

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

Results for Area I for Solar and Wind

Version 1.0

11/02/26



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

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Table of Contents

Disclaimer	3
1 Overview for Area I	5
1.1 Introduction	5
1.2 Key Summary	6
1.3 Generation Overview	6
1.4 Subgroups	8
1.5 Area I - Summary Results	9
1.5.1 Non - priority Solar Results for E, F & I	10
1.5.2 Non - priority Wind Results for E, F & I	12
2 Area I Node Results	14
2.1 Barnahely	15
2.2 Castleview	18
2.3 Coolroe	21
2.4 Cow cross	24
2.5 Kilbarry	27
2.6 Knockraha	30
2.7 Knockraha 220kV	33
2.8 Lysaghtstown	36
2.9 Midleton	39
2.10 Raffeen	42
2.11 Rathcoursey	45
2.12 Trabeg	48

1 Overview for Area I

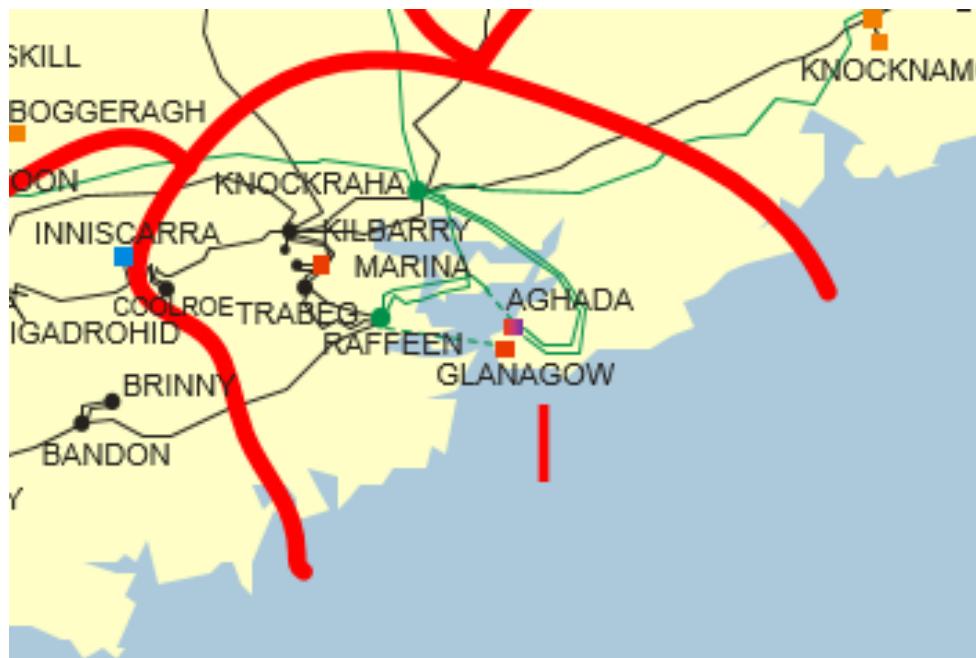


Figure 1-1 Network Map for Area I

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

1.1 Introduction

This document is for customers wishing to see the estimated Total Dispatch Down for Area I. 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 I 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 I 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 I.

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

For Area I, the dominant power flows tend to be towards the load centres on the east coast and the interconnectors. With Celtic getting connected in Area I, the power flow at times can be towards area I and towards Interconnector depending on the flow on the Celtic. These flow patterns are relevant when seeking to understand constraint apportionment in the simulation.

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

In addition to the power flows out of Area I, there are also power flows across or through Area I. Renewable power from the south-west will flow across the transmission network and at least some of this power will flow through Area I. The power flowing out of Area I meets and joins with power flows from other areas, as the power flows towards the north-east.

Area I is adjacent to Area E and the power from Area E tends to flow onto the 220 kV circuit running from Kilpaddoge towards Knockraha. Power flows to the 220 kV nodes from Area I. Any issues with the 220 kV circuit or with parallel paths can limit the generation in this area. In the Area I, Knockraha to Barrymore region is a major bottleneck in the area during the high-RES scenarios. Additionally, the issues binding for the circuits in Area E can create additional stress on the Area F and Area I circuits, as they merge with rescue flows towards Knockraha.

1.3 Generation Overview

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

Node	SO	Status	Solar	Wind
Barnahely	DSO	due to connected	10	
Barnahely	DSO	due to connected	1	
Barnahely	DSO	connected		5
Castleview	DSO	due to connected	3	
Coolroe	DSO	due to connected	14	
Cow Cross	DSO	due to connected	13	
Kilbarry	DSO	connected	10	
Kilbarry	DSO	due to connected	70	
Kilbarry	DSO	connected		1
Knockraha 220kV	TSO	due to connected		378
Knockraha	TSO	due to connected	42	
Lysaghtstown	TSO	connected	87	
Lysaghtstown	TSO	due to connected	45	
Midleton	DSO	connected	4	

Midleton	DSO	due to connected	29	
Midleton	DSO	connected		2
Raffeen	TSO	due to connected	55	
Rathcoursey	TSO	due to connected	110	
Trabeg	DSO	connected	5	
Total			498	386

Table 1-1 Wind and Solar Generation Summary (MW) in Area I 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 I (MW)	498	498	498	498	498
Installed Controllable Area I (MW)	497	497	497	497	497
Available Controllable Area I (GWh)	582	582	582	582	582

Table 1-2 Installed MW and Available GWh for Area I - 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 I (MW)	8	8	386	386	386
Installed Controllable Area I (MW)	0	0	378	378	378
Available Controllable Area I (GWh)	0	0	1607	1607	1607

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

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

Subgroup	Nodes
E, F & I	Barnahely
	Castleview
	Coolroe
	Cow Cross
	Kilbarry
	Knockraha
	Knockraha 220kV
	Lysaghtstown
	Midleton
	Raffeen
	Rathcoursey
	Trabeg

Table 1-4 Area I generator nodes and their subgroups

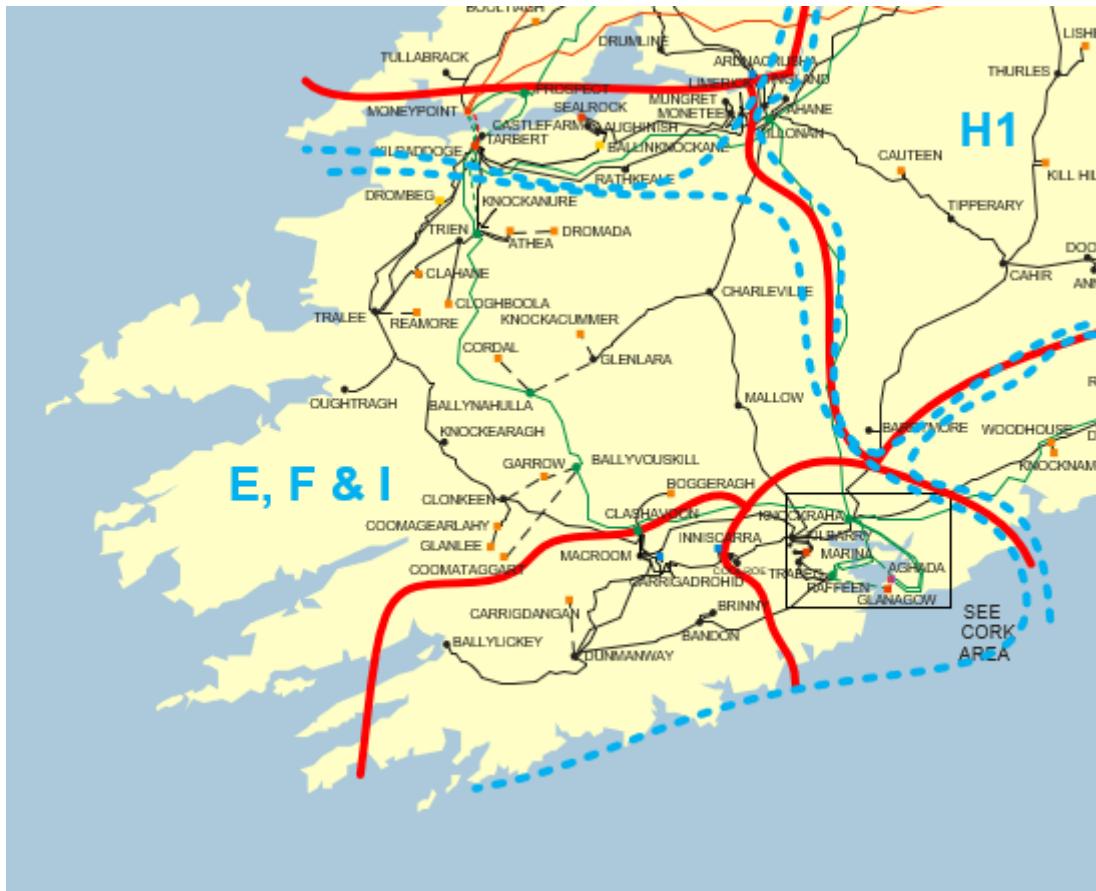


Figure 1-2 Subgroup E, F & I (subgroups outlined by blue dashed line)

1.5 Area I - Summary Results

The Total Dispatch Down results for Area I are provided below in Table 1-5 to Table 1-7 and Figure 1-3 to Figure 1-4. These include the breakdown between surplus, curtailment and constraint. These include the breakdown between surplus, curtailment, and constraint. The Table 1-6 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 I (solar non-priority, wind non-priority and wind priority), the total installed capacity in MW and total available generation in GWh are given in Table 1-5, to Table 1-7. The total generation in GWh after dispatch down and the corresponding percentage Total Dispatch Down are also included in the tables for each scenario. Details on the generation and network scenarios are given in the Assumptions document and Methodology report.

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

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

Area I (E,F & I)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	110	304	497					
Installed Capacity (MW)	2030	110	304	497	497	497			
Installed Capacity (MW)	FG						497	497	497
Available Energy (GWh)	2028	129	356	582					
Available Energy (GWh)	2030	129	355	582	582	582			
Available Energy (GWh)	FG						582	582	582
Generation (GWh)	2028	86	282	404					
Generation (GWh)	2030	109	290	414	358	380			
Generation (GWh)	FG						420	390	462
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

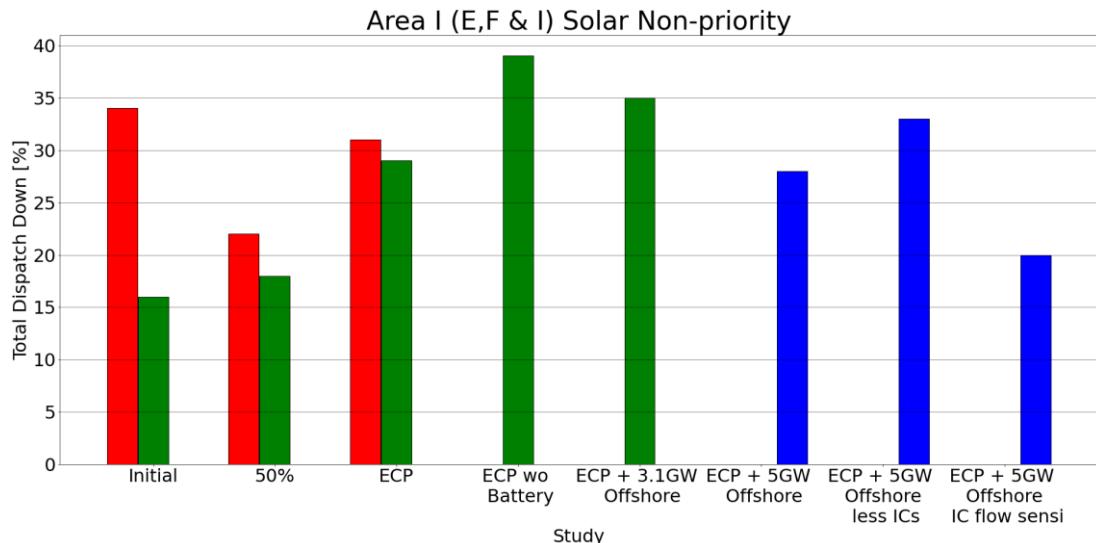


Figure 1-3 Results Solar Non-Priority Area I (E, F & I)

Area I (E,F & I)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	497	
Installed Capacity (MW)	2030	497	497
Available Energy (GWh)	2028	582	
Available Energy (GWh)	2030	582	582
Generation (GWh)	2028	404	
Generation (GWh)	2030	414	380
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

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

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

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

Area I (E,F & I)	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028								
Installed Capacity (MW)	2030								
Installed Capacity (MW)	FG						378	378	378
Available Energy (GWh)	2028								
Available Energy (GWh)	2030								
Available Energy (GWh)	FG						1607	1607	1607
Generation (GWh)	2028								
Generation (GWh)	2030								
Generation (GWh)	FG						879	859	1183
Surplus (%)	2028								
Surplus (%)	2030								
Surplus (%)	FG						29 %	34 %	18 %
Curtailment (%)	2028								
Curtailment (%)	2030								
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030								
Constraint (%)	FG						14 %	11 %	7 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030								
Total Dispatch Down (%)	FG						45 %	47 %	26 %

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

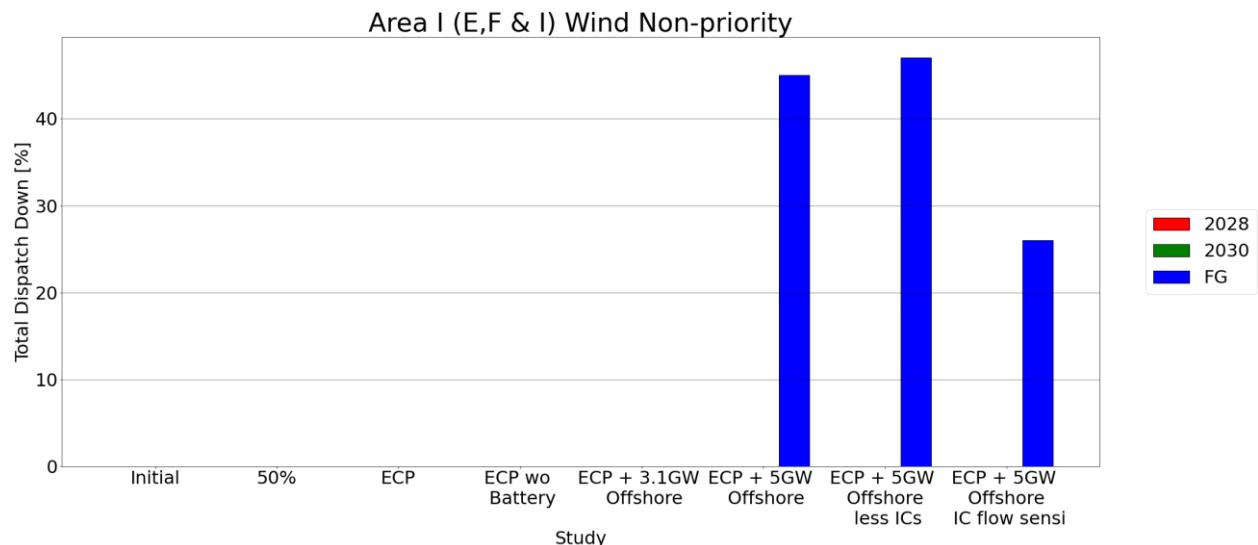


Figure 1-4 Results Wind Non-Priority in Area I (E, F & I)

2 Area I Node Results

This section presents results for 12 nodes in Area I.

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 Barnahely, 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 Barnahely



Figure 2-1 - Location of node Barnahely

Generator	SO	Capacity	Type	Status
DePuy	DSO	2.5	wind uncontrolled	connected
Wind Energy Project (Janssen)	DSO	2.0	wind uncontrolled	connected
DePuy Synthes Turbine2	DSO	0.99	wind uncontrolled	connected
Leacht Cross Solar	DSO	4.95	solar not priority	due to connected
Leacht Cross Solar Phase 2	DSO	5.0	solar not priority	due to connected
Carrigaline PV	DSO	1.0	solar uncontrolled	due to connected

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

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		5	10					
Installed Capacity (MW)	2030		5	10	10	10			
Installed Capacity (MW)	FG						10	10	10
Available Energy (GWh)	2028		6	12					
Available Energy (GWh)	2030		6	12	12	12			
Available Energy (GWh)	FG						12	12	12
Generation (GWh)	2028		5	8					
Generation (GWh)	2030		5	8	7	8			
Generation (GWh)	FG						8	8	9
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		4 %	2 %					
Constraint (%)	2030		1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

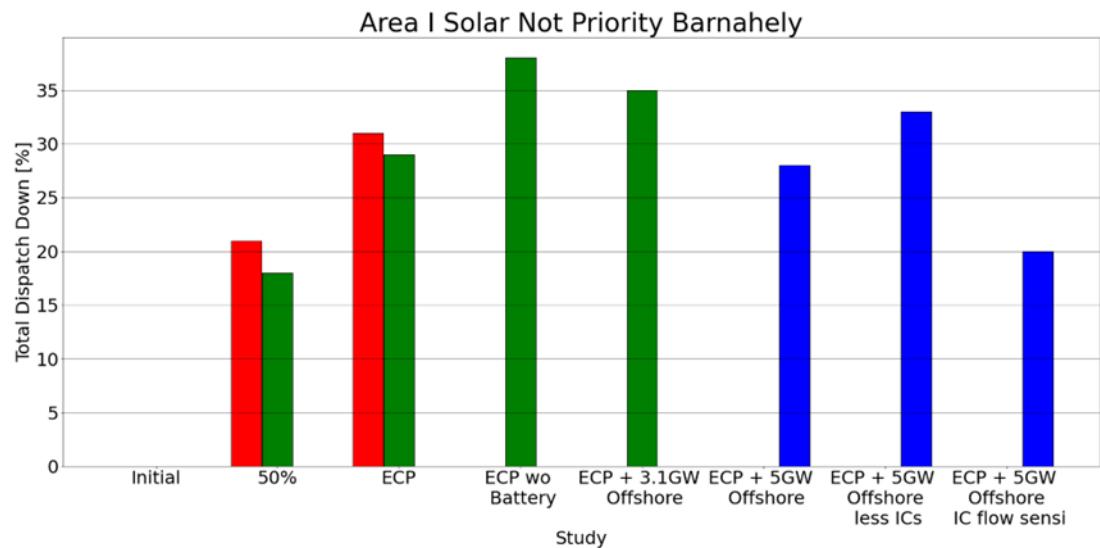


Figure 2-2 - Total Dispatch Down for Solar not priority for Node Barnahely

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	10	
Installed Capacity (MW)	2030	10	10
Available Energy (GWh)	2028	12	
Available Energy (GWh)	2030	12	12
Generation (GWh)	2028	8	
Generation (GWh)	2030	8	8
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-3 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Barnahely

2.2 Castleview

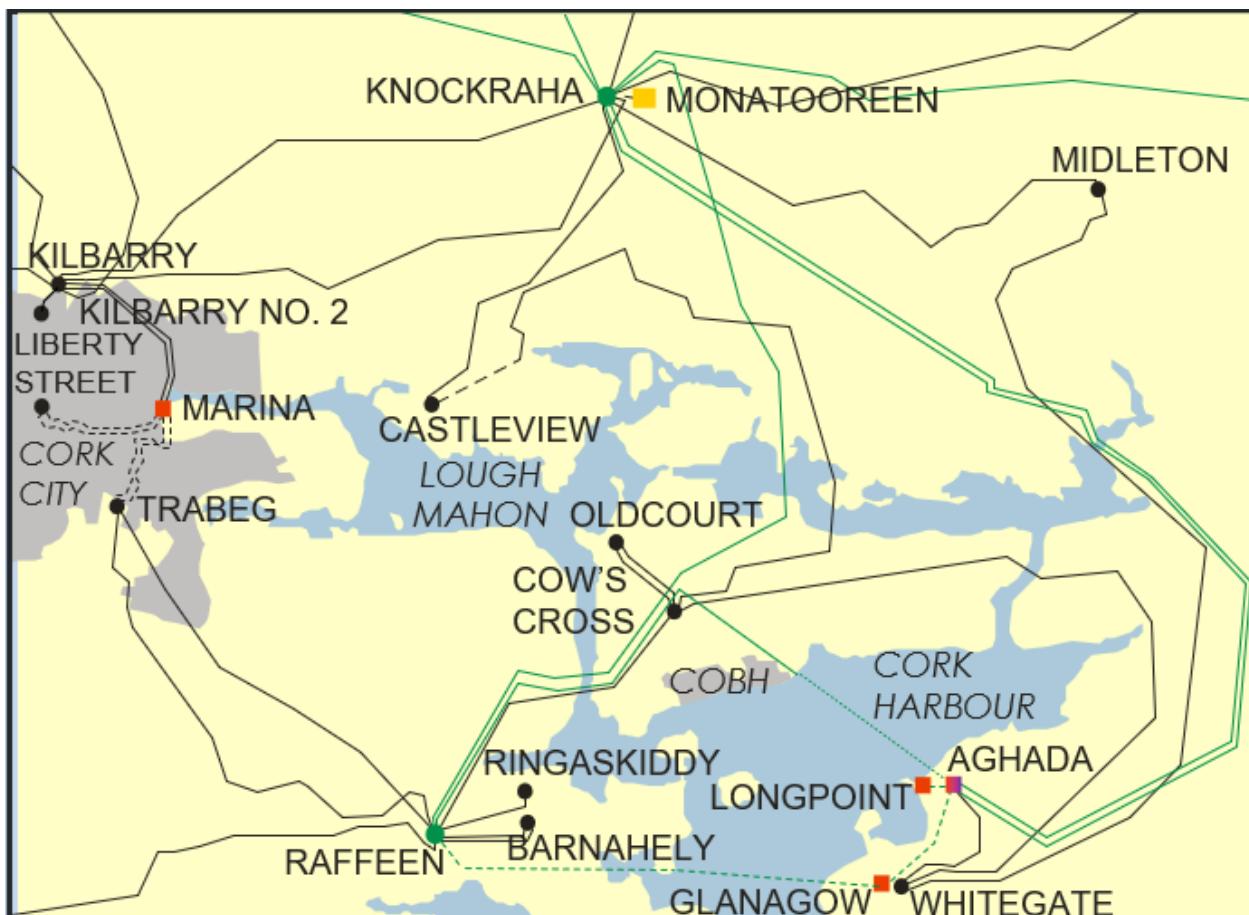


Figure 2-3 - Location of node Castleview

Generator	SO	Capacity	Type	Status
AMS solar	DSO	3.49	solar not priority	due to connected

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

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

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

Table 2-5 - Surplus, Curtailment and Constraint for Solar non-priority for Node Castleview

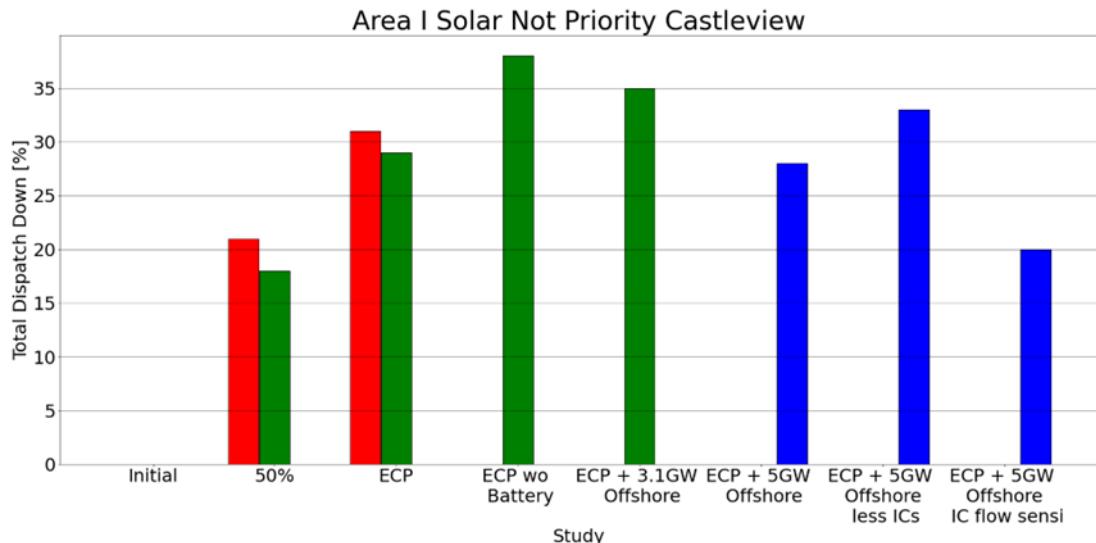


Figure 2-4 - Total Dispatch Down for Solar not priority for Node Castleview

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	3	
Installed Capacity (MW)	2030	3	3
Available Energy (GWh)	2028	4	
Available Energy (GWh)	2030	4	4
Generation (GWh)	2028	3	
Generation (GWh)	2030	3	3
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-6 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Castleview

2.3 Coolroe



Figure 2-5 - Location of node Coolroe

Generator	SO	Capacity	Type	Status
Garravagh 1 Solar Park	DSO	14.0	solar not priority	due to connected

Table 2-7 - Generation Included in Study for Node Coolroe

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		7	14					
Installed Capacity (MW)	2030		7	14	14	14			
Installed Capacity (MW)	FG						14	14	14
Available Energy (GWh)	2028		8	16					
Available Energy (GWh)	2030		8	16	16	16			
Available Energy (GWh)	FG						16	16	16
Generation (GWh)	2028		6	11					
Generation (GWh)	2030		7	12	10	11			
Generation (GWh)	FG						12	11	13
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		4 %	2 %					
Constraint (%)	2030		1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

Table 2-8 - Surplus, Curtailment and Constraint for Solar non-priority for Node Coolroe

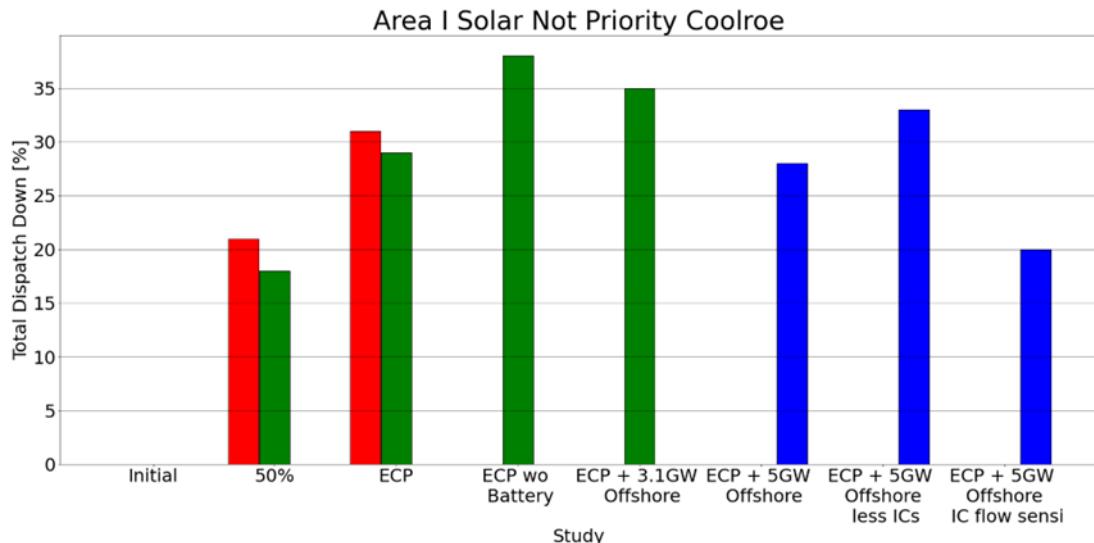


Figure 2-6 - Total Dispatch Down for Solar not priority for Node Coolroe

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	14	
Installed Capacity (MW)	2030	14	14
Available Energy (GWh)	2028	16	
Available Energy (GWh)	2030	16	16
Generation (GWh)	2028	11	
Generation (GWh)	2030	12	11
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-9 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Coolroe

2.4 Cow cross

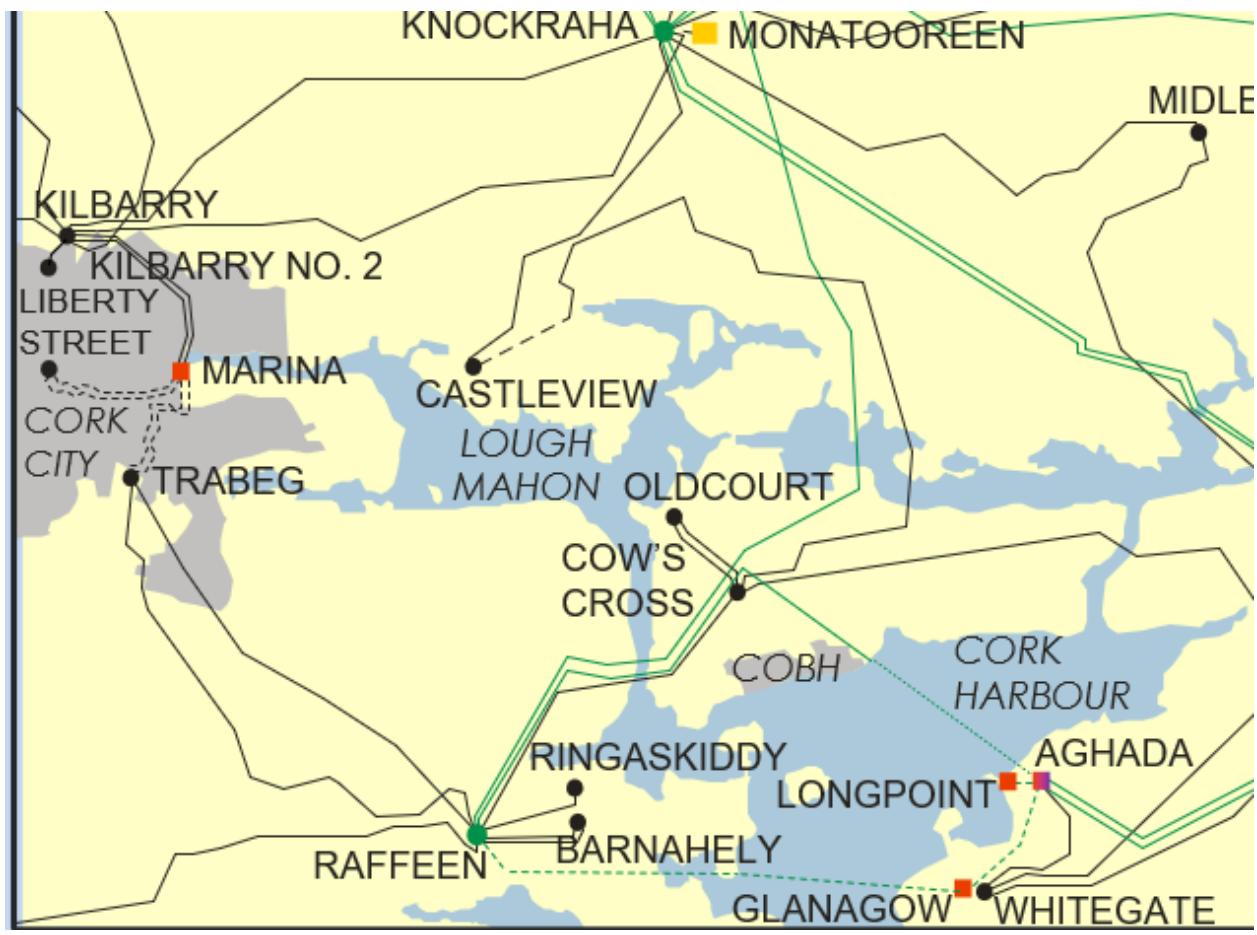


Figure 2-7 - Location of node Cow cross

Generator	SO	Capacity	Type	Status
Ballynacrusha	DSO	4.95	solar not priority	due to connected
Barryscourt Solar Farm (Solar)	DSO	8.0	solar not priority	due to connected

Table 2-10 - Generation Included in Study for Node Cow cross

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	5	9	13					
Installed Capacity (MW)	2030	5	9	13	13	13			
Installed Capacity (MW)	FG						13	13	13
Available Energy (GWh)	2028	6	10	15					
Available Energy (GWh)	2030	6	10	15	15	15			
Available Energy (GWh)	FG						15	15	15
Generation (GWh)	2028	4	8	11					
Generation (GWh)	2030	5	9	11	9	10			
Generation (GWh)	FG						11	10	12
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

Table 2-11 - Surplus, Curtailment and Constraint for Solar non-priority for Node Cow cross

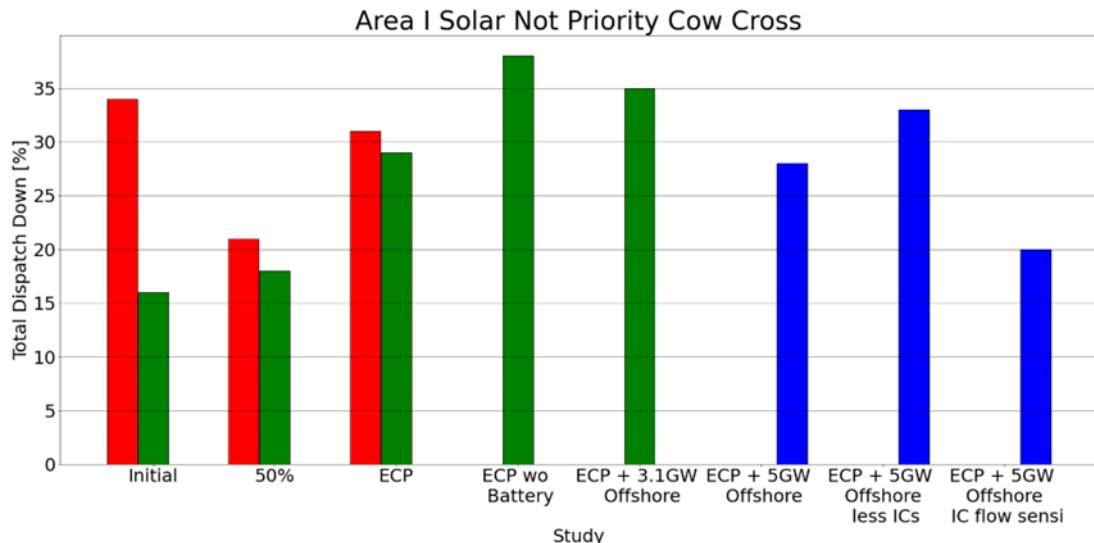


Figure 2-8 - Total Dispatch Down for Solar not priority for Node Cow cross

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	13	
Installed Capacity (MW)	2030	13	13
Available Energy (GWh)	2028	15	
Available Energy (GWh)	2030	15	15
Generation (GWh)	2028	11	
Generation (GWh)	2030	11	10
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-12 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Cow cross

2.5 Kilbarry

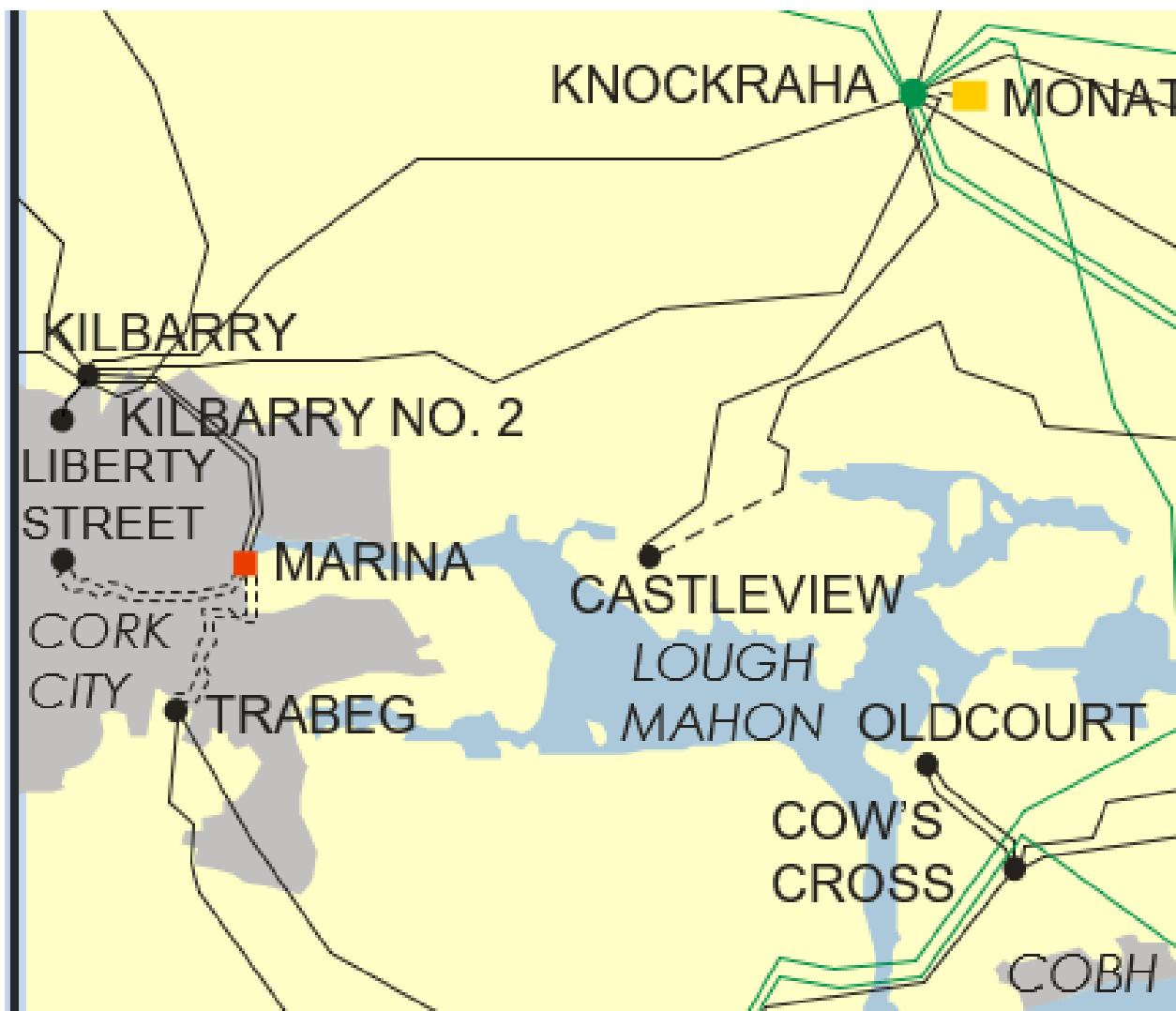


Figure 2-9 - Location of node Kilbarry

Generator	SO	Capacity	Type	Status
Pluckanes (1)	DSO	0.85	wind uncontrolled	connected
Coolduff	DSO	4.95	solar not priority	connected
Drumgarriff South	DSO	4.95	solar not priority	due to connected
Ballynahina Solar Farm	DSO	30.0	solar not priority	due to connected
Rahanisky	DSO	39.9	solar not priority	due to connected

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

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	10	45	80					
Installed Capacity (MW)	2030	10	45	80	80	80			
Installed Capacity (MW)	FG						80	80	80
Available Energy (GWh)	2028	12	53	94					
Available Energy (GWh)	2030	12	53	93	93	93			
Available Energy (GWh)	FG						93	93	93
Generation (GWh)	2028	8	42	65					
Generation (GWh)	2030	10	43	66	58	61			
Generation (GWh)	FG						67	63	74
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

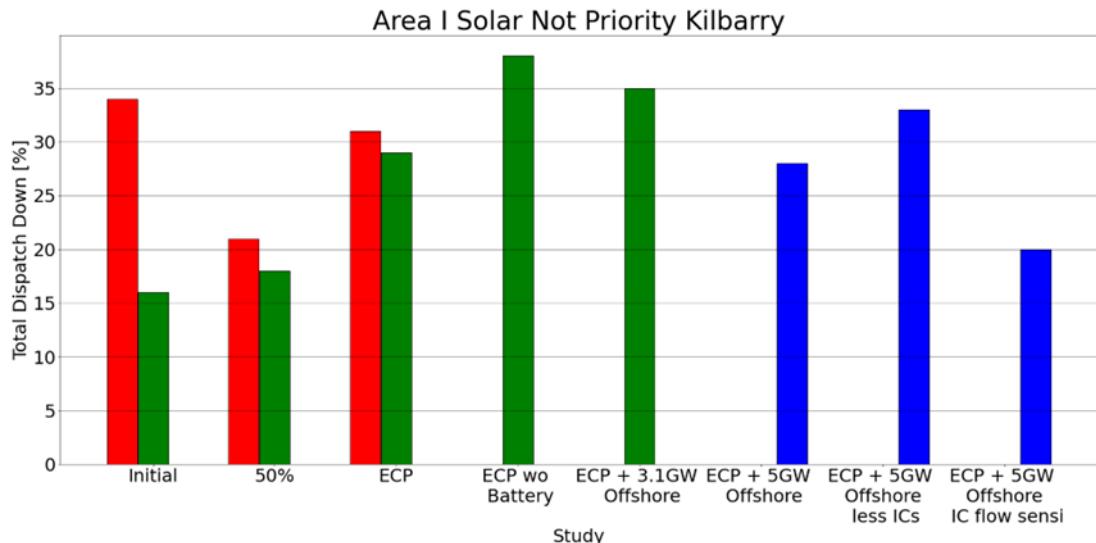


Figure 2-10 - Total Dispatch Down for Solar not priority for Node Kilbarry

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	80	
Installed Capacity (MW)	2030	80	80
Available Energy (GWh)	2028	94	
Available Energy (GWh)	2030	93	93
Generation (GWh)	2028	65	
Generation (GWh)	2030	66	61
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-15 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Kilbarry

2.6 Knockraha

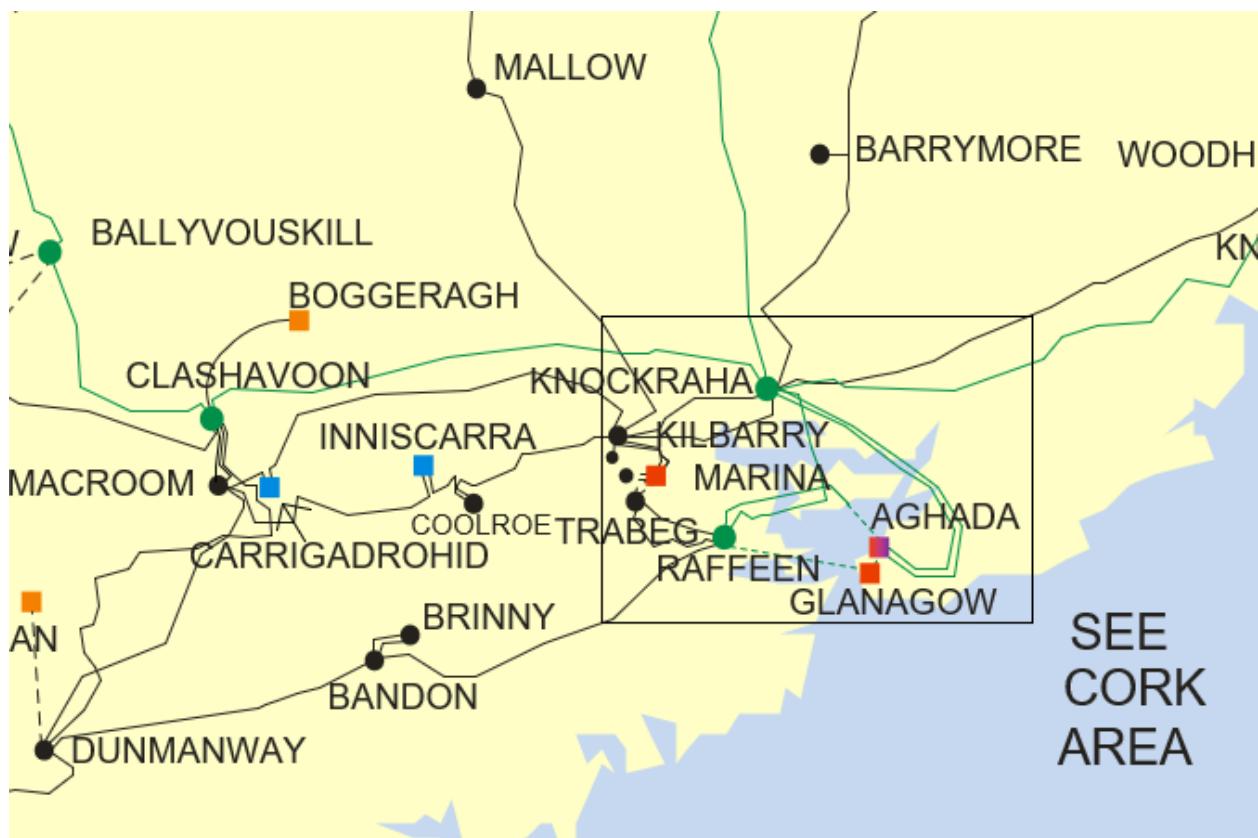


Figure 2-11 - Location of node Knockraha

Generator	SO	Capacity	Type	Status
Monatooreen Solar	TSO	25.7	solar not priority	due to connected
Ballyvatta Solar Extension	TSO	16.3	solar not priority	due to connected

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

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		21	42					
Installed Capacity (MW)	2030		21	42	42	42			
Installed Capacity (MW)	FG						42	42	42
Available Energy (GWh)	2028		25	49					
Available Energy (GWh)	2030		25	49	49	49			
Available Energy (GWh)	FG						49	49	49
Generation (GWh)	2028		19	34					
Generation (GWh)	2030		20	35	30	32			
Generation (GWh)	FG						36	33	39
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		4 %	2 %					
Constraint (%)	2030		1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

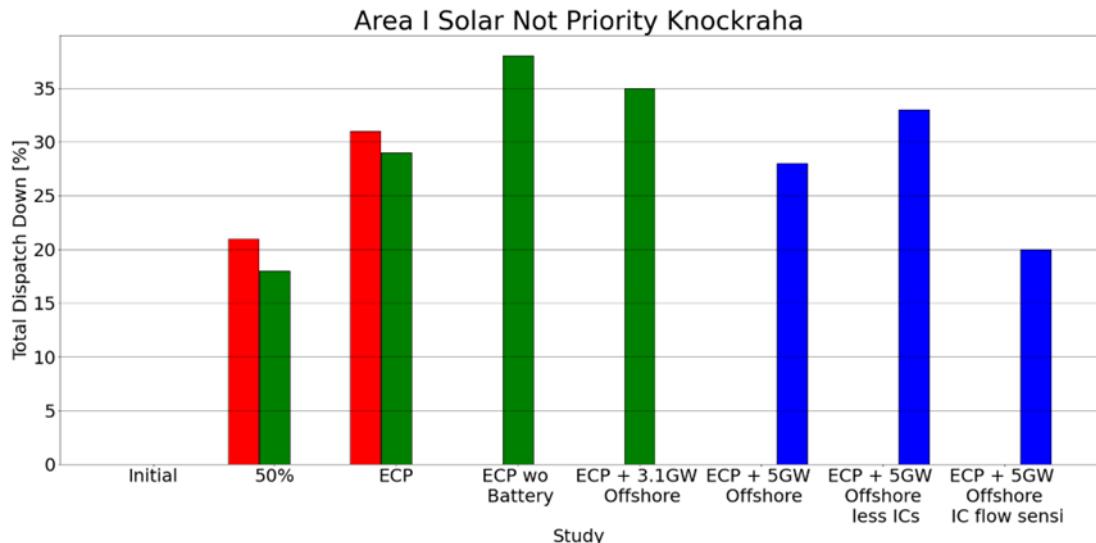


Figure 2-12 - Total Dispatch Down for Solar not priority for Node Knockraha

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	42	
Installed Capacity (MW)	2030	42	42
Available Energy (GWh)	2028	49	
Available Energy (GWh)	2030	49	49
Generation (GWh)	2028	34	
Generation (GWh)	2030	35	32
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

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

2.7 Knockraha 220kV

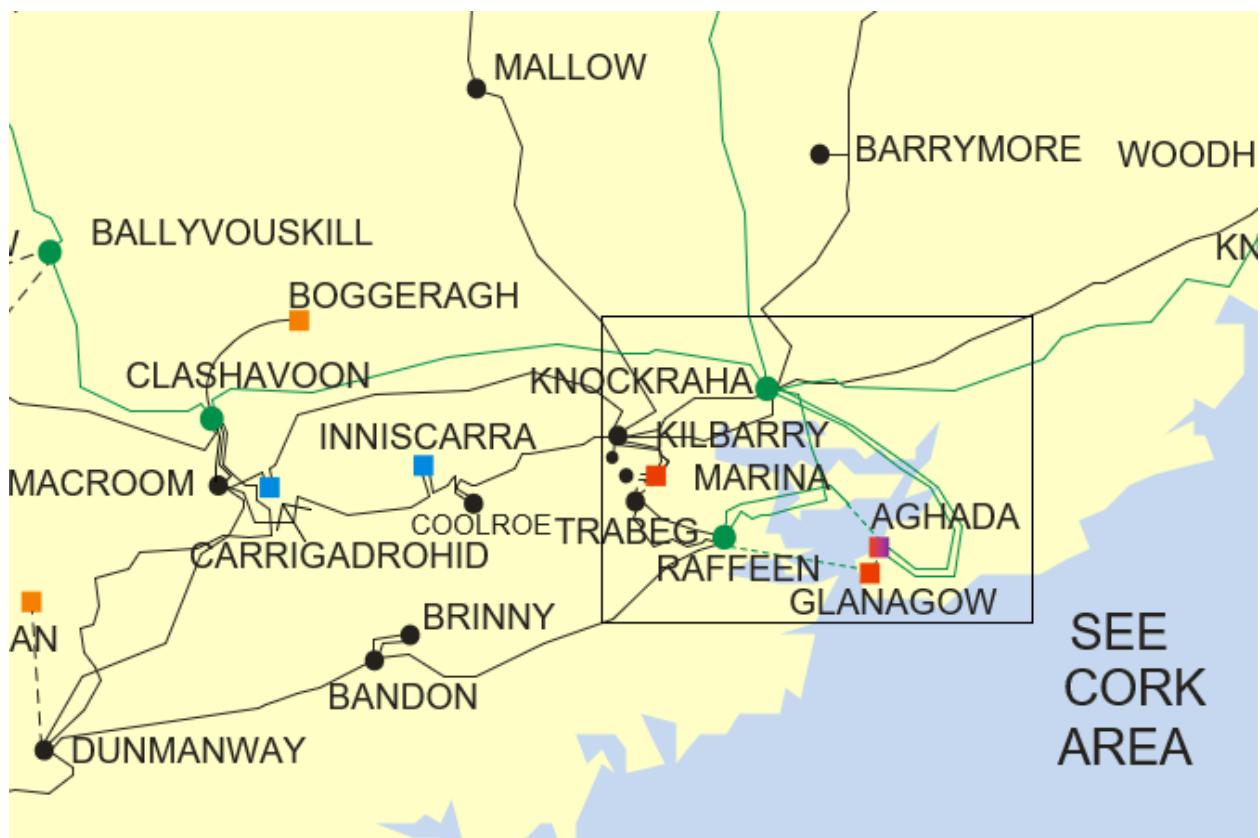


Figure 2-13 - Location of node Knockraha 220kV

Generator	SO	Capacity	Type	Status
Knockraha	TSO	378.0	wind not priority	due to connected

Table 2-19 - Generation Included in Study for Node Knockraha 220kV

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028								
Installed Capacity (MW)	2030								
Installed Capacity (MW)	FG						378	378	378
Available Energy (GWh)	2028								
Available Energy (GWh)	2030								
Available Energy (GWh)	FG						1607	1607	1607
Generation (GWh)	2028								
Generation (GWh)	2030								
Generation (GWh)	FG						879	859	1183
Surplus (%)	2028								
Surplus (%)	2030								
Surplus (%)	FG						29 %	34 %	18 %
Curtailment (%)	2028								
Curtailment (%)	2030								
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028								
Constraint (%)	2030								
Constraint (%)	FG						14 %	11 %	7 %
Total Dispatch Down (%)	2028								
Total Dispatch Down (%)	2030								
Total Dispatch Down (%)	FG						45 %	47 %	26 %

Table 2-20 - Surplus, Curtailment and Constraint for Wind non-priority for Node Knockraha 220kV

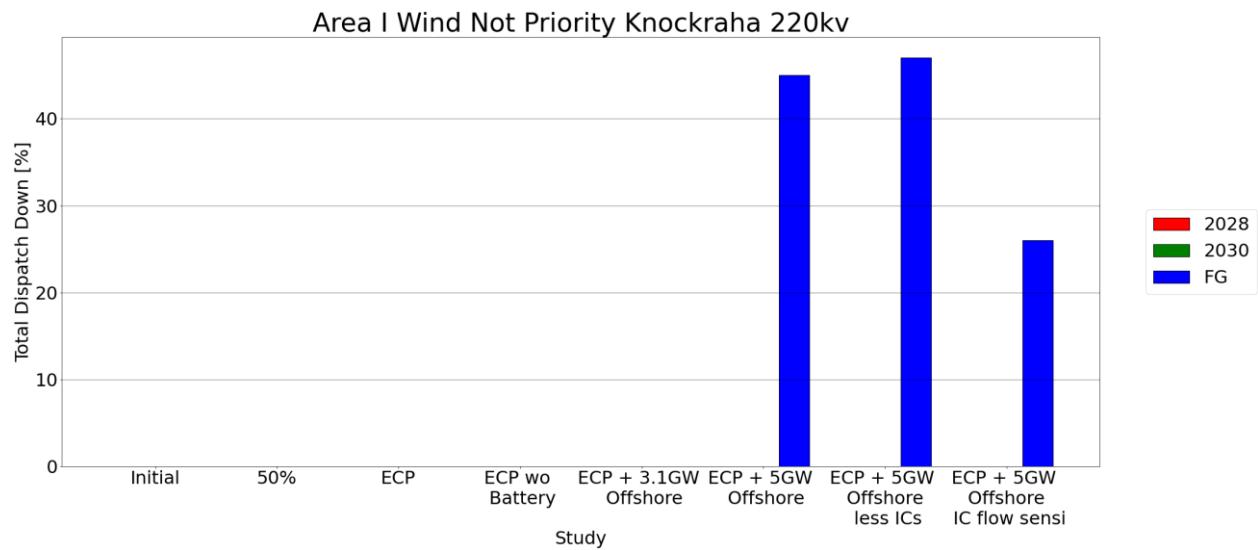


Figure 2-14- Total Dispatch Down for Wind not priority for Node Knockraha 220kV

2.8 Lysaghtstown



Figure 2-15 - Location of node Lysaghtstown

Generator	SO	Capacity	Type	Status
Lysaghtstown Solar	TSO	87.0	solar not priority	connected
Lysaghtstown Phase 2	TSO	45.0	solar not priority	due to connected

Table 2-21 - Generation Included in Study for Node Lysaghtstown

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	87	110	132					
Installed Capacity (MW)	2030	87	110	132	132	132			
Installed Capacity (MW)	FG						132	132	132
Available Energy (GWh)	2028	102	128	155					
Available Energy (GWh)	2030	102	128	155	155	155			
Available Energy (GWh)	FG						155	155	155
Generation (GWh)	2028	68	102	107					
Generation (GWh)	2030	86	105	110	95	101			
Generation (GWh)	FG						112	104	123
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

Table 2-22 - Surplus, Curtailment and Constraint for Solar non-priority for Node Lysaghtstown

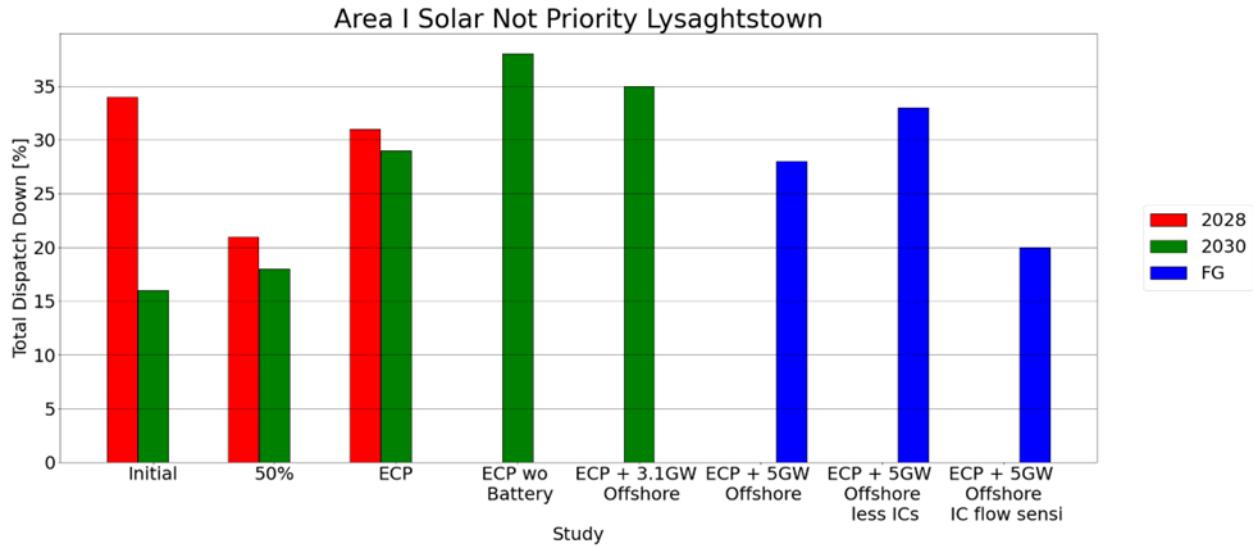


Figure 2-16 - Total Dispatch Down for Solar not priority for Node Lysaghtstown

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	132	
Installed Capacity (MW)	2030	132	132
Available Energy (GWh)	2028	155	
Available Energy (GWh)	2030	155	155
Generation (GWh)	2028	107	
Generation (GWh)	2030	110	101
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-23 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Lysaghtstown

2.9 Midleton



Figure 2-17 - Location of node Midleton

Generator	SO	Capacity	Type	Status
Crocane (1)	DSO	1.7	wind uncontrolled	connected
Lurrig Solar Farm	DSO	3.6	solar not priority	connected
Tead More Solar (Meelshane)	DSO	3.95	solar not priority	due to connected
Ballyduff PV	DSO	7.0	solar not priority	due to connected
Carrigogna Solar	DSO	10.0	solar not priority	due to connected
Ballyduff solar ph2	DSO	8.0	solar not priority	due to connected

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

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	4	18	33					
Installed Capacity (MW)	2030	4	18	33	33	33			
Installed Capacity (MW)	FG						33	33	33
Available Energy (GWh)	2028	4	21	38					
Available Energy (GWh)	2030	4	21	38	38	38			
Available Energy (GWh)	FG						38	38	38
Generation (GWh)	2028	3	17	26					
Generation (GWh)	2030	4	17	27	23	25			
Generation (GWh)	FG						28	26	30
Surplus (%)	2028	8 %	13 %	23 %					
Surplus (%)	2030	8 %	15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028	4 %	4 %	6 %					
Curtailment (%)	2030	2 %	3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028	22 %	4 %	2 %					
Constraint (%)	2030	5 %	1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028	34 %	21 %	31 %					
Total Dispatch Down (%)	2030	16 %	18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

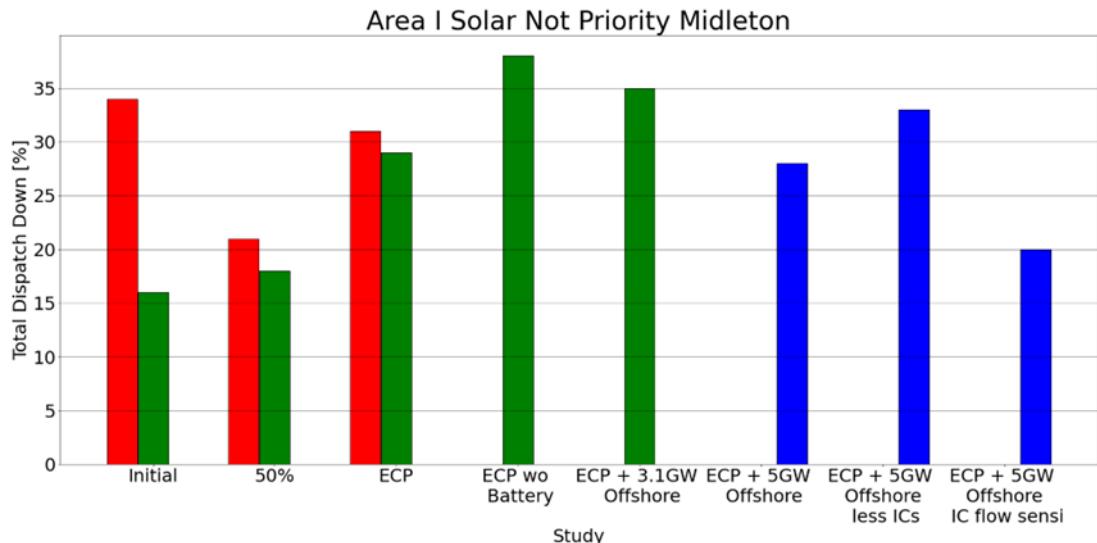


Figure 2-18 - Total Dispatch Down for Solar not priority for Node Midleton

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	33	
Installed Capacity (MW)	2030	33	33
Available Energy (GWh)	2028	38	
Available Energy (GWh)	2030	38	38
Generation (GWh)	2028	26	
Generation (GWh)	2030	27	25
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

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

2.10 Raffeen

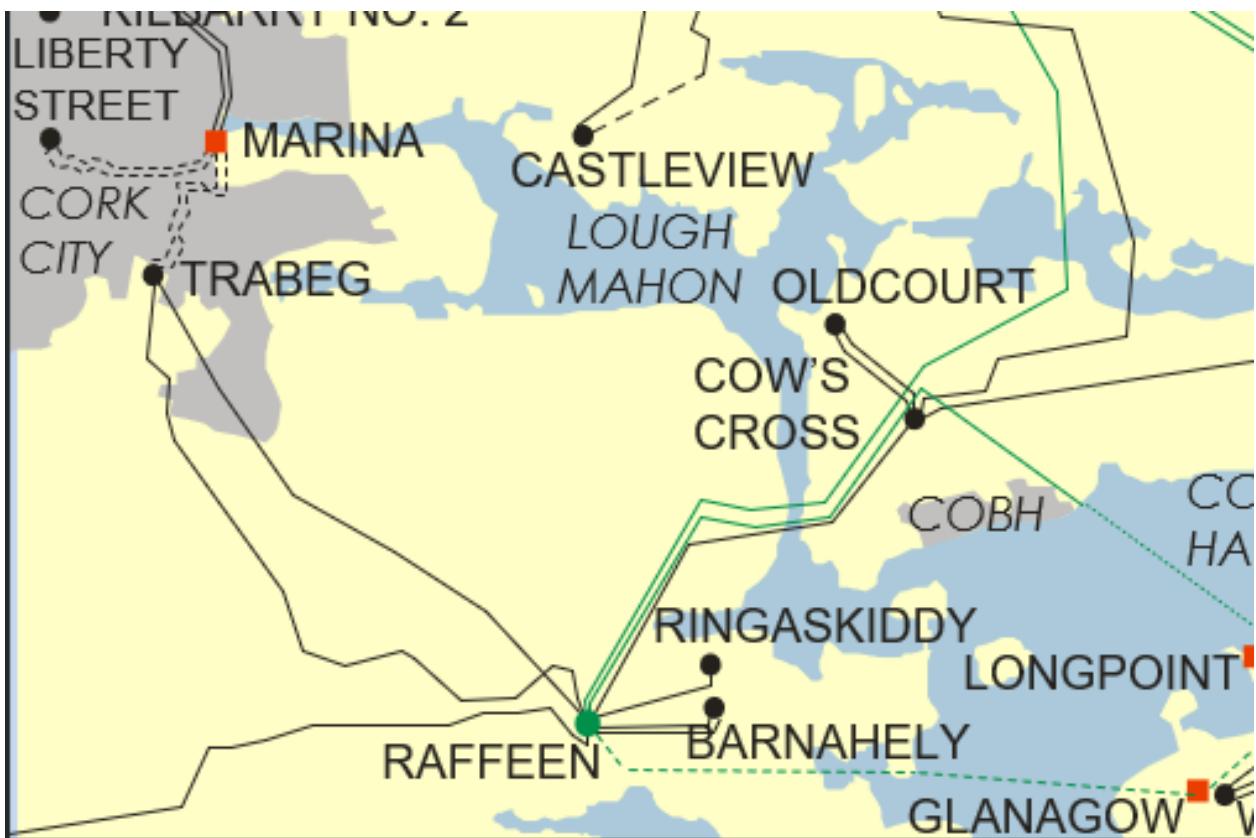


Figure 2-19 - Location of node Raffeen

Generator	SO	Capacity	Type	Status
Ballinrea Solar Park	TSO	55.0	solar not priority	due to connected

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

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		28	55					
Installed Capacity (MW)	2030		28	55	55	55			
Installed Capacity (MW)	FG						55	55	55
Available Energy (GWh)	2028		32	64					
Available Energy (GWh)	2030		32	64	64	64			
Available Energy (GWh)	FG						64	64	64
Generation (GWh)	2028		26	45					
Generation (GWh)	2030		26	46	40	42			
Generation (GWh)	FG						47	43	51
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		4 %	2 %					
Constraint (%)	2030		1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

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

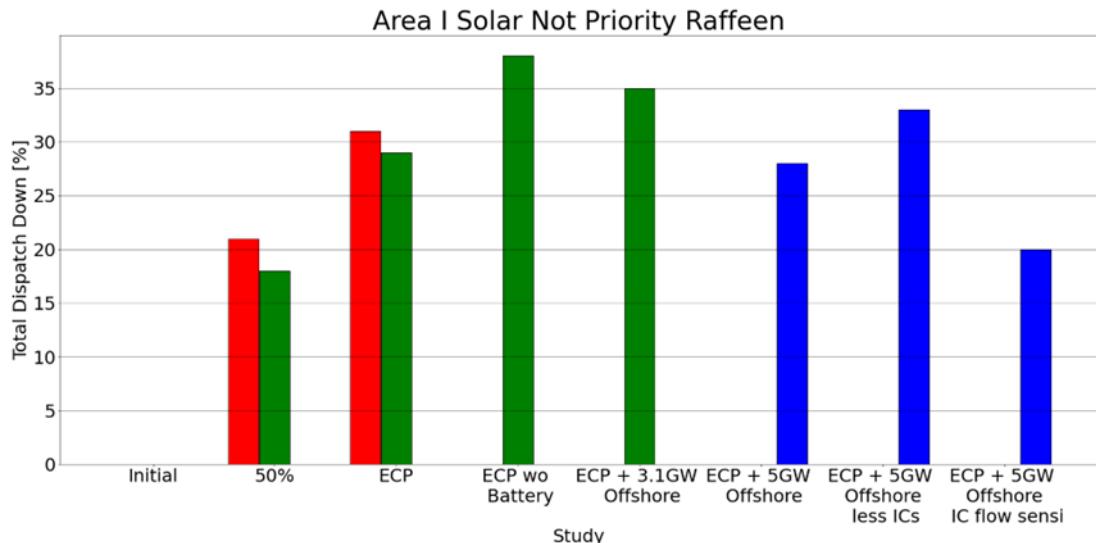


Figure 2-20 - Total Dispatch Down for Solar not priority for Node Raffeen

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	55	
Installed Capacity (MW)	2030	55	55
Available Energy (GWh)	2028	64	
Available Energy (GWh)	2030	64	64
Generation (GWh)	2028	45	
Generation (GWh)	2030	46	42
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-29 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Raffeen

2.11 Rathcoursey

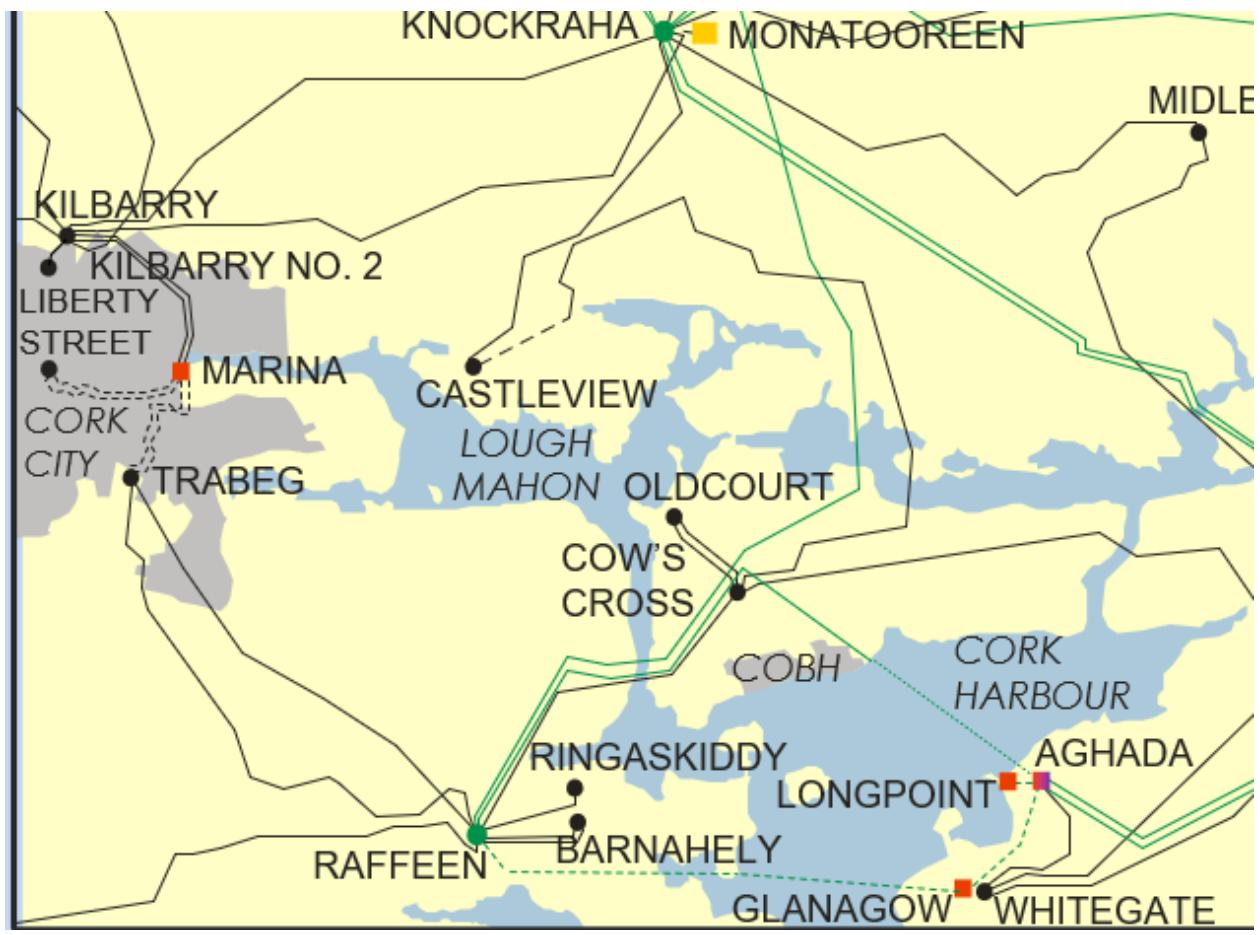


Figure 2-21 - Location of node Rathcoursey (new node between Cow cross and Whitegate)

Generator	SO	Capacity	Type	Status
Rathcoursey Solar	DSO	110.0	solar not priority	due to connected

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

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

Area I	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		55	110					
Installed Capacity (MW)	2030		55	110	110	110			
Installed Capacity (MW)	FG						110	110	110
Available Energy (GWh)	2028		64	129					
Available Energy (GWh)	2030		64	129	129	129			
Available Energy (GWh)	FG						129	129	129
Generation (GWh)	2028		51	89					
Generation (GWh)	2030		53	92	79	84			
Generation (GWh)	FG						93	86	102
Surplus (%)	2028		13 %	23 %					
Surplus (%)	2030		15 %	25 %	33 %	31 %			
Surplus (%)	FG						23 %	29 %	18 %
Curtailment (%)	2028		4 %	6 %					
Curtailment (%)	2030		3 %	4 %	5 %	4 %			
Curtailment (%)	FG						2 %	3 %	2 %
Constraint (%)	2028		4 %	2 %					
Constraint (%)	2030		1 %	0 %	0 %	0 %			
Constraint (%)	FG						3 %	1 %	1 %
Total Dispatch Down (%)	2028		21 %	31 %					
Total Dispatch Down (%)	2030		18 %	29 %	38 %	35 %			
Total Dispatch Down (%)	FG						28 %	33 %	20 %

Table 2-31 - Surplus, Curtailment and Constraint for Solar non-priority for Node Rathcoursey

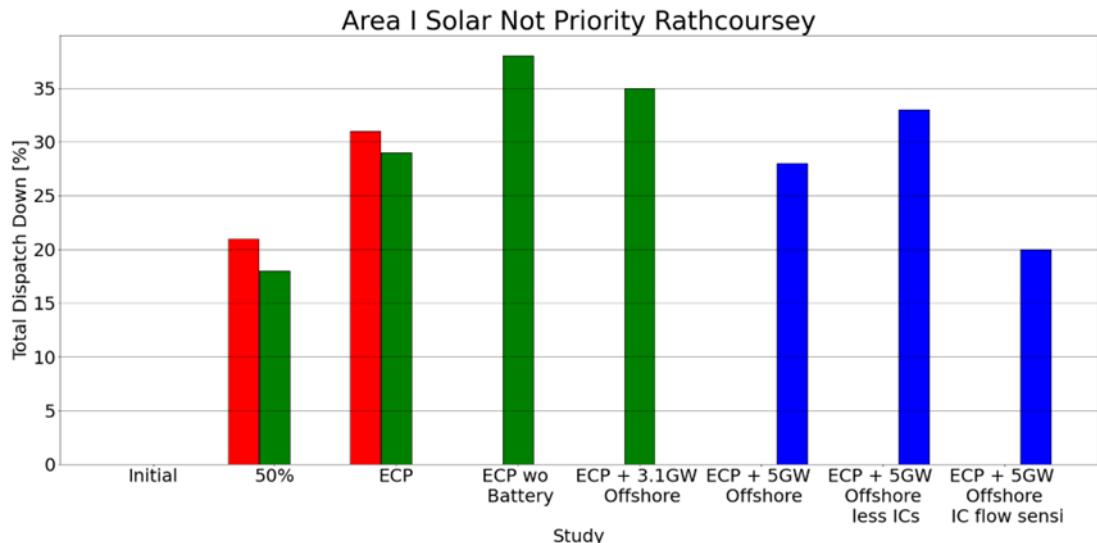


Figure 2-22 - Total Dispatch Down for Solar not priority for Node Rathcoursey

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

Area I	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	110	
Installed Capacity (MW)	2030	110	110
Available Energy (GWh)	2028	129	
Available Energy (GWh)	2030	129	129
Generation (GWh)	2028	89	
Generation (GWh)	2030	92	84
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-32 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Rathcoursey

2.12 Trabeg

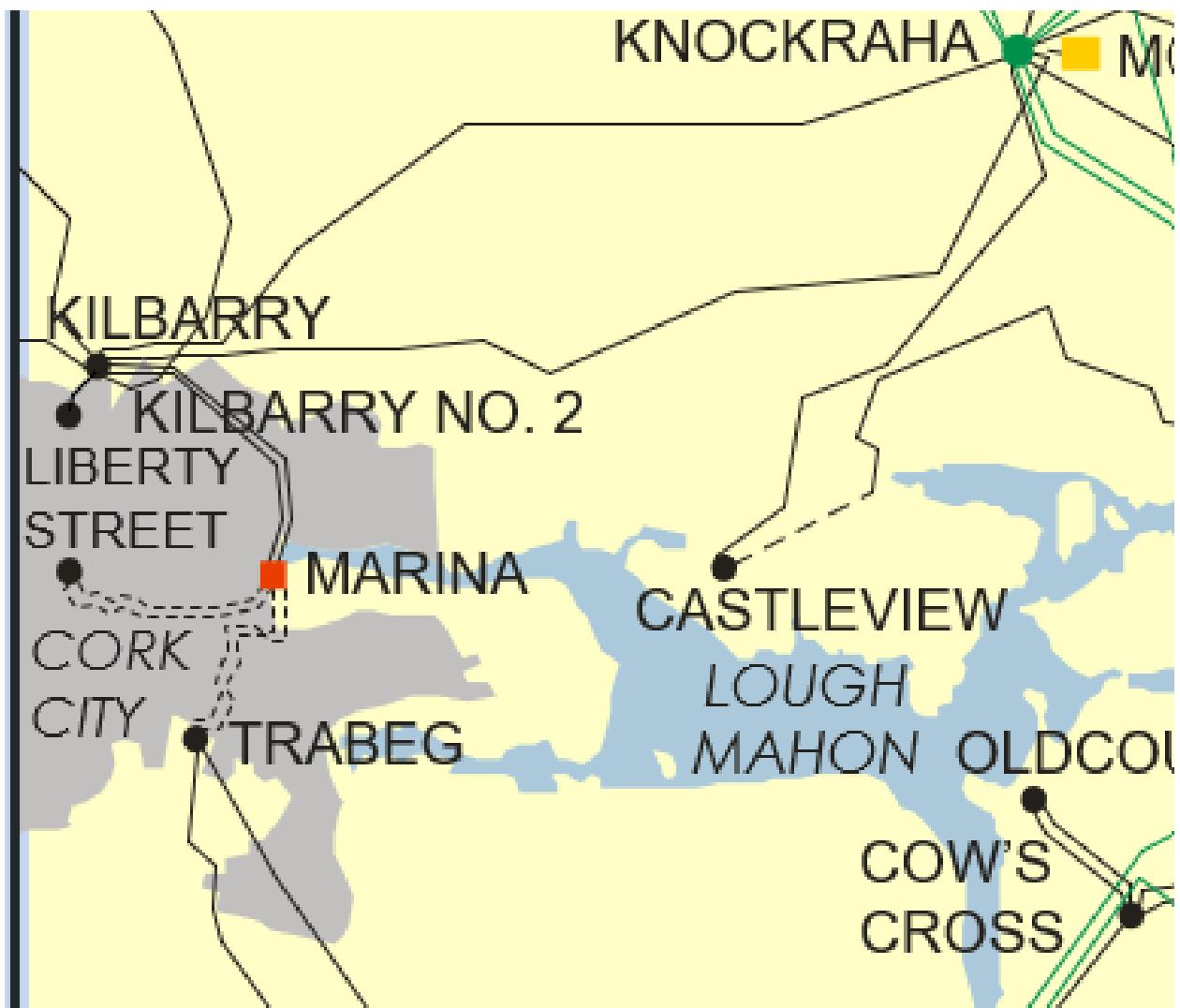


Figure 2-23 - Location of node Trabeg

Generator	SO	Capacity	Type	Status
Shanagraigue	DSO	4.95	solar not priority	connected

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

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

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

Table 2-34 - Surplus, Curtailment and Constraint for Solar non-priority for Node Trabeg

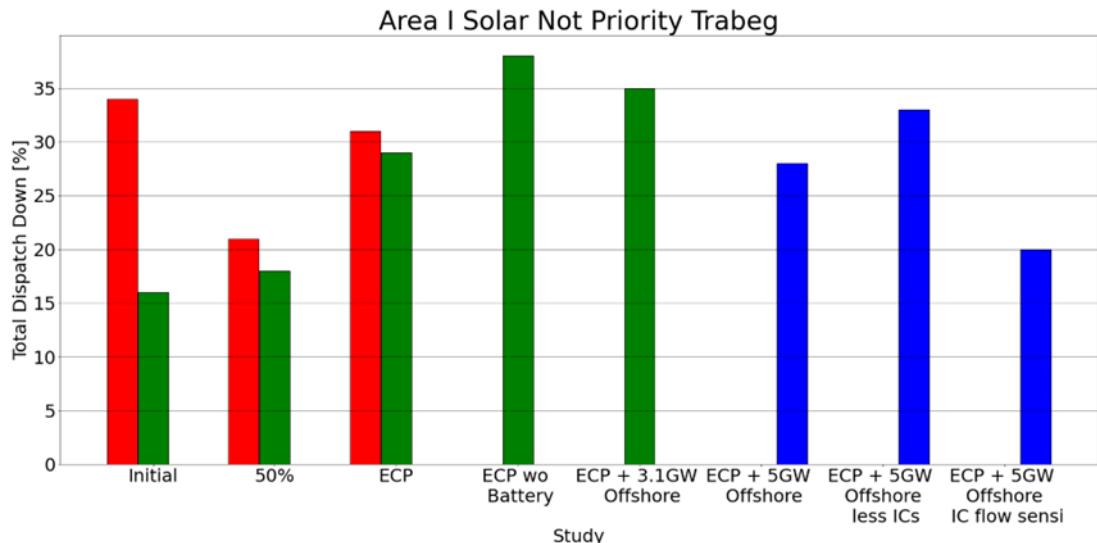


Figure 2-24 - Total Dispatch Down for Solar not priority for Node Trabeg

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

Area I	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	4	
Generation (GWh)	2030	4	4
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	2 %	
Constraint (%)	2030	0 %	0 %
Total Dispatch Down (%)	2028	31 %	
Total Dispatch Down (%)	2030	29 %	35 %

Table 2-35 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Trabeg