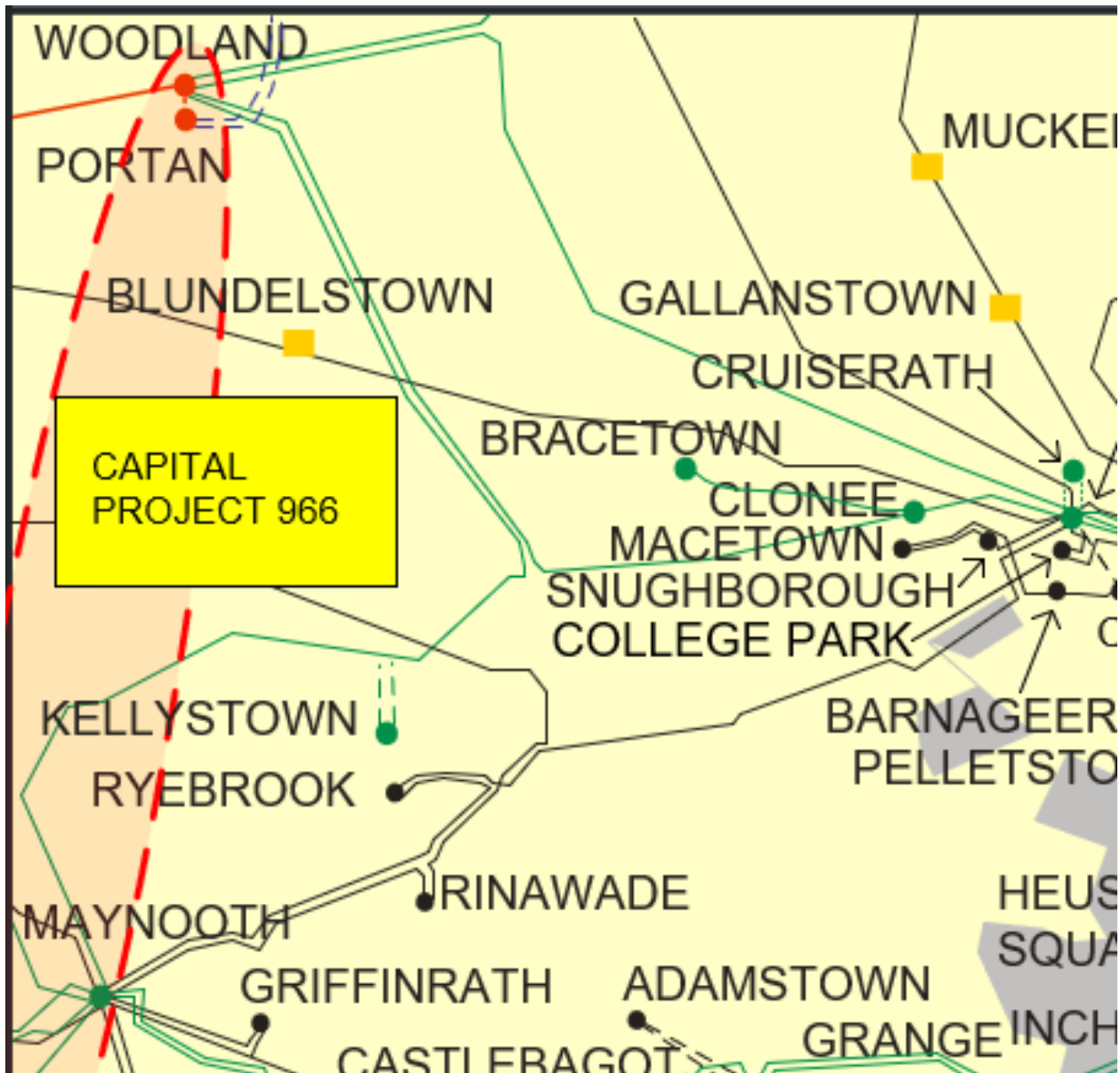


Figure 2-7- Location of node Blundelstown

Generator	SO	Capacity	Type	Status
Blundelstown	TSO	60.0	solar not priority	connected

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

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

Area J	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	60	60	60					
Installed Capacity (MW)	2030	60	60	60	60	60			
Installed Capacity (MW)	FG						60	60	60
Available Energy (GWh)	2028	77	77	77					
Available Energy (GWh)	2030	77	77	77	77	77			
Available Energy (GWh)	FG						77	77	77
Generation (GWh)	2028	64	31	23					
Generation (GWh)	2030	67	44	34	26	33			
Generation (GWh)	FG						36	35	39
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

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

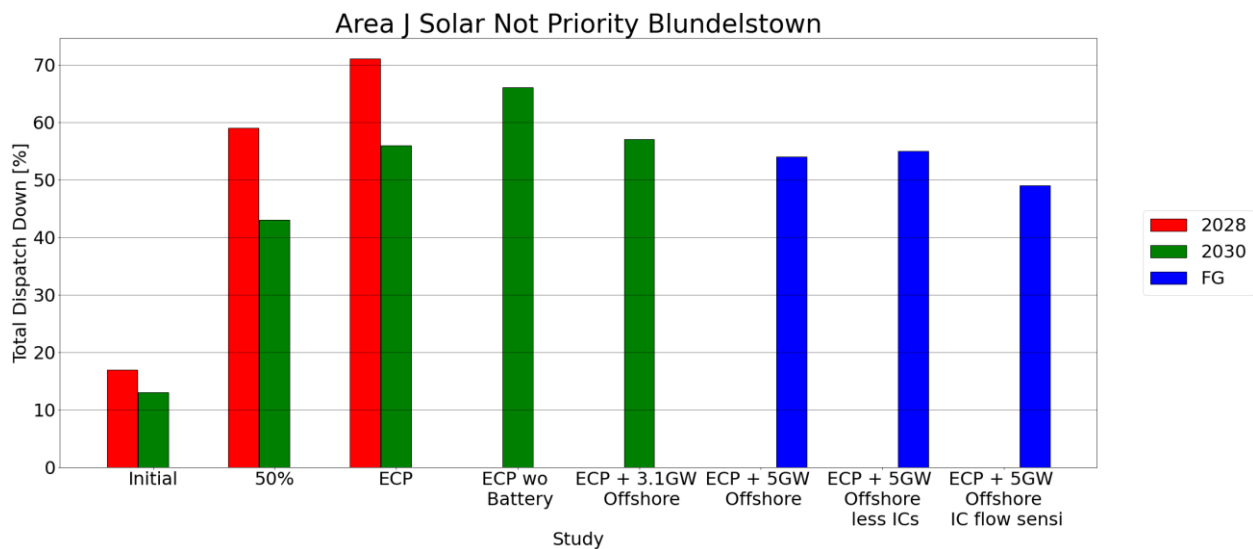


Figure 2-8- Total Dispatch Down for Solar not priority for Node Blundelstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	60	
Installed Capacity (MW)	2030	60	60
Available Energy (GWh)	2028	77	
Available Energy (GWh)	2030	77	77
Generation (GWh)	2028	23	
Generation (GWh)	2030	34	33
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

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

2.5 Bracklone

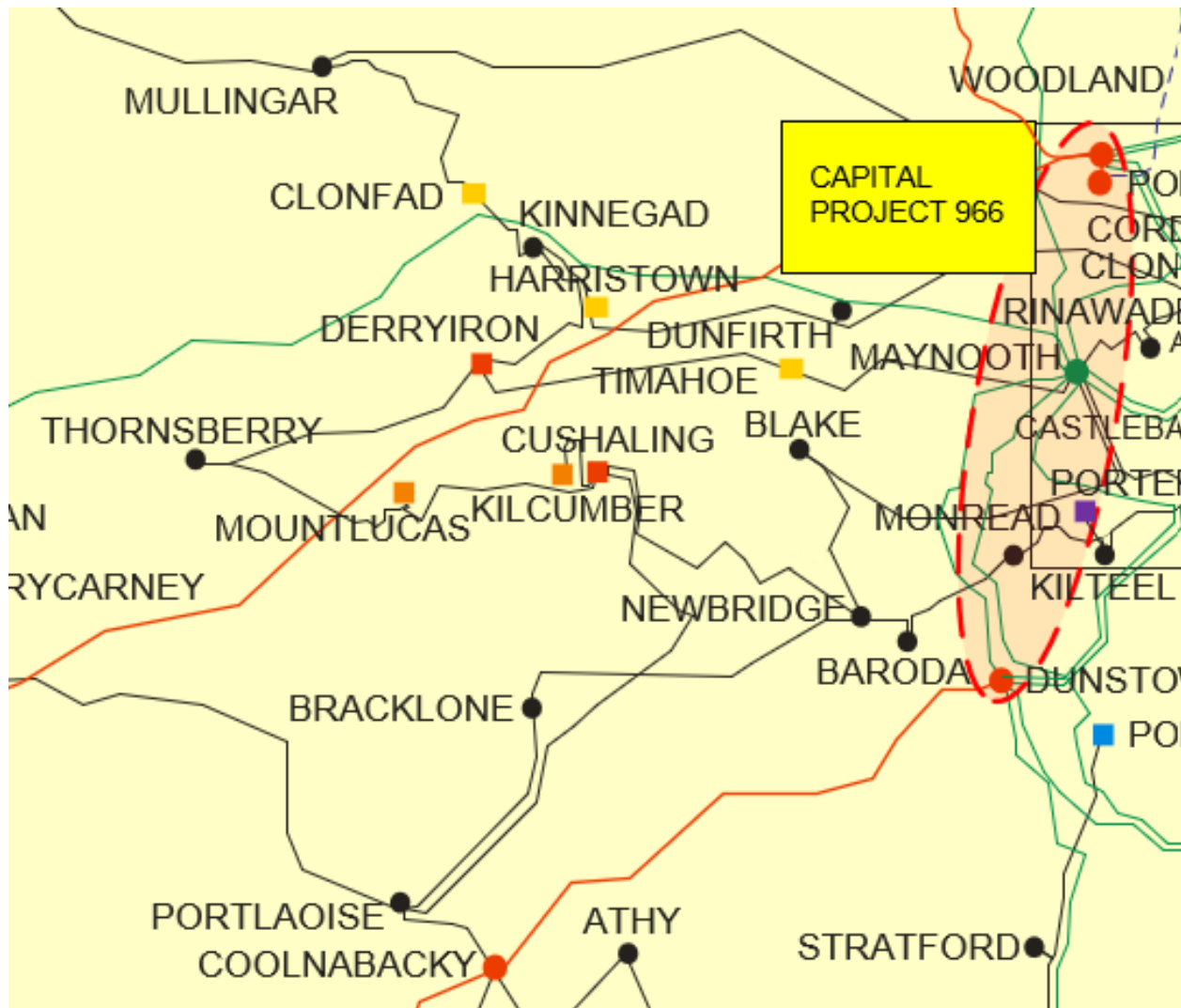


Figure 2-9- Location of node Bracklone

Generator	SO	Capacity	Type	Status
Treascon Solar Farm	TSO	60.0	solar not priority	due to connected
Dernacart Windfarm	TSO	57.6	wind not priority	due to connected
Bishopswood Solar	TSO	25.0	solar not priority	due to connected

Table 2-13- Generation Included in Study for Node Bracklone

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

Area J	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	85					
Installed Capacity (MW)	2030		42	85	85	85			
Installed Capacity (MW)	FG						85	85	85
Available Energy (GWh)	2028		55	109					
Available Energy (GWh)	2030		54	109	109	109			
Available Energy (GWh)	FG						109	109	109
Generation (GWh)	2028		22	32					
Generation (GWh)	2030		31	48	37	47			
Generation (GWh)	FG						50	50	55
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-14- Surplus, Curtailment and Constraint for Solar non-priority for Node Bracklone

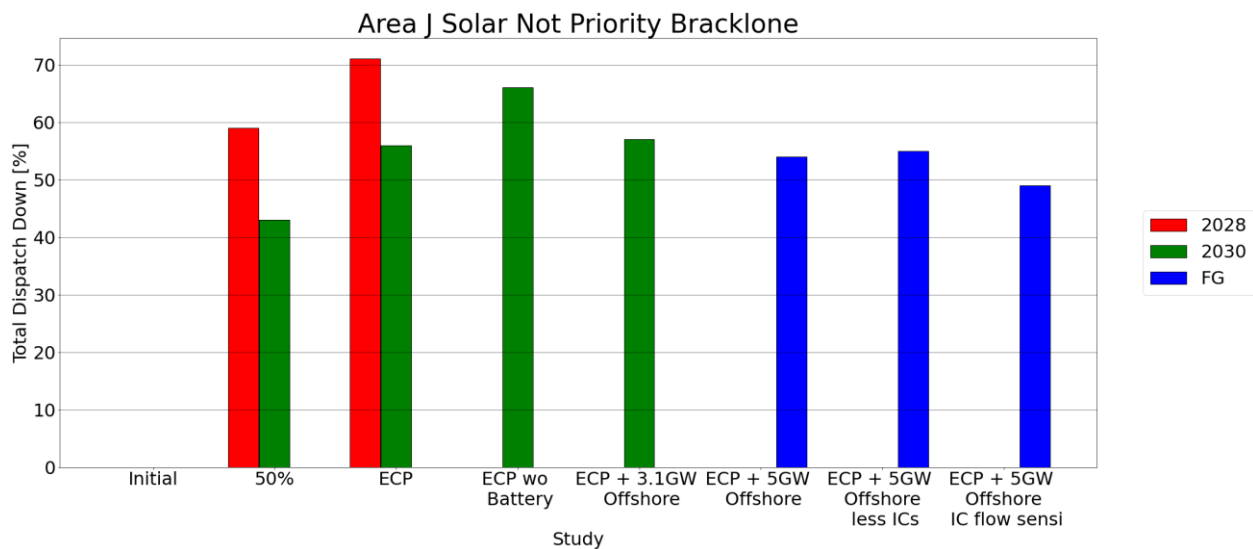


Figure 2-10 - Total Dispatch Down for Solar not priority for Node Bracklone

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	85	
Installed Capacity (MW)	2030	85	85
Available Energy (GWh)	2028	109	
Available Energy (GWh)	2030	109	109
Generation (GWh)	2028	32	
Generation (GWh)	2030	48	47
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-15- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Bracklone

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

Area J	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		29	58					
Installed Capacity (MW)	2030		29	58	58	58			
Installed Capacity (MW)	FG						58	58	58
Available Energy (GWh)	2028		89	179					
Available Energy (GWh)	2030		89	178	178	178			
Available Energy (GWh)	FG						178	178	178
Generation (GWh)	2028		35	48					
Generation (GWh)	2030		45	81	75	81			
Generation (GWh)	FG						96	93	116
Surplus (%)	2028		23 %	29 %					
Surplus (%)	2030		24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		33 %	39 %					
Constraint (%)	2030		21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028		61 %	73 %					
Total Dispatch Down (%)	2030		49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 2-16- Surplus, Curtailment and Constraint for Wind non-priority for Node Bracklone

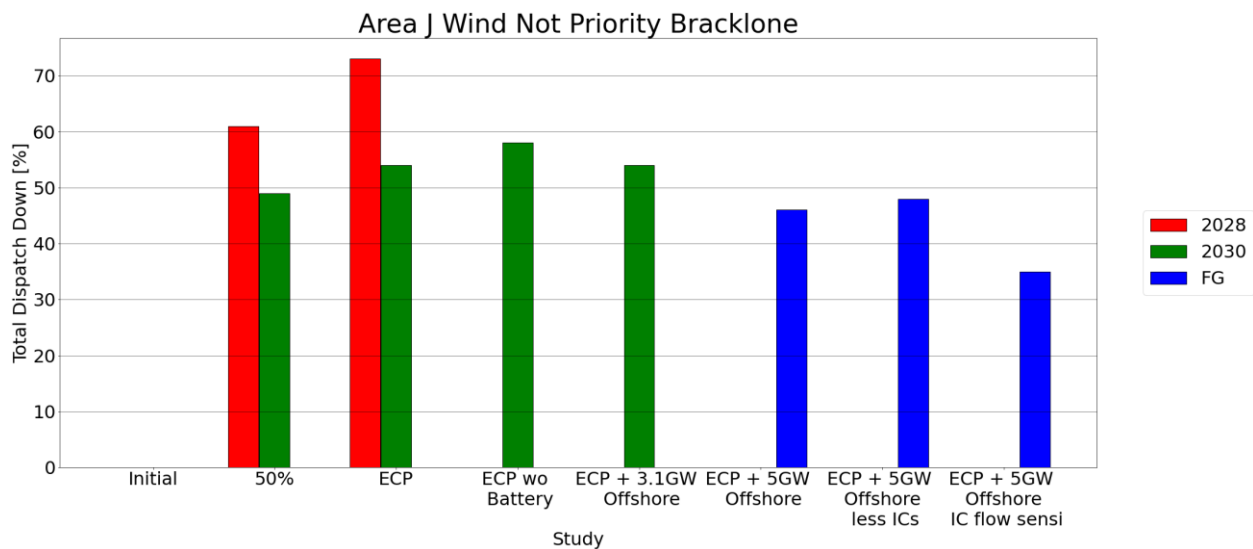


Figure 2-11- Total Dispatch Down for Wind not priority for Node Bracklone

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	58	
Installed Capacity (MW)	2030	58	58
Available Energy (GWh)	2028	179	
Available Energy (GWh)	2030	178	178
Generation (GWh)	2028	55	
Generation (GWh)	2030	84	82
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-17- Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Bracklone

2.6 Bracklyn

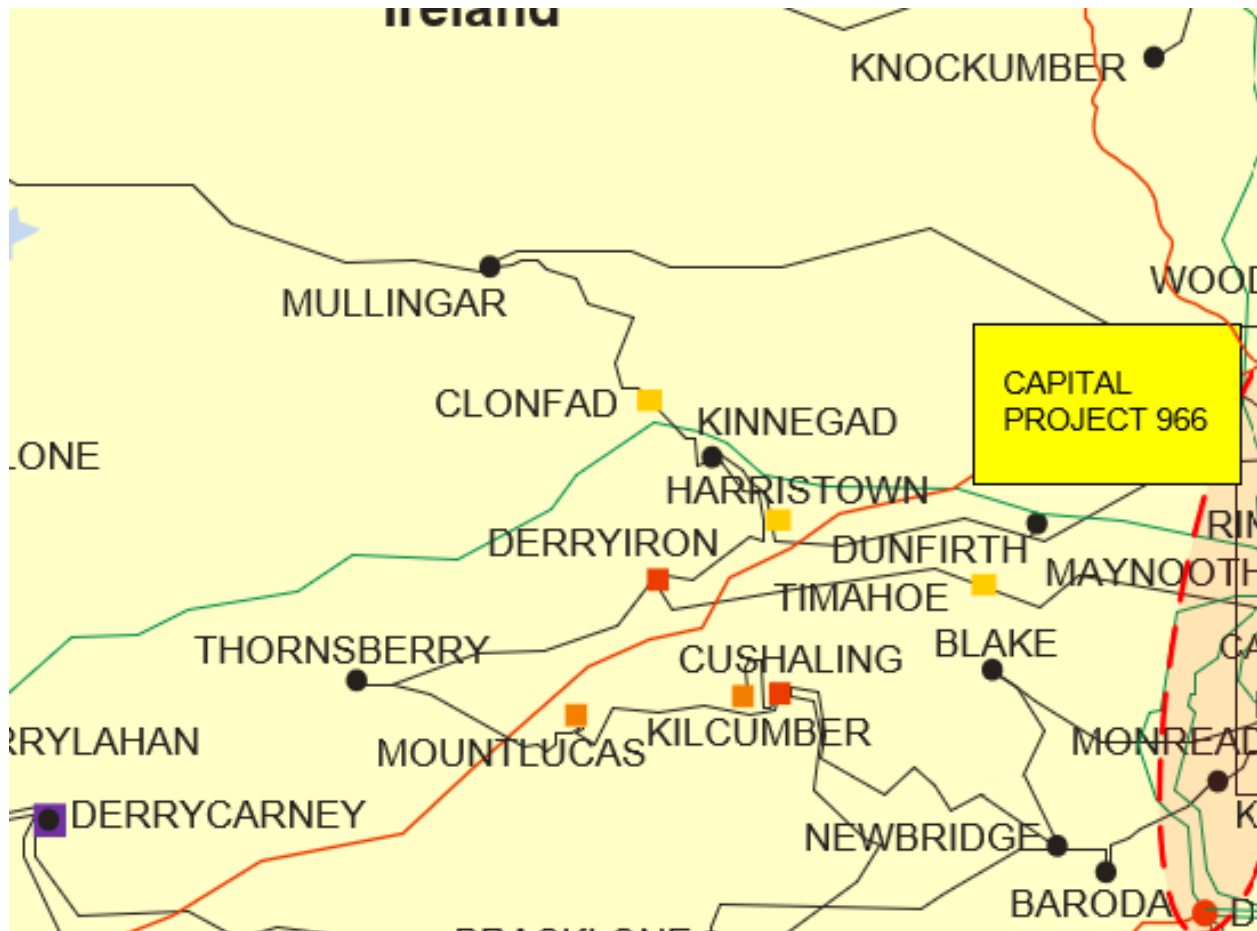


Figure 2-12- Location of node Bracklyn

Generator	SO	Capacity	Type	Status
Bracklyn Wind Farm (Wind)	TSO	64.8	wind not priority	due to connected

Table 2-18 - Generation Included in Study for Node Bracklyn

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

Area J	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		32	65					
Installed Capacity (MW)	2030		32	65	65	65			
Installed Capacity (MW)	FG						65	65	65
Available Energy (GWh)	2028		101	201					
Available Energy (GWh)	2030		100	200	200	200			
Available Energy (GWh)	FG						200	200	200
Generation (GWh)	2028		39	55					
Generation (GWh)	2030		51	91	85	91			
Generation (GWh)	FG						108	104	131
Surplus (%)	2028		23 %	29 %					
Surplus (%)	2030		24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		33 %	39 %					
Constraint (%)	2030		21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028		61 %	73 %					
Total Dispatch Down (%)	2030		49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 2-19- Surplus, Curtailement and Constraint for Wind non-priority for Node Bracklyn

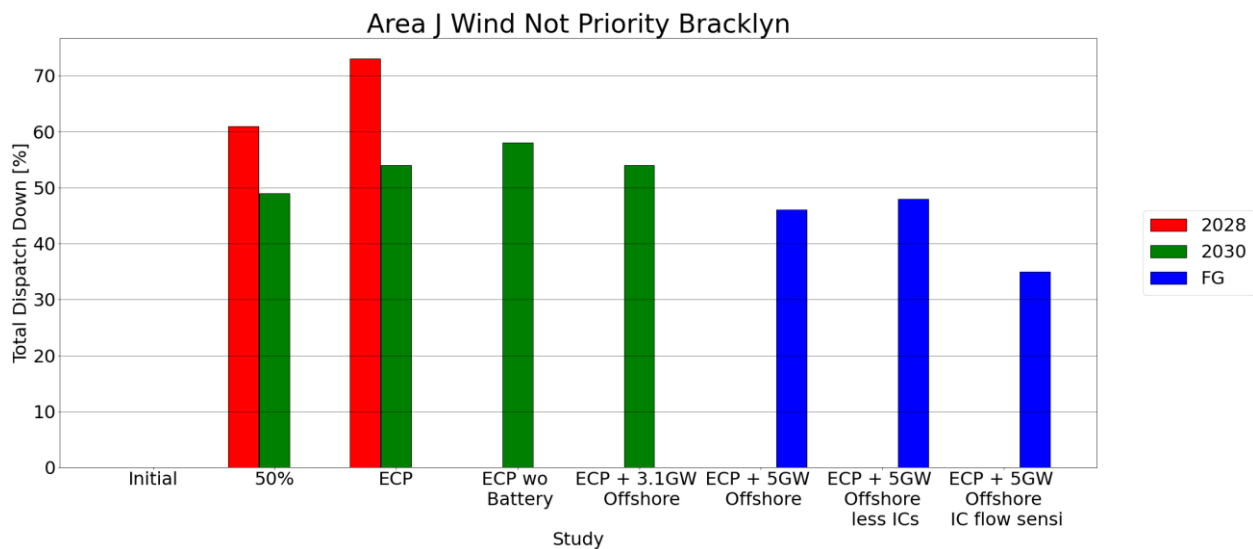


Figure 2-13 - Total Dispatch Down for Wind not priority for Node Bracklyn

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	65	
Installed Capacity (MW)	2030	65	65
Available Energy (GWh)	2028	201	
Available Energy (GWh)	2030	200	200
Generation (GWh)	2028	62	
Generation (GWh)	2030	95	92
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-20- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Bracklyn

2.7 Carrickmines 220kV

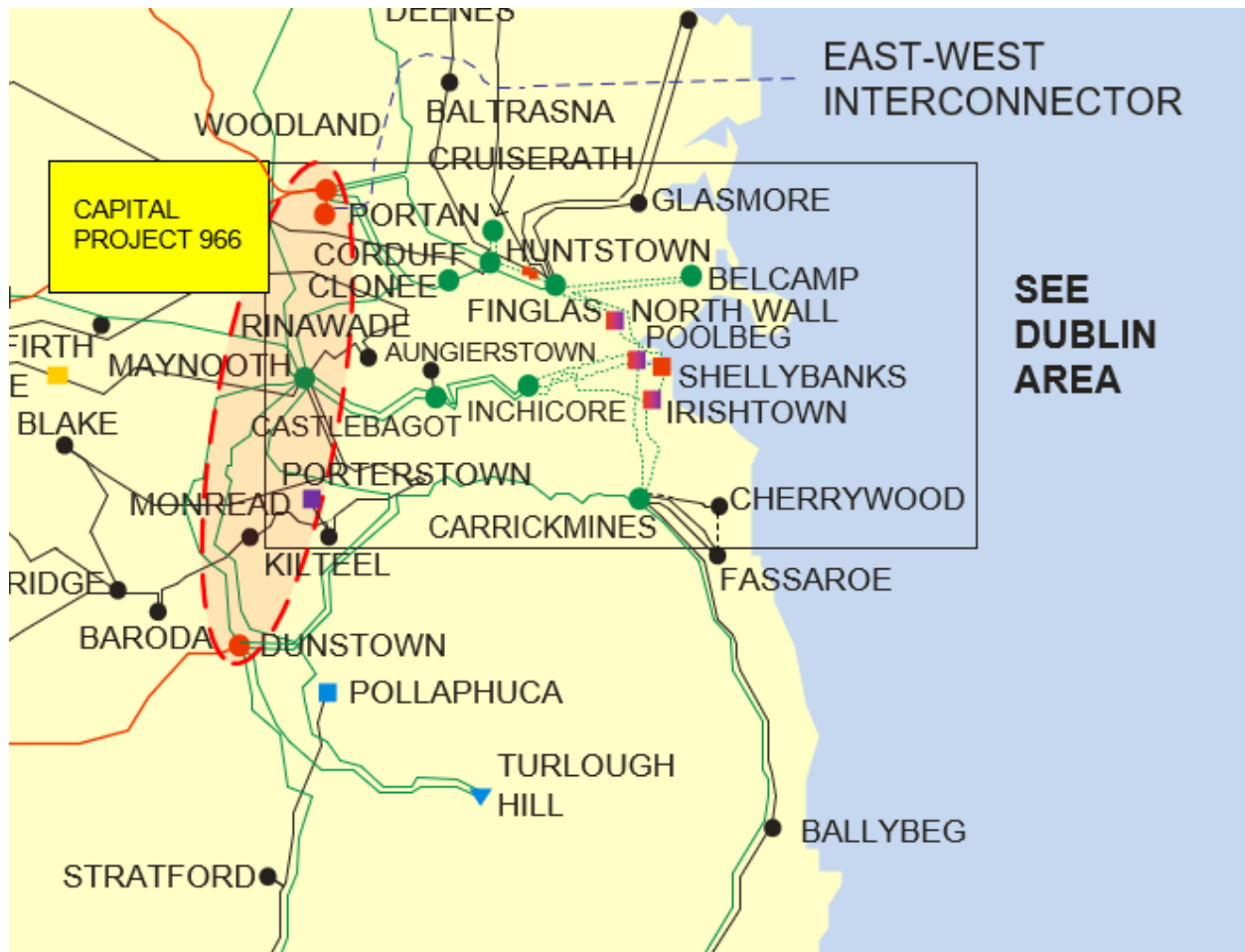


Figure 2-14 - Location of node Carrickmines 220kV

Generator	SO	Capacity	Type	Status
Kish Bank (Dublin Array)	TSO	412.0	wind not priority	due to connected
Bray Bank (Dublin Array)	TSO	412.0	wind not priority	due to connected

Table 2-21 - Generation Included in Study for Node Carrickmines 220kV

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

Area J	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					824			
Installed Capacity (MW)	FG						824	824	824
Available Energy (GWh)	2028								
Available Energy (GWh)	2030					3313			
Available Energy (GWh)	FG						3313	3313	3313
Generation (GWh)	2028								
Generation (GWh)	2030					1839			
Generation (GWh)	FG						1980	1839	2447
Surplus (%)	2028								
Surplus (%)	2030					39 %			
Surplus (%)	FG						31 %	36 %	19 %
Curtailement (%)	2028								
Curtailement (%)	2030					3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030					3 %			
Constraint (%)	FG						7 %	6 %	5 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030					44 %			
Total Dispatch Down (%)	FG						40 %	44 %	26 %

Table 2-22 - Surplus, Curtailement and Constraint for Wind non-priority for Node Carrickmines 220kV

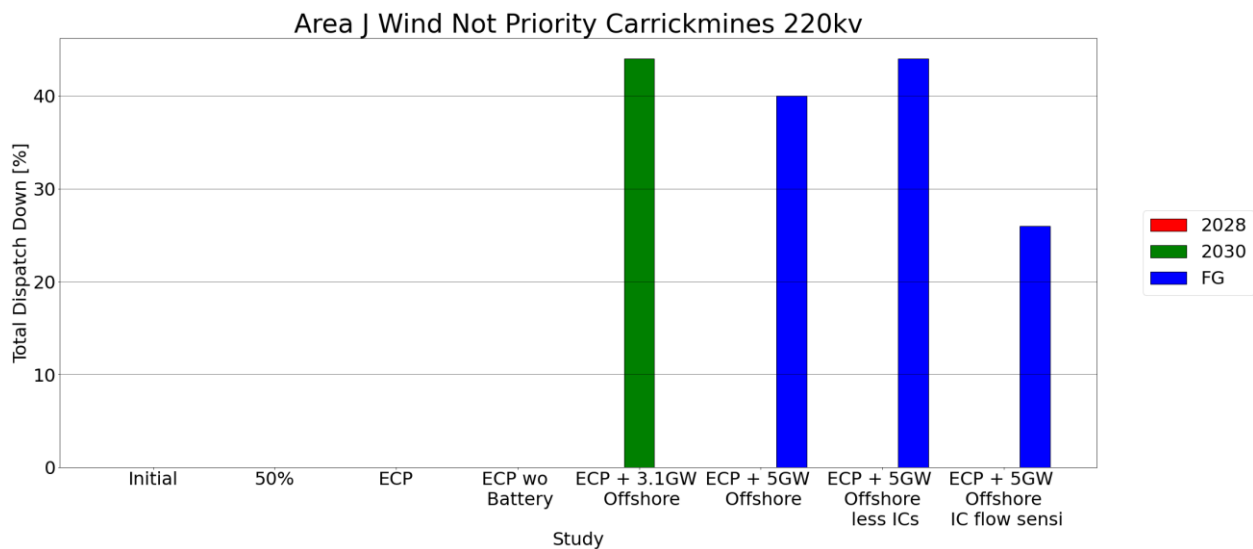


Figure 2-15 - Total Dispatch Down for Wind not priority for Node Carrickmines 220kV

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028		
Installed Capacity (MW)	2030		824
Available Energy (GWh)	2028		
Available Energy (GWh)	2030		3313
Generation (GWh)	2028		
Generation (GWh)	2030		1839
Surplus (%)	2028		
Surplus (%)	2030		39 %
Curtailement (%)	2028		
Curtailement (%)	2030		3 %
Constraint (%)	2028		
Constraint (%)	2030		3 %
Total Dispatch Down (%)	2028		
Total Dispatch Down (%)	2030		44 %

Table 2-23- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Carrickmines 220kV

2.8 Clonfad

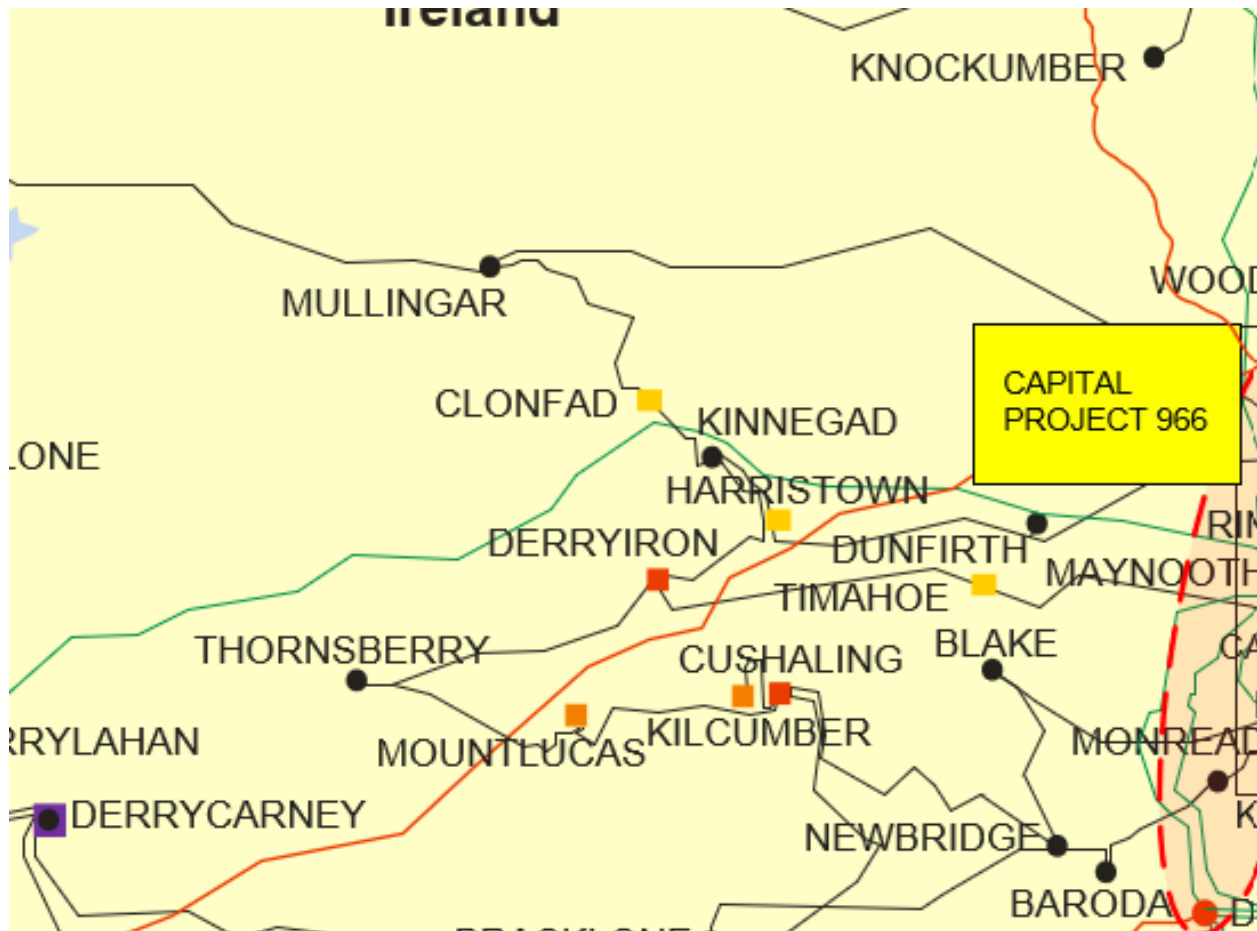


Figure 2-16- Location of node Clonfad

Generator	SO	Capacity	Type	Status
Clonfad Solar	TSO	100.0	solar not priority	due to connected

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

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

Area J	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	100	100	100					
Installed Capacity (MW)	2030	100	100	100	100	100			
Installed Capacity (MW)	FG						100	100	100
Available Energy (GWh)	2028	128	128	128					
Available Energy (GWh)	2030	128	128	128	128	128			
Available Energy (GWh)	FG						128	128	128
Generation (GWh)	2028	106	52	38					
Generation (GWh)	2030	111	73	56	44	55			
Generation (GWh)	FG						59	58	65
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-25- Surplus, Curtailement and Constraint for Solar non-priority for Node Clonfad

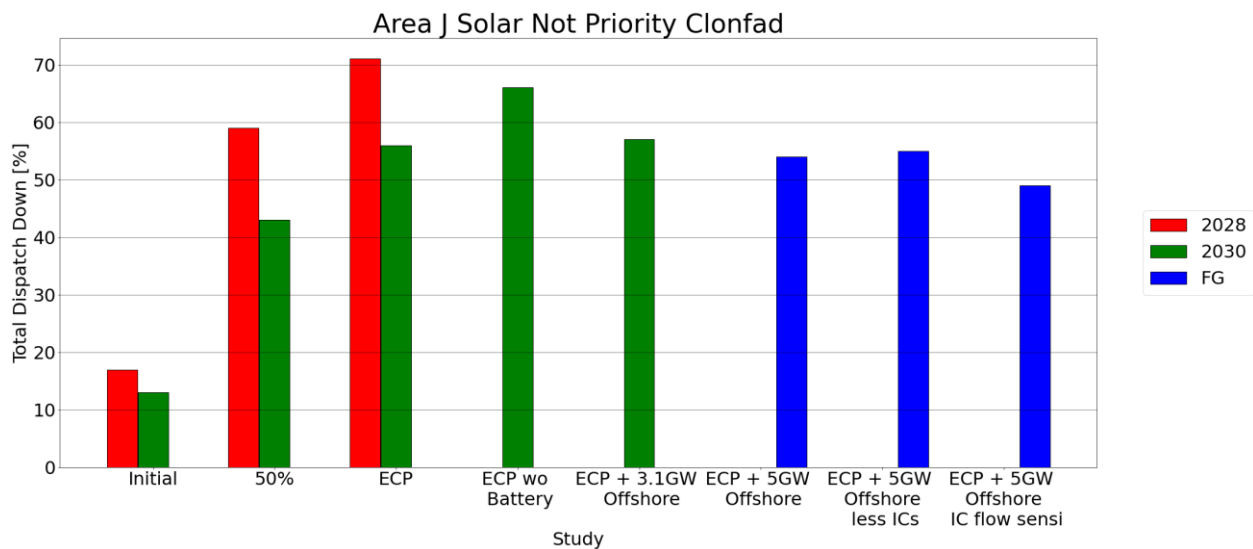


Figure 2-17- Total Dispatch Down for Solar not priority for Node Clonfad

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	100	
Installed Capacity (MW)	2030	100	100
Available Energy (GWh)	2028	128	
Available Energy (GWh)	2030	128	128
Generation (GWh)	2028	38	
Generation (GWh)	2030	56	55
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

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

2.9 Coolnabacky

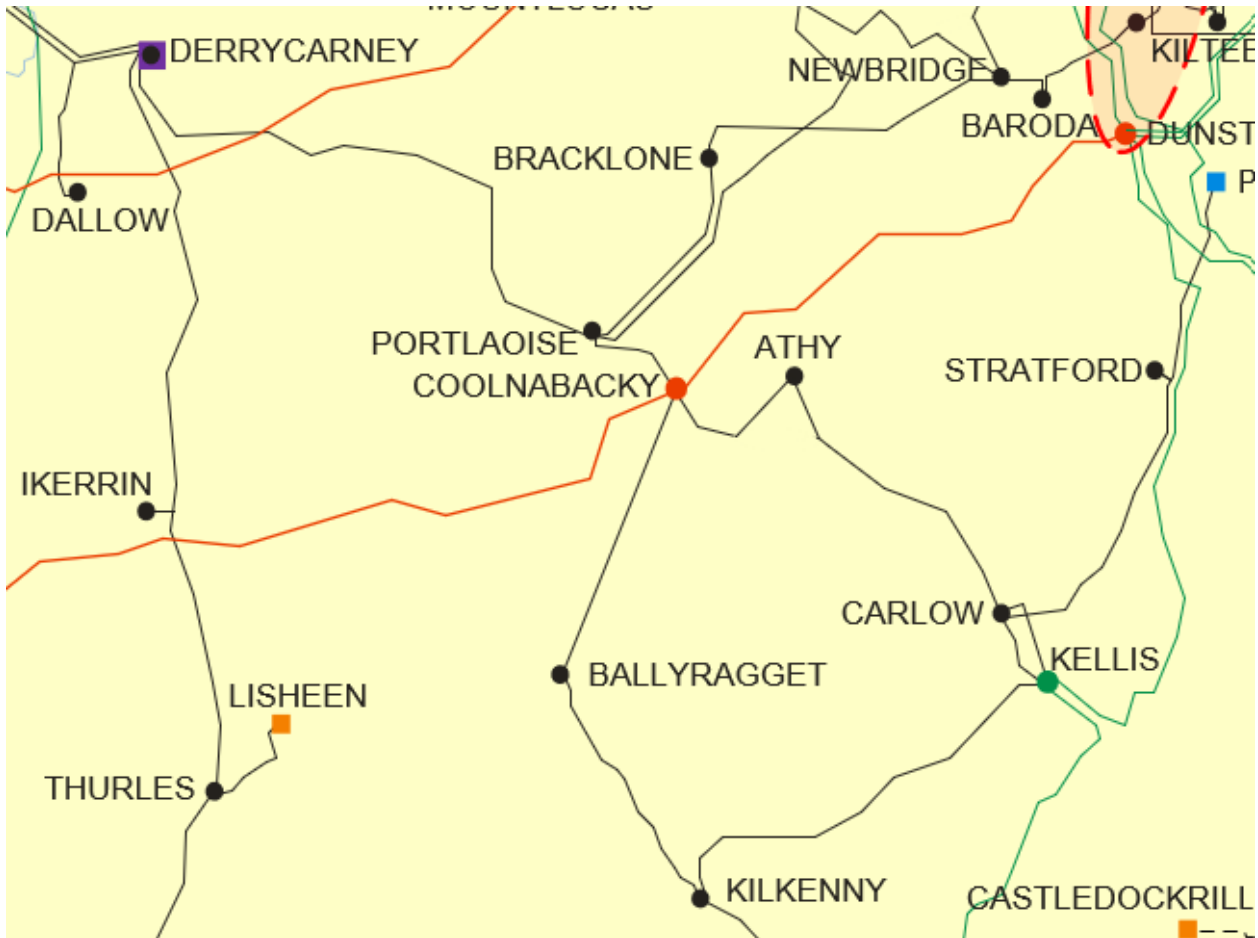


Figure 2-18- Location of node Coolnabacky

Generator	SO	Capacity	Type	Status
Loughteague	TSO	55.0	solar not priority	due to connected
East Laois Solar Farm Extension	TSO	25.0	solar not priority	due to connected

Table 2-27- Generation Included in Study for Node Coolnabacky

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

Area J	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		40	80					
Installed Capacity (MW)	2030		40	80	80	80			
Installed Capacity (MW)	FG						80	80	80
Available Energy (GWh)	2028		51	103					
Available Energy (GWh)	2030		51	103	103	103			
Available Energy (GWh)	FG						103	103	103
Generation (GWh)	2028		21	30					
Generation (GWh)	2030		29	45	35	44			
Generation (GWh)	FG						47	47	52
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-28- Surplus, Curtailment and Constraint for Solar non-priority for Node Coolnabacky

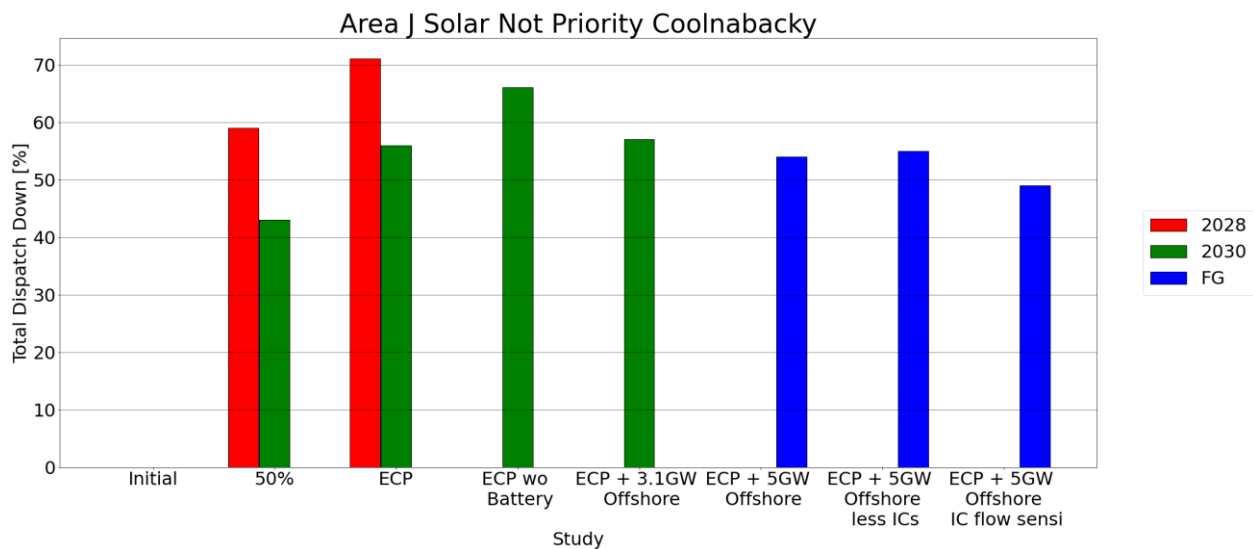


Figure 2-19 - Total Dispatch Down for Solar not priority for Node Coolnabacky

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	80	
Installed Capacity (MW)	2030	80	80
Available Energy (GWh)	2028	103	
Available Energy (GWh)	2030	103	103
Generation (GWh)	2028	30	
Generation (GWh)	2030	45	44
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-29- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Coolnabacky

2.10 Craddanstown

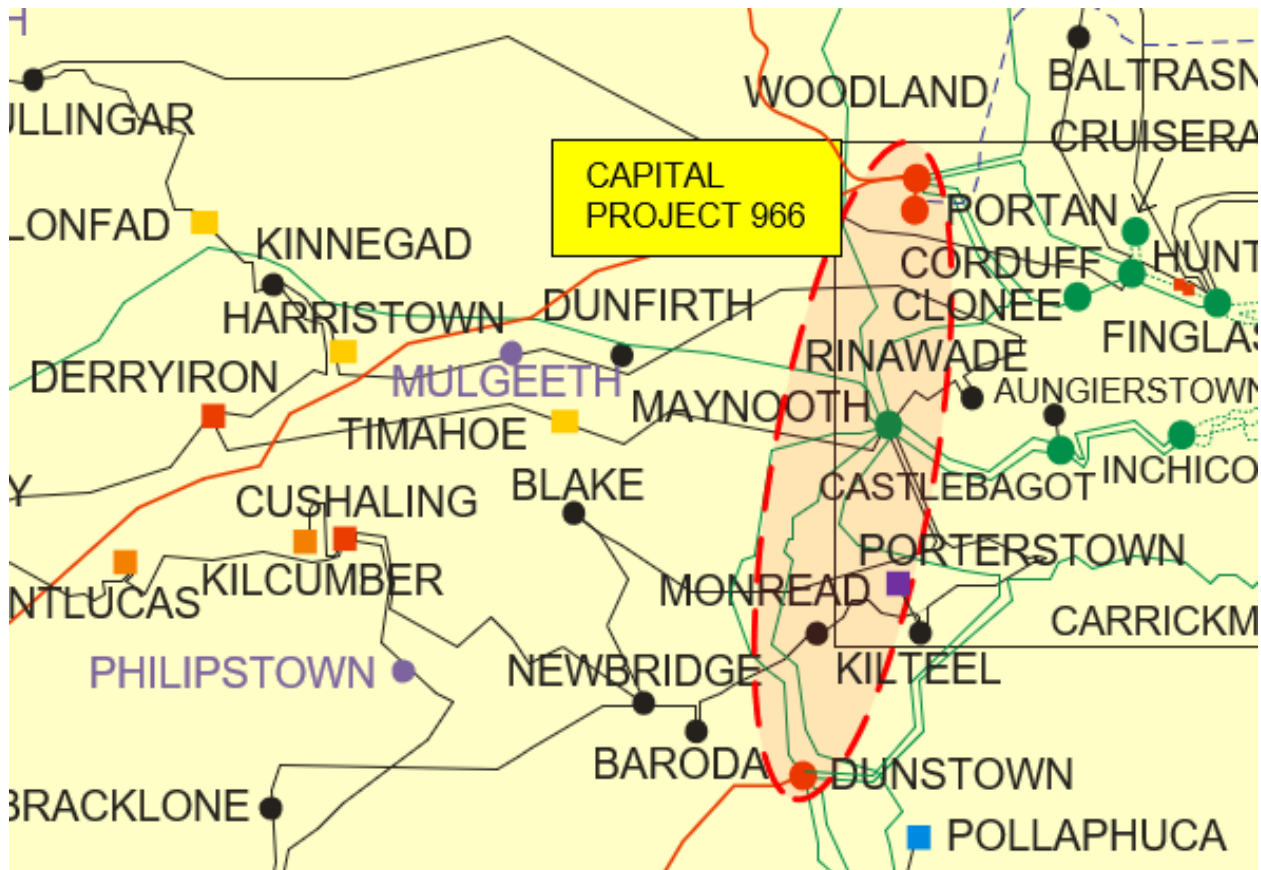


Figure 2-20- Location of node Craddanstown

Generator	SO	Capacity	Type	Status
Ballivor	TSO	182.0	wind not priority	due to connected

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

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

Area J	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		91	182					
Installed Capacity (MW)	2030		91	182	182	182			
Installed Capacity (MW)	FG						182	182	182
Available Energy (GWh)	2028		283	565					
Available Energy (GWh)	2030		281	561	561	561			
Available Energy (GWh)	FG						561	561	561
Generation (GWh)	2028		110	153					
Generation (GWh)	2030		143	256	238	255			
Generation (GWh)	FG						302	293	367
Surplus (%)	2028		23 %	29 %					
Surplus (%)	2030		24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		33 %	39 %					
Constraint (%)	2030		21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028		61 %	73 %					
Total Dispatch Down (%)	2030		49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 2-31 - Surplus, Curtailement and Constraint for Wind non-priority for Node Craddanstown

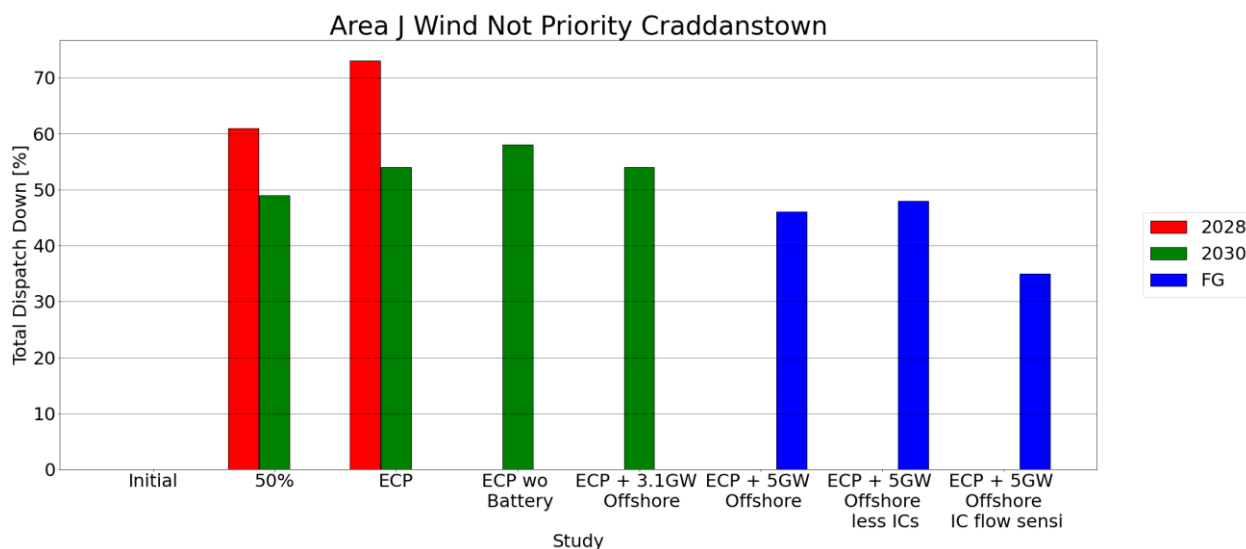


Figure 2-21 - Total Dispatch Down for Wind not priority for Node Craddanstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	182	
Installed Capacity (MW)	2030	182	182
Available Energy (GWh)	2028	565	
Available Energy (GWh)	2030	561	561
Generation (GWh)	2028	173	
Generation (GWh)	2030	266	259
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-32- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Craddanstown

2.11 Crakenstown

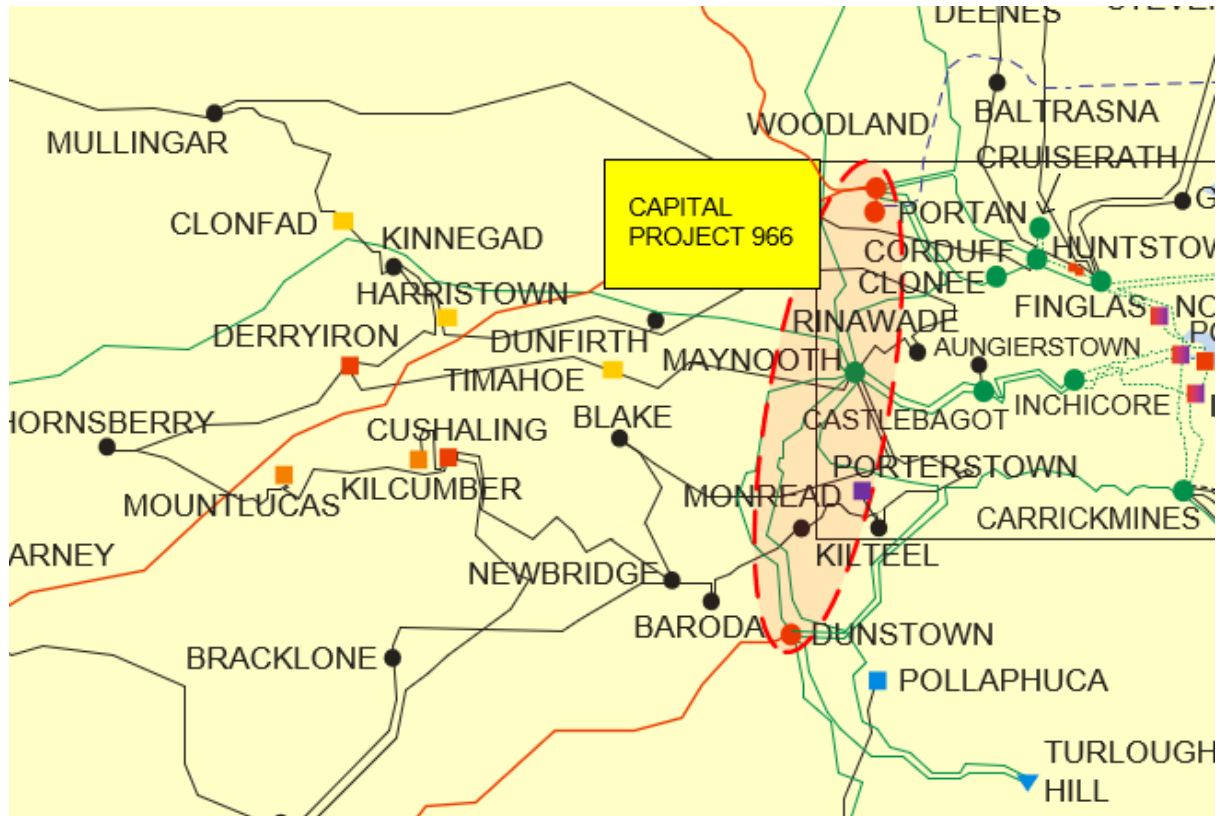


Figure 2-22 - Location of node Crakenstown

Generator	SO	Capacity	Type	Status
Darthogue Solar Farm	TSO	47.0	solar not priority	due to connected
Reask Solar Farm	TSO	55.0	solar not priority	due to connected
Darthogue Solar Farm Extension	TSO	70.0	solar not priority	due to connected
Kilrue Solar	TSO	195.0	solar not priority	due to connected
Reask Phase 2	TSO	30.0	solar not priority	due to connected
Kilrue Solar extension	TSO	175.0	solar not priority	due to connected

Table 2-33 - Generation Included in Study for Node Crakenstown

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

Area J	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		286	572					
Installed Capacity (MW)	2030		286	572	572	572			
Installed Capacity (MW)	FG						572	572	572
Available Energy (GWh)	2028		367	734					
Available Energy (GWh)	2030		366	733	733	733			
Available Energy (GWh)	FG						733	733	733
Generation (GWh)	2028		296	486					
Generation (GWh)	2030		301	514	433	477			
Generation (GWh)	FG						550	501	585
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	5 %					
Constraint (%)	2030		0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028		19 %	34 %					
Total Dispatch Down (%)	2030		18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-34 - Surplus, Curtailement and Constraint for Solar non-priority for Node Crakenstown

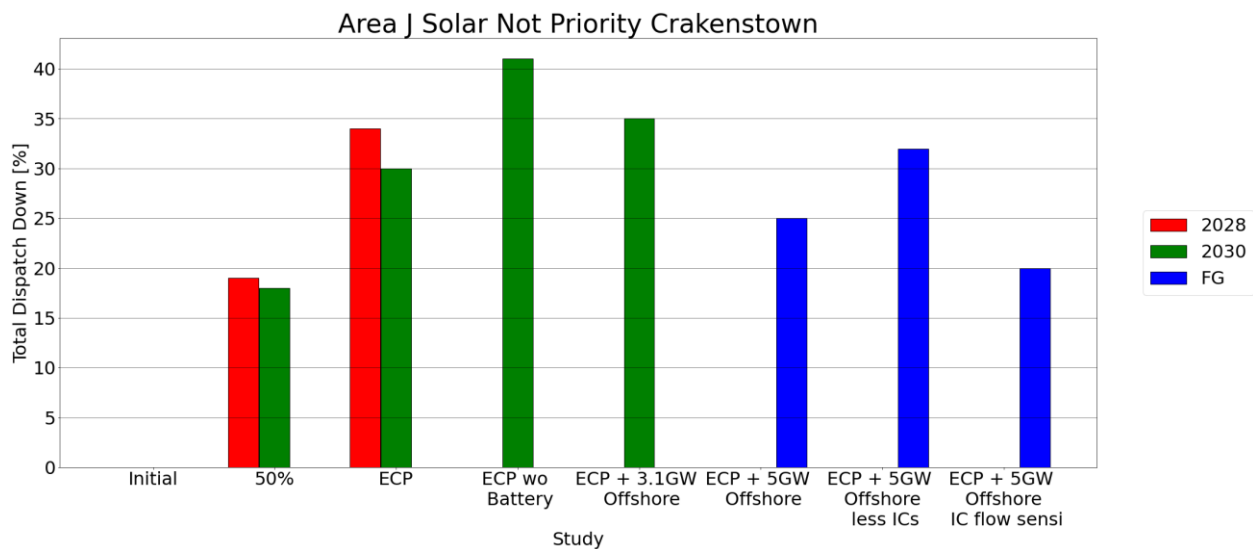


Figure 2-23 - Total Dispatch Down for Solar not priority for Node Crakenstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	572	
Installed Capacity (MW)	2030	572	572
Available Energy (GWh)	2028	734	
Available Energy (GWh)	2030	733	733
Generation (GWh)	2028	486	
Generation (GWh)	2030	514	477
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-35- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Crakenstown

2.12 Curraghdoo

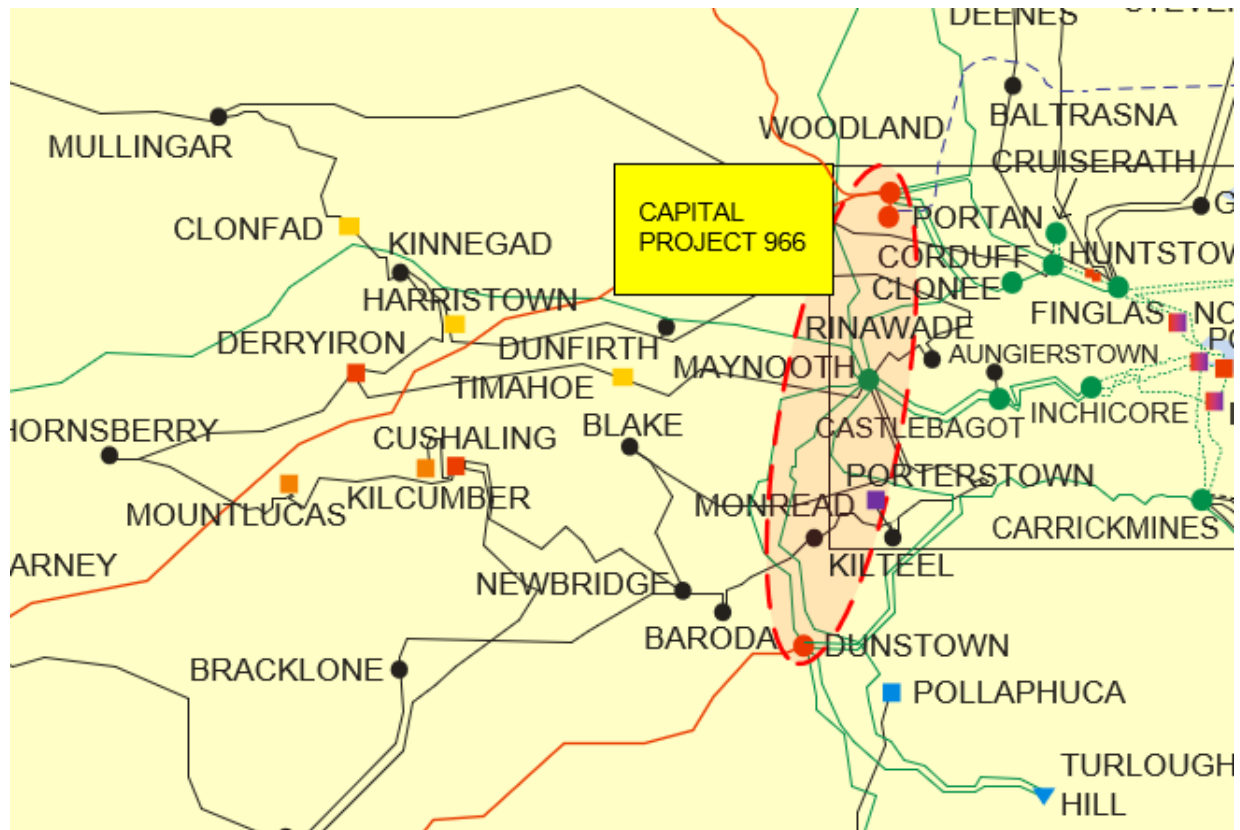


Figure 2-24 - Location of node Curraghdoo

Generator	SO	Capacity	Type	Status
Clonmeath Solar ph2	TSO	4.0	solar not priority	due to connected

Table 2-36- Generation Included in Study for Node Curraghdoo

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

Area J	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		2	4					
Installed Capacity (MW)	2030		2	4	4	4			
Installed Capacity (MW)	FG						4	4	4
Available Energy (GWh)	2028		3	5					
Available Energy (GWh)	2030		3	5	5	5			
Available Energy (GWh)	FG						5	5	5
Generation (GWh)	2028		1	2					
Generation (GWh)	2030		1	2	2	2			
Generation (GWh)	FG						2	2	3
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-37- Surplus, Curtailment and Constraint for Solar non-priority for Node Curraghdoo

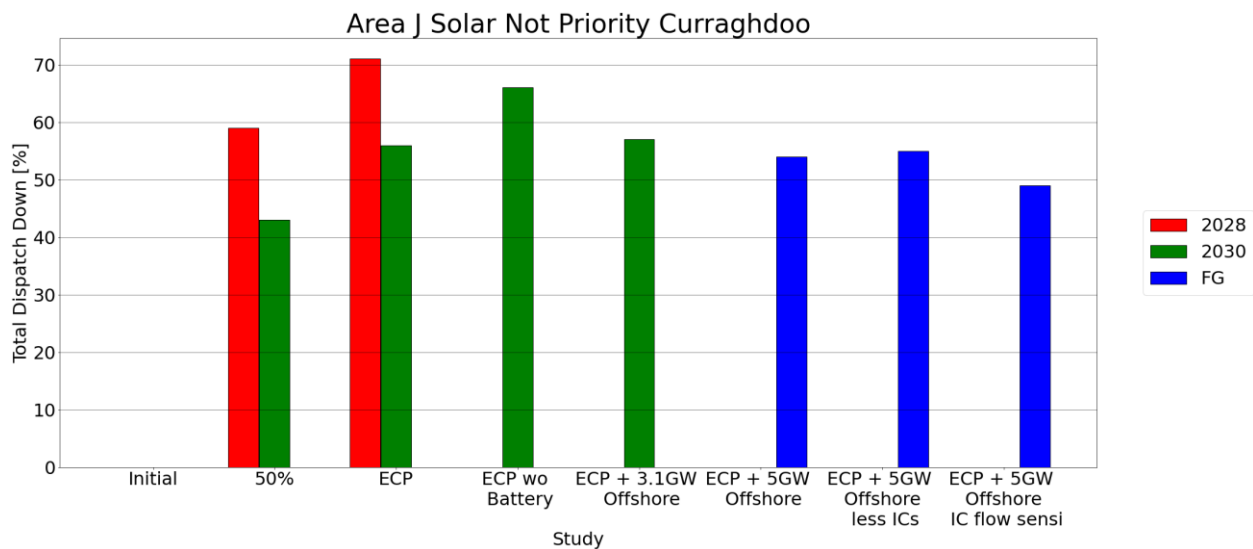


Figure 2-25 - Total Dispatch Down for Solar not priority for Node Curraghdoo

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	4	
Installed Capacity (MW)	2030	4	4
Available Energy (GWh)	2028	5	
Available Energy (GWh)	2030	5	5
Generation (GWh)	2028	2	
Generation (GWh)	2030	2	2
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-38- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Curraghdoo

2.13 Cushaling

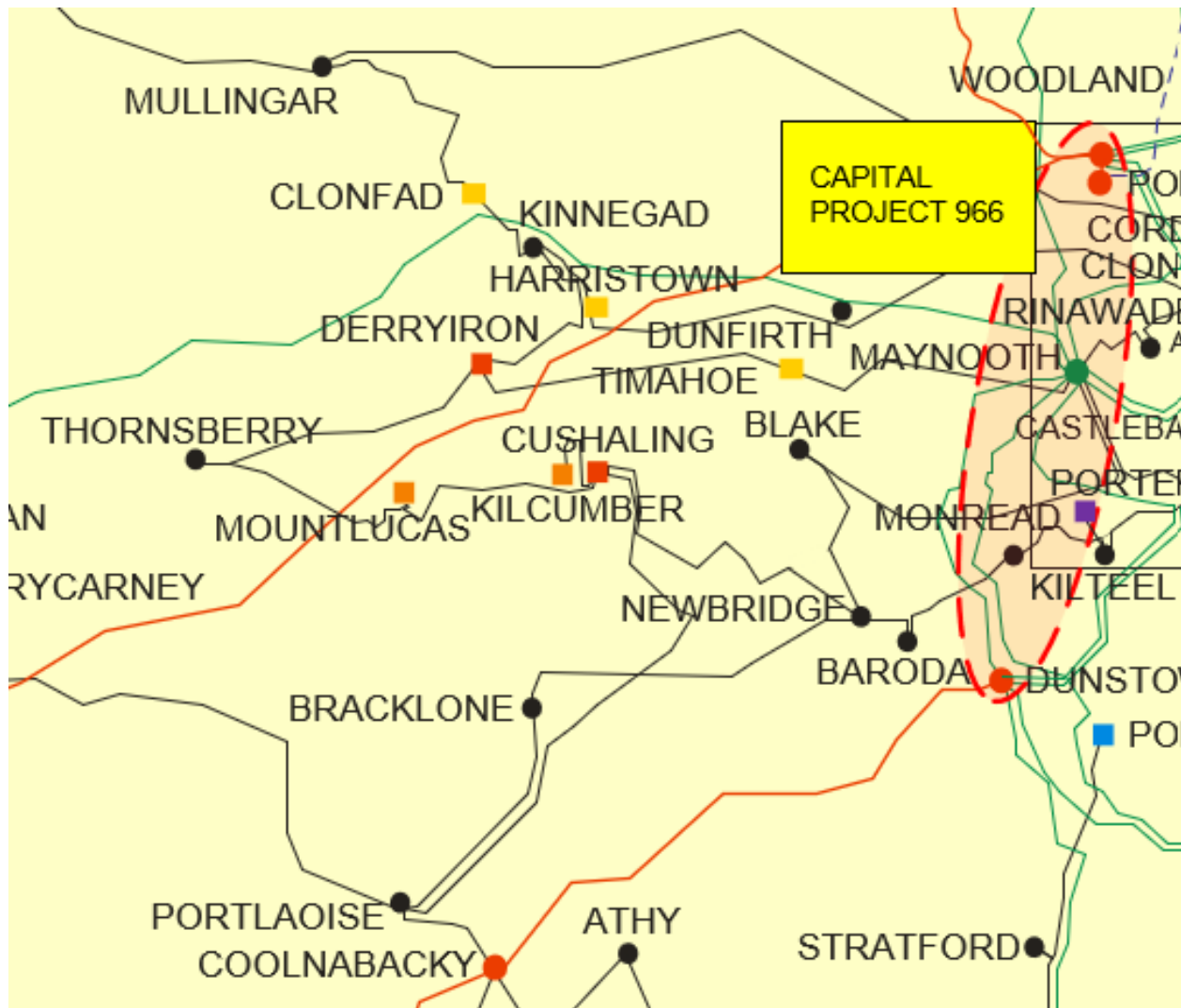


Figure 2-26 - Location of node Cushaling

Generator	SO	Capacity	Type	Status
Clonreen Wind farm	TSO	75.0	wind not priority	connected

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

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

Area J	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	75	75	75					
Installed Capacity (MW)	2030	75	75	75	75	75			
Installed Capacity (MW)	FG						75	75	75
Available Energy (GWh)	2028	233	233	233					
Available Energy (GWh)	2030	231	231	231	231	231			
Available Energy (GWh)	FG						231	231	231
Generation (GWh)	2028	124	90	63					
Generation (GWh)	2030	141	118	105	98	105			
Generation (GWh)	FG						125	121	151
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028	7 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	22 %	33 %	39 %					
Constraint (%)	2030	21 %	21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028	47 %	61 %	73 %					
Total Dispatch Down (%)	2030	39 %	49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

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

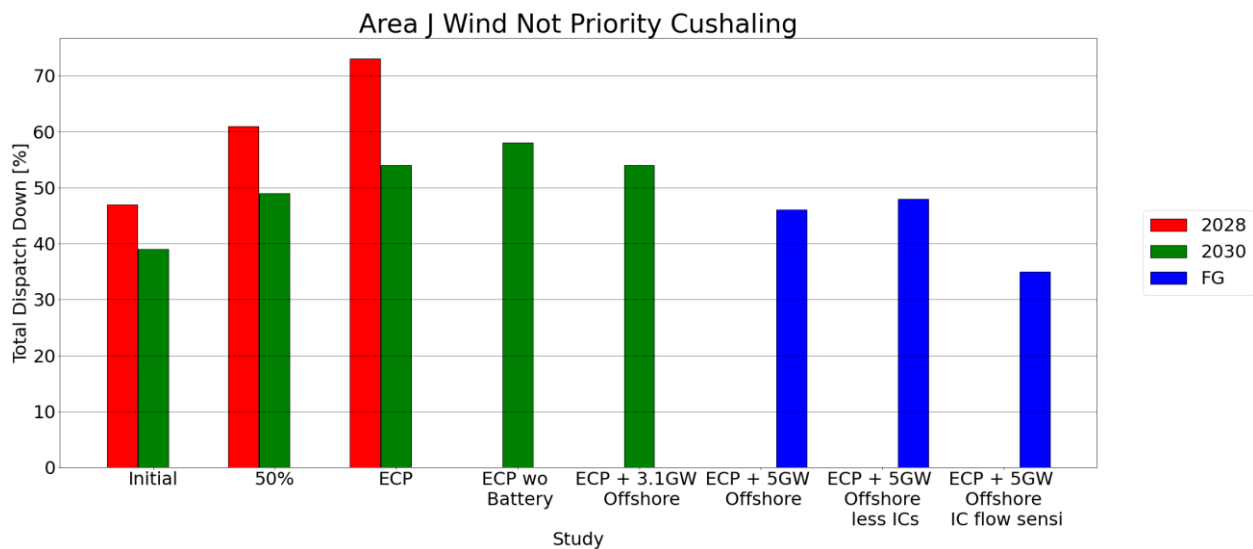


Figure 2-27 - Total Dispatch Down for Wind not priority for Node Cushaling

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	75	
Installed Capacity (MW)	2030	75	75
Available Energy (GWh)	2028	233	
Available Energy (GWh)	2030	231	231
Generation (GWh)	2028	71	
Generation (GWh)	2030	110	107
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-41- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Cushaling

2.14 Derryiron

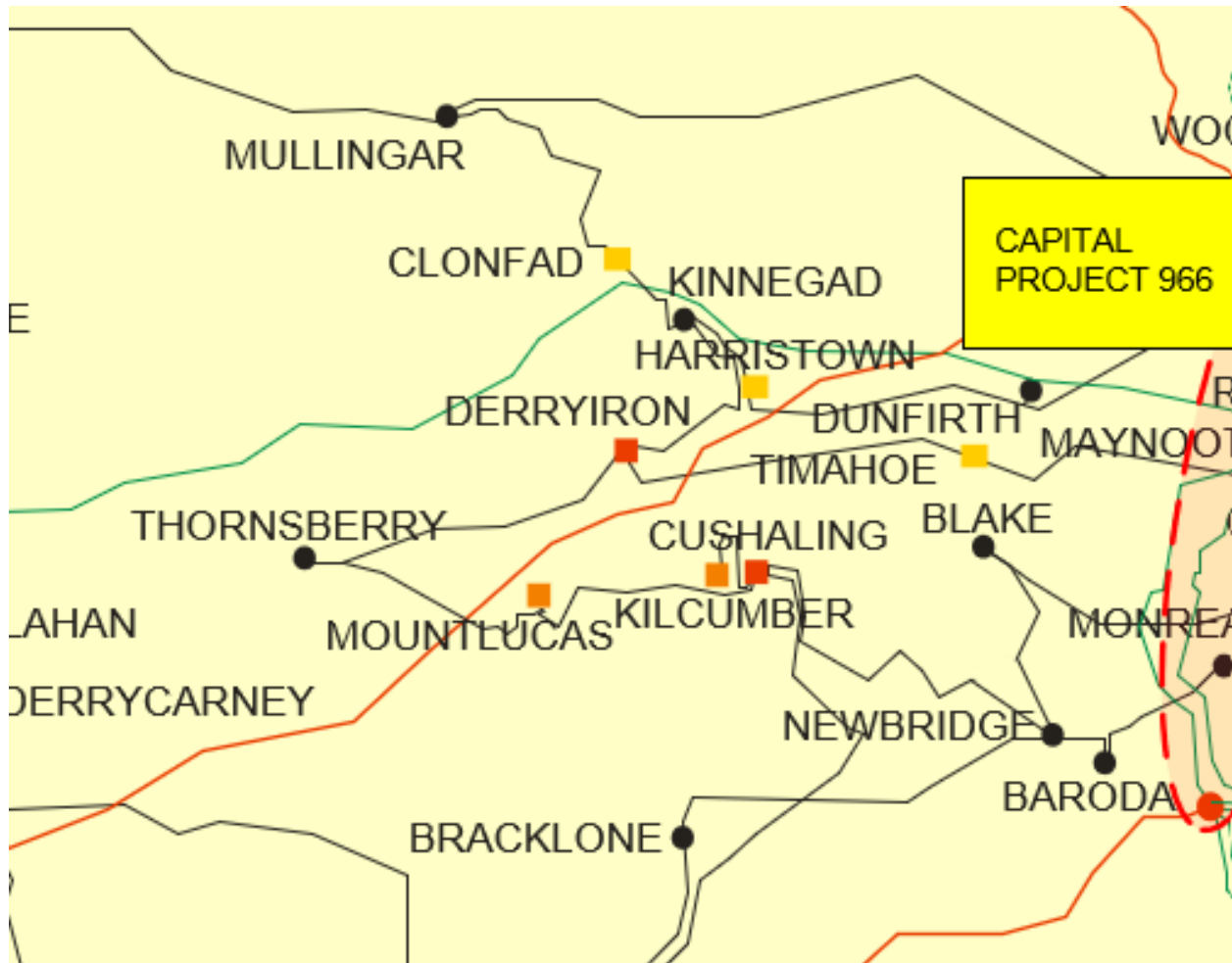


Figure 2-28- Location of node Derryiron

Generator	SO	Capacity	Type	Status
Clonin North solar	TSO	47.0	solar not priority	due to connected
Yellow River Wind Farm	TSO	101.0	wind not priority	connected
Garr Solar & Storage	TSO	85.0	solar not priority	due to connected

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

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

Area J	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	90	132					
Installed Capacity (MW)	2030	47	90	132	132	132			
Installed Capacity (MW)	FG						132	132	132
Available Energy (GWh)	2028	60	115	169					
Available Energy (GWh)	2030	60	115	169	169	169			
Available Energy (GWh)	FG						169	169	169
Generation (GWh)	2028	50	47	50					
Generation (GWh)	2030	52	66	74	57	72			
Generation (GWh)	FG						78	77	86
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

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

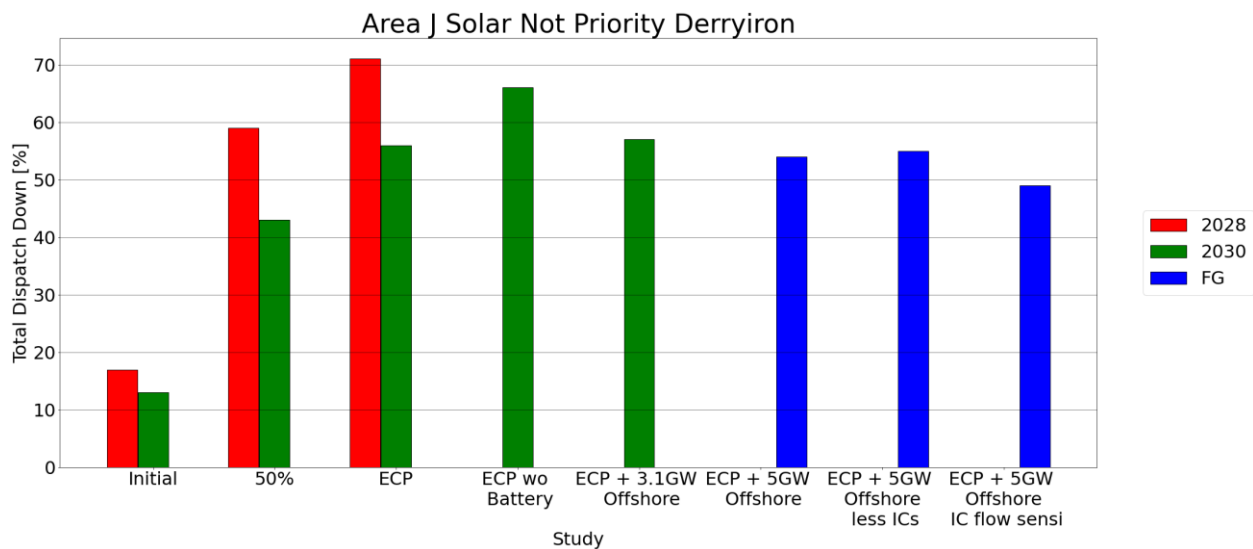


Figure 2-29 - Total Dispatch Down for Solar not priority for Node Derryiron

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	132	
Installed Capacity (MW)	2030	132	132
Available Energy (GWh)	2028	169	
Available Energy (GWh)	2030	169	169
Generation (GWh)	2028	50	
Generation (GWh)	2030	74	72
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-44- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Derryiron

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

Area J	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	101	101	101					
Installed Capacity (MW)	2030	101	101	101	101	101			
Installed Capacity (MW)	FG						101	101	101
Available Energy (GWh)	2028	314	314	314					
Available Energy (GWh)	2030	311	311	311	311	311			
Available Energy (GWh)	FG						311	311	311
Generation (GWh)	2028	167	122	85					
Generation (GWh)	2030	189	159	142	132	142			
Generation (GWh)	FG						168	163	203
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028	7 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	22 %	33 %	39 %					
Constraint (%)	2030	21 %	21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028	47 %	61 %	73 %					
Total Dispatch Down (%)	2030	39 %	49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

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

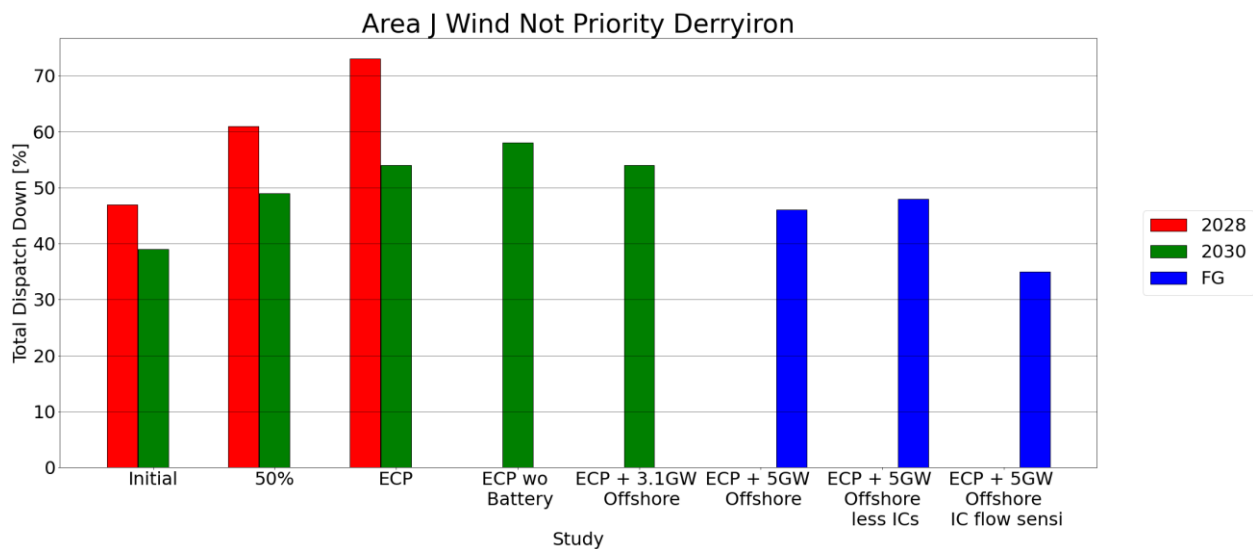


Figure 2-30- Total Dispatch Down for Wind not priority for Node Derryiron

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	101	
Installed Capacity (MW)	2030	101	101
Available Energy (GWh)	2028	314	
Available Energy (GWh)	2030	311	311
Generation (GWh)	2028	96	
Generation (GWh)	2030	148	144
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-46- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Derryiron

2.15 Dunfirth

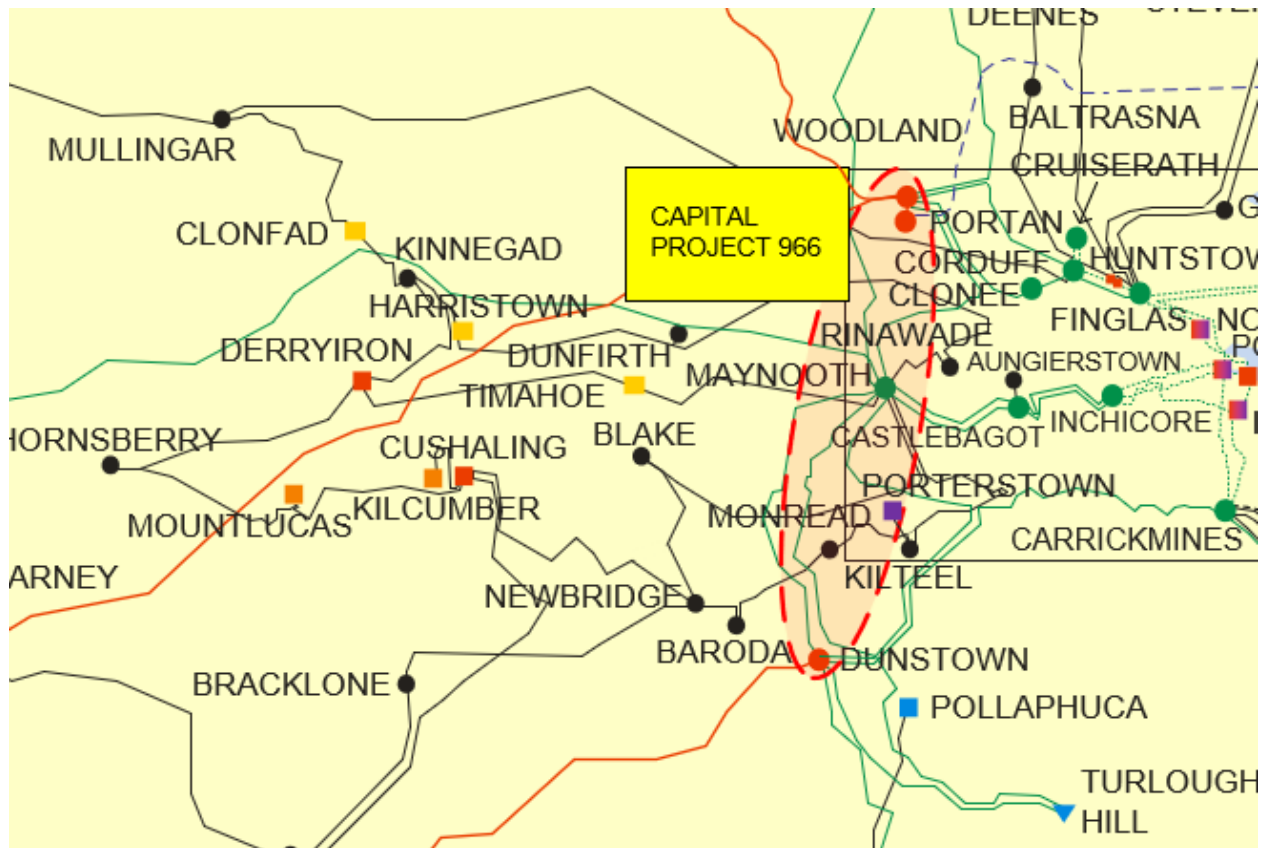


Figure 2-31- Location of node Dunfirth

Generator	SO	Capacity	Type	Status
Hortland PV (from merge Knockanally and Hortland)	DSO	14.0	solar not priority	connected
Dysart PV	DSO	17.5	solar not priority	due to connected

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

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

Area J	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	23	32					
Installed Capacity (MW)	2030	14	23	32	32	32			
Installed Capacity (MW)	FG						32	32	32
Available Energy (GWh)	2028	18	29	40					
Available Energy (GWh)	2030	18	29	40	40	40			
Available Energy (GWh)	FG						40	40	40
Generation (GWh)	2028	15	12	12					
Generation (GWh)	2030	16	17	18	14	17			
Generation (GWh)	FG						19	18	20
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-48- Surplus, Curtailement and Constraint for Solar non-priority for Node Dunfirth

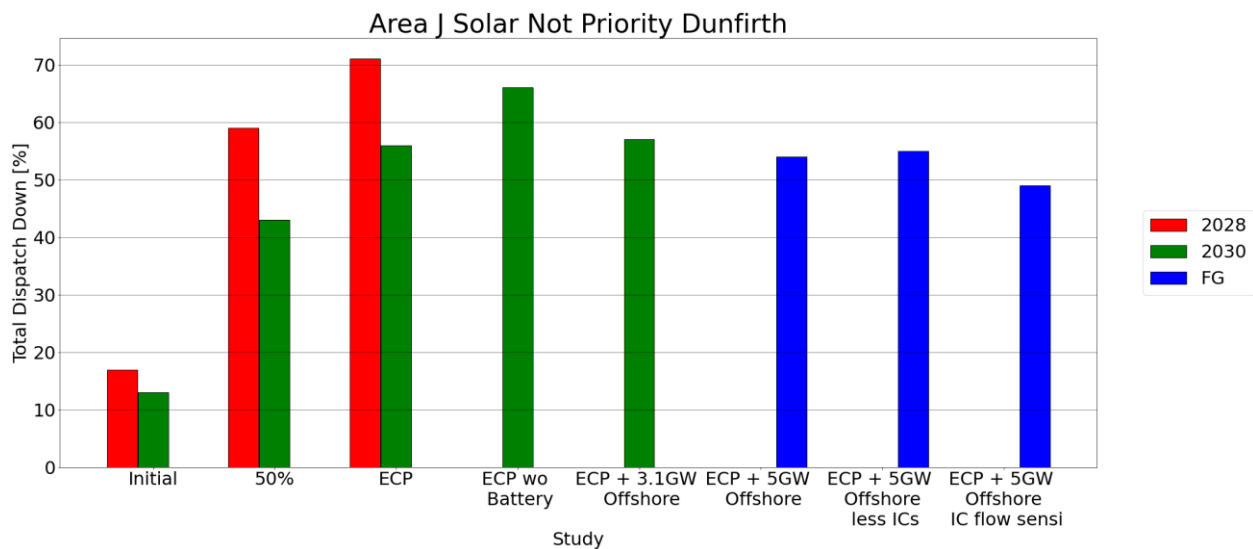


Figure 2-32- Total Dispatch Down for Solar not priority for Node Dunfirth

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	32	
Installed Capacity (MW)	2030	32	32
Available Energy (GWh)	2028	40	
Available Energy (GWh)	2030	40	40
Generation (GWh)	2028	12	
Generation (GWh)	2030	18	17
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-49- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Dunfirth

2.16 Dunstoun

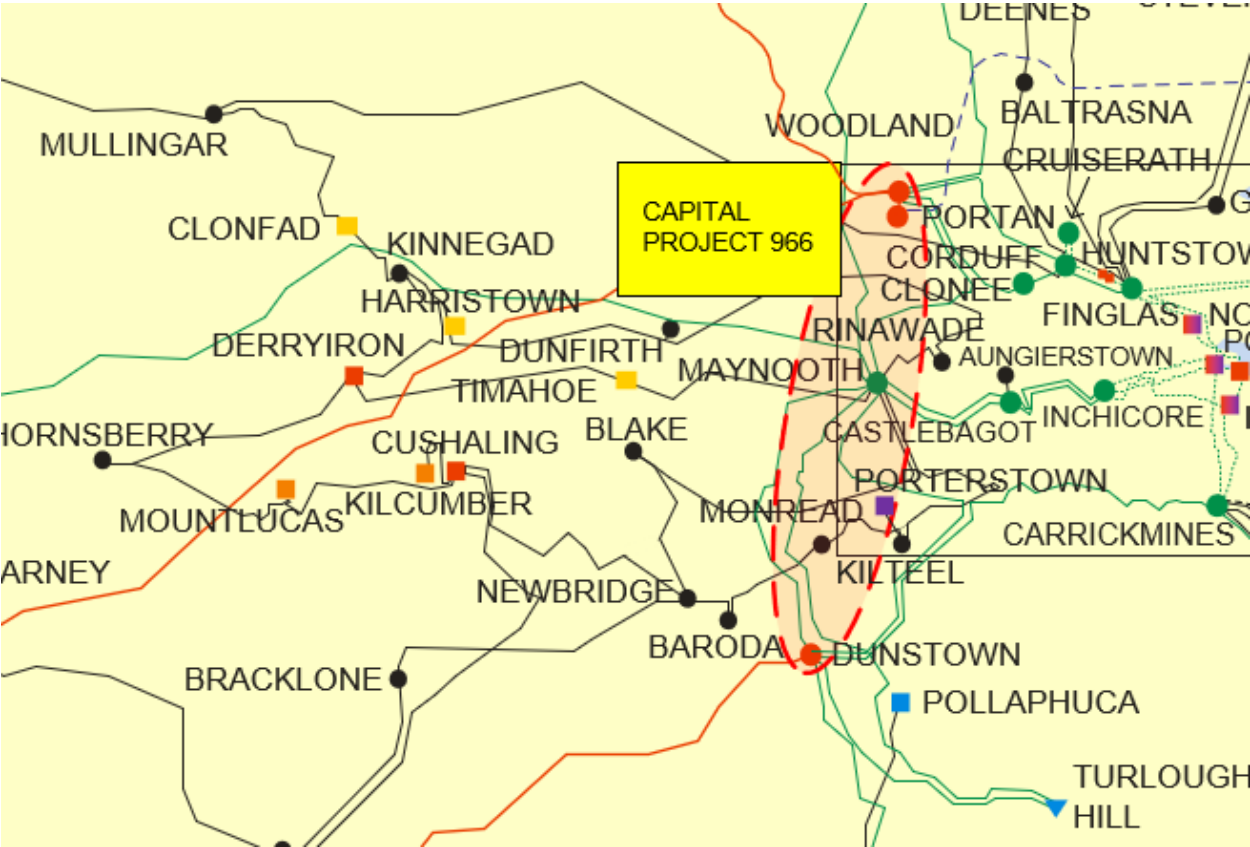


Figure 2-33- Location of node Dunstoun

Generator	SO	Capacity	Type	Status
Delamain Solar	TSO	210.0	solar not priority	due to connected

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

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

Area J	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		105	210					
Installed Capacity (MW)	2030		105	210	210	210			
Installed Capacity (MW)	FG						210	210	210
Available Energy (GWh)	2028		135	269					
Available Energy (GWh)	2030		135	269	269	269			
Available Energy (GWh)	FG						269	269	269
Generation (GWh)	2028		109	178					
Generation (GWh)	2030		111	189	159	175			
Generation (GWh)	FG						202	184	215
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	5 %					
Constraint (%)	2030		0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028		19 %	34 %					
Total Dispatch Down (%)	2030		18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

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

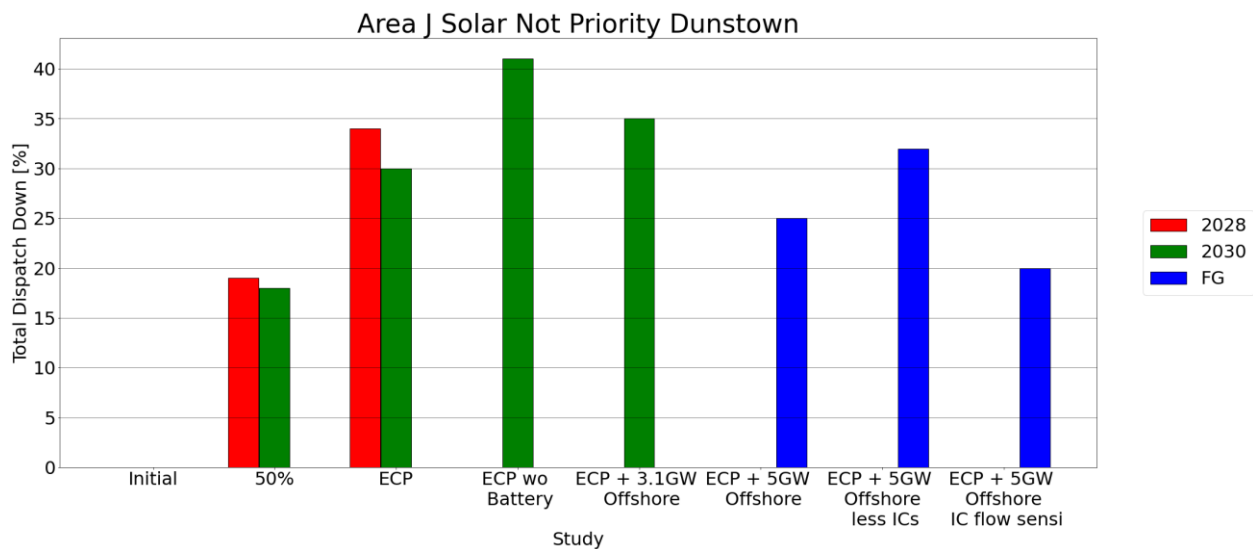


Figure 2-34- Total Dispatch Down for Solar not priority for Node Dunstow

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	210	
Installed Capacity (MW)	2030	210	210
Available Energy (GWh)	2028	269	
Available Energy (GWh)	2030	269	269
Generation (GWh)	2028	178	
Generation (GWh)	2030	189	175
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-52- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Dunstow

2.17 Finglas

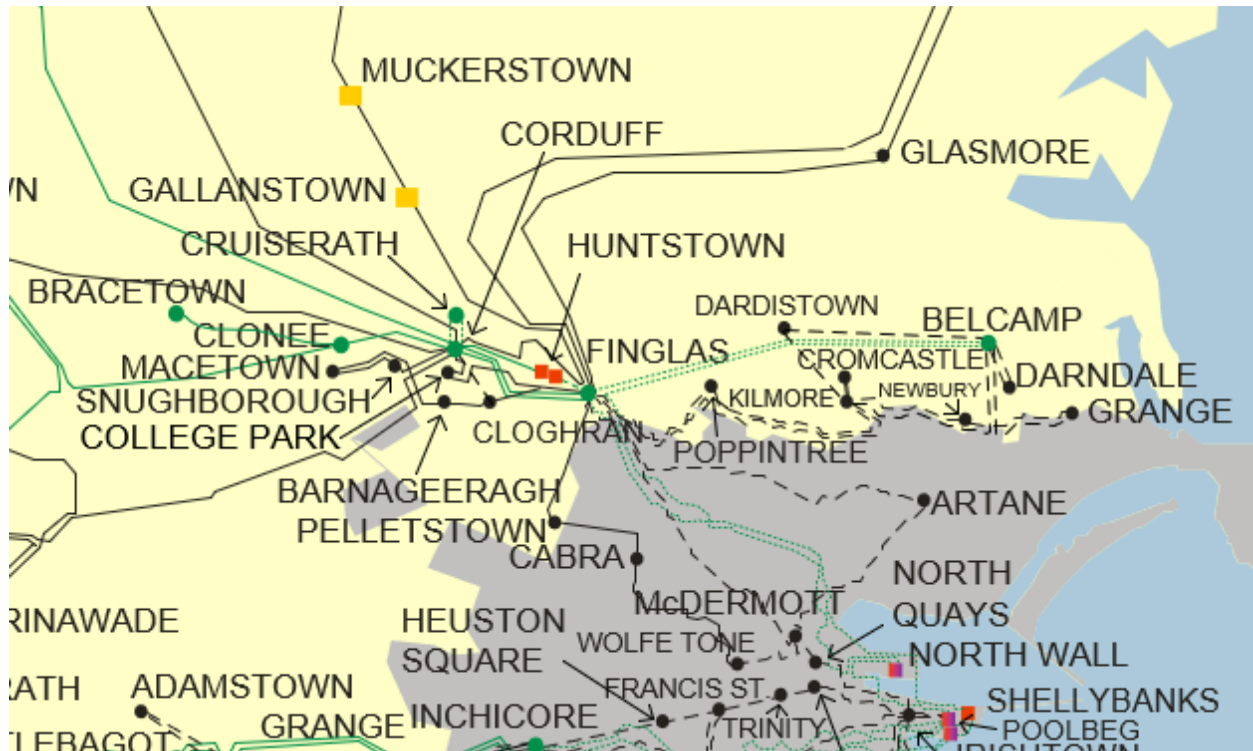


Figure 2-35- Location of node Finglas

Generator	SO	Capacity	Type	Status
Bullstown Solar Farm	DSO	8.42	solar not priority	connected
Fieldstown Solar	TSO	75.0	solar not priority	due to connected
Fieldstown Solar Farm Ext	TSO	18.27	solar not priority	due to connected
LT SolarFruit	DSO	2.8	solar not priority	due to connected
Fieldstown Extension No.2	TSO	60.0	solar not priority	due to connected

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

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

Area J	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	86	164					
Installed Capacity (MW)	2030	8	86	164	164	164			
Installed Capacity (MW)	FG						164	164	164
Available Energy (GWh)	2028	11	111	211					
Available Energy (GWh)	2030	11	111	211	211	211			
Available Energy (GWh)	FG						211	211	211
Generation (GWh)	2028	10	89	140					
Generation (GWh)	2030	10	91	148	125	137			
Generation (GWh)	FG						158	144	168
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	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-54- Surplus, Curtailment and Constraint for Solar non-priority for Node Finglas

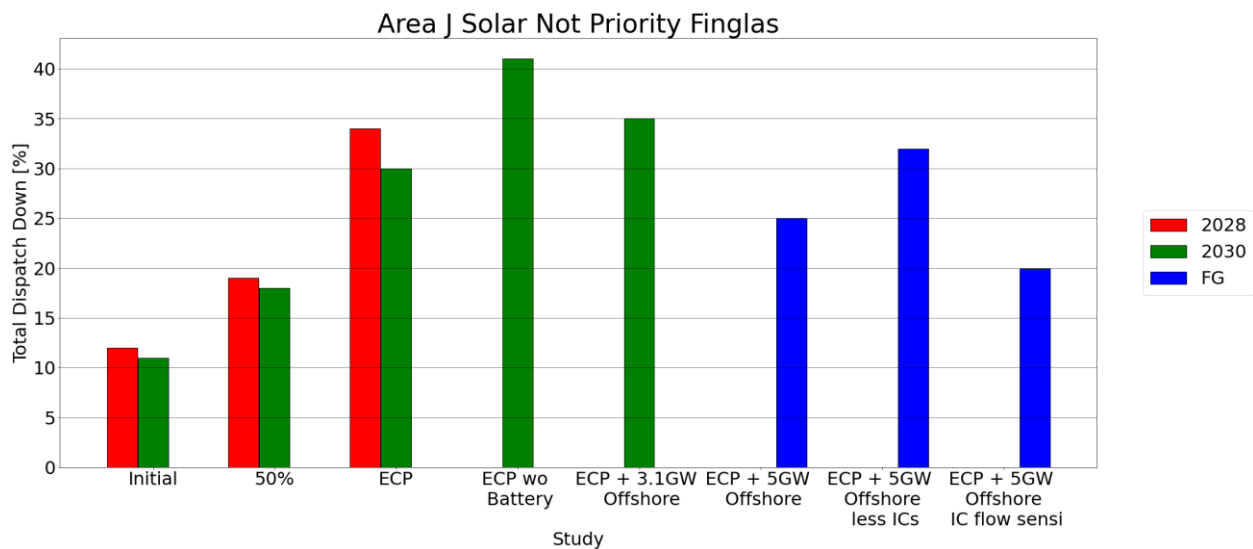


Figure 2-36- Total Dispatch Down for Solar not priority for Node Finglas

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	164	
Installed Capacity (MW)	2030	164	164
Available Energy (GWh)	2028	211	
Available Energy (GWh)	2030	211	211
Generation (GWh)	2028	140	
Generation (GWh)	2030	148	137
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-55- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Finglas

2.18 Fosterstown

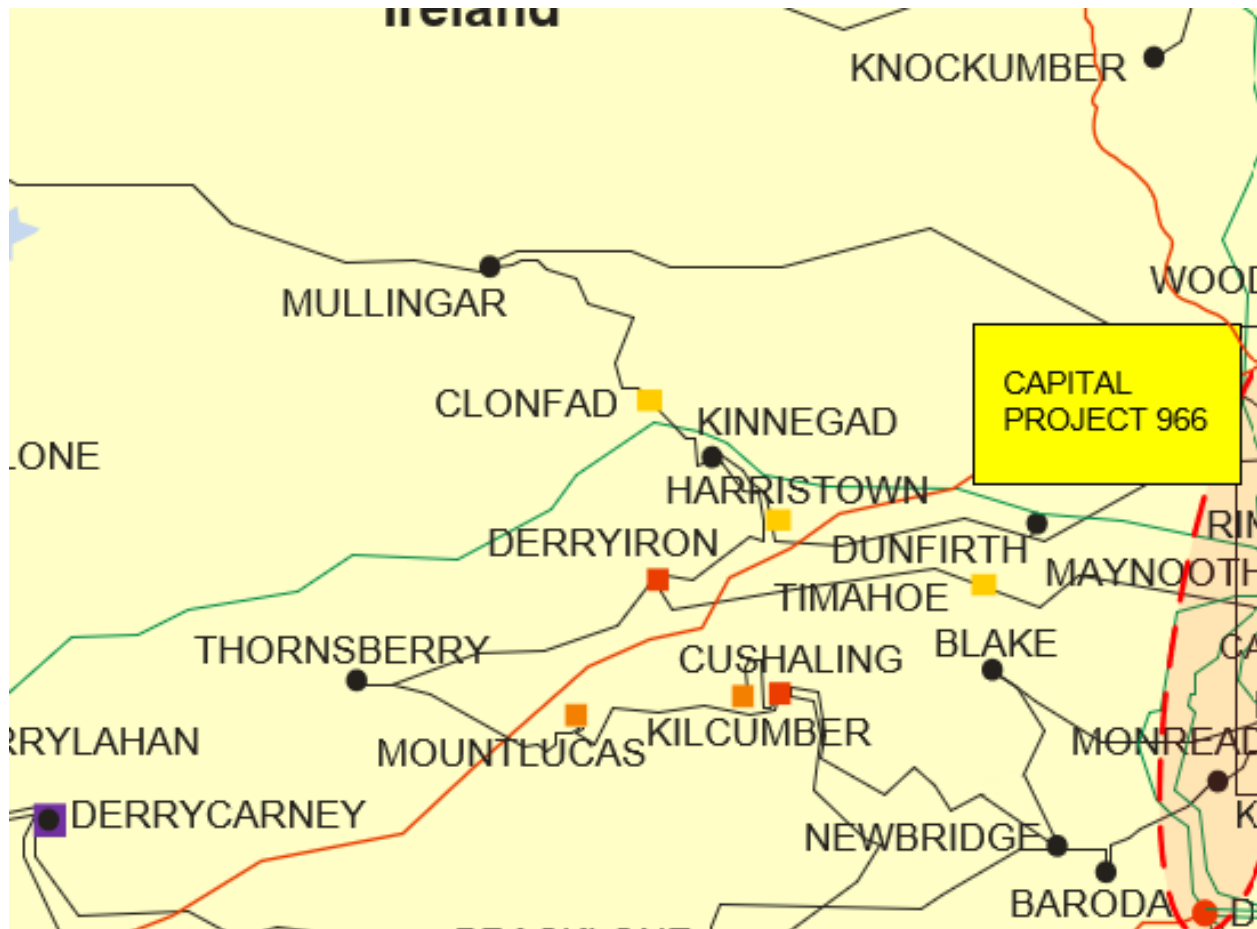


Figure 2-37- Location of node Fosterstown

Generator	SO	Capacity	Type	Status
Clonmeath Solar (Solar)	TSO	78.8	solar not priority	due to connected
Project GiMAT	DSO	4.99	solar not priority	due to connected

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

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

Area J	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	84					
Installed Capacity (MW)	2030		42	84	84	84			
Installed Capacity (MW)	FG						84	84	84
Available Energy (GWh)	2028		54	108					
Available Energy (GWh)	2030		54	107	107	107			
Available Energy (GWh)	FG						107	107	107
Generation (GWh)	2028		22	31					
Generation (GWh)	2030		31	47	36	46			
Generation (GWh)	FG						50	49	54
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-57- Surplus, Curtailment and Constraint for Solar non-priority for Node Fosterstown

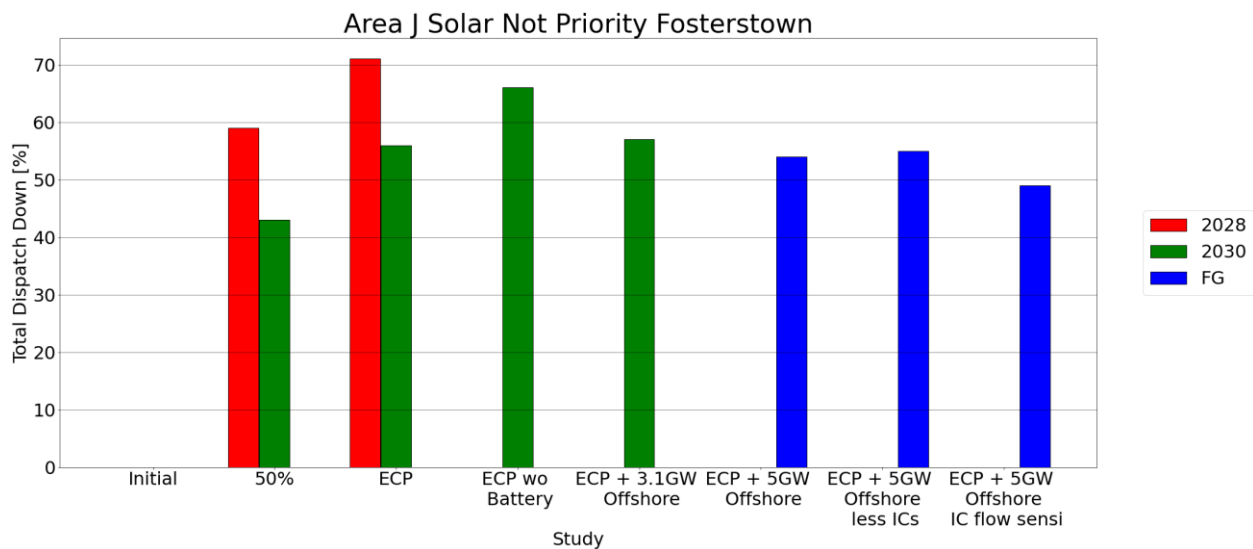


Figure 2-38- Total Dispatch Down for Solar not priority for Node Fosterstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	84	
Installed Capacity (MW)	2030	84	84
Available Energy (GWh)	2028	108	
Available Energy (GWh)	2030	107	107
Generation (GWh)	2028	31	
Generation (GWh)	2030	47	46
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

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

2.19 Gallanstown



Figure 2-39- Location of node Gallanstown

Generator	SO	Capacity	Type	Status
Gallanstown Solar	TSO	119.0	solar not priority	connected
Harlockstown Solar (Gallanstown Solar Extension)	TSO	31.6	solar not priority	connected
Rathlockstown Solar	TSO	18.9	solar not priority	due to connected
Darthogue Solar Farm Ext 2	TSO	13.5	solar not priority	due to connected

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

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

Area J	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	151	167	183					
Installed Capacity (MW)	2030	151	167	183	183	183			
Installed Capacity (MW)	FG						183	183	183
Available Energy (GWh)	2028	193	214	235					
Available Energy (GWh)	2030	193	214	234	234	234			
Available Energy (GWh)	FG						234	234	234
Generation (GWh)	2028	170	173	155					
Generation (GWh)	2030	172	176	164	139	152			
Generation (GWh)	FG						176	160	187
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	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-60- Surplus, Curtailment and Constraint for Solar non-priority for Node Gallanstown

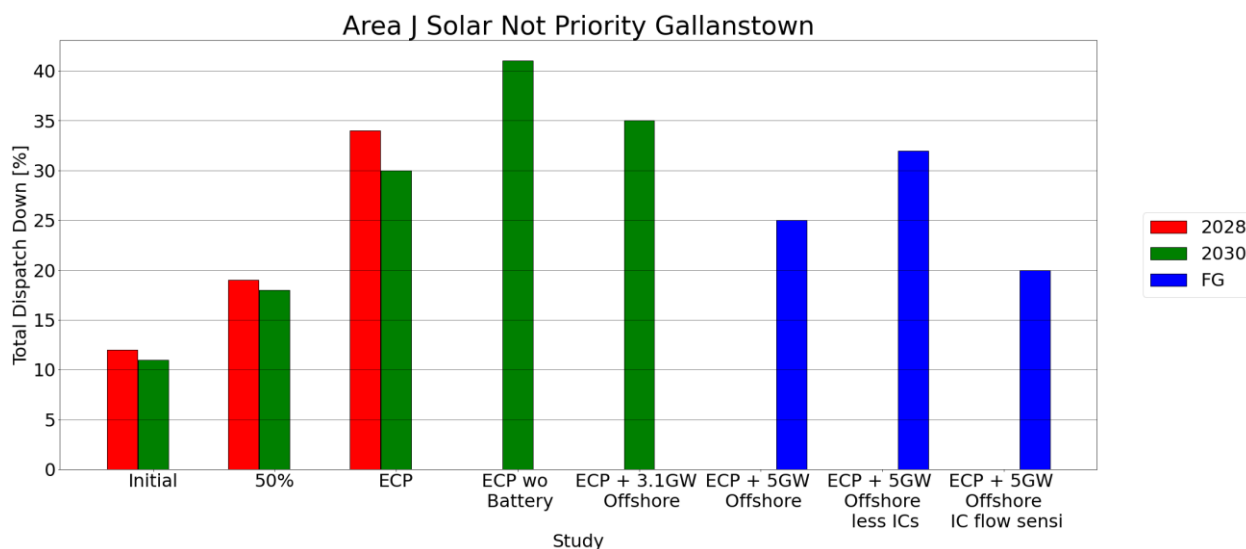


Figure 2-40- Total Dispatch Down for Solar not priority for Node Gallanstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	183	
Installed Capacity (MW)	2030	183	183
Available Energy (GWh)	2028	235	
Available Energy (GWh)	2030	234	234
Generation (GWh)	2028	155	
Generation (GWh)	2030	164	152
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-61- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Gallanstown

2.20 Glasmore

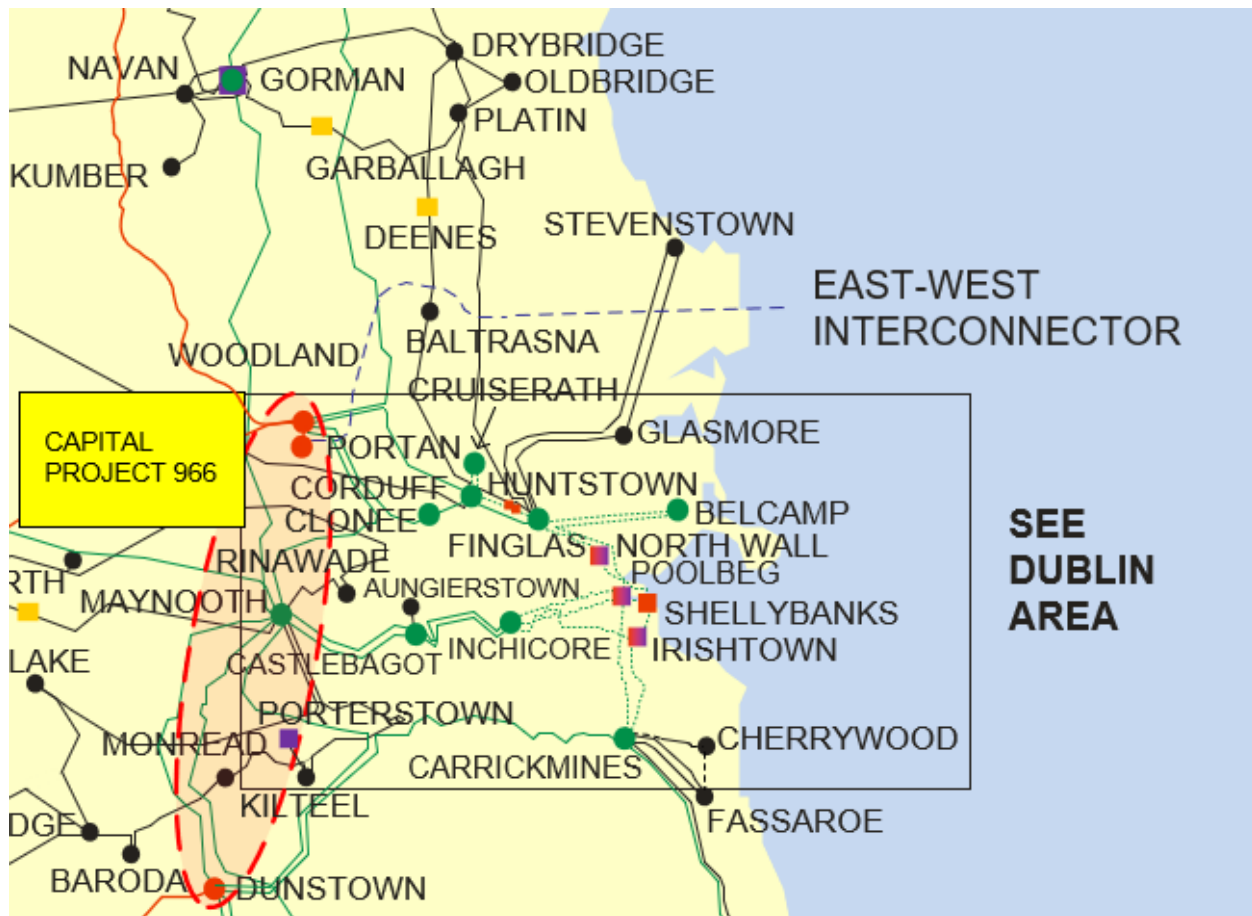


Figure 2-41- Location of node Glasmore

Generator	SO	Capacity	Type	Status
Featherbed Lane Solar	DSO	4.0	solar not priority	due to connected

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

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

Area J	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	4	4					
Installed Capacity (MW)	2030	4	4	4	4	4			
Installed Capacity (MW)	FG						4	4	4
Available Energy (GWh)	2028	5	5	5					
Available Energy (GWh)	2030	5	5	5	5	5			
Available Energy (GWh)	FG						5	5	5
Generation (GWh)	2028	5	4	3					
Generation (GWh)	2030	5	4	4	3	3			
Generation (GWh)	FG						4	4	4
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	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-63- Surplus, Curtailment and Constraint for Solar non-priority for Node Glasmere

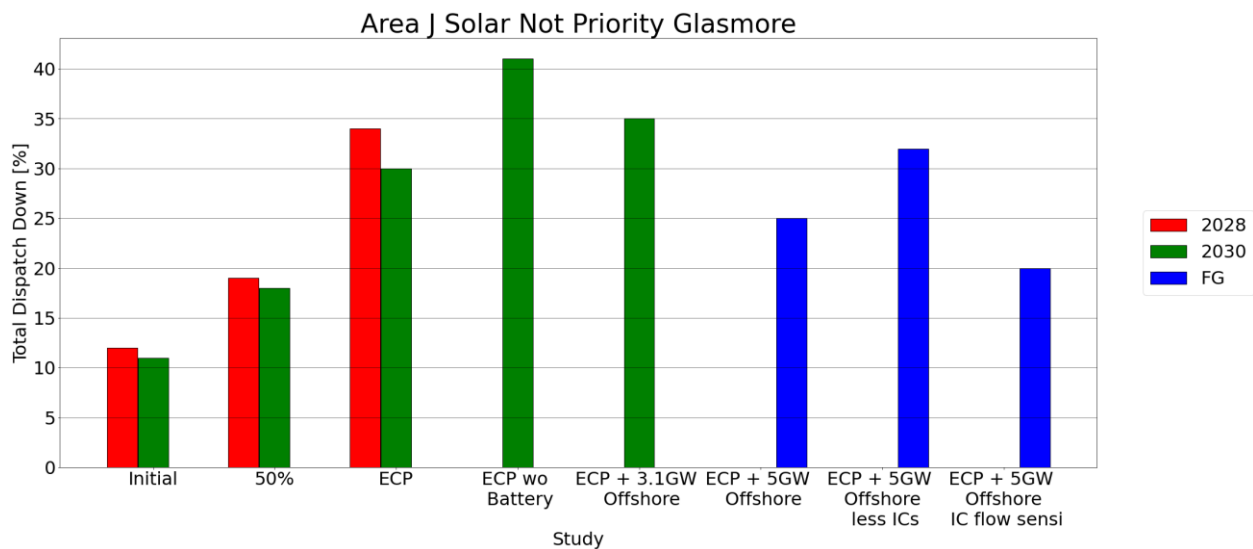


Figure 2-42- Total Dispatch Down for Solar not priority for Node Glasmore

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	4	
Installed Capacity (MW)	2030	4	4
Available Energy (GWh)	2028	5	
Available Energy (GWh)	2030	5	5
Generation (GWh)	2028	3	
Generation (GWh)	2030	4	3
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-64- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Glasmore

2.21 Grange

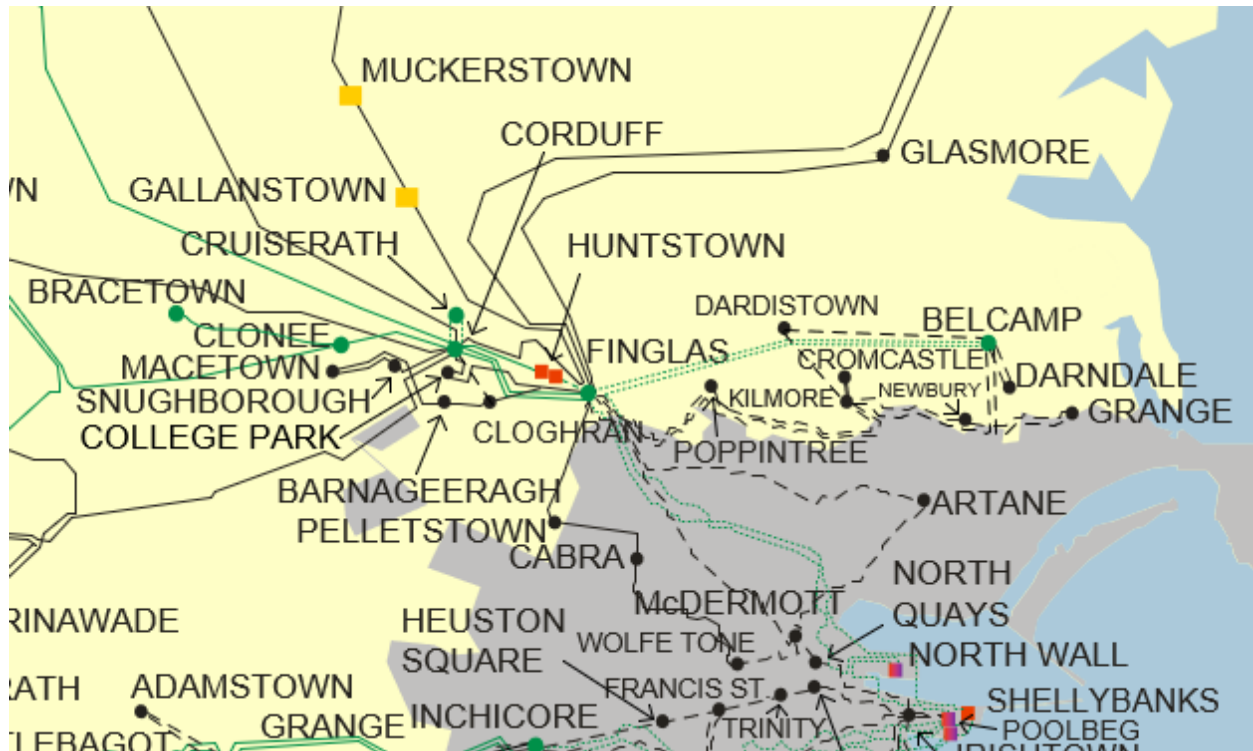


Figure 2-43- Location of node Grange

Generator	SO	Capacity	Type	Status
Mainscourt	DSO	39.99	solar not priority	due to connected

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

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

Area J	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		26	51					
Available Energy (GWh)	2030		26	51	51	51			
Available Energy (GWh)	FG						51	51	51
Generation (GWh)	2028		21	34					
Generation (GWh)	2030		21	36	30	33			
Generation (GWh)	FG						38	35	41
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		3 %	5 %					
Constraint (%)	2030		0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028		19 %	34 %					
Total Dispatch Down (%)	2030		18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

Table 2-66 - Surplus, Curtailment and Constraint for Solar non-priority for Node Grange

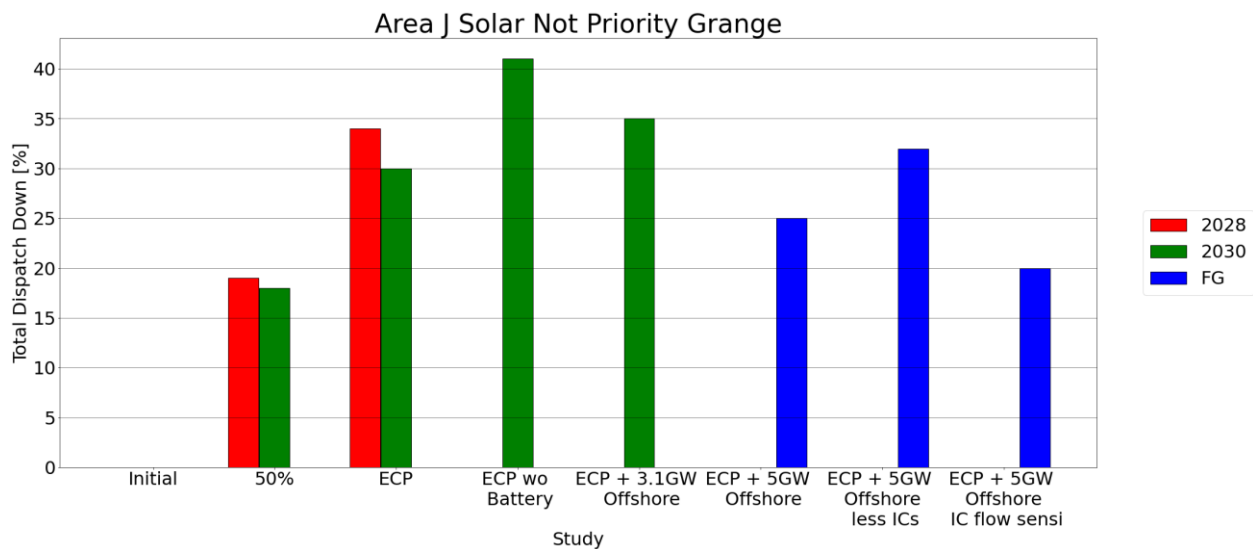


Figure 2-44- Total Dispatch Down for Solar not priority for Node Grange

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	40	
Installed Capacity (MW)	2030	40	40
Available Energy (GWh)	2028	51	
Available Energy (GWh)	2030	51	51
Generation (GWh)	2028	34	
Generation (GWh)	2030	36	33
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-67- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Grange

2.22 Griffinrath

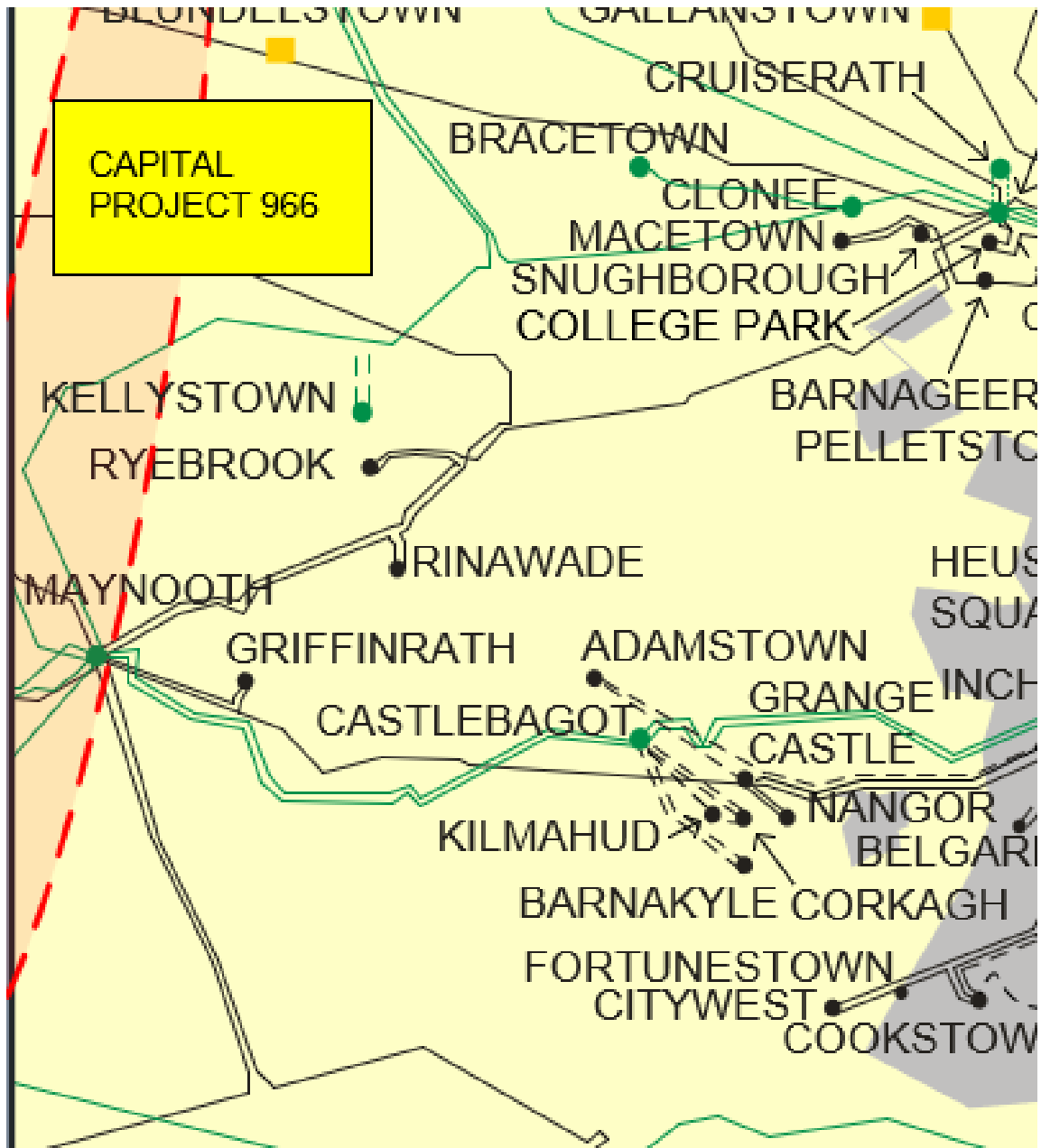


Figure 2-45- Location of node Griffinrath

Generator	SO	Capacity	Type	Status
Taghadoe Solar Farm	DSO	25.0	solar not priority	due to connected
Confey Solar Park	DSO	15.5	solar not priority	due to connected
Smithstown	DSO	25.3	solar not priority	due to connected
Dolanstown Solar Farm	DSO	4.9	solar not priority	due to connected

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

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

Area J	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	16	43	71					
Installed Capacity (MW)	2030	16	43	71	71	71			
Installed Capacity (MW)	FG						71	71	71
Available Energy (GWh)	2028	20	55	91					
Available Energy (GWh)	2030	20	55	91	91	91			
Available Energy (GWh)	FG						91	91	91
Generation (GWh)	2028	18	45	60					
Generation (GWh)	2030	18	45	64	54	59			
Generation (GWh)	FG						68	62	72
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	0 %	3 %	5 %					
Constraint (%)	2030	0 %	0 %	2 %	3 %	1 %			
Constraint (%)	FG						1 %	0 %	0 %
Total Dispatch Down (%)	2028	12 %	19 %	34 %					
Total Dispatch Down (%)	2030	11 %	18 %	30 %	41 %	35 %			
Total Dispatch Down (%)	FG						25 %	32 %	20 %

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

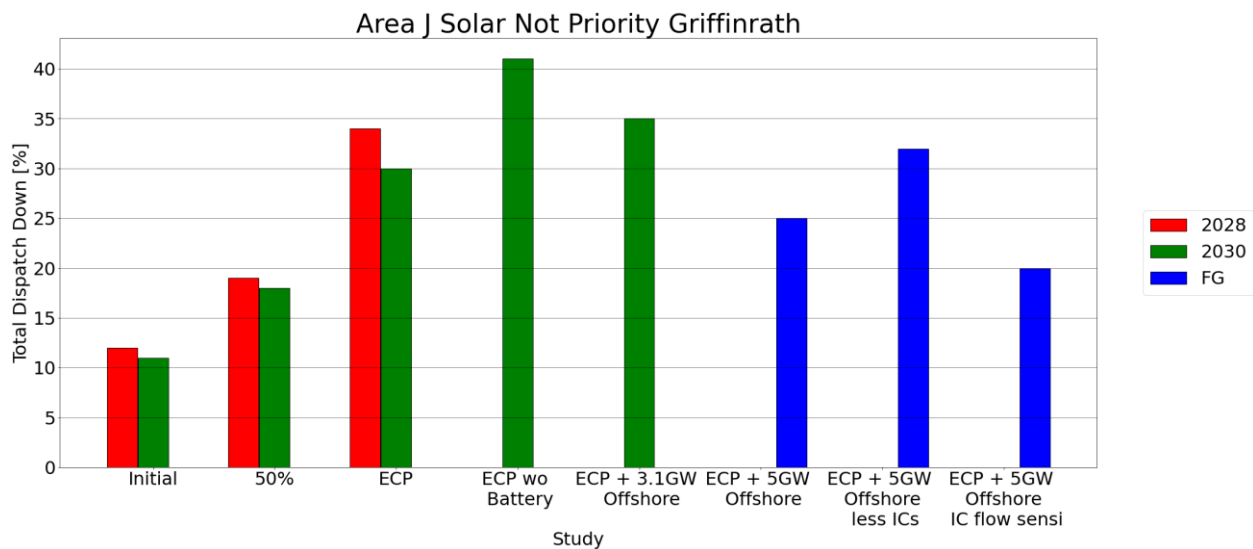


Figure 2-46- Total Dispatch Down for Solar not priority for Node Griffinrath

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	71	
Installed Capacity (MW)	2030	71	71
Available Energy (GWh)	2028	91	
Available Energy (GWh)	2030	91	91
Generation (GWh)	2028	60	
Generation (GWh)	2030	64	59
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	5 %	
Constraint (%)	2030	2 %	1 %
Total Dispatch Down (%)	2028	34 %	
Total Dispatch Down (%)	2030	30 %	35 %

Table 2-70- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Griffinrath

2.23 Harristown

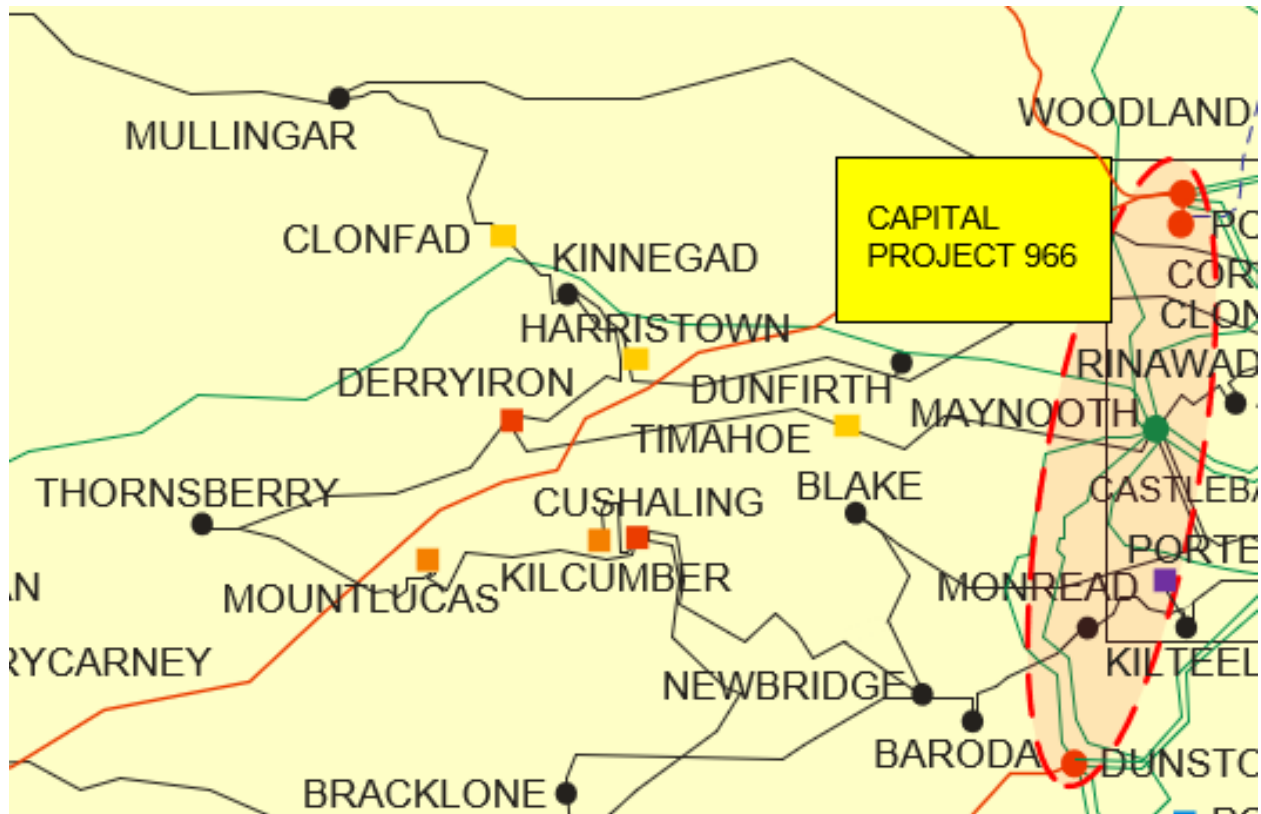


Figure 2-47- Location of node Harristown

Generator	SO	Capacity	Type	Status
Harristown Solar PV	TSO	42.3	solar not priority	due to connected

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

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

Area J	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		21	42					
Installed Capacity (MW)	2030		21	42	42	42			
Installed Capacity (MW)	FG						42	42	42
Available Energy (GWh)	2028		27	54					
Available Energy (GWh)	2030		27	54	54	54			
Available Energy (GWh)	FG						54	54	54
Generation (GWh)	2028		11	16					
Generation (GWh)	2030		15	24	18	23			
Generation (GWh)	FG						25	25	27
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

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

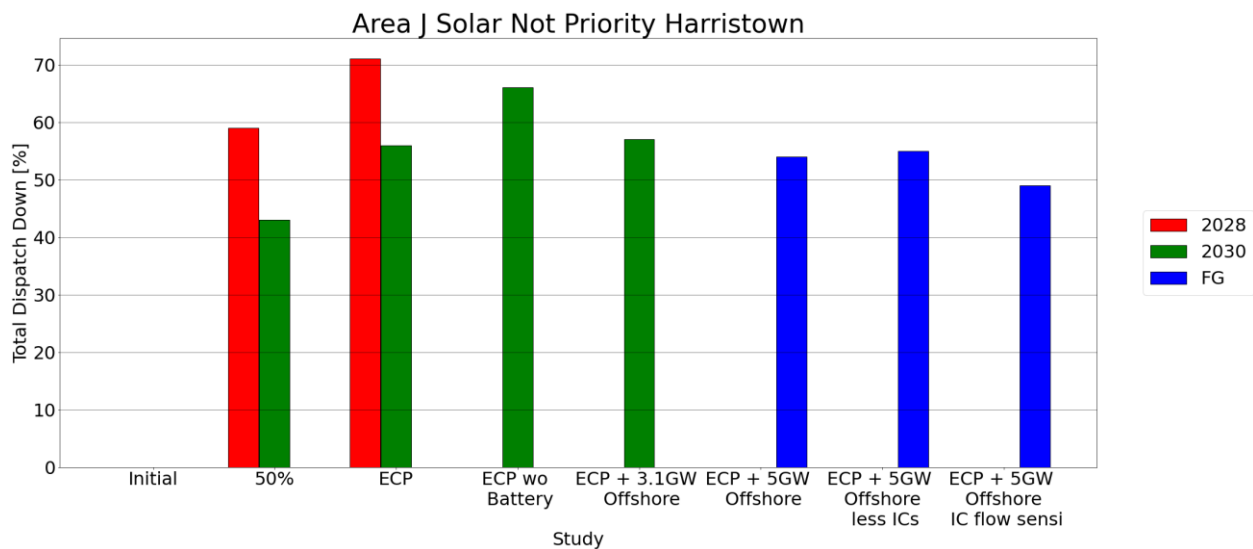


Figure 2-48- Total Dispatch Down for Solar not priority for Node Harristown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	42	
Installed Capacity (MW)	2030	42	42
Available Energy (GWh)	2028	54	
Available Energy (GWh)	2030	54	54
Generation (GWh)	2028	16	
Generation (GWh)	2030	24	23
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-73- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Harristown

2.24 Kiltel

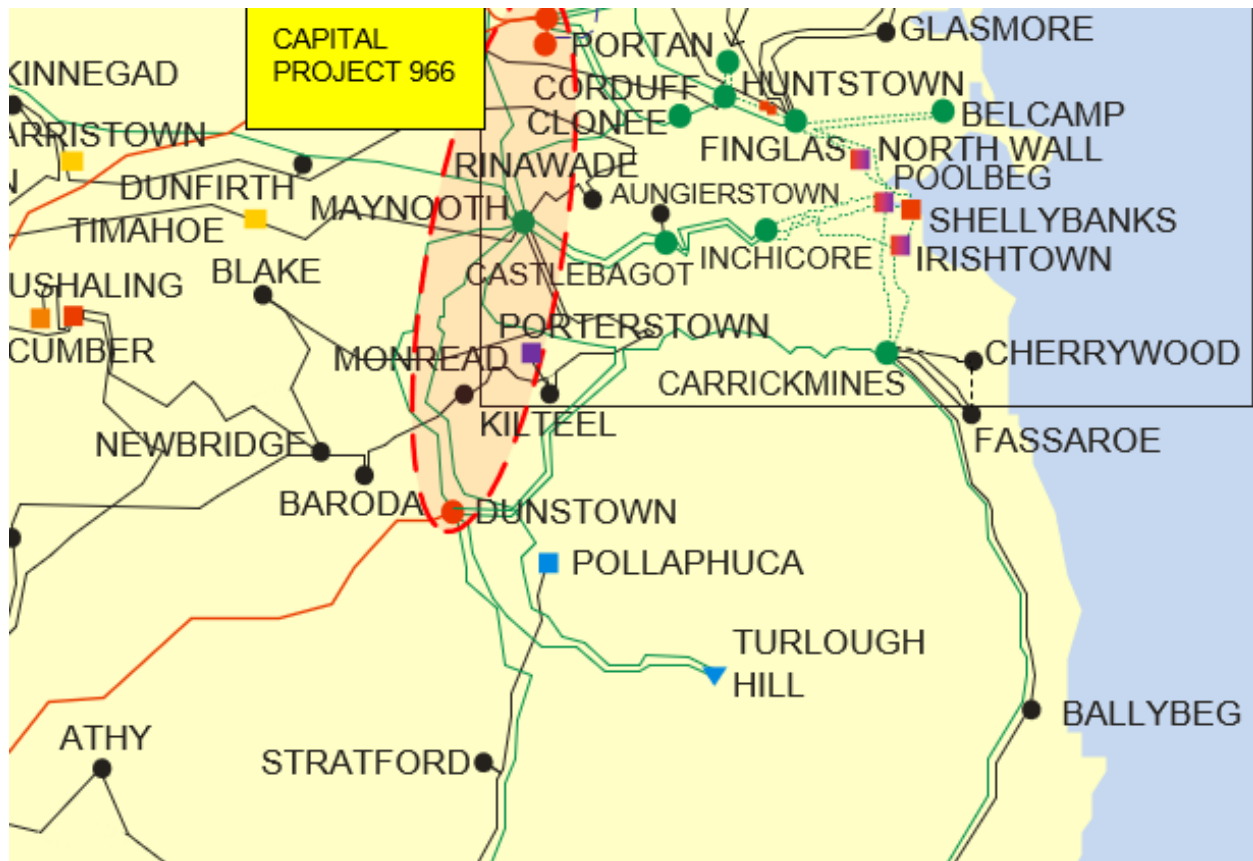


Figure 2-49- Location of node Kiltel

Generator	SO	Capacity	Type	Status
Threecastles Solar Farm	DSO	15.0	solar not priority	due to connected

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

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

Area J	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	15					
Installed Capacity (MW)	2030		8	15	15	15			
Installed Capacity (MW)	FG						15	15	15
Available Energy (GWh)	2028		10	19					
Available Energy (GWh)	2030		10	19	19	19			
Available Energy (GWh)	FG						19	19	19
Generation (GWh)	2028		4	6					
Generation (GWh)	2030		5	8	7	8			
Generation (GWh)	FG						9	9	10
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-75- Surplus, Curtailment and Constraint for Solar non-priority for Node Killeel

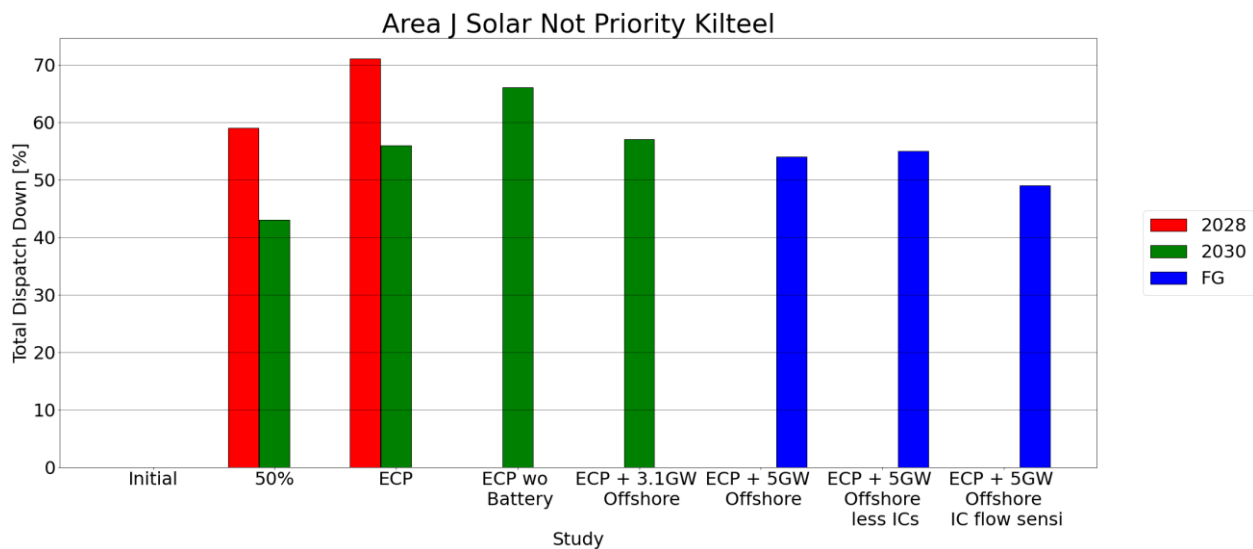


Figure 2-50- Total Dispatch Down for Solar not priority for Node Kiltel

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	15	
Installed Capacity (MW)	2030	15	15
Available Energy (GWh)	2028	19	
Available Energy (GWh)	2030	19	19
Generation (GWh)	2028	6	
Generation (GWh)	2030	8	8
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

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

2.25 Maynooth

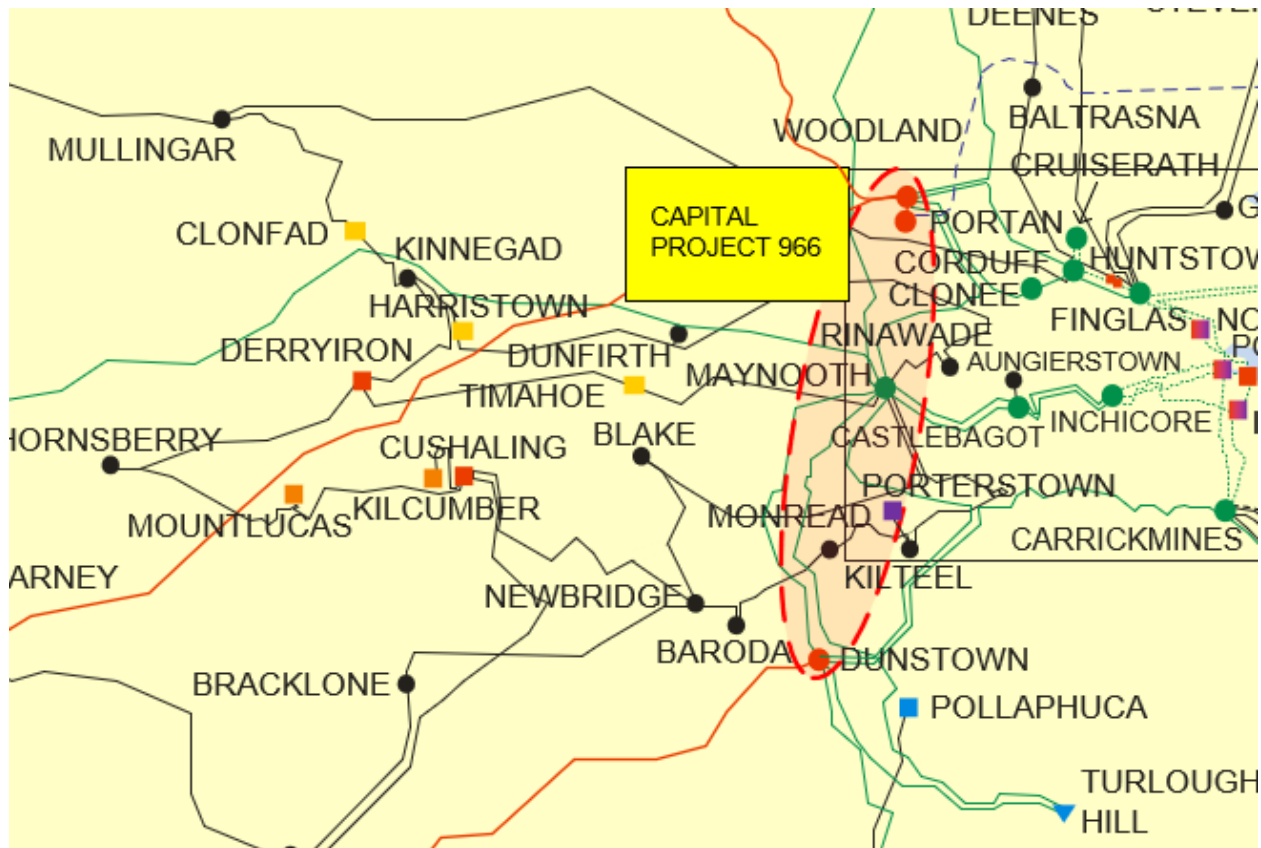


Figure 2-51- Location of node Maynooth

Generator	SO	Capacity	Type	Status
Toolestown Solar	TSO	50.0	solar not priority	due to connected

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

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

Area J	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		32	64					
Available Energy (GWh)	2030		32	64	64	64			
Available Energy (GWh)	FG						64	64	64
Generation (GWh)	2028		13	19					
Generation (GWh)	2030		18	28	22	27			
Generation (GWh)	FG						30	29	32
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

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

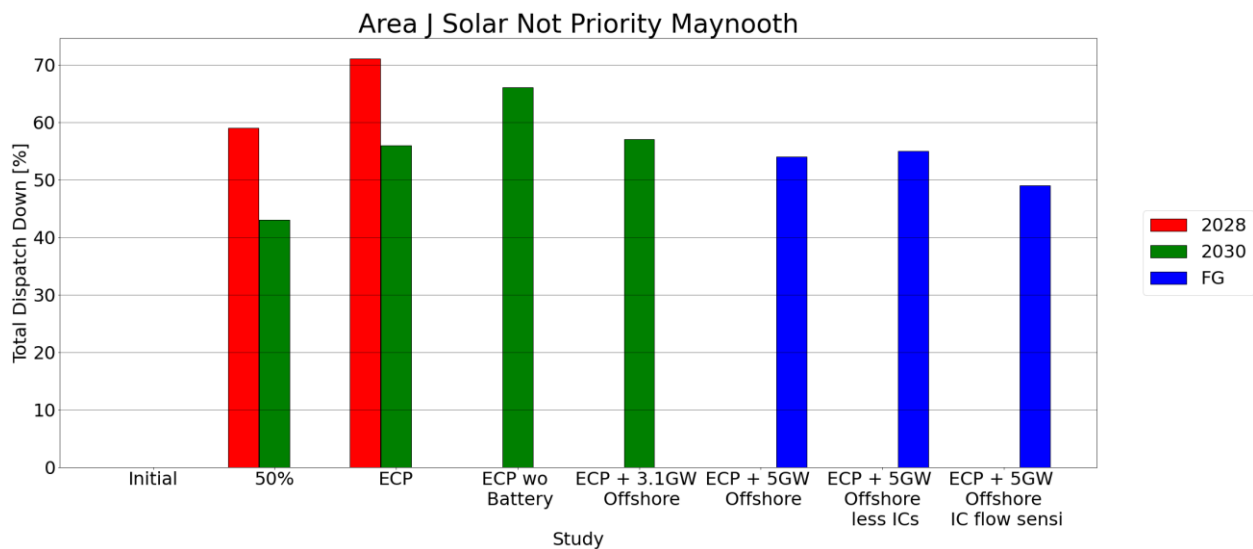


Figure 2-52- Total Dispatch Down for Solar not priority for Node Maynooth

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	50	
Installed Capacity (MW)	2030	50	50
Available Energy (GWh)	2028	64	
Available Energy (GWh)	2030	64	64
Generation (GWh)	2028	19	
Generation (GWh)	2030	28	27
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-79- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Maynooth

2.26 Monread

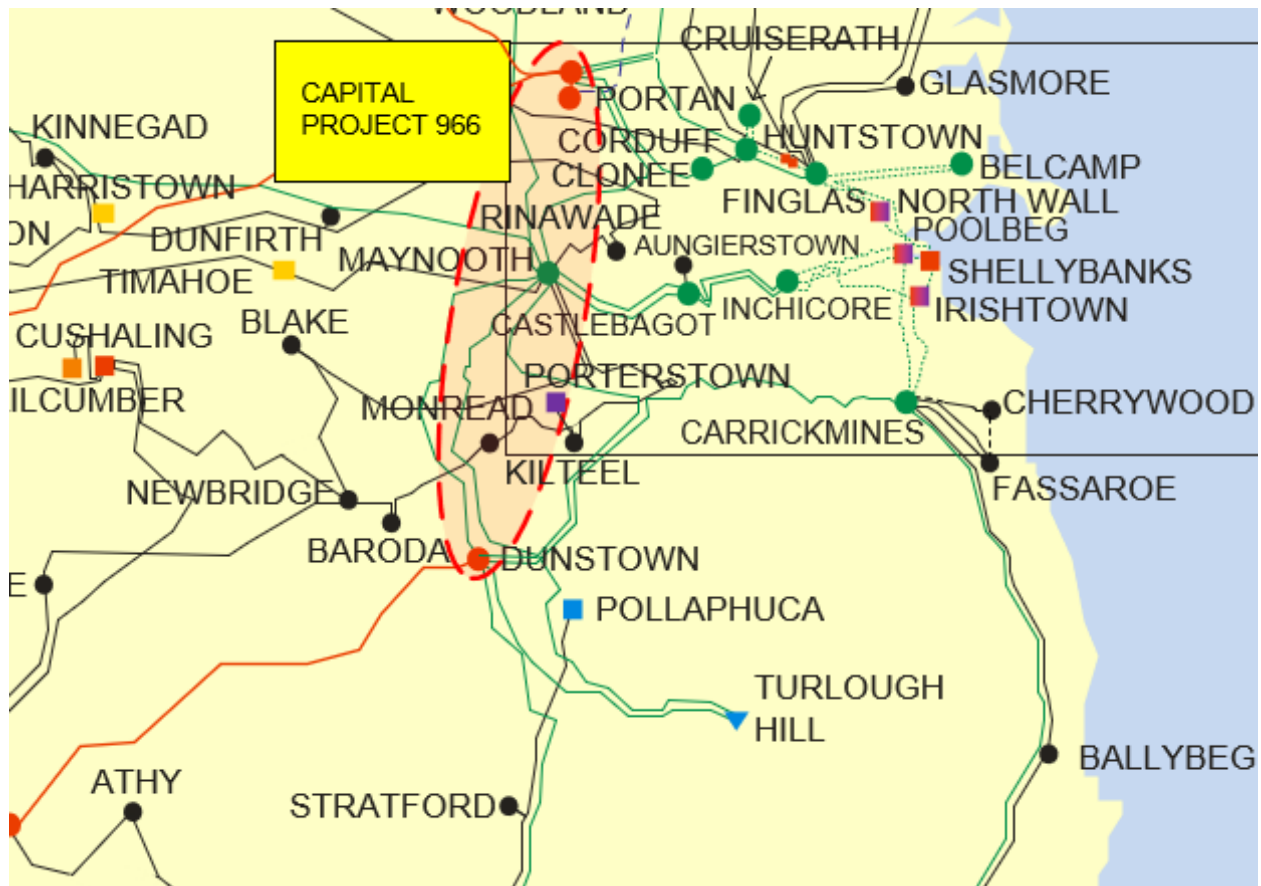


Figure 2-53- Location of node Monread

Generator	SO	Capacity	Type	Status
Bodenstown Solar Farm	DSO	4.0	solar not priority	due to connected
Kerdiffstown PV	DSO	4.0	solar not priority	connected

Table 2-80- Generation Included in Study for Node Monread

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

Area J	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	10	10	10					
Available Energy (GWh)	2030	10	10	10	10	10			
Available Energy (GWh)	FG						10	10	10
Generation (GWh)	2028	9	4	3					
Generation (GWh)	2030	9	6	4	3	4			
Generation (GWh)	FG						5	5	5
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-81- Surplus, Curtailement and Constraint for Solar non-priority for Node Monread

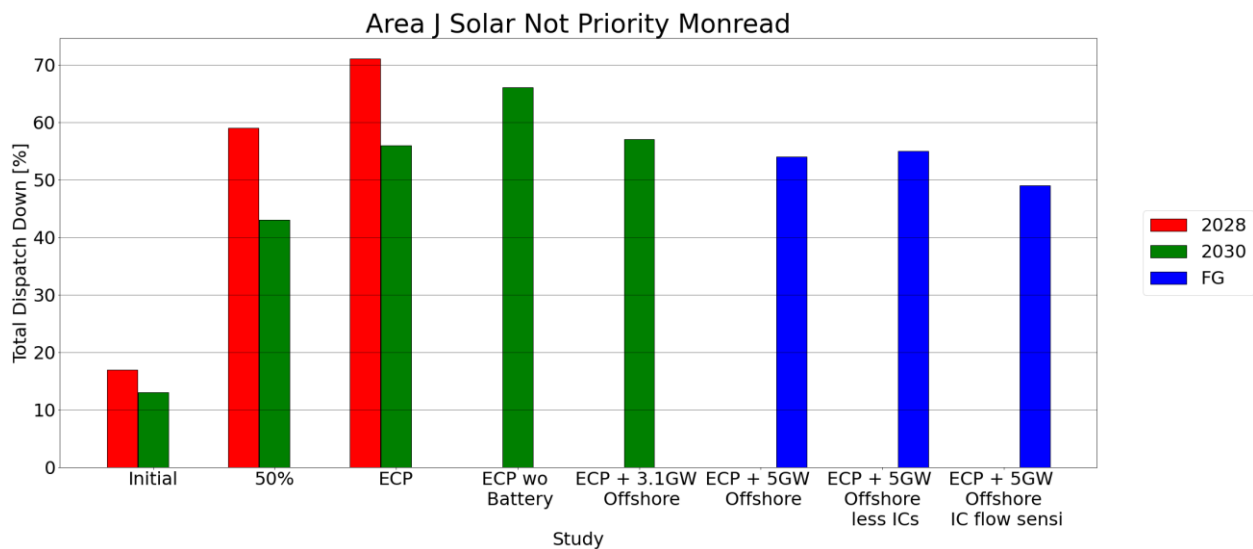


Figure 2-54- Total Dispatch Down for Solar not priority for Node Monread

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	8	
Installed Capacity (MW)	2030	8	8
Available Energy (GWh)	2028	10	
Available Energy (GWh)	2030	10	10
Generation (GWh)	2028	3	
Generation (GWh)	2030	4	4
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-82- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Monread

2.27 Mount lucas

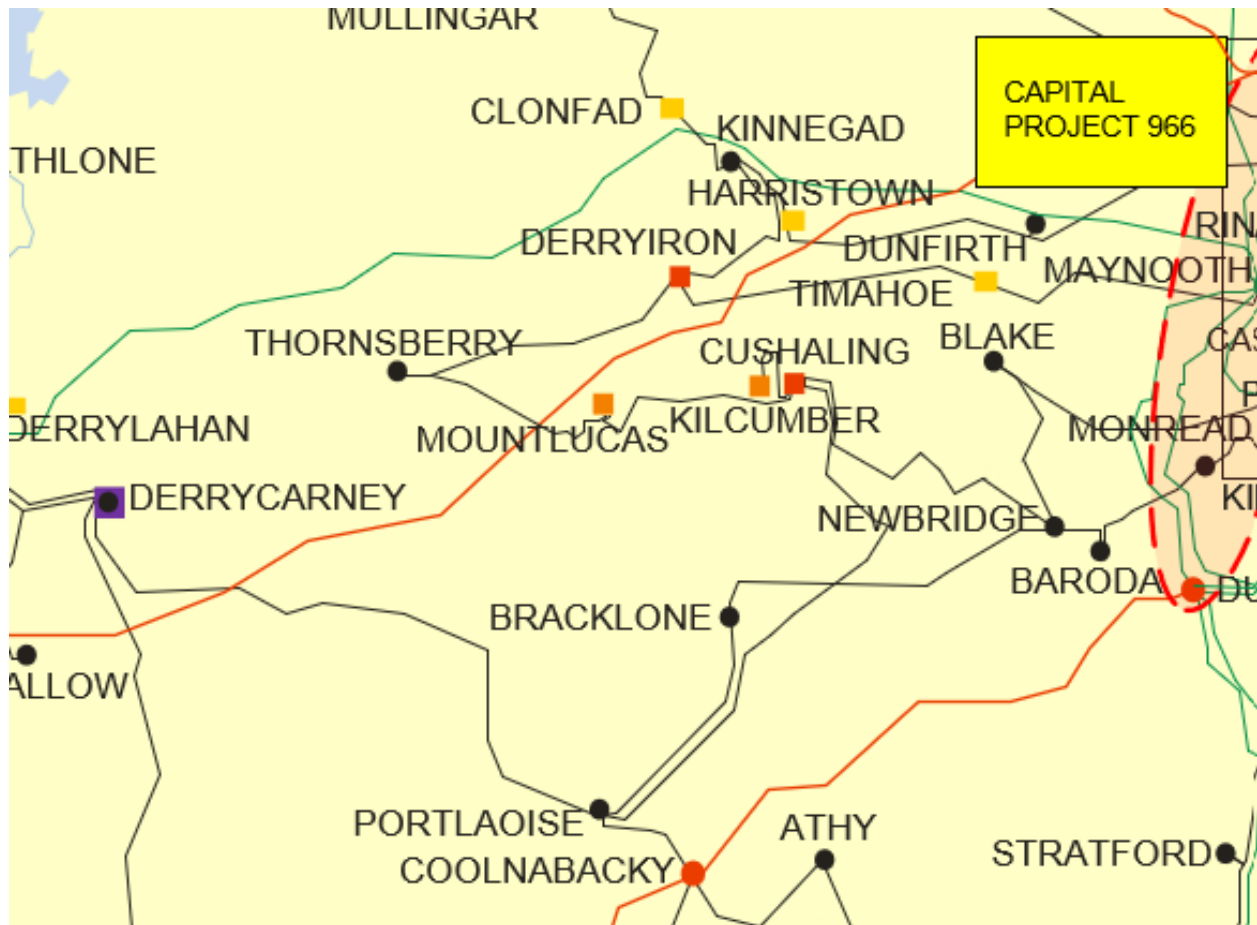


Figure 2-55- Location of node Mount lucas

Generator	SO	Capacity	Type	Status
Mount Lucas (1)	TSO	79.2	wind priority	connected
Moanvane wind	TSO	56.4	wind not priority	connected

Table 2-83- Generation Included in Study for Node Mount lucas

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

Area J	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	56	56	56					
Installed Capacity (MW)	2030	56	56	56	56	56			
Installed Capacity (MW)	FG						56	56	56
Available Energy (GWh)	2028	175	175	175					
Available Energy (GWh)	2030	174	174	174	174	174			
Available Energy (GWh)	FG						174	174	174
Generation (GWh)	2028	93	68	47					
Generation (GWh)	2030	106	89	79	74	79			
Generation (GWh)	FG						94	91	114
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028	7 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	22 %	33 %	39 %					
Constraint (%)	2030	21 %	21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028	47 %	61 %	73 %					
Total Dispatch Down (%)	2030	39 %	49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 2-84- Surplus, Curtailement and Constraint for Wind non-priority for Node Mount Lucas

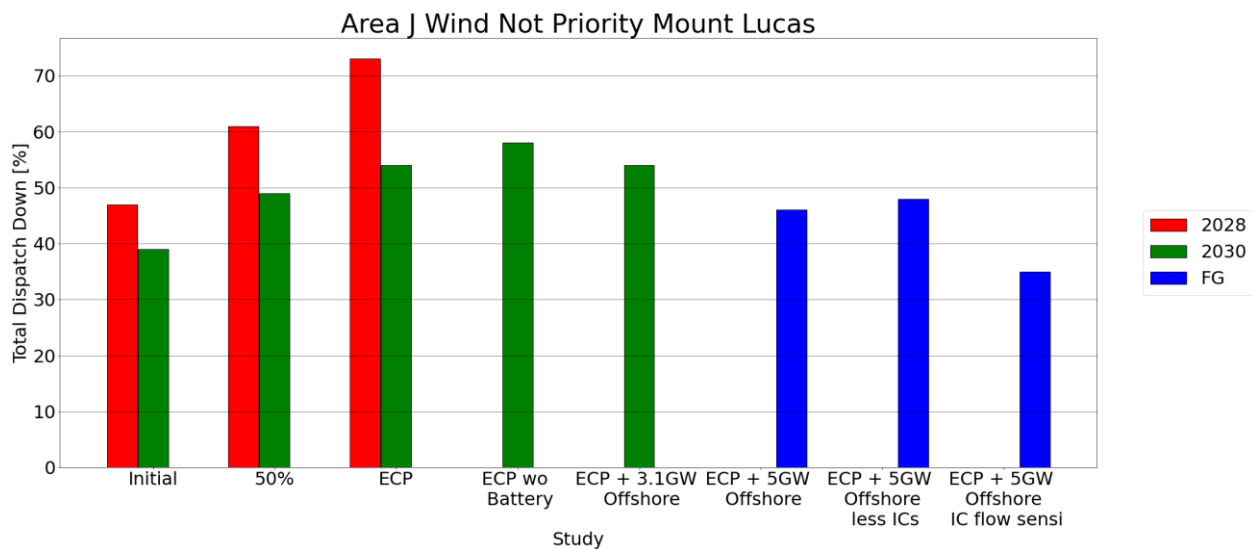


Figure 2-56- Total Dispatch Down for Wind not priority for Node Mount Lucas

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	56	
Installed Capacity (MW)	2030	56	56
Available Energy (GWh)	2028	175	
Available Energy (GWh)	2030	174	174
Generation (GWh)	2028	54	
Generation (GWh)	2030	83	80
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-85- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Mount Lucas

The wind priority data is given in the following table.

Area J	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	79	79	79					
Installed Capacity (MW)	2030	79	79	79	79	79			
Installed Capacity (MW)	FG						79	79	79
Available Energy (GWh)	2028	246	246	246					
Available Energy (GWh)	2030	244	244	244	244	244			
Available Energy (GWh)	FG						244	244	244
Generation (GWh)	2028	220	222	220					
Generation (GWh)	2030	227	229	229	222	226			
Generation (GWh)	FG						229	230	237
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailement (%)	2028	10 %	10 %	10 %					
Curtailement (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailement (%)	FG						6 %	6 %	3 %
Constraint (%)	2028	0 %	0 %	0 %					
Constraint (%)	2030	0 %	0 %	0 %	0 %	0 %			
Constraint (%)	FG						0 %	0 %	0 %
Total Dispatch Down (%)	2028	10 %	10 %	10 %					
Total Dispatch Down (%)	2030	7 %	6 %	6 %	9 %	8 %			
Total Dispatch Down (%)	FG						6 %	6 %	3 %

Table 2-86- Surplus, Curtailement and Constraint for Wind priority for Node Mount Lucas

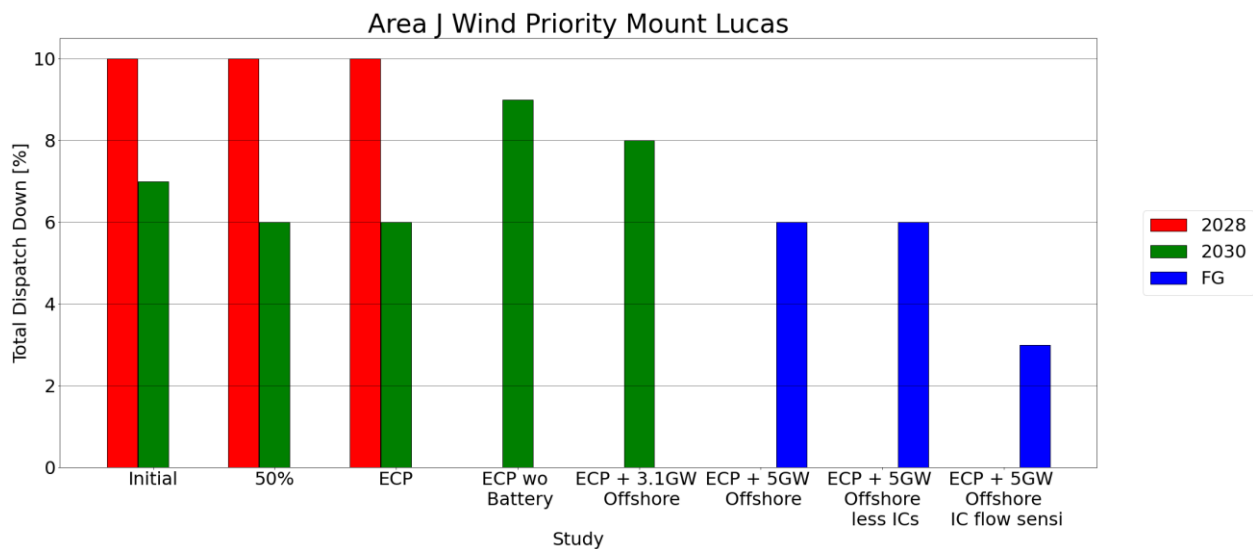


Figure 2-57- Total Dispatch Down for Wind priority for Node Mount lucas

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	79	
Installed Capacity (MW)	2030	79	79
Available Energy (GWh)	2028	246	
Available Energy (GWh)	2030	244	244
Generation (GWh)	2028	133	
Generation (GWh)	2030	184	210
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailement (%)	2028	10 %	
Curtailement (%)	2030	6 %	8 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	46 %	
Total Dispatch Down (%)	2030	25 %	14 %

Table 2-87- Surplus, Curtailement and Constraint for Wind priority with sensitivity for Node Mount lucas

2.28 Mulgeeth

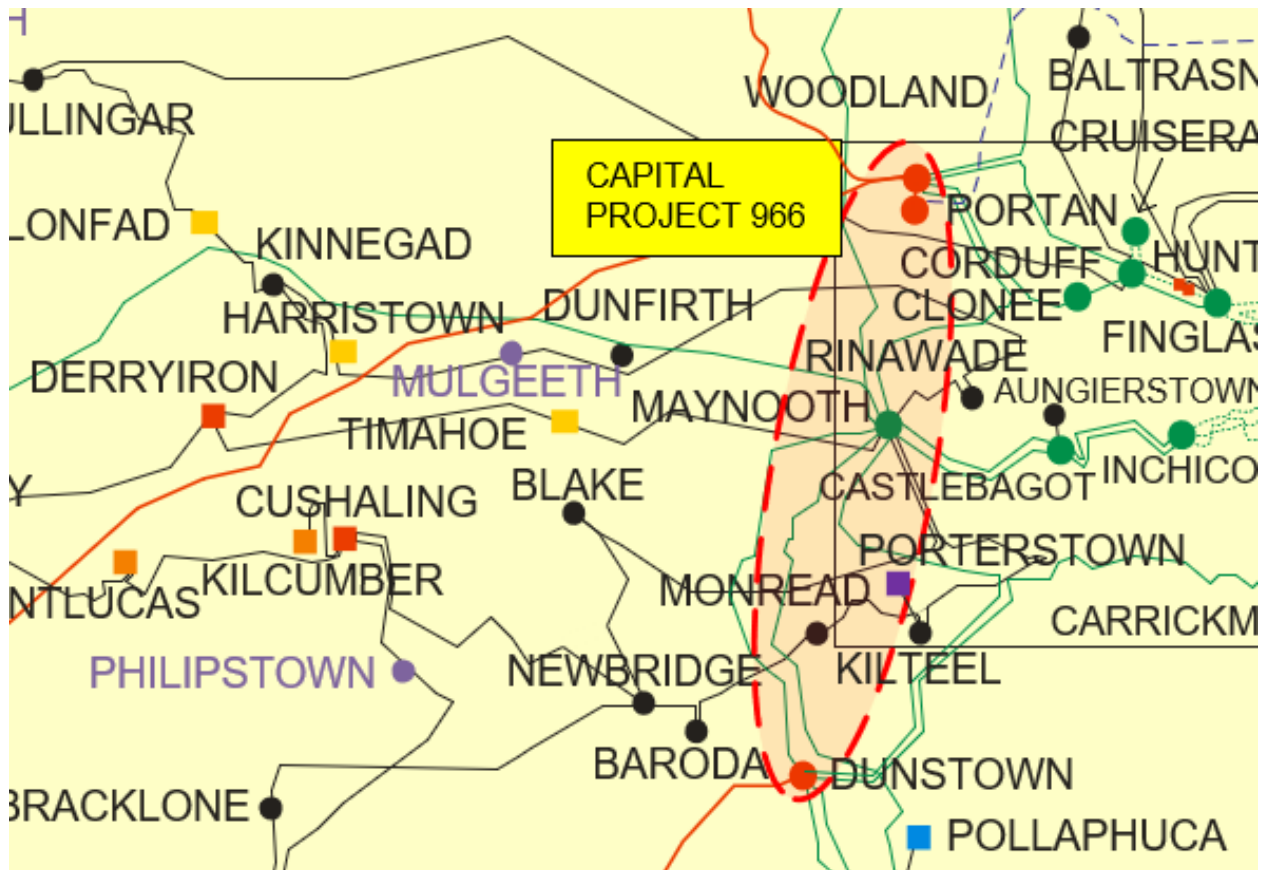


Figure 2-58- Location of node Mulgeeth

Generator	SO	Capacity	Type	Status
Drehid wind	TSO	60.0	wind not priority	due to connected

Table 2-88- Generation Included in Study for Node Mulgeeth

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

Area J	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	60					
Installed Capacity (MW)	2030		30	60	60	60			
Installed Capacity (MW)	FG						60	60	60
Available Energy (GWh)	2028		93	186					
Available Energy (GWh)	2030		93	185	185	185			
Available Energy (GWh)	FG						185	185	185
Generation (GWh)	2028		36	50					
Generation (GWh)	2030		47	84	79	84			
Generation (GWh)	FG						100	97	121
Surplus (%)	2028		23 %	29 %					
Surplus (%)	2030		24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028		5 %	5 %					
Curtailement (%)	2030		3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		33 %	39 %					
Constraint (%)	2030		21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028		61 %	73 %					
Total Dispatch Down (%)	2030		49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 2-89- Surplus, Curtailment and Constraint for Wind non-priority for Node Mulgeeth

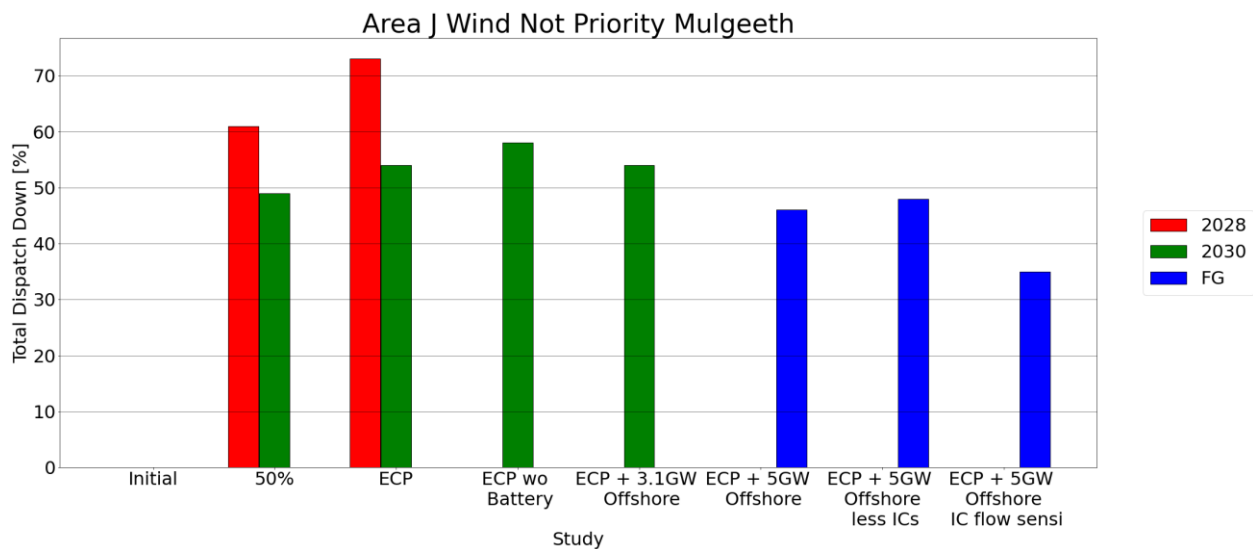


Figure 2-59- Total Dispatch Down for Wind not priority for Node Mulgeeth

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	60	
Installed Capacity (MW)	2030	60	60
Available Energy (GWh)	2028	186	
Available Energy (GWh)	2030	185	185
Generation (GWh)	2028	57	
Generation (GWh)	2030	88	85
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-90- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Mulgeeth

2.29 Newbridge

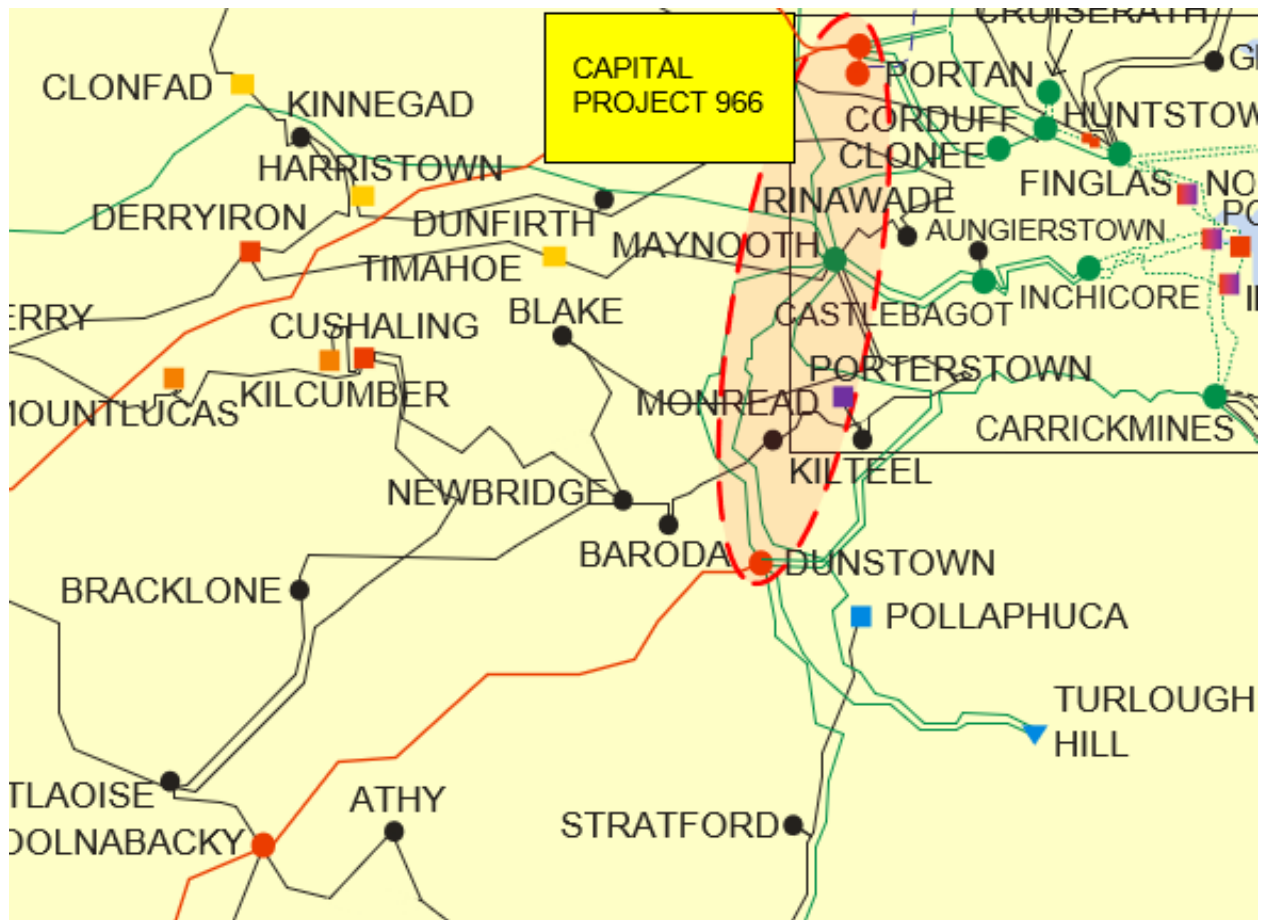


Figure 2-60- Location of node Newbridge

Generator	SO	Capacity	Type	Status
Dunmurry Springs PV	DSO	12.0	solar not priority	connected
Dunmurry Springs PV - Phase 2	DSO	3.99	solar not priority	due to connected

Table 2-91- Generation Included in Study for Node Newbridge

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

Area J	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	12	14	16					
Installed Capacity (MW)	2030	12	14	16	16	16			
Installed Capacity (MW)	FG						16	16	16
Available Energy (GWh)	2028	15	18	21					
Available Energy (GWh)	2030	15	18	20	20	20			
Available Energy (GWh)	FG						20	20	20
Generation (GWh)	2028	13	7	6					
Generation (GWh)	2030	13	10	9	7	9			
Generation (GWh)	FG						9	9	10
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-92- Surplus, Curtailement and Constraint for Solar non-priority for Node Newbridge

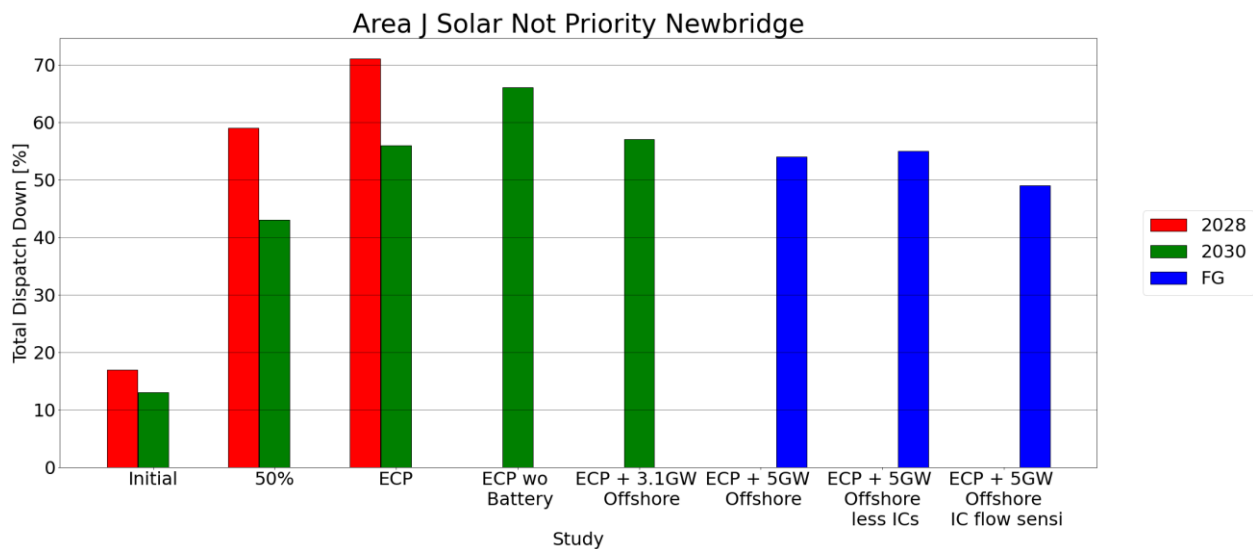


Figure 2-61- Total Dispatch Down for Solar not priority for Node Newbridge

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

Area J	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	20	20
Generation (GWh)	2028	6	
Generation (GWh)	2030	9	9
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-93- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Newbridge

2.30 Philipstown

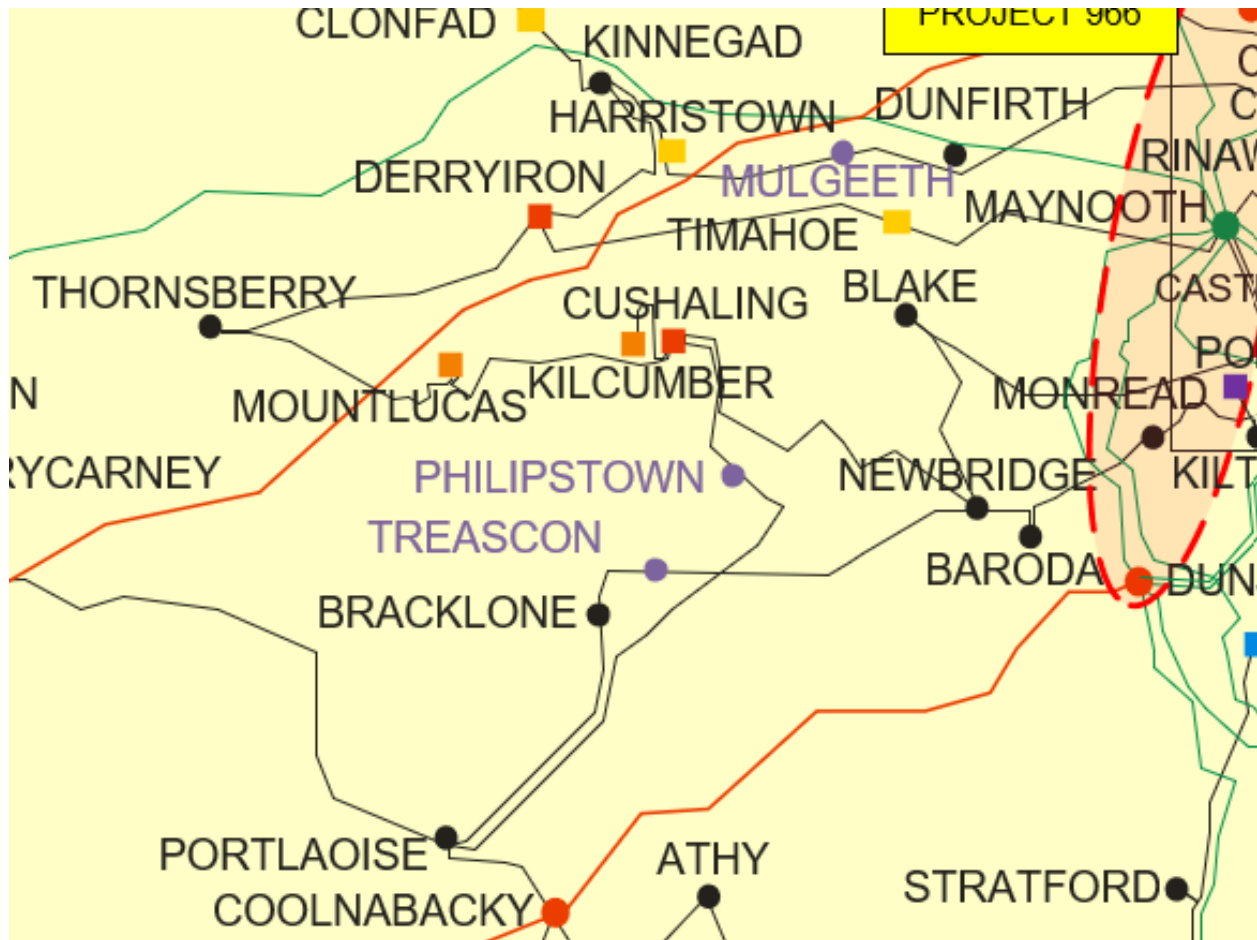


Figure 2-62- Location of node Philipstown

Generator	SO	Capacity	Type	Status
Cushaling wind (loop into Cushaling - Newbridge)	TSO	50.0	wind not priority	due to connected
Kilcush Solar Farm	TSO	50.0	solar not priority	due to connected

Table 2-94- Generation Included in Study for Node Philipstown

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

Area J	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		32	64					
Available Energy (GWh)	2030		32	64	64	64			
Available Energy (GWh)	FG						64	64	64
Generation (GWh)	2028		13	19					
Generation (GWh)	2030		18	28	22	27			
Generation (GWh)	FG						30	29	32
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-95- Surplus, Curtailement and Constraint for Solar non-priority for Node Philipstown

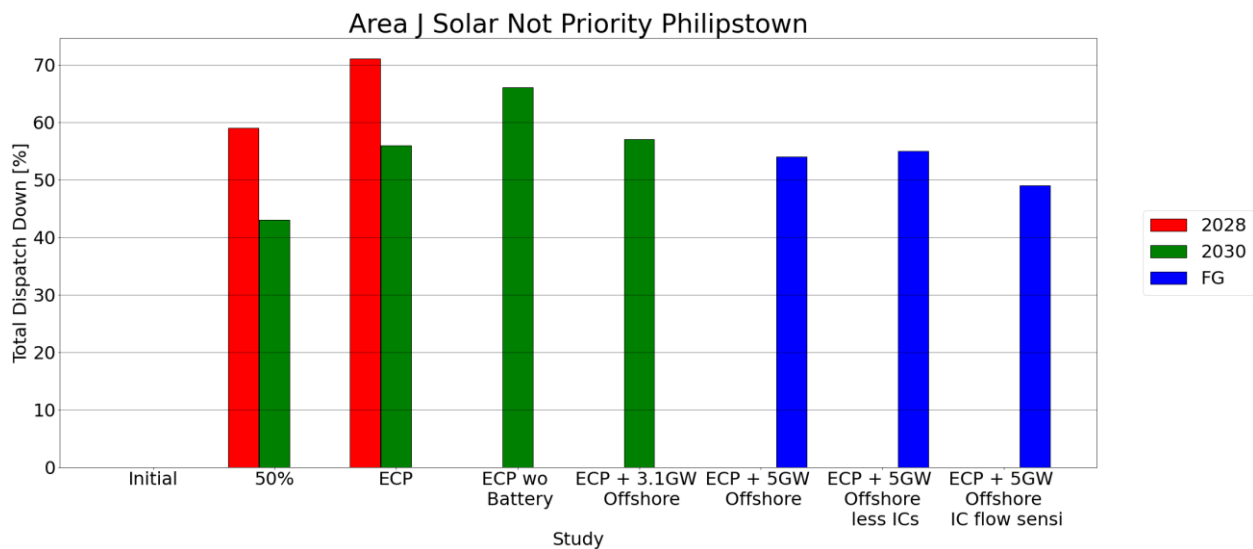


Figure 2-63- Total Dispatch Down for Solar not priority for Node Philipstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	50	
Installed Capacity (MW)	2030	50	50
Available Energy (GWh)	2028	64	
Available Energy (GWh)	2030	64	64
Generation (GWh)	2028	19	
Generation (GWh)	2030	28	27
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-96- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Philipstown

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

Area J	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	50	50					
Installed Capacity (MW)	2030	50	50	50	50	50			
Installed Capacity (MW)	FG						50	50	50
Available Energy (GWh)	2028	155	155	155					
Available Energy (GWh)	2030	154	154	154	154	154			
Available Energy (GWh)	FG						154	154	154
Generation (GWh)	2028	83	60	42					
Generation (GWh)	2030	94	79	70	65	70			
Generation (GWh)	FG						83	81	101
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028	7 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	22 %	33 %	39 %					
Constraint (%)	2030	21 %	21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028	47 %	61 %	73 %					
Total Dispatch Down (%)	2030	39 %	49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 2-97- Surplus, Curtailement and Constraint for Wind non-priority for Node Philipstown

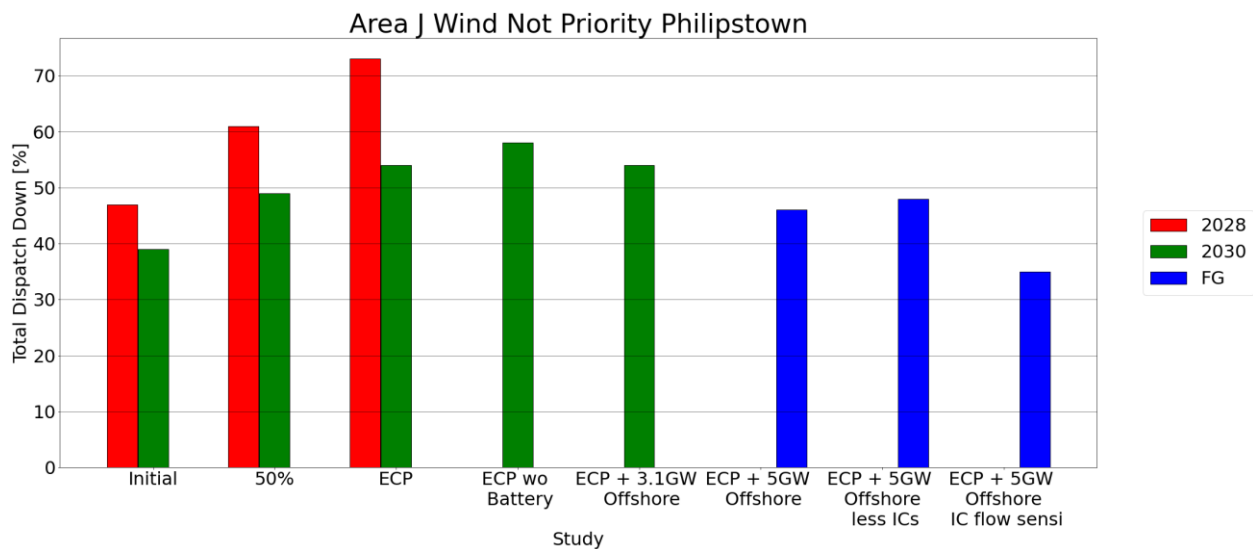


Figure 2-64- Total Dispatch Down for Wind not priority for Node Philipstown

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	50	
Installed Capacity (MW)	2030	50	50
Available Energy (GWh)	2028	155	
Available Energy (GWh)	2030	154	154
Generation (GWh)	2028	48	
Generation (GWh)	2030	73	71
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-98- Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Philipstown

2.31 Poolbeg north 220kV



Figure 2-65- Location of node Poolbeg north 220kV

Generator	SO	Capacity	Type	Status
Codling Offshore Wind A	TSO	400.0	wind not priority	due to connected

Table 2-99- Generation Included in Study for Node Poolbeg north 220kV

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

Area J	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					400			
Installed Capacity (MW)	FG						400	400	400
Available Energy (GWh)	2028								
Available Energy (GWh)	2030					1676			
Available Energy (GWh)	FG						1676	1676	1676
Generation (GWh)	2028								
Generation (GWh)	2030					948			
Generation (GWh)	FG						1019	946	1245
Surplus (%)	2028								
Surplus (%)	2030					38 %			
Surplus (%)	FG						30 %	35 %	19 %
Curtailement (%)	2028								
Curtailement (%)	2030					3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030					3 %			
Constraint (%)	FG						7 %	6 %	5 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030					43 %			
Total Dispatch Down (%)	FG						39 %	44 %	26 %

Table 2-100- Surplus, Curtailement and Constraint for Wind non-priority for Node Poolbeg north 220kV

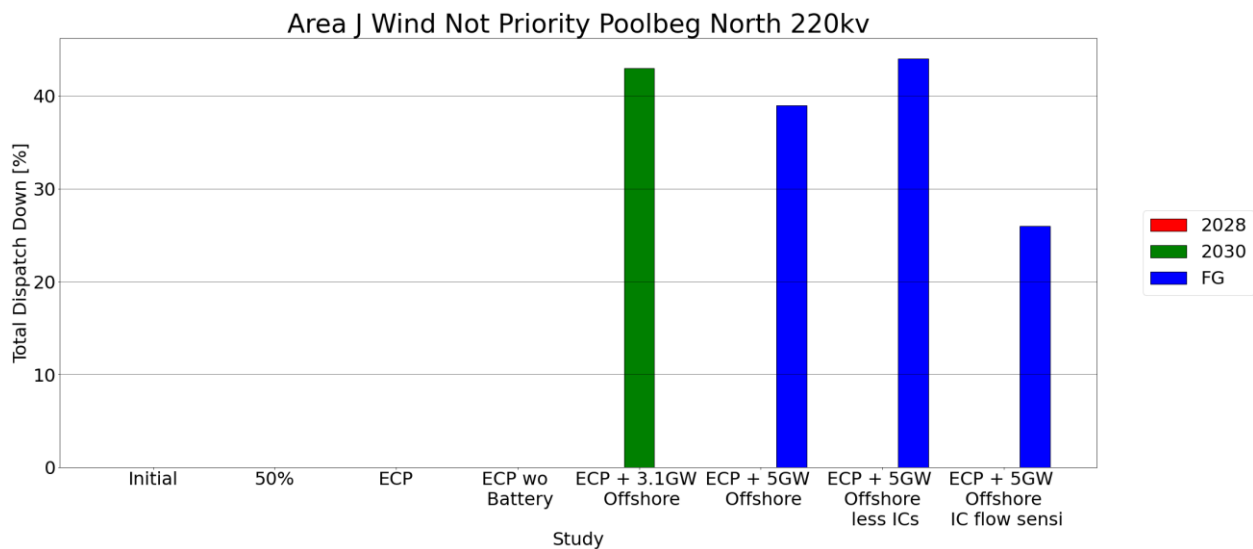


Figure 2-66- Total Dispatch Down for Wind not priority for Node Poolbeg north 220kV

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028		
Installed Capacity (MW)	2030		400
Available Energy (GWh)	2028		
Available Energy (GWh)	2030		1676
Generation (GWh)	2028		
Generation (GWh)	2030		948
Surplus (%)	2028		
Surplus (%)	2030		38 %
Curtailement (%)	2028		
Curtailement (%)	2030		3 %
Constraint (%)	2028		
Constraint (%)	2030		3 %
Total Dispatch Down (%)	2028		
Total Dispatch Down (%)	2030		43 %

Table 2-101- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Poolbeg north 220kV

2.32 Poolbeg south 220kV



Figure 2-67- Location of node Poolbeg south 220kV

Generator	SO	Capacity	Type	Status
Codling Offshore Wind B	TSO	450.0	wind not priority	due to connected
Codling Offshore Wind C	TSO	450.0	wind not priority	due to connected

Table 2-102- Generation Included in Study for Node Poolbeg south 220kV

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

Area J	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					900			
Installed Capacity (MW)	FG						900	900	900
Available Energy (GWh)	2028								
Available Energy (GWh)	2030					3771			
Available Energy (GWh)	FG						3771	3771	3771
Generation (GWh)	2028								
Generation (GWh)	2030					2132			
Generation (GWh)	FG						2292	2129	2801
Surplus (%)	2028								
Surplus (%)	2030					38 %			
Surplus (%)	FG						30 %	35 %	19 %
Curtailement (%)	2028								
Curtailement (%)	2030					3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030					3 %			
Constraint (%)	FG						7 %	6 %	5 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030					43 %			
Total Dispatch Down (%)	FG						39 %	44 %	26 %

Table 2-103- Surplus, Curtailement and Constraint for Wind non-priority for Node Poolbeg south 220kV

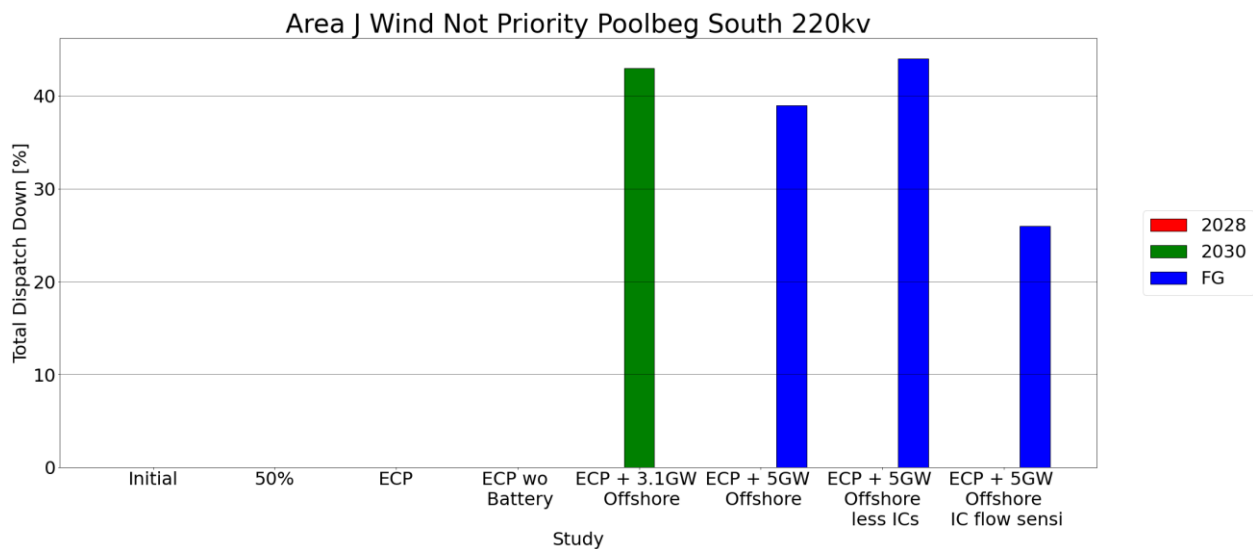


Figure 2-68- Total Dispatch Down for Wind not priority for Node Poolbeg south 220kV

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028		
Installed Capacity (MW)	2030		900
Available Energy (GWh)	2028		
Available Energy (GWh)	2030		3771
Generation (GWh)	2028		
Generation (GWh)	2030		2132
Surplus (%)	2028		
Surplus (%)	2030		38 %
Curtailement (%)	2028		
Curtailement (%)	2030		3 %
Constraint (%)	2028		
Constraint (%)	2030		3 %
Total Dispatch Down (%)	2028		
Total Dispatch Down (%)	2030		43 %

Table 2-104- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Poolbeg south 220kV

2.33 Portlaoise

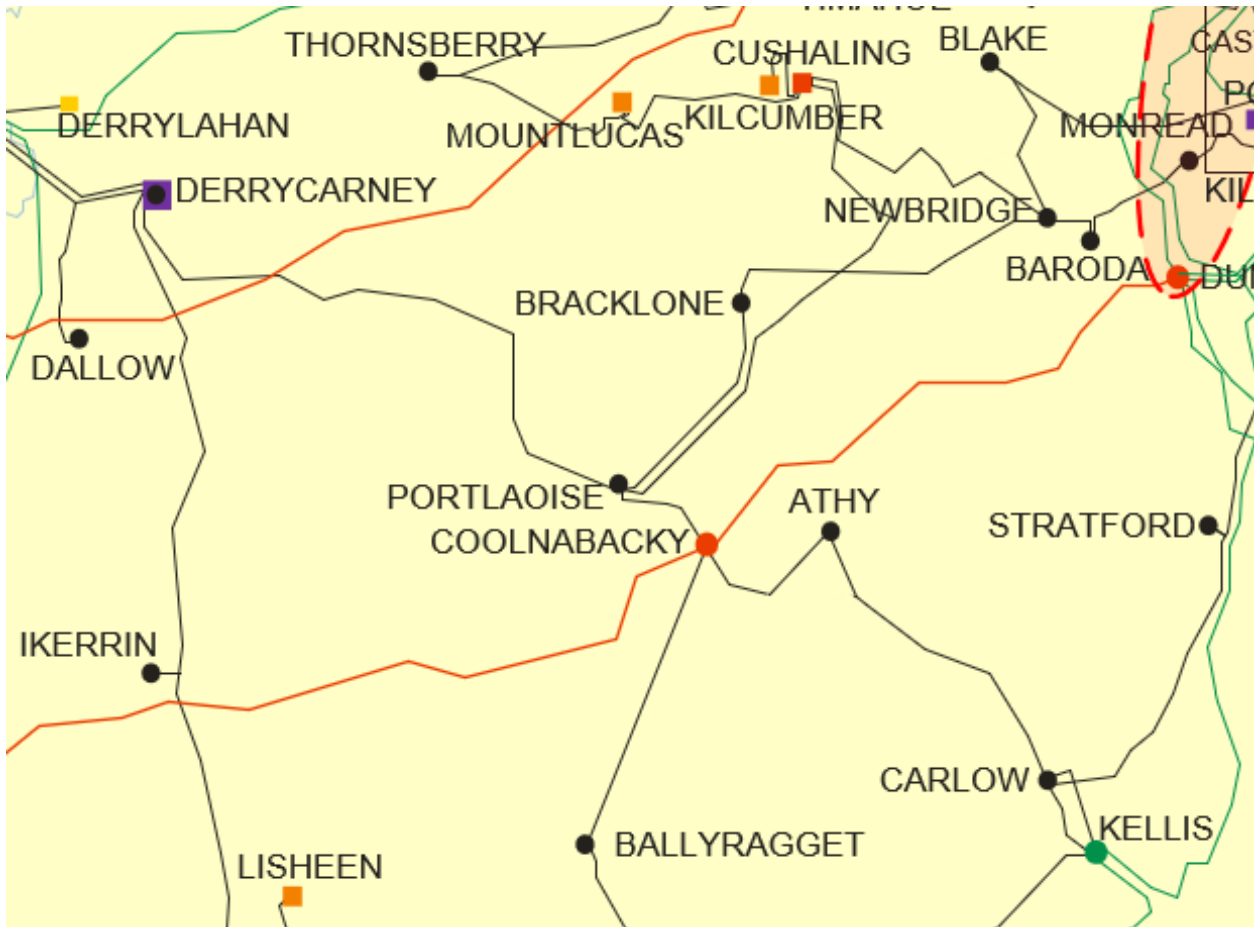


Figure 2-69- Location of node Portlaoise

Generator	SO	Capacity	Type	Status
Dooray WF	DSO	45.001	wind not priority	due to connected
Shanderry Solar Farm	DSO	4.0	solar not priority	due to connected

Table 2-105- Generation Included in Study for Node Portlaoise

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

Area J	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		2	4					
Installed Capacity (MW)	2030		2	4	4	4			
Installed Capacity (MW)	FG						4	4	4
Available Energy (GWh)	2028		3	5					
Available Energy (GWh)	2030		3	5	5	5			
Available Energy (GWh)	FG						5	5	5
Generation (GWh)	2028		1	2					
Generation (GWh)	2030		1	2	2	2			
Generation (GWh)	FG						2	2	3
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	30 %			
Surplus (%)	FG						22 %	29 %	18 %
Curtailement (%)	2028		4 %	6 %					
Curtailement (%)	2030		3 %	4 %	5 %	4 %			
Curtailement (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		43 %	42 %					
Constraint (%)	2030		26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028		59 %	71 %					
Total Dispatch Down (%)	2030		43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-106- Surplus, Curtailement and Constraint for Solar non-priority for Node Portlaoise

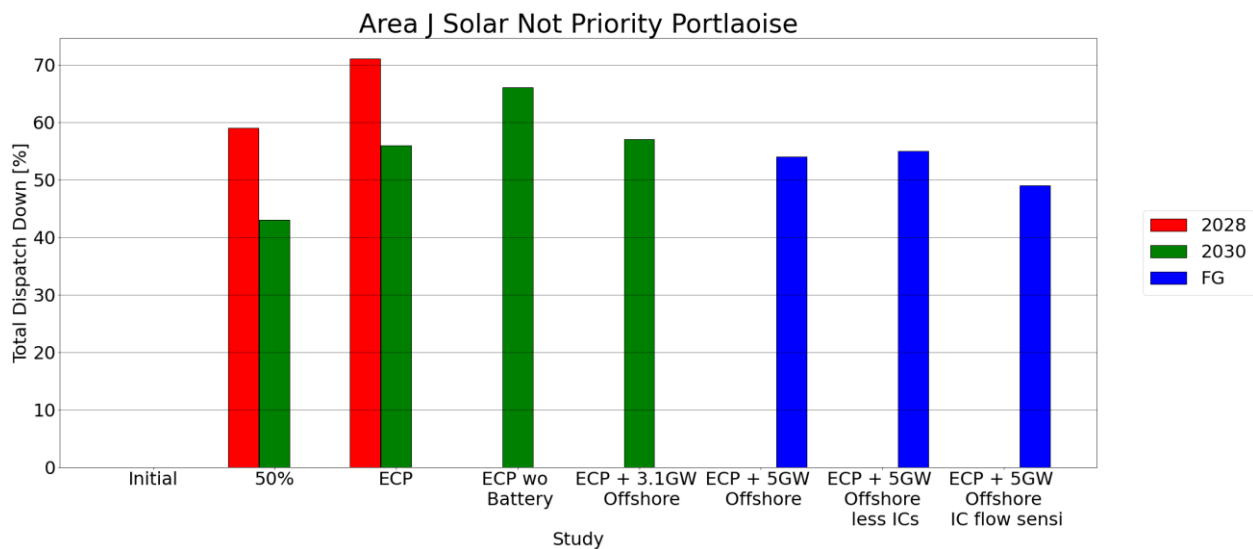


Figure 2-70- Total Dispatch Down for Solar not priority for Node Portlaoise

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	4	
Installed Capacity (MW)	2030	4	4
Available Energy (GWh)	2028	5	
Available Energy (GWh)	2030	5	5
Generation (GWh)	2028	2	
Generation (GWh)	2030	2	2
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-107- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Portlaoise

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

Area J	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	45	45	45					
Installed Capacity (MW)	2030	45	45	45	45	45			
Installed Capacity (MW)	FG						45	45	45
Available Energy (GWh)	2028	140	140	140					
Available Energy (GWh)	2030	139	139	139	139	139			
Available Energy (GWh)	FG						139	139	139
Generation (GWh)	2028	74	54	38					
Generation (GWh)	2030	84	71	63	59	63			
Generation (GWh)	FG						75	73	91
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	24 %	31 %	36 %	44 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailement (%)	2028	7 %	5 %	5 %					
Curtailement (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailement (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	22 %	33 %	39 %					
Constraint (%)	2030	21 %	21 %	20 %	17 %	7 %			
Constraint (%)	FG						8 %	5 %	10 %
Total Dispatch Down (%)	2028	47 %	61 %	73 %					
Total Dispatch Down (%)	2030	39 %	49 %	54 %	58 %	54 %			
Total Dispatch Down (%)	FG						46 %	48 %	35 %

Table 2-108- Surplus, Curtailement and Constraint for Wind non-priority for Node Portlaoise

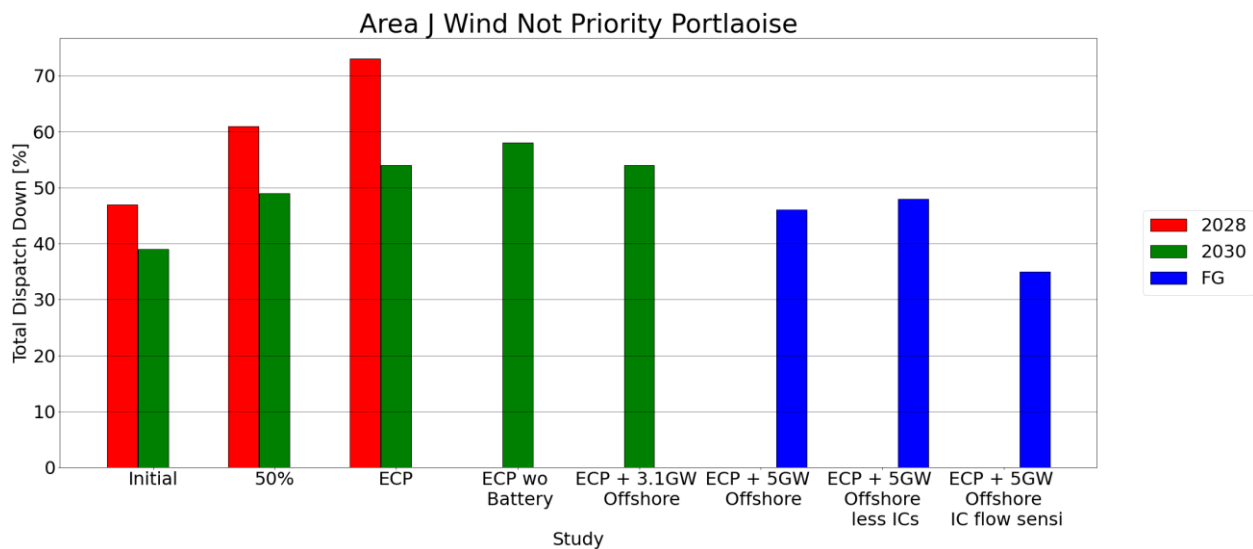


Figure 2-71- Total Dispatch Down for Wind not priority for Node Portlaoise

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	45	
Installed Capacity (MW)	2030	45	45
Available Energy (GWh)	2028	140	
Available Energy (GWh)	2030	139	139
Generation (GWh)	2028	43	
Generation (GWh)	2030	66	64
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	44 %
Curtailement (%)	2028	5 %	
Curtailement (%)	2030	3 %	3 %
Constraint (%)	2028	36 %	
Constraint (%)	2030	18 %	7 %
Total Dispatch Down (%)	2028	69 %	
Total Dispatch Down (%)	2030	53 %	54 %

Table 2-109- Surplus, Curtailement and Constraint for Wind non-priority with sensitivity for Node Portlaoise

2.34 Thornsberry

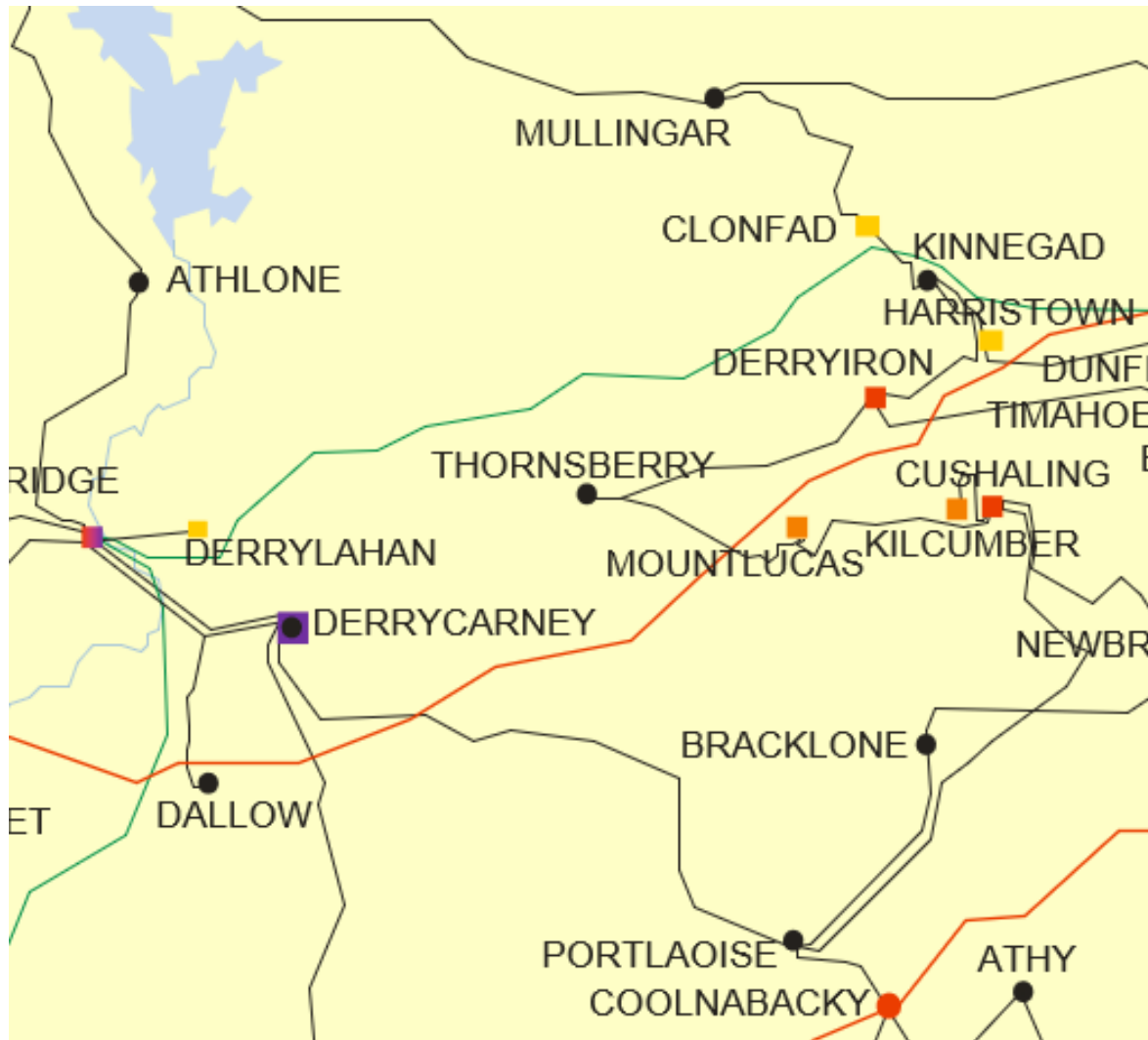


Figure 2-72- Location of node Thornsberry

Generator	SO	Capacity	Type	Status
Lehinch Solar Farm	DSO	4.0	solar not priority	connected
Muinagh Solar Farm	DSO	4.0	solar not priority	due to connected
Muinagh Solar Farm phase 2	DSO	1.8	solar not priority	due to connected
Ballyboughlin Solar Farm	DSO	14.0	solar not priority	due to connected
Ballyteige Solar Park	TSO	90.0	solar not priority	due to connected
Ballyteigue Solar ph2	TSO	90.0	solar not priority	due to connected
Gormagh Solar Farm	TSO	40.0	solar not priority	due to connected

Table 2-110- Generation Included in Study for Node Thornsberry

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

Area J	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	124	244					
Installed Capacity (MW)	2030	4	124	244	244	244			
Installed Capacity (MW)	FG						244	244	244
Available Energy (GWh)	2028	5	159	313					
Available Energy (GWh)	2030	5	159	312	312	312			
Available Energy (GWh)	FG						312	312	312
Generation (GWh)	2028	4	65	92					
Generation (GWh)	2030	4	91	137	106	133			
Generation (GWh)	FG						144	142	158
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-111- Surplus, Curtailement and Constraint for Solar non-priority for Node Thornsberry

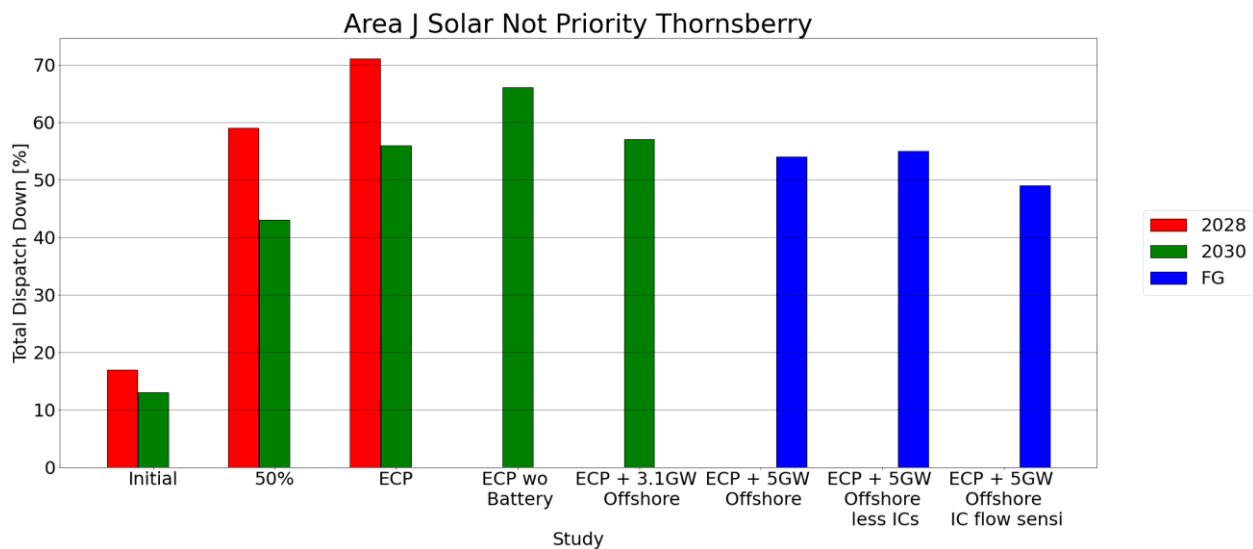


Figure 2-73- Total Dispatch Down for Solar not priority for Node Thornsberry

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	244	
Installed Capacity (MW)	2030	244	244
Available Energy (GWh)	2028	313	
Available Energy (GWh)	2030	312	312
Generation (GWh)	2028	92	
Generation (GWh)	2030	137	133
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-112- Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Thornsberry

2.35 Timahoe

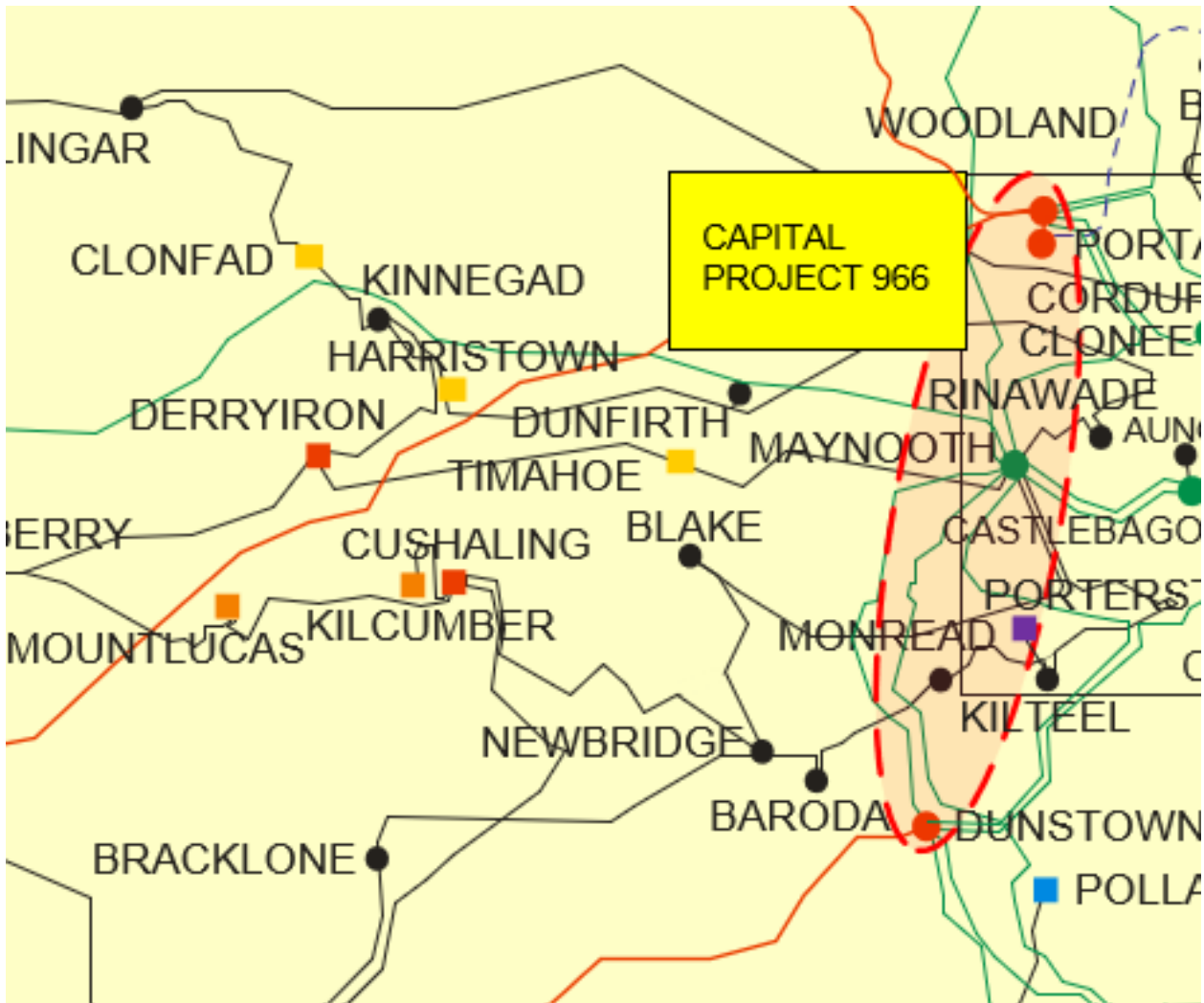


Figure 2-74- Location of node Timahoe

Generator	SO	Capacity	Type	Status
Timahoe North solar	TSO	70.0	solar not priority	connected
Timahoe North Phase 2 Solar Farm	TSO	60.0	solar not priority	due to connected
Old Court Solar Farm	TSO	90.0	solar not priority	due to connected
Coolcarrigan Solar P2	TSO	120.0	solar not priority	due to connected

Table 2-113- Generation Included in Study for Node Timahoe

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

Area J	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	70	205	340					
Installed Capacity (MW)	2030	70	205	340	340	340			
Installed Capacity (MW)	FG						340	340	340
Available Energy (GWh)	2028	90	263	436					
Available Energy (GWh)	2030	90	263	436	436	436			
Available Energy (GWh)	FG						436	436	436
Generation (GWh)	2028	74	107	128					
Generation (GWh)	2030	78	150	191	148	186			
Generation (GWh)	FG						201	198	221
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	5 %	43 %	42 %					
Constraint (%)	2030	2 %	26 %	28 %	29 %	23 %			
Constraint (%)	FG						29 %	23 %	29 %
Total Dispatch Down (%)	2028	17 %	59 %	71 %					
Total Dispatch Down (%)	2030	13 %	43 %	56 %	66 %	57 %			
Total Dispatch Down (%)	FG						54 %	55 %	49 %

Table 2-114- Surplus, Curtailement and Constraint for Solar non-priority for Node Timahoe

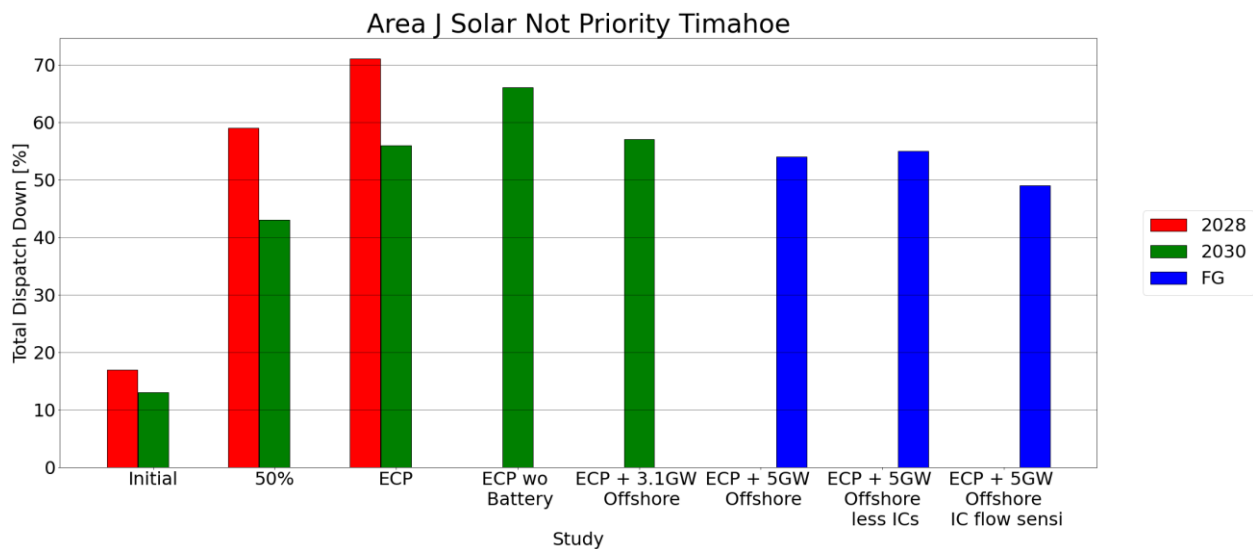


Figure 2-75- Total Dispatch Down for Solar not priority for Node Timahoe

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

Area J	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	340	
Installed Capacity (MW)	2030	340	340
Available Energy (GWh)	2028	436	
Available Energy (GWh)	2030	436	436
Generation (GWh)	2028	128	
Generation (GWh)	2030	191	186
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	30 %
Curtailement (%)	2028	6 %	
Curtailement (%)	2030	4 %	4 %
Constraint (%)	2028	42 %	
Constraint (%)	2030	28 %	23 %
Total Dispatch Down (%)	2028	71 %	
Total Dispatch Down (%)	2030	56 %	57 %

Table 2-115- Surplus, Curtailement and Constraint for Solar non-priority with sensitivity for Node Timahoe