

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

Results for Area H1 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 H1	ECP Team	ECP Lead	ECP Senior Lead	Economic Analysis Manager

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# 1 Overview for Area H1



Figure 1-1 Network Map for Area H1

Area H1, in the south of the country, includes a mix of wind and solar generation. The counties that are covered in this area include Tipperary, Waterford (partial) and Kilkenny (partial). The transmission network in Area H1 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 H1. For information on the study assumptions, methodology and Ireland summary report please refer to the ECP webpage<sup>1</sup>. This document contains two main sections:

Section 1: An overview of the estimated surplus, curtailment, and constraint values for Area H1 for a range of scenarios. There are a total of six core ECP-2.5 studies and eight sensitivity studies presented in this report. The results highly depend on the study assumptions, which are described in the Assumptions Document.

Section 2: Area H1 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 H1.

## 1.2 Key Summary

In most study years, there is a tendency for renewable power to flow toward the load centres on the east coast and the interconnectors. These flow patterns are relevant when seeking to understand constraint apportionment in the simulation.

There is a tendency within Area H1 for some 110 kV nodes to see higher constraints than others. The model is demonstrating that it is more efficient to constrain generation at some locations in Area H1 than at others. Additionally, when any one section in the meshed 110 kV circuit in the area is lost, it creates overloading in other sections in the area.

For this report, constraints in the model are optimised on a system basis. This means that the constraints in Area H1 are caused both by local and by wider system considerations. So, in theory, an increase in the installed generation in another area could increase constraints in Area H1. In addition to the power flows out of Area H1, there are also power flows across Area H1. Renewable power from Cork and Kerry will flow east across the transmission network - some of this power will flow through H1.

Also, the power flowing out of Area H1 will meet and join with power flowing from other areas, as they flow towards the north region. The transmission bottleneck between Area H1 and the east is shared with power coming from other areas.

The constraints are reduced in the Future Grid scenario as a result of network reinforcements which are assumed in place by 2030. These reinforcements alleviate some of the bottlenecks and reduce the overall network constraints in the area.

Area H1 is a meshed 110 kV network connecting to four different 220 kV stations and is negatively affected by the loss of any section of 110 kV circuit. The area is also sensitive to the loss of neighbouring 110 kV and 220kV circuits in adjacent areas. In Area H1, during the high renewable energy scenarios, the Cahir to Barrymore region becomes a major bottleneck for Area H1. Additionally, Cauteen to Killonan region becomes a prominent bottleneck in 2030 and Future Grid scenarios.

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<sup>1</sup> [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))

## 1.3 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 H1 in the “ECP” scenario is given in Table 1-1. Installed and controllable energy in Area H1 is given in Table 1-2 for solar and Table 1-3 for wind.

Node	SO	Status	Solar	Wind
Ahane	DSO	due to connected	4	
Ballydine	DSO	due to connected	18	
Barrymore	DSO	due to connected	20	
Barrymore	TSO	due to connected		106
Barrymore	DSO	connected		32
Borrisbeg	TSO	due to connected		54
Cahir	DSO	connected	29	
Cahir	DSO	due to connected	7	
Cauteen	DSO	due to connected	48	
Cauteen	TSO	due to connected	203	
Cauteen	DSO	connected		178
Curraghduff	TSO	due to connected	125	
Doon	DSO	due to connected	17	
Doon	DSO	due to connected		34
Ikerrin	DSO	connected		36
Kill Hill	TSO	connected		36
Killonan	DSO	due to connected		84
Lisheen	TSO	due to connected	76	
Lisheen	TSO	connected		29
Lisheen	DSO	connected		40
Lisheen	TSO	connected		59
Nenagh	DSO	due to connected	46	
Nenagh	DSO	connected		14
Springmount	TSO	due to connected	65	
Thurles	DSO	due to connected		2
Thurles	DSO	connected		35
Thurles	DSO	connected		7

Timoney	TSO	due to connected	172	
Tipperary	DSO	due to connected	29	
Tipperary	DSO	connected		5
<b>Total</b>			<b>859</b>	<b>751</b>

Table 1-1 Wind and Solar Generation Summary (MW) in Area H1 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 H1 (MW)	859	859	859	859	859
Installed Controllable Area H1 (MW)	859	859	859	859	859
Available Controllable Area H1 (GWh)	1006	1006	1006	1006	1006

Table 1-2- Installed MW and Available GWh for Area H1 - 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 H1 (MW)	750	750	750	750	750
Installed Controllable Area H1 (MW)	724	724	724	724	724
Available Controllable Area H1 (GWh)	2277	2277	2277	2277	2277

Table 1-3 - Installed MW and Available GWh for Area H1 - 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 H1 identified one constraint subgroup for solar and wind generation. The subgroup nodes are given in Table 1-4. The individual node level dispatch down is given in Section 2.

Subgroup	Nodes
H1	Ahane
	Ballydine
	Barrymore
	Borrisbeg
	Cahir
	Cauteen
	Curraghduff
	Doon
	Ikerrin
	Kill Hill
	Killonan
	Lisheen
	Nenagh
	Springmount
	Thurles
	Timoney
	Tipperary

Table 1-4 Area H1 generator nodes and their subgroups



Figure 1-2 Subgroup H1 (subgroups outlined by blue dashed line)

## 1.5 Area H1 - Summary Results

The Total Dispatch Down results for Area H1 are provided below in Table 1-5 to Table 1-10 and Figure 1-3 to Figure 1-5. These include the breakdown between surplus, curtailment, and constraint. The Table 1-6, Table 1-8, and Table 1-10 gives the results of constraint sensitivity scenario. The Total Dispatch Down percentages are based on the total available energy. The Total Dispatch Down is the sum of surplus, curtailment, and constraint. The node level breakdown of surplus, curtailment and constraint are given in Section 2. The results show that 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.

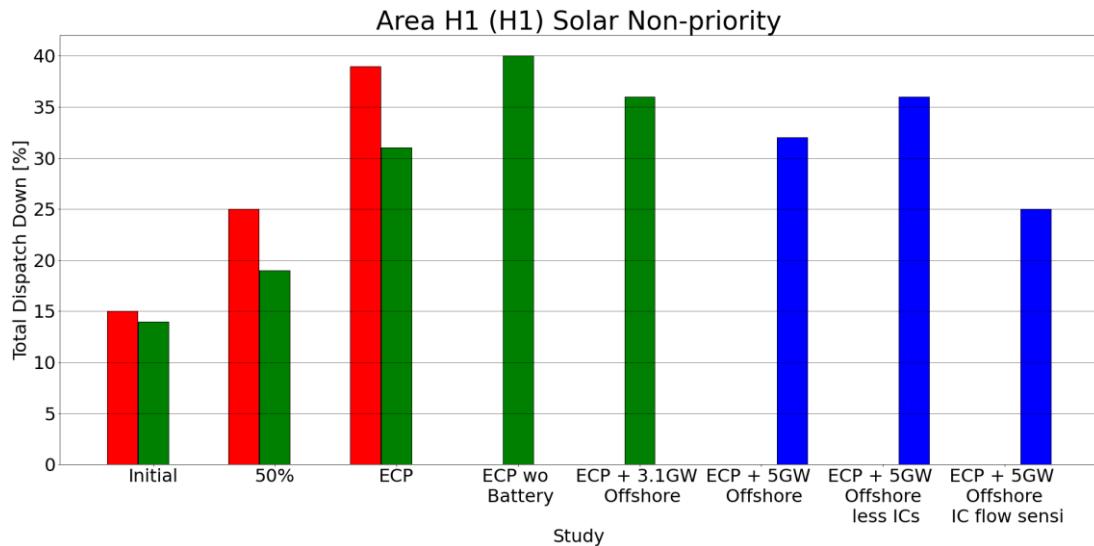
For each generation type in Area H1 (solar non-priority, wind non-priority and wind priority), the total installed capacity in MW and total available generation in GWh are given in Table 1-5, to Table 1-10. The total generation in GWh after dispatch down and the corresponding percentage Total Dispatch Down are also included in the tables for each scenario. Details on the generation and network scenarios are given in the Assumptions document and Methodology report.

### 1.5.1 Non - priority Solar Results for H1

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

Area H1 (H1)	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	198	528	859					
Installed Capacity (MW)	2030	198	528	859	859	859			
Installed Capacity (MW)	FG						859	859	859
Available Energy (GWh)	2028	232	620	1007					
Available Energy (GWh)	2030	231	619	1006	1006	1006			
Available Energy (GWh)	FG						1006	1006	1006
Generation (GWh)	2028	196	466	617					
Generation (GWh)	2030	198	501	698	599	643			
Generation (GWh)	FG						683	647	750
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	3 %	8 %	10 %					
Constraint (%)	2030	4 %	2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028	15 %	25 %	39 %					
Total Dispatch Down (%)	2030	14 %	19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 1-5 - Surplus, Curtailment and Constraint for Solar Non-priority in Area H1 (H1)



*Figure 1-3 - Results Solar Non-priority Area H1 (H1)*

Area H1 (H1)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	859	
Installed Capacity (MW)	2030	859	859
Available Energy (GWh)	2028	1007	
Available Energy (GWh)	2030	1006	1006
Generation (GWh)	2028	617	
Generation (GWh)	2030	698	643
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

*Table 1-6 - Surplus, Curtailment and Constraint for Solar Non-priority with Sensitivity in Area H1 (H1)*

## 1.5.2 Non - priority Wind Results for H1

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

Area H1 (H1)	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	113	211	308					
Installed Capacity (MW)	2030	113	211	308	308	308			
Installed Capacity (MW)	FG						308	308	308
Available Energy (GWh)	2028	357	666	976					
Available Energy (GWh)	2030	355	662	969	969	969			
Available Energy (GWh)	FG						969	969	969
Generation (GWh)	2028	161	285	387					
Generation (GWh)	2030	235	445	591	501	468			
Generation (GWh)	FG						538	506	658
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	25 %	31 %	37 %	45 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailment (%)	2028	7 %	5 %	5 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	30 %	29 %	26 %					
Constraint (%)	2030	15 %	5 %	5 %	8 %	4 %			
Constraint (%)	FG						6 %	4 %	7 %
Total Dispatch Down (%)	2028	55 %	57 %	60 %					
Total Dispatch Down (%)	2030	34 %	33 %	39 %	48 %	52 %			
Total Dispatch Down (%)	FG						44 %	48 %	32 %

Table 1-7 - Surplus, Curtailment and Constraint for Wind Non-priority in Area H1 (H1)

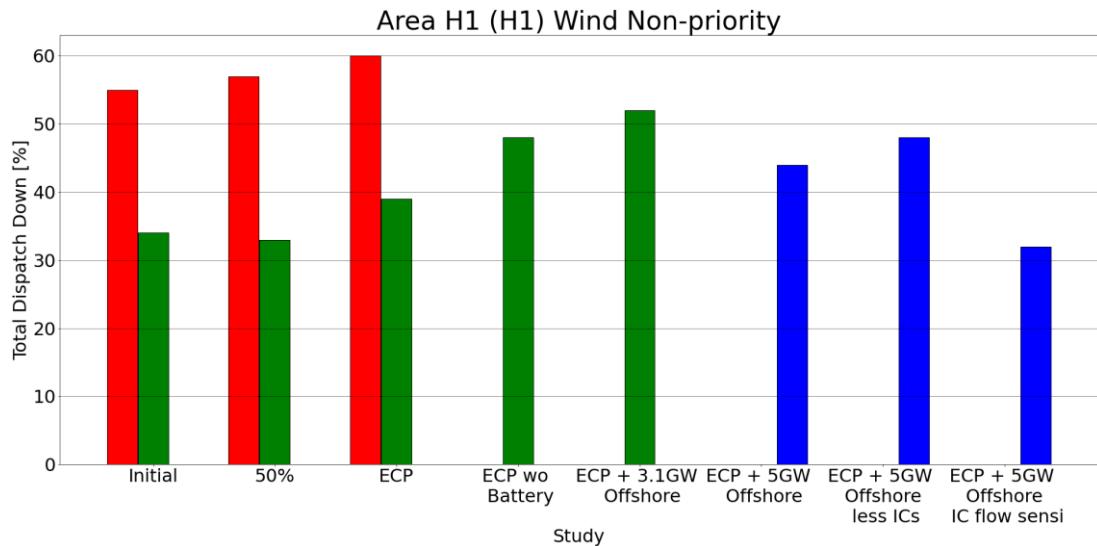


Figure 1-4 - Results Wind Non-priority Area H1 (H1)

Area H1 (H1)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	308	
Installed Capacity (MW)	2030	308	308
Available Energy (GWh)	2028	976	
Available Energy (GWh)	2030	969	969
Generation (GWh)	2028	534	
Generation (GWh)	2030	616	490
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	45 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	45 %	
Total Dispatch Down (%)	2030	36 %	49 %

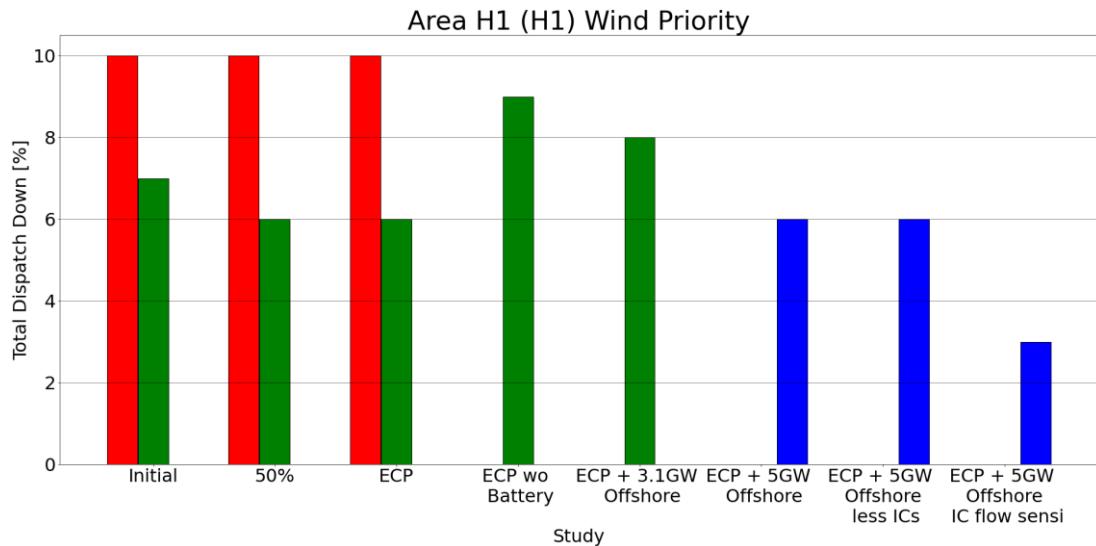
Table 1-8 -Surplus, Curtailment and Constraint for Wind Non-priority with Sensitivity in Area H1 (H1)

### 1.5.3 Priority Wind Results for H1

The wind priority data is given in the following table.

Area H1 (H1)	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	416	416	416					
Installed Capacity (MW)	2030	416	416	416	416	416			
Installed Capacity (MW)	FG						416	416	416
Available Energy (GWh)	2028	1316	1316	1316					
Available Energy (GWh)	2030	1307	1307	1307	1307	1307			
Available Energy (GWh)	FG						1307	1307	1307
Generation (GWh)	2028	1178	1187	1178					
Generation (GWh)	2030	1214	1226	1223	1189	1207			
Generation (GWh)	FG						1226	1230	1266
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	10 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailment (%)	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 H1 (H1)



*Figure 1-5 - Results Wind Priority Area H1 (H1)*

Area H1 (H1)	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	416	
Installed Capacity (MW)	2030	416	416
Available Energy (GWh)	2028	1316	
Available Energy (GWh)	2030	1307	1307
Generation (GWh)	2028	1032	
Generation (GWh)	2030	1198	1185
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	8 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	22 %	
Total Dispatch Down (%)	2030	8 %	9 %

*Table 1-10 - Surplus, Curtailment and Constraint for Wind Priority with Sensitivity in Area H1 (H1)*

## 2 Area H1 Node Results

This section presents results for 17 nodes in Area H1.

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 Ahane, 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 Ahane

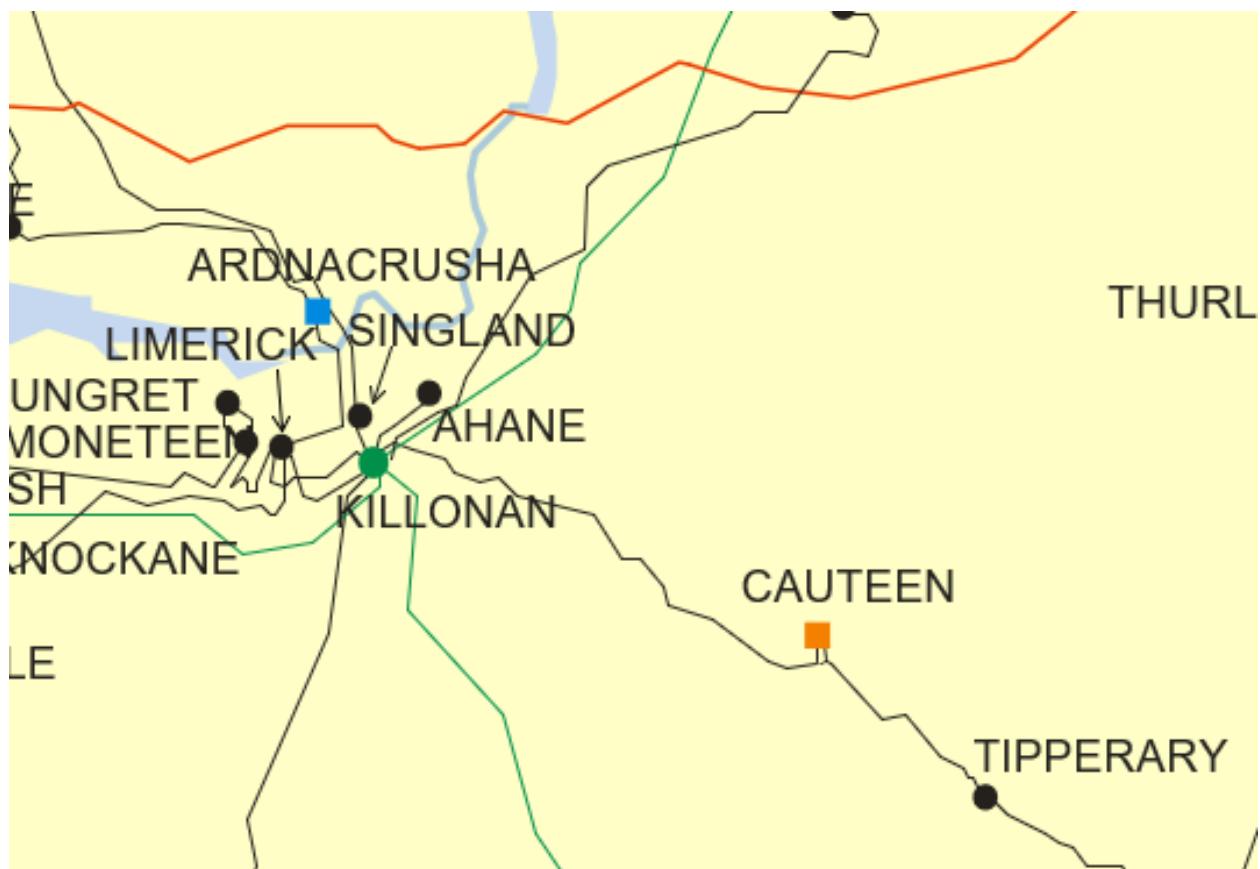


Figure 2-1 - Location of node Ahane

Generator	SO	Capacity	Type	Status
Laghtane Solar Farm	DSO	4.0	solar not priority	due to connected

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

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

Area H1	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		2	5					
Available Energy (GWh)	2030		2	5	5	5			
Available Energy (GWh)	FG						5	5	5
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

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

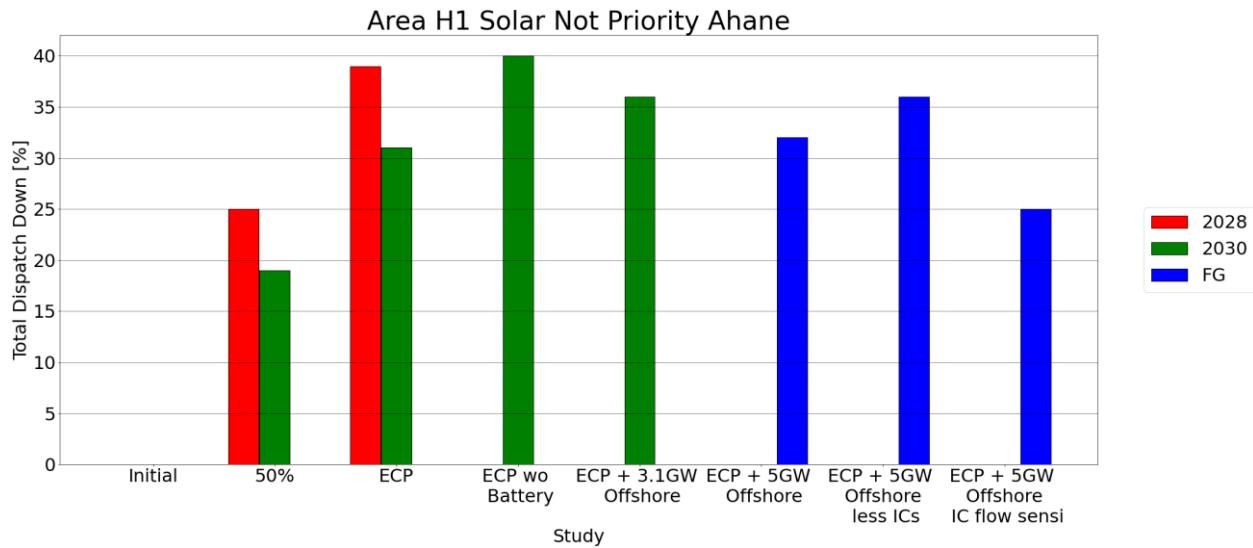


Figure 2-2 - Total Dispatch Down for Solar not priority for Node Ahane

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

Area H1	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	3	3
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

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

## 2.2 Ballydine

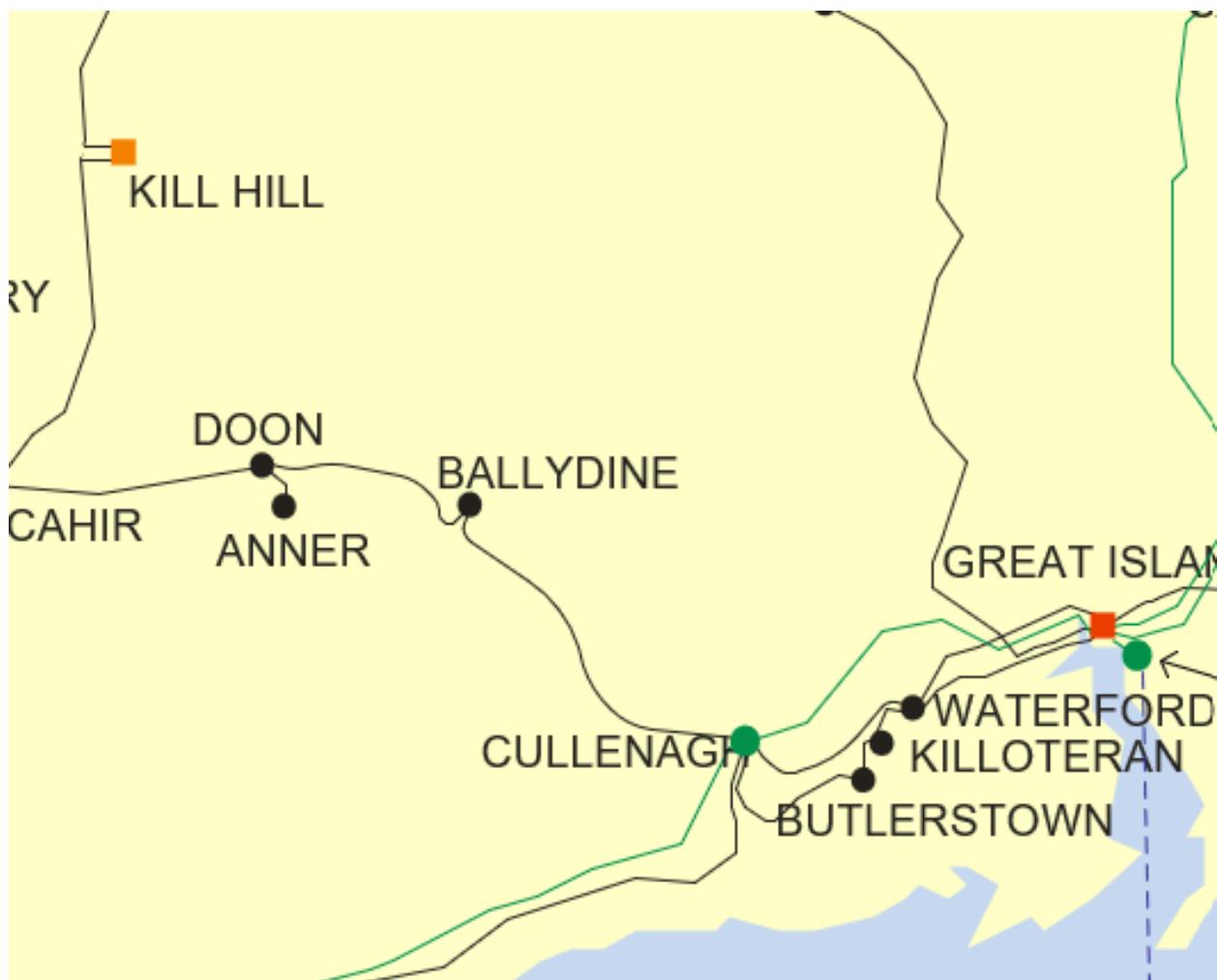


Figure 2-3 - Location of node Ballydine

Generator	SO	Capacity	Type	Status
<b>Carrick Solar</b>	DSO	5.8	solar not priority	due to connected
<b>Grian PV Ballyboe</b>	DSO	12.0	solar not priority	due to connected

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

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

Area H1	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		9	18					
Installed Capacity (MW)	2030		9	18	18	18			
Installed Capacity (MW)	FG						18	18	18
Available Energy (GWh)	2028		10	21					
Available Energy (GWh)	2030		10	21	21	21			
Available Energy (GWh)	FG						21	21	21
Generation (GWh)	2028		8	13					
Generation (GWh)	2030		8	14	12	13			
Generation (GWh)	FG						14	13	16
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

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

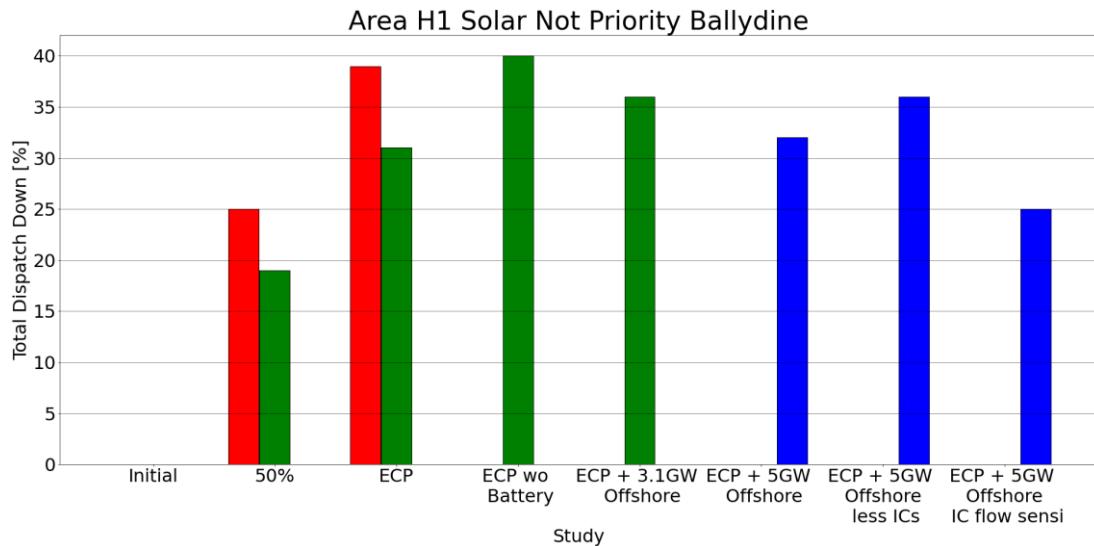


Figure 2-4 - Total Dispatch Down for Solar not priority for Node Ballydine

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	18	
Installed Capacity (MW)	2030	18	18
Available Energy (GWh)	2028	21	
Available Energy (GWh)	2030	21	21
Generation (GWh)	2028	13	
Generation (GWh)	2030	14	13
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

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

## 2.3 Barrymore



Figure 2-5 - Location of node Barrymore

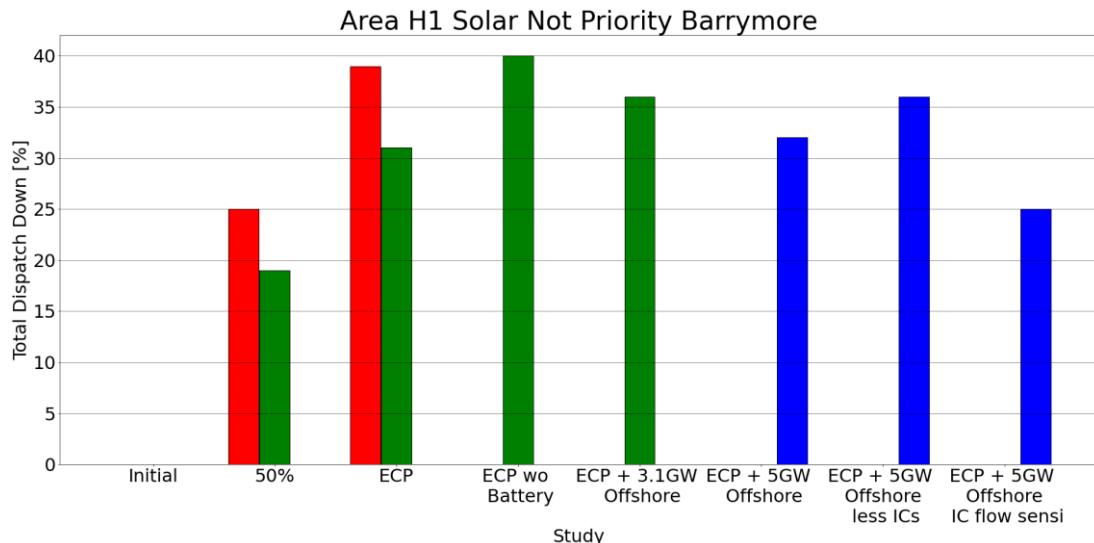
Generator	SO	Capacity	Type	Status
<b>Barranafaddock (1)</b>	DSO	32.4	wind priority	connected
<b>Farran South</b>	DSO	15.0	solar not priority	due to connected
<b>Farran South Solar Phase 2</b>	DSO	5.49	solar not priority	due to connected
<b>Coom Green Energy Park</b>	TSO	105.6	wind not priority	due to connected

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

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

Area H1	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	20					
Installed Capacity (MW)	2030		10	20	20	20			
Installed Capacity (MW)	FG						20	20	20
Available Energy (GWh)	2028		12	24					
Available Energy (GWh)	2030		12	24	24	24			
Available Energy (GWh)	FG						24	24	24
Generation (GWh)	2028		9	15					
Generation (GWh)	2030		10	17	14	15			
Generation (GWh)	FG						16	15	18
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

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



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

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	20	
Installed Capacity (MW)	2030	20	20
Available Energy (GWh)	2028	24	
Available Energy (GWh)	2030	24	24
Generation (GWh)	2028	15	
Generation (GWh)	2030	17	15
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

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

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

Area H1	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		53	106					
Installed Capacity (MW)	2030		53	106	106	106			
Installed Capacity (MW)	FG						106	106	106
Available Energy (GWh)	2028		167	334					
Available Energy (GWh)	2030		166	332	332	332			
Available Energy (GWh)	FG						332	332	332
Generation (GWh)	2028		71	133					
Generation (GWh)	2030		112	202	171	160			
Generation (GWh)	FG						184	173	225
Surplus (%)	2028		23 %	29 %					
Surplus (%)	2030		25 %	31 %	37 %	45 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailment (%)	2028		5 %	5 %					
Curtailment (%)	2030		3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		29 %	26 %					
Constraint (%)	2030		5 %	5 %	8 %	4 %			
Constraint (%)	FG						6 %	4 %	7 %
Total Dispatch Down (%)	2028		57 %	60 %					
Total Dispatch Down (%)	2030		33 %	39 %	48 %	52 %			
Total Dispatch Down (%)	FG						44 %	48 %	32 %

Table 2-10 - Surplus, Curtailment and Constraint for Wind non-priority for Node Barrymore

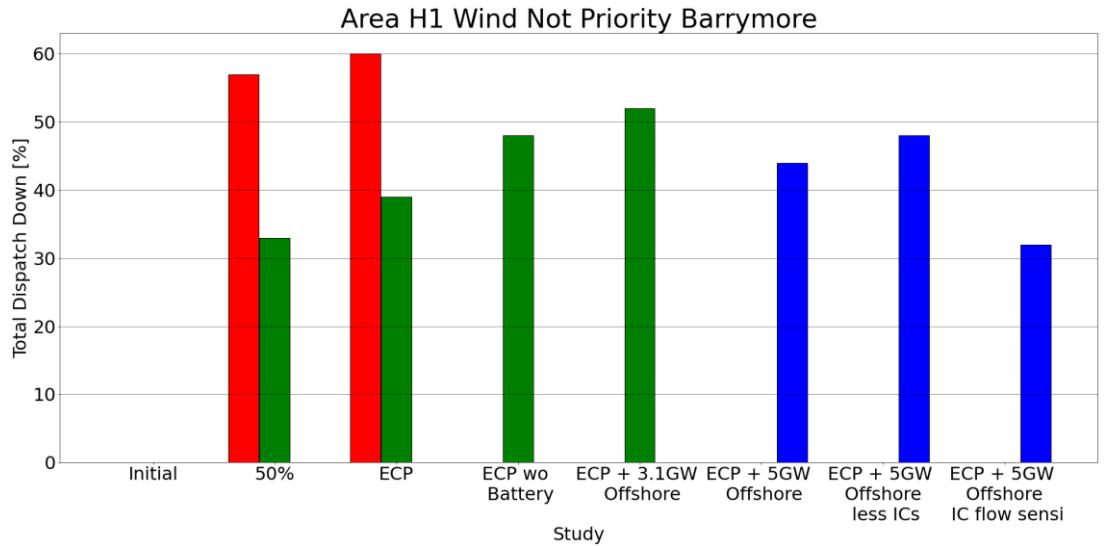


Figure 2-7 - Total Dispatch Down for Wind not priority for Node Barrymore

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	106	
Installed Capacity (MW)	2030	106	106
Available Energy (GWh)	2028	334	
Available Energy (GWh)	2030	332	332
Generation (GWh)	2028	183	
Generation (GWh)	2030	211	168
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	45 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	45 %	
Total Dispatch Down (%)	2030	36 %	49 %

Table 2-11 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Barrymore

The wind priority data is given in the following table.

Area H1	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	32	32					
Installed Capacity (MW)	2030	32	32	32	32	32			
Installed Capacity (MW)	FG						32	32	32
Available Energy (GWh)	2028	103	103	103					
Available Energy (GWh)	2030	102	102	102	102	102			
Available Energy (GWh)	FG						102	102	102
Generation (GWh)	2028	92	92	92					
Generation (GWh)	2030	95	95	95	93	94			
Generation (GWh)	FG						95	96	99
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	10 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailment (%)	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 2-12 - Surplus, Curtailment and Constraint for Wind priority for Node Barrymore

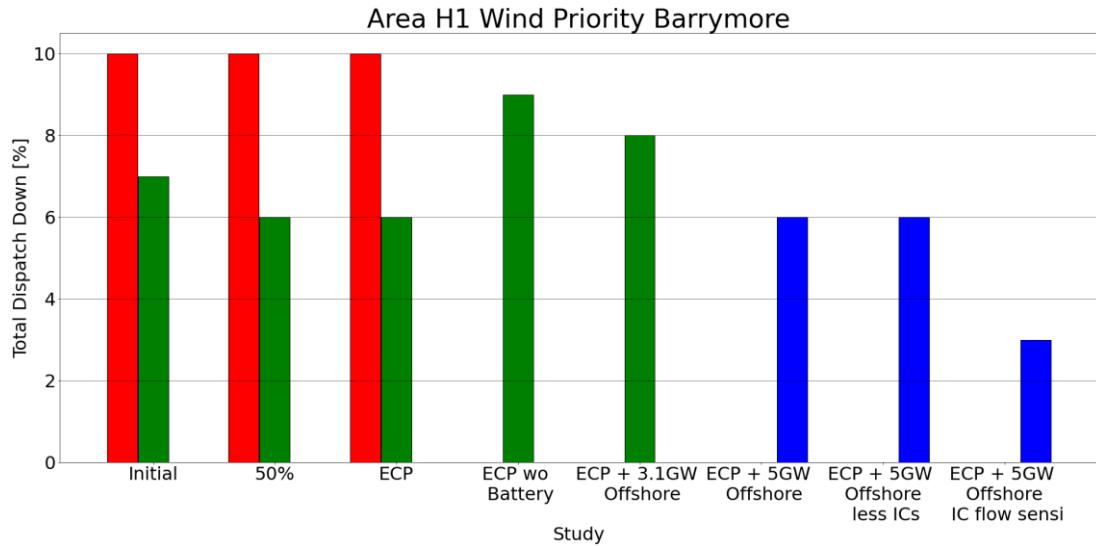


Figure 2-8 - Total Dispatch Down for Wind priority for Node Barrymore

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	32	
Installed Capacity (MW)	2030	32	32
Available Energy (GWh)	2028	103	
Available Energy (GWh)	2030	102	102
Generation (GWh)	2028	80	
Generation (GWh)	2030	93	92
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	8 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	22 %	
Total Dispatch Down (%)	2030	8 %	9 %

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

## 2.4 Borrisbeg

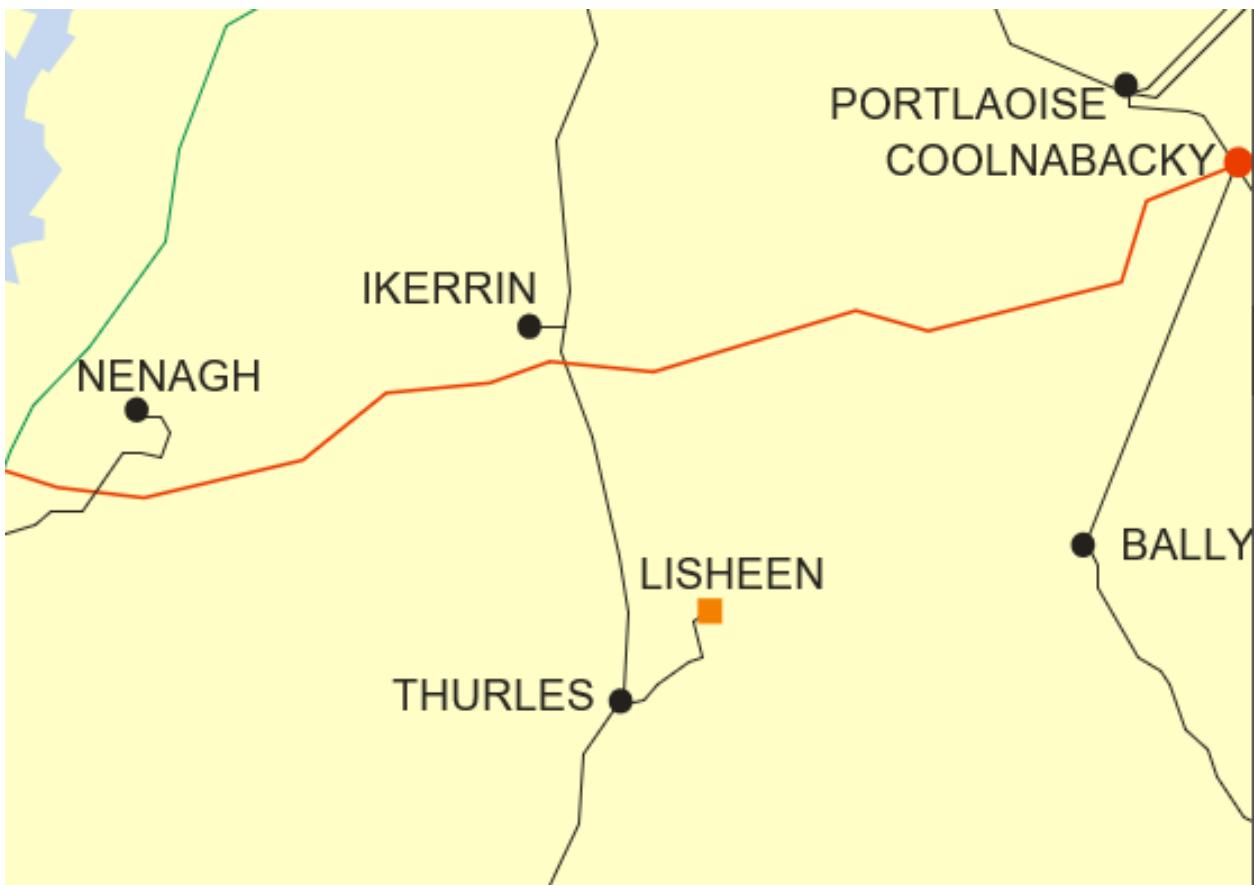


Figure 2-9 - Location of node Borrisbeg (between Thurles and Ikerrin)

Generator	SO	Capacity	Type	Status
Borrisbeg	DSO	54.0	wind not priority	due to connected

Table 2-14 - Generation Included in Study for Node Borrisbeg

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

Area H1	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		27	54					
Installed Capacity (MW)	2030		27	54	54	54			
Installed Capacity (MW)	FG						54	54	54
Available Energy (GWh)	2028		85	171					
Available Energy (GWh)	2030		85	170	170	170			
Available Energy (GWh)	FG						170	170	170
Generation (GWh)	2028		37	68					
Generation (GWh)	2030		57	103	88	82			
Generation (GWh)	FG						94	89	115
Surplus (%)	2028		23 %	29 %					
Surplus (%)	2030		25 %	31 %	37 %	45 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailment (%)	2028		5 %	5 %					
Curtailment (%)	2030		3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		29 %	26 %					
Constraint (%)	2030		5 %	5 %	8 %	4 %			
Constraint (%)	FG						6 %	4 %	7 %
Total Dispatch Down (%)	2028		57 %	60 %					
Total Dispatch Down (%)	2030		33 %	39 %	48 %	52 %			
Total Dispatch Down (%)	FG						44 %	48 %	32 %

Table 2-15 - Surplus, Curtailment and Constraint for Wind non-priority for Node Borrisbeg

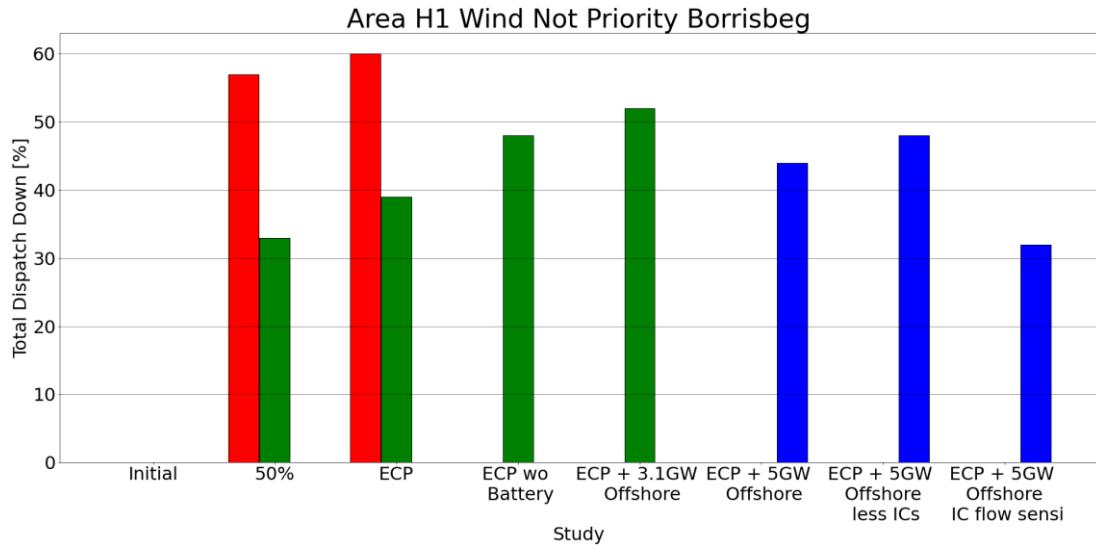


Figure 2-10 - Total Dispatch Down for Wind not priority for Node Borrisbeg

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	54	
Installed Capacity (MW)	2030	54	54
Available Energy (GWh)	2028	171	
Available Energy (GWh)	2030	170	170
Generation (GWh)	2028	93	
Generation (GWh)	2030	108	86
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	45 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	45 %	
Total Dispatch Down (%)	2030	36 %	49 %

Table 2-16 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Borrisbeg

## 2.5 Cahir

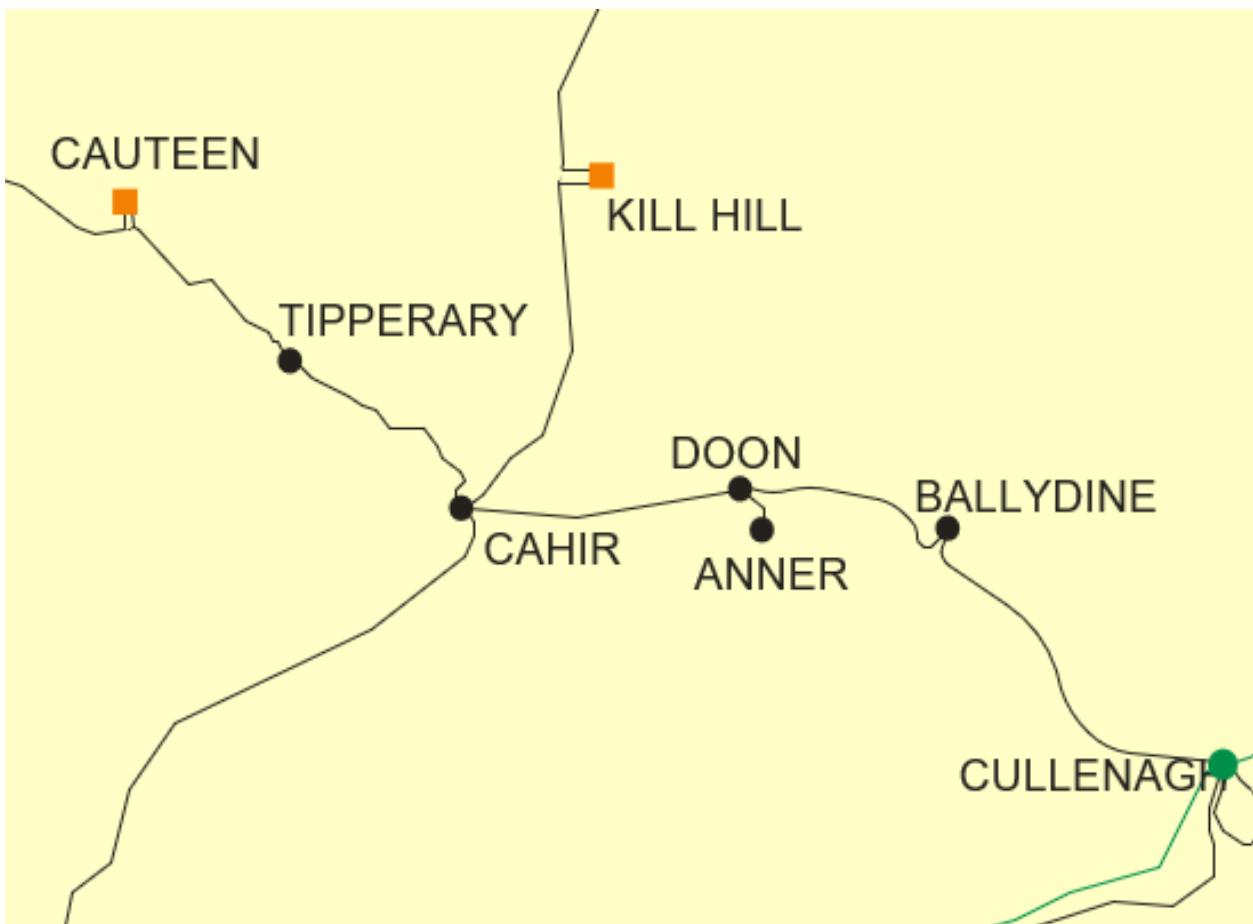


Figure 2-11 - Location of node Cahir

Generator	SO	Capacity	Type	Status
Farranlahassery Solar	DSO	4.0	solar not priority	due to connected
Ballymacadam (Monraha) Solar PV Farm	DSO	21.0	solar not priority	connected
Monroe East solar from merge Ballyfowloo Lawclon	DSO	8.0	solar not priority	connected
Magherareagh Solar PV Farm	DSO	3.3	solar not priority	due to connected

Table 2-17 - Generation Included in Study for Node Cahir

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

Area H1	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	33	35	36					
Installed Capacity (MW)	2030	33	35	36	36	36			
Installed Capacity (MW)	FG						36	36	36
Available Energy (GWh)	2028	39	41	43					
Available Energy (GWh)	2030	39	41	43	43	43			
Available Energy (GWh)	FG						43	43	43
Generation (GWh)	2028	33	31	26					
Generation (GWh)	2030	33	33	29	25	27			
Generation (GWh)	FG						29	27	32
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	3 %	8 %	10 %					
Constraint (%)	2030	4 %	2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028	15 %	25 %	39 %					
Total Dispatch Down (%)	2030	14 %	19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 2-18 - Surplus, Curtailment and Constraint for Solar non-priority for Node Cahir

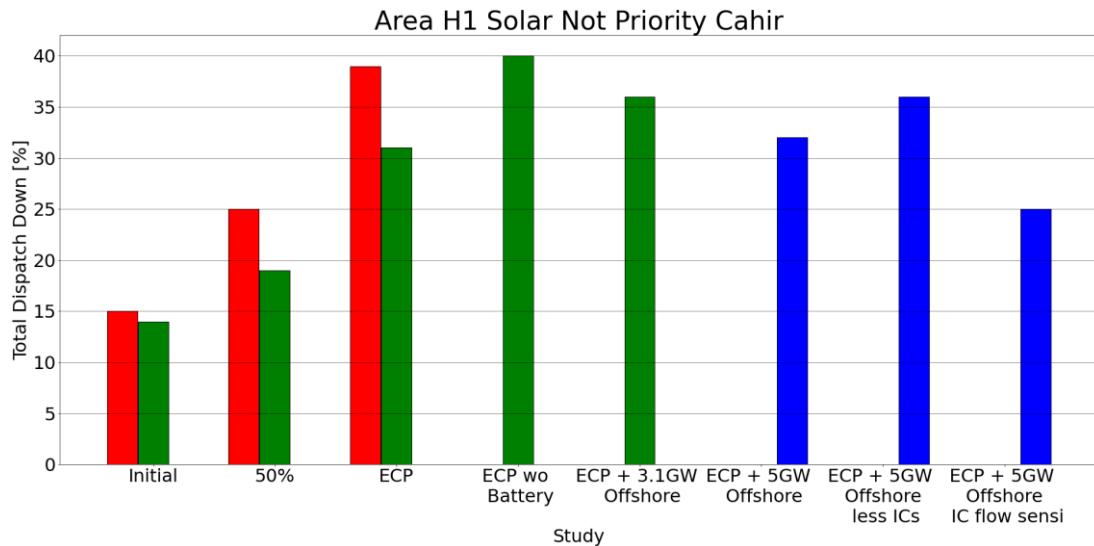


Figure 2-12 - Total Dispatch Down for Solar not priority for Node Cahir

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	36	
Installed Capacity (MW)	2030	36	36
Available Energy (GWh)	2028	43	
Available Energy (GWh)	2030	43	43
Generation (GWh)	2028	26	
Generation (GWh)	2030	29	27
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

Table 2-19 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Cahir

## 2.6 Cauteen

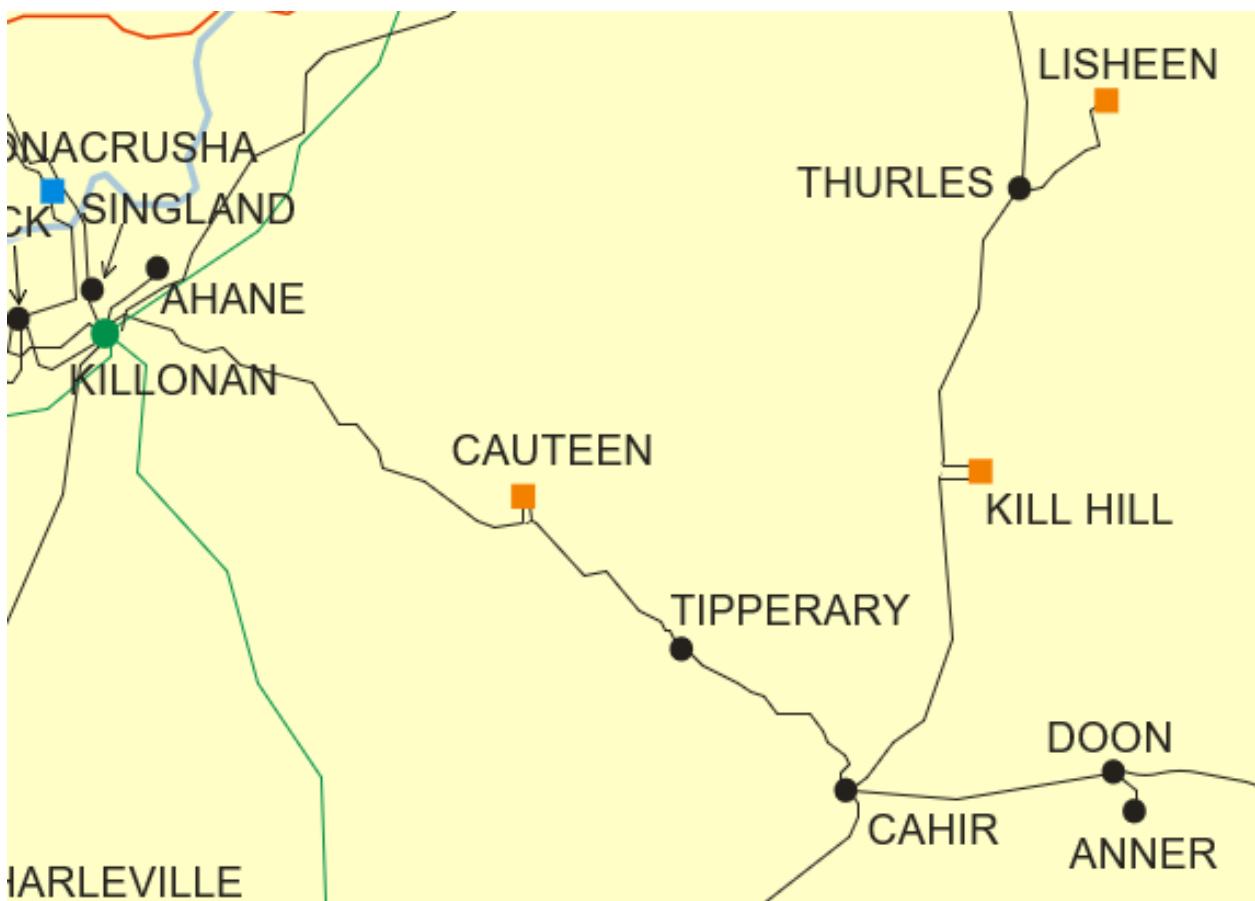


Figure 2-13 - Location of node Cauteen

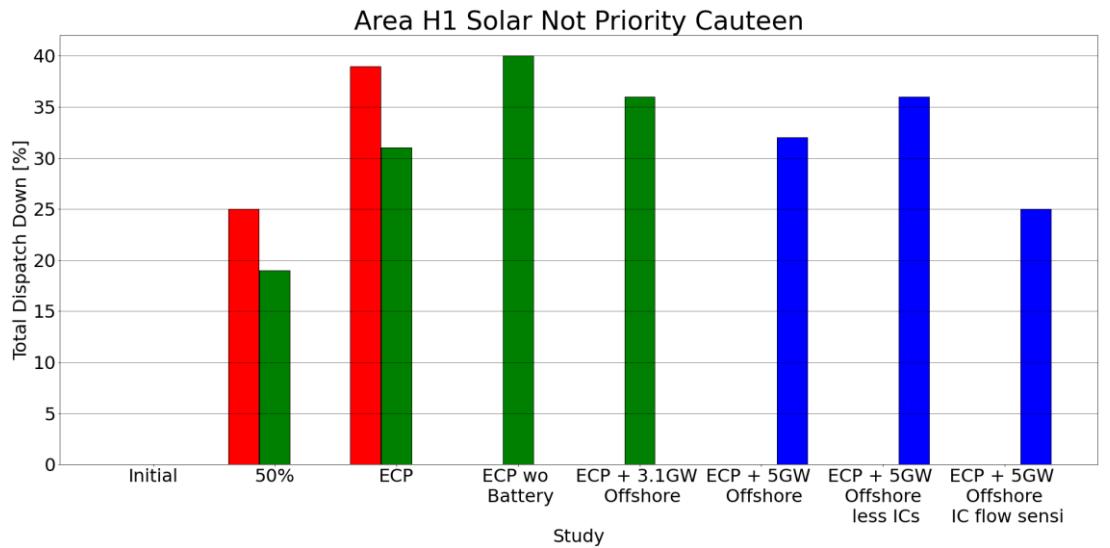
Generator	SO	Capacity	Type	Status
<b>Cappawhite B</b>	DSO	13.18	wind priority	connected
<b>Cappawhite A Wind Farm (Gate 2)</b>	DSO	2.92	wind priority	connected
<b>Holyford (1)</b>	DSO	9.0	wind priority	connected
<b>Garracummer (1)</b>	DSO	36.9	wind priority	connected
<b>Glenough (1)</b>	DSO	33.0	wind priority	connected
<b>Cappawhite A</b>	DSO	49.08	wind priority	connected
<b>Glencaribry (1)</b>	DSO	33.0	wind priority	connected
<b>Garracummer (2)</b>	DSO	1.0	wind priority	connected
<b>Barnaleen Solar Farm</b>	TSO	55.0	solar not priority	due to connected
<b>Gortdrum Solar PV</b>	DSO	48.0	solar not priority	due to connected
<b>Ballyvalode Solar</b>	TSO	113.0	solar not priority	due to connected
<b>Barnaleen Solar Phase 2</b>	TSO	35.0	solar not priority	due to connected

Table 2-20 - Generation Included in Study for Node Cauteen

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

Area H1	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		126	251					
Installed Capacity (MW)	2030		126	251	251	251			
Installed Capacity (MW)	FG						251	251	251
Available Energy (GWh)	2028		147	294					
Available Energy (GWh)	2030		147	294	294	294			
Available Energy (GWh)	FG						294	294	294
Generation (GWh)	2028		111	180					
Generation (GWh)	2030		119	204	175	188			
Generation (GWh)	FG						200	189	219
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 2-21 - Surplus, Curtailment and Constraint for Solar non-priority for Node Cau teen



*Figure 2-14 - Total Dispatch Down for Solar not priority for Node Cauteen*

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	251	
Installed Capacity (MW)	2030	251	251
Available Energy (GWh)	2028	294	
Available Energy (GWh)	2030	294	294
Generation (GWh)	2028	180	
Generation (GWh)	2030	204	188
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

*Table 2-22 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Cauteen*

The wind priority data is given in the following table.

Area H1	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	178	178					
Installed Capacity (MW)	2030	178	178	178	178	178			
Installed Capacity (MW)	FG						178	178	178
Available Energy (GWh)	2028	563	563	563					
Available Energy (GWh)	2030	560	560	560	560	560			
Available Energy (GWh)	FG						560	560	560
Generation (GWh)	2028	505	508	505					
Generation (GWh)	2030	520	525	524	509	517			
Generation (GWh)	FG						525	526	542
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	10 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailment (%)	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 2-23 - Surplus, Curtailment and Constraint for Wind priority for Node Cautteen

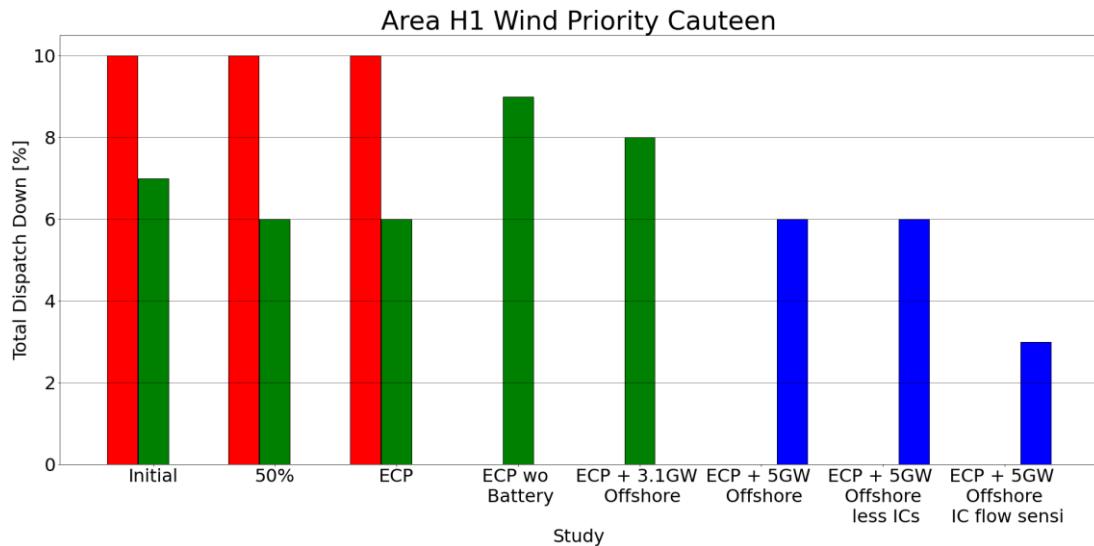


Figure 2-15 - Total Dispatch Down for Wind priority for Node Cauteen

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	178	
Installed Capacity (MW)	2030	178	178
Available Energy (GWh)	2028	563	
Available Energy (GWh)	2030	560	560
Generation (GWh)	2028	442	
Generation (GWh)	2030	513	508
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	8 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	22 %	
Total Dispatch Down (%)	2030	8 %	9 %

Table 2-24 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Cauteen

## 2.7 Curraghduff



Figure 2-16 - Location of node Curraghduff (Mothel on the image)

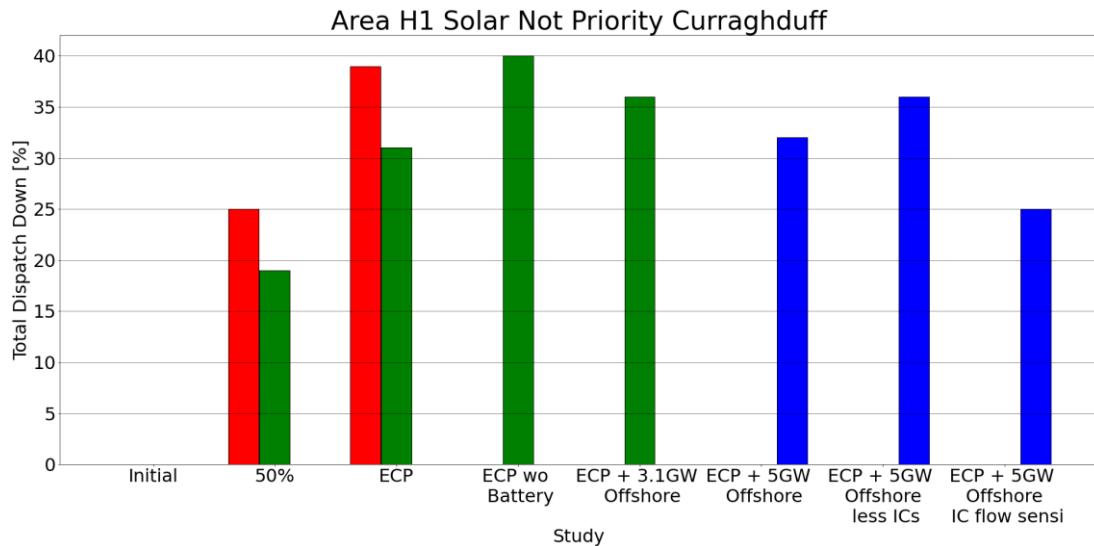
Generator	SO	Capacity	Type	Status
Mothel solar	TSO	125.0	solar not priority	due to connected

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

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

Area H1	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		62	125					
Installed Capacity (MW)	2030		62	125	125	125			
Installed Capacity (MW)	FG						125	125	125
Available Energy (GWh)	2028		73	147					
Available Energy (GWh)	2030		73	146	146	146			
Available Energy (GWh)	FG						146	146	146
Generation (GWh)	2028		55	90					
Generation (GWh)	2030		59	102	87	94			
Generation (GWh)	FG						99	94	109
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

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



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

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	125	
Installed Capacity (MW)	2030	125	125
Available Energy (GWh)	2028	147	
Available Energy (GWh)	2030	146	146
Generation (GWh)	2028	90	
Generation (GWh)	2030	102	94
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

*Table 2-27 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Curraghdaff*

## 2.8 Doon

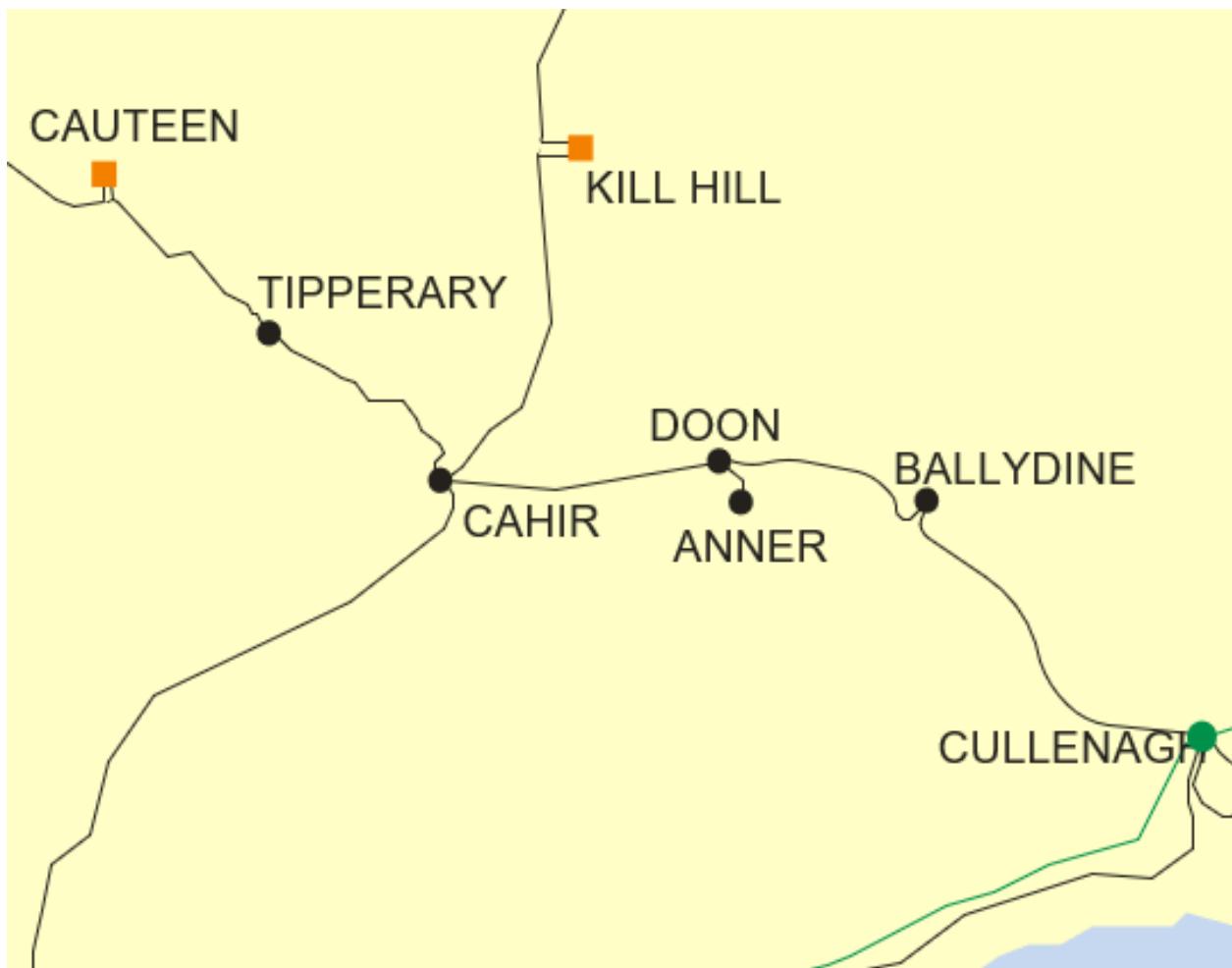


Figure 2-18 - Location of node Doon

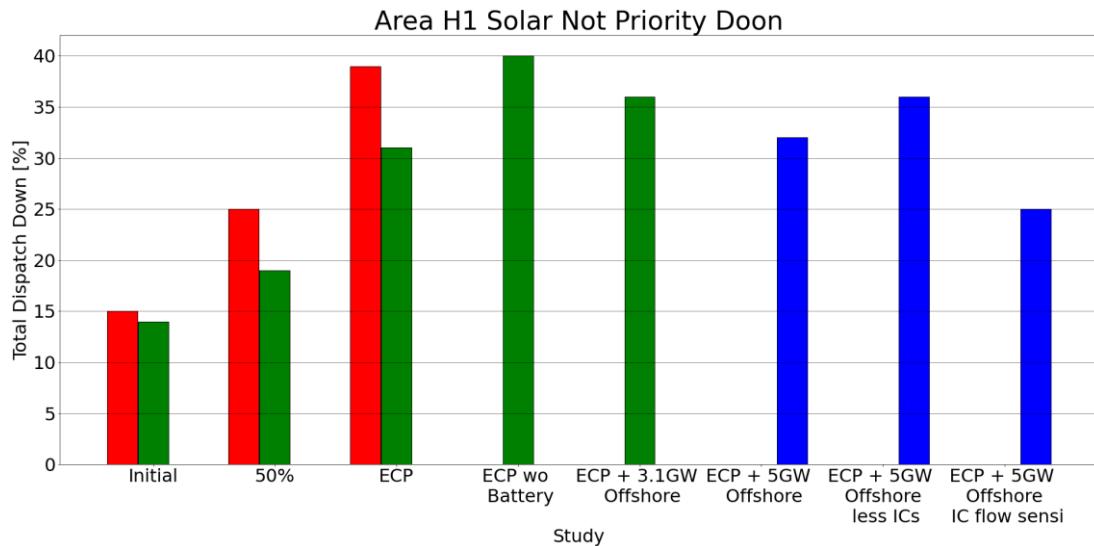
Generator	SO	Capacity	Type	Status
Horsepasture Solar Farm (Grian PV)	DSO	8.0	solar not priority	due to connected
Clonmel Renewable Energy Community A	DSO	4.99	solar not priority	due to connected
Knockroe Wind Farm	DSO	33.6	wind not priority	due to connected
Ballyboe ph2	DSO	4.0	solar not priority	due to connected

Table 2-28 - Generation Included in Study for Node Doon

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

Area H1	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028	8	12	17					
Installed Capacity (MW)	2030	8	12	17	17	17			
Installed Capacity (MW)	FG						17	17	17
Available Energy (GWh)	2028	9	15	20					
Available Energy (GWh)	2030	9	15	20	20	20			
Available Energy (GWh)	FG						20	20	20
Generation (GWh)	2028	8	11	12					
Generation (GWh)	2030	8	12	14	12	13			
Generation (GWh)	FG						14	13	15
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	3 %	8 %	10 %					
Constraint (%)	2030	4 %	2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028	15 %	25 %	39 %					
Total Dispatch Down (%)	2030	14 %	19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 2-29 - Surplus, Curtailment and Constraint for Solar non-priority for Node Doon



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

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	17	
Installed Capacity (MW)	2030	17	17
Available Energy (GWh)	2028	20	
Available Energy (GWh)	2030	20	20
Generation (GWh)	2028	12	
Generation (GWh)	2030	14	13
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

*Table 2-30 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Doon*

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

Area H1	Year	Initial	50%	ECP	ECP wo Battery	ECP + 3.1GW Offshore	ECP + 5GW Offshore	ECP + 5GW Offshore less ICs	ECP + 5GW Offshore IC flow sensi
Installed Capacity (MW)	2028		17	34					
Installed Capacity (MW)	2030		17	34	34	34			
Installed Capacity (MW)	FG						34	34	34
Available Energy (GWh)	2028		53	106					
Available Energy (GWh)	2030		53	106	106	106			
Available Energy (GWh)	FG						106	106	106
Generation (GWh)	2028		23	42					
Generation (GWh)	2030		36	64	55	51			
Generation (GWh)	FG						59	55	72
Surplus (%)	2028		23 %	29 %					
Surplus (%)	2030		25 %	31 %	37 %	45 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailment (%)	2028		5 %	5 %					
Curtailment (%)	2030		3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028		29 %	26 %					
Constraint (%)	2030		5 %	5 %	8 %	4 %			
Constraint (%)	FG						6 %	4 %	7 %
Total Dispatch Down (%)	2028		57 %	60 %					
Total Dispatch Down (%)	2030		33 %	39 %	48 %	52 %			
Total Dispatch Down (%)	FG						44 %	48 %	32 %

Table 2-31 - Surplus, Curtailment and Constraint for Wind non-priority for Node Doon

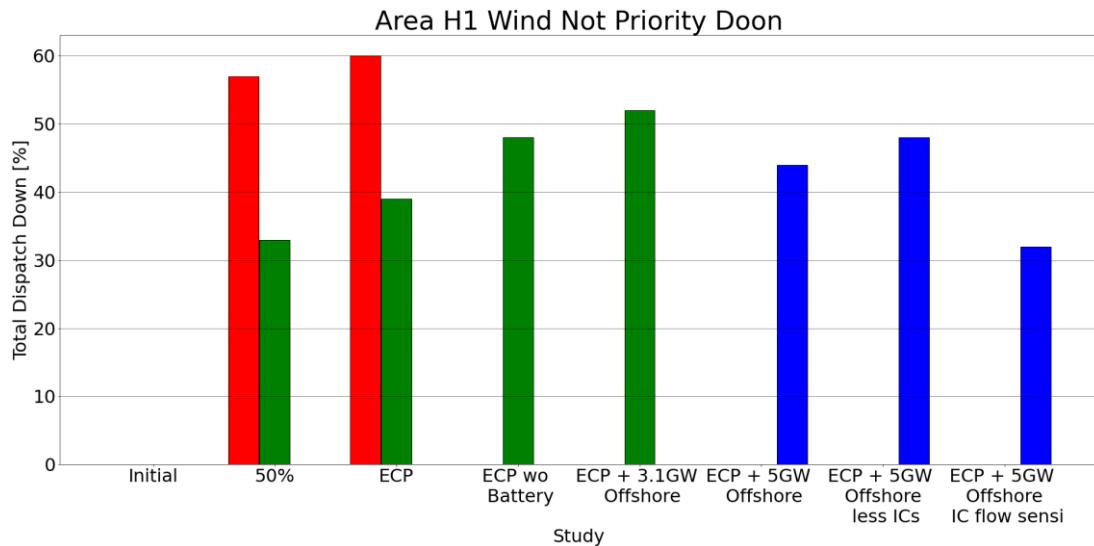


Figure 2-20 - Total Dispatch Down for Wind not priority for Node Doon

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	34	
Installed Capacity (MW)	2030	34	34
Available Energy (GWh)	2028	106	
Available Energy (GWh)	2030	106	106
Generation (GWh)	2028	58	
Generation (GWh)	2030	67	53
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	45 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	45 %	
Total Dispatch Down (%)	2030	36 %	49 %

Table 2-32 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Doon

## 2.9 Ikerrin

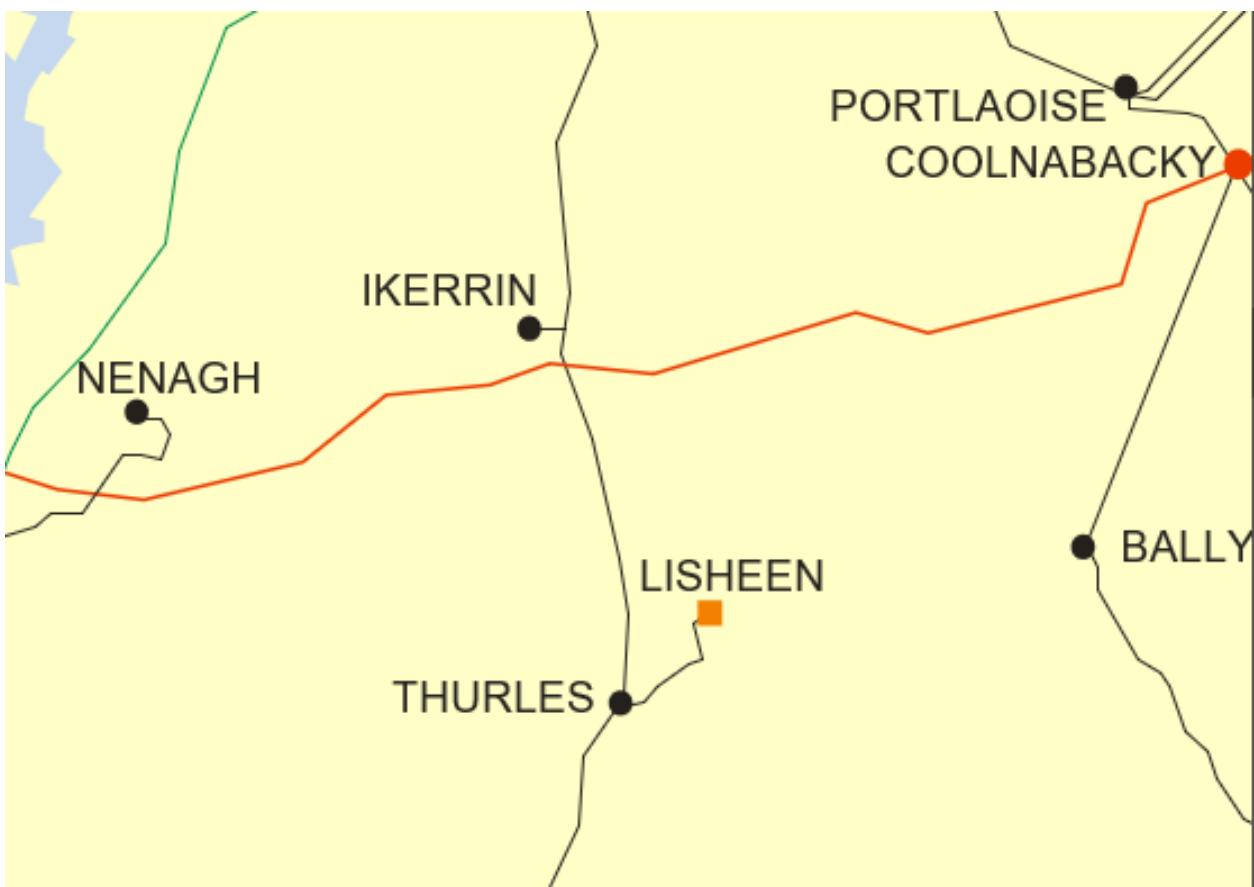


Figure 2-21 - Location of node Ikerrin

Generator	SO	Capacity	Type	Status
Monaincha Bog Wind Farm	DSO	35.95	wind priority	connected

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

The wind priority data is given in the following table.

Area H1	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	36	36	36					
Installed Capacity (MW)	2030	36	36	36	36	36			
Installed Capacity (MW)	FG						36	36	36
Available Energy (GWh)	2028	114	114	114					
Available Energy (GWh)	2030	113	113	113	113	113			
Available Energy (GWh)	FG						113	113	113
Generation (GWh)	2028	102	103	102					
Generation (GWh)	2030	105	106	106	103	104			
Generation (GWh)	FG						106	106	109
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	10 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailment (%)	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 2-34 - Surplus, Curtailment and Constraint for Wind priority for Node Ikerrin

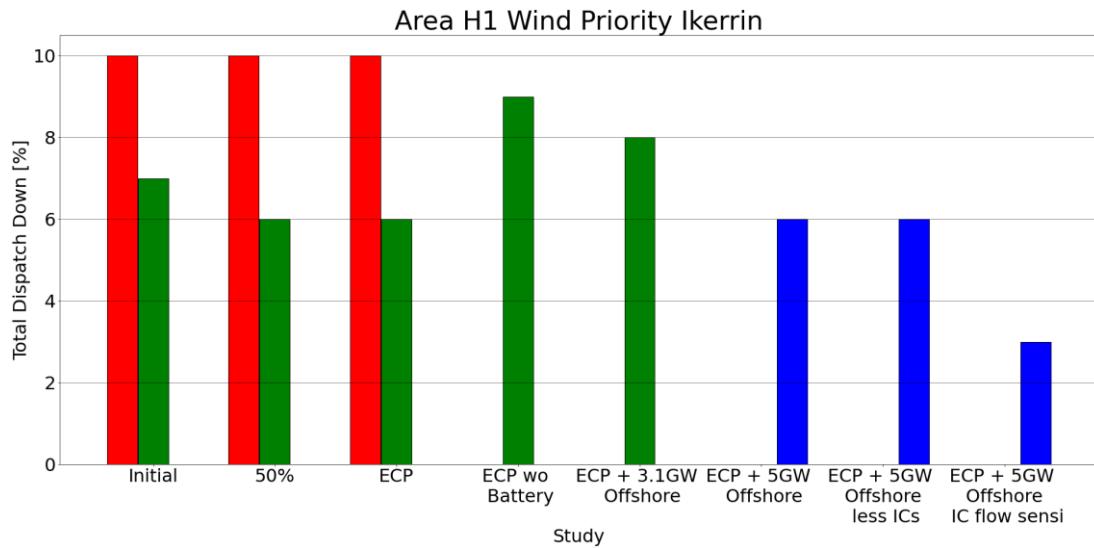


Figure 2-22 - Total Dispatch Down for Wind priority for Node Ikerrin

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	36	
Installed Capacity (MW)	2030	36	36
Available Energy (GWh)	2028	114	
Available Energy (GWh)	2030	113	113
Generation (GWh)	2028	89	
Generation (GWh)	2030	104	102
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	8 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	22 %	
Total Dispatch Down (%)	2030	8 %	9 %

Table 2-35 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Ikerrin

## 2.10 Kill hill

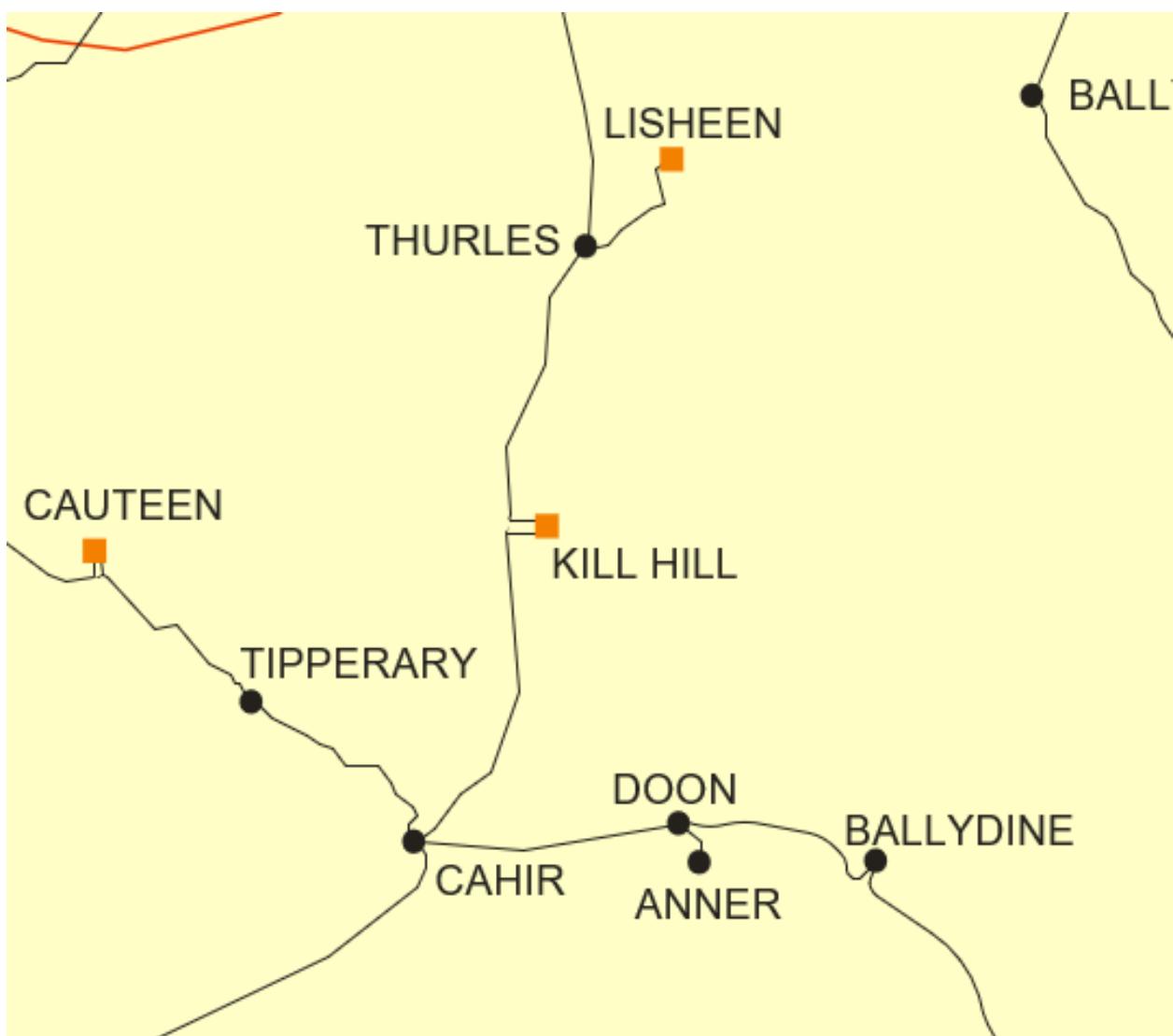


Figure 2-23 - Location of node Kill hill

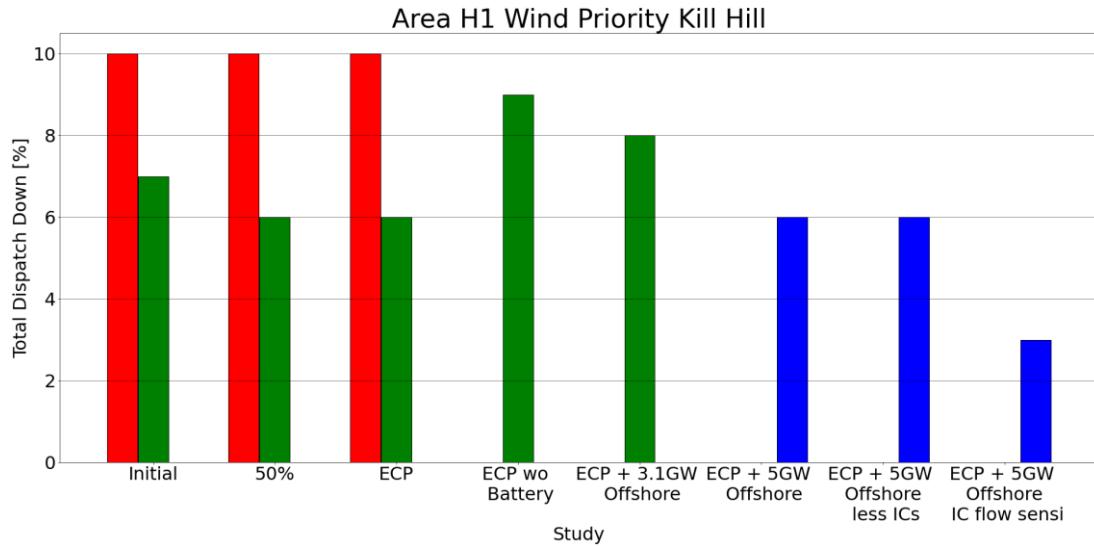
Generator	SO	Capacity	Type	Status
Kill Hill (1) - phase 1	TSO	36.0	wind priority	connected

Table 2-36 - Generation Included in Study for Node Kill hill

The wind priority data is given in the following table.

Area H1	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	36	36	36					
Installed Capacity (MW)	2030	36	36	36	36	36			
Installed Capacity (MW)	FG						36	36	36
Available Energy (GWh)	2028	114	114	114					
Available Energy (GWh)	2030	113	113	113	113	113			
Available Energy (GWh)	FG						113	113	113
Generation (GWh)	2028	102	103	102					
Generation (GWh)	2030	105	106	106	103	104			
Generation (GWh)	FG						106	106	110
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	10 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailment (%)	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 2-37 - Surplus, Curtailment and Constraint for Wind priority for Node Kill hill



*Figure 2-24 - Total Dispatch Down for Wind priority for Node Kill hill*

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	36	
Installed Capacity (MW)	2030	36	36
Available Energy (GWh)	2028	114	
Available Energy (GWh)	2030	113	113
Generation (GWh)	2028	89	
Generation (GWh)	2030	104	103
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	8 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	22 %	
Total Dispatch Down (%)	2030	8 %	9 %

*Table 2-38 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Kill hill*

## 2.11 Killonan

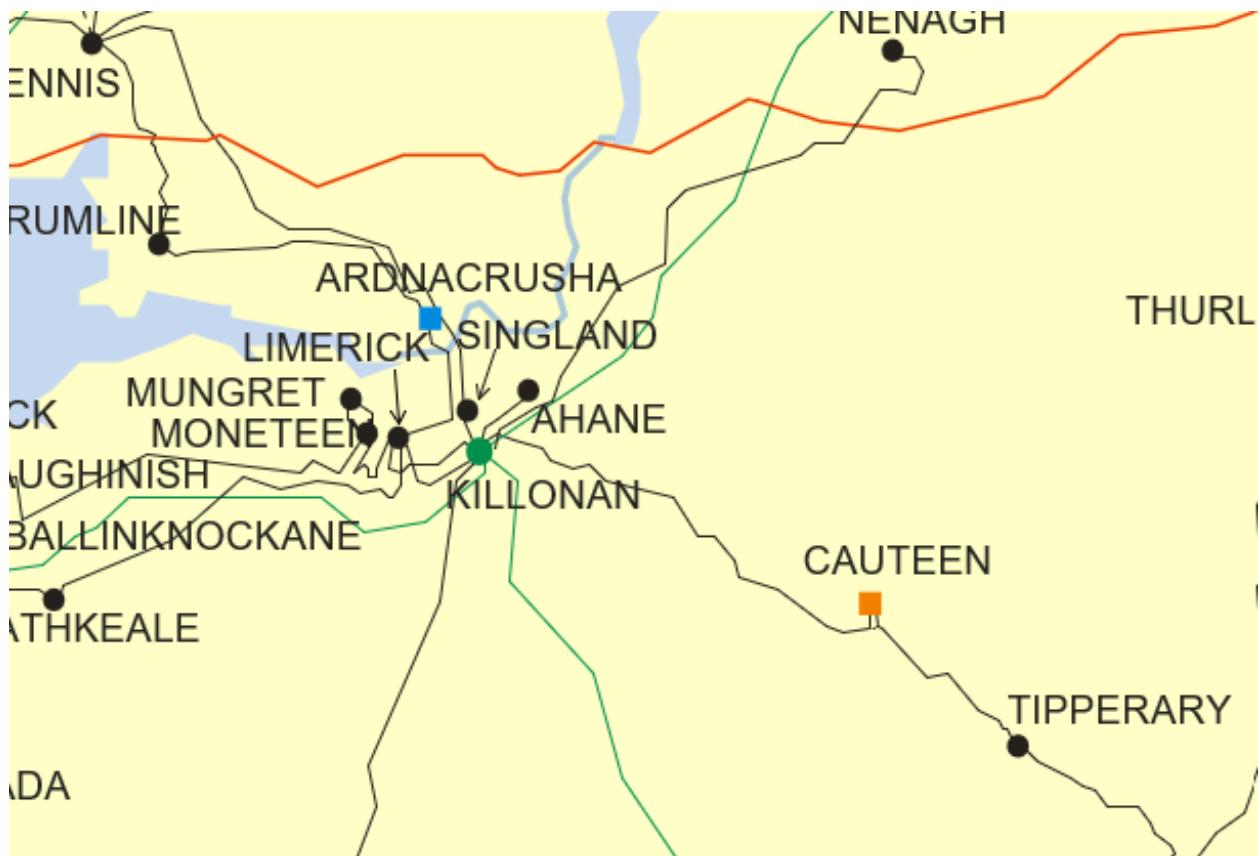


Figure 2-25 - Location of node Killonan

Generator	SO	Capacity	Type	Status
Cureeny (1)	DSO	84.0	wind not priority	due to connected

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

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

Area H1	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	84	84	84					
Installed Capacity (MW)	2030	84	84	84	84	84			
Installed Capacity (MW)	FG						84	84	84
Available Energy (GWh)	2028	266	266	266					
Available Energy (GWh)	2030	264	264	264	264	264			
Available Energy (GWh)	FG						264	264	264
Generation (GWh)	2028	120	114	106					
Generation (GWh)	2030	175	178	161	136	127			
Generation (GWh)	FG						147	138	179
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	25 %	31 %	37 %	45 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailment (%)	2028	7 %	5 %	5 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	30 %	29 %	26 %					
Constraint (%)	2030	15 %	5 %	5 %	8 %	4 %			
Constraint (%)	FG						6 %	4 %	7 %
Total Dispatch Down (%)	2028	55 %	57 %	60 %					
Total Dispatch Down (%)	2030	34 %	33 %	39 %	48 %	52 %			
Total Dispatch Down (%)	FG						44 %	48 %	32 %

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

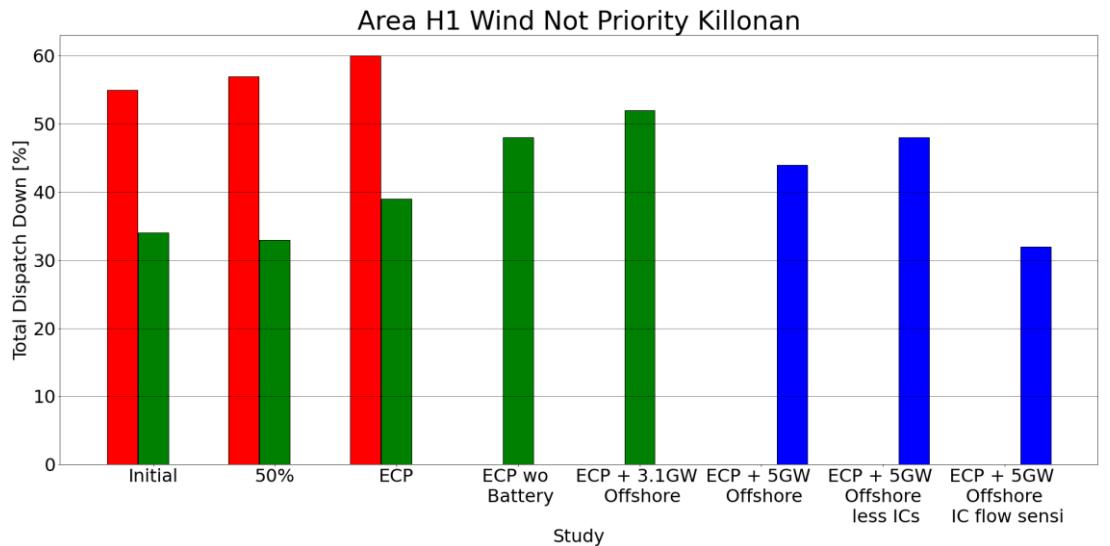


Figure 2-26 - Total Dispatch Down for Wind not priority for Node Killonan

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	84	
Installed Capacity (MW)	2030	84	84
Available Energy (GWh)	2028	266	
Available Energy (GWh)	2030	264	264
Generation (GWh)	2028	145	
Generation (GWh)	2030	168	133
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	45 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	45 %	
Total Dispatch Down (%)	2030	36 %	49 %

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

## 2.12 Lisheen

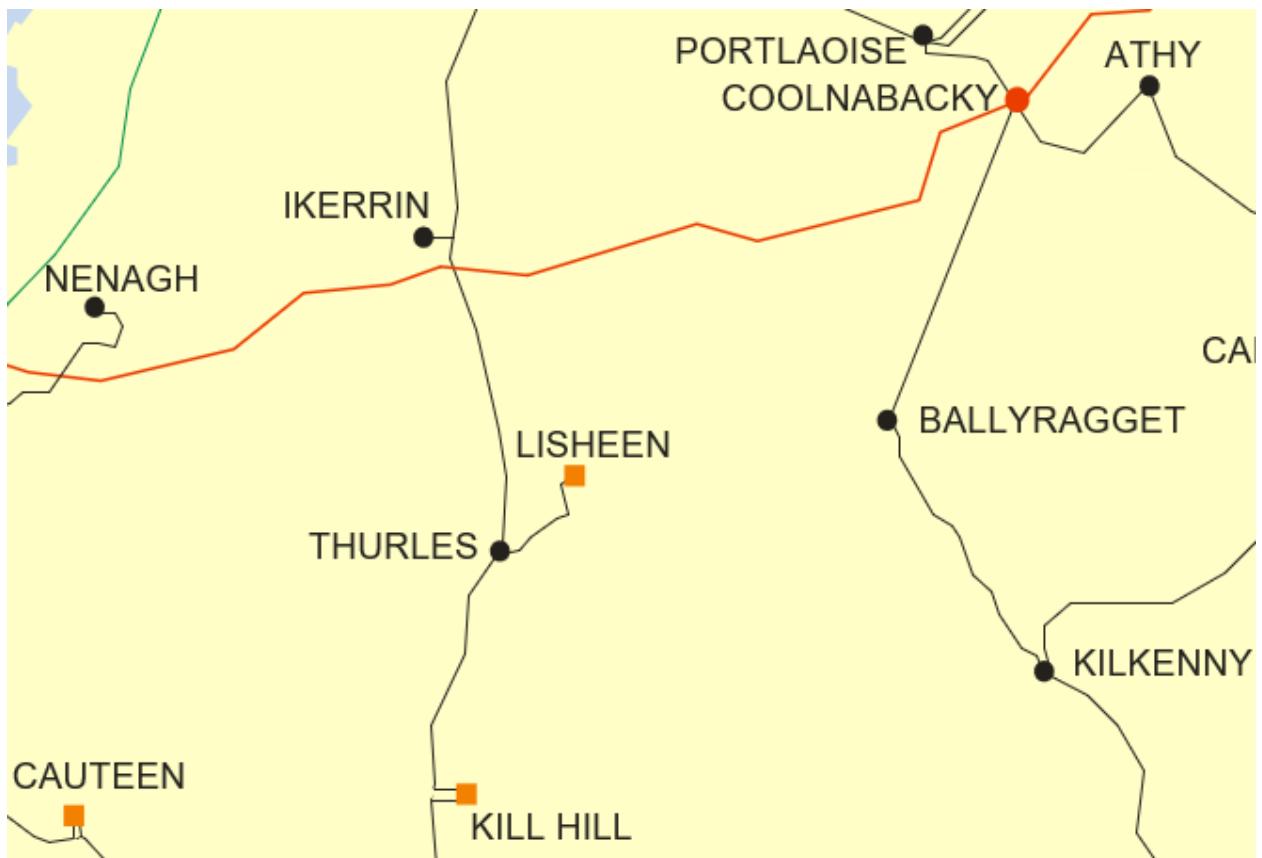


Figure 2-27 - Location of node Lisheen

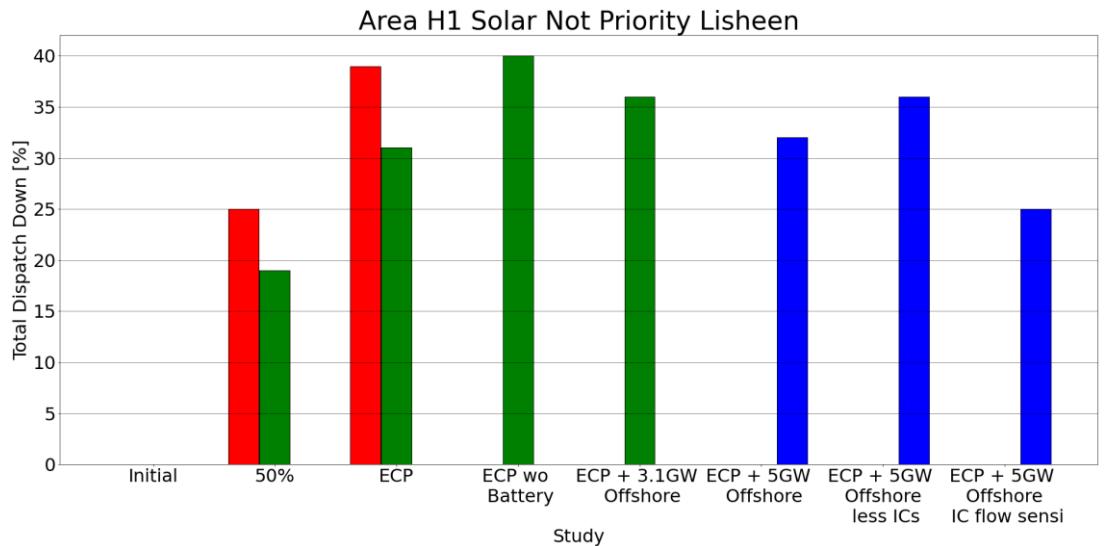
Generator	SO	Capacity	Type	Status
Lisheen (1a)	TSO	23.0	wind priority	connected
Lisheen (1)	TSO	36.0	wind priority	connected
Bruckana (1)	DSO	39.6	wind priority	connected
Lisheen 3	TSO	28.8	wind not priority	connected
Kiloran Solar PV Farm	TSO	76.0	solar not priority	due to connected

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

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

Area H1	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		38	76					
Installed Capacity (MW)	2030		38	76	76	76			
Installed Capacity (MW)	FG						76	76	76
Available Energy (GWh)	2028		45	89					
Available Energy (GWh)	2030		44	89	89	89			
Available Energy (GWh)	FG						89	89	89
Generation (GWh)	2028		33	55					
Generation (GWh)	2030		36	62	53	57			
Generation (GWh)	FG						60	57	66
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

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



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

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

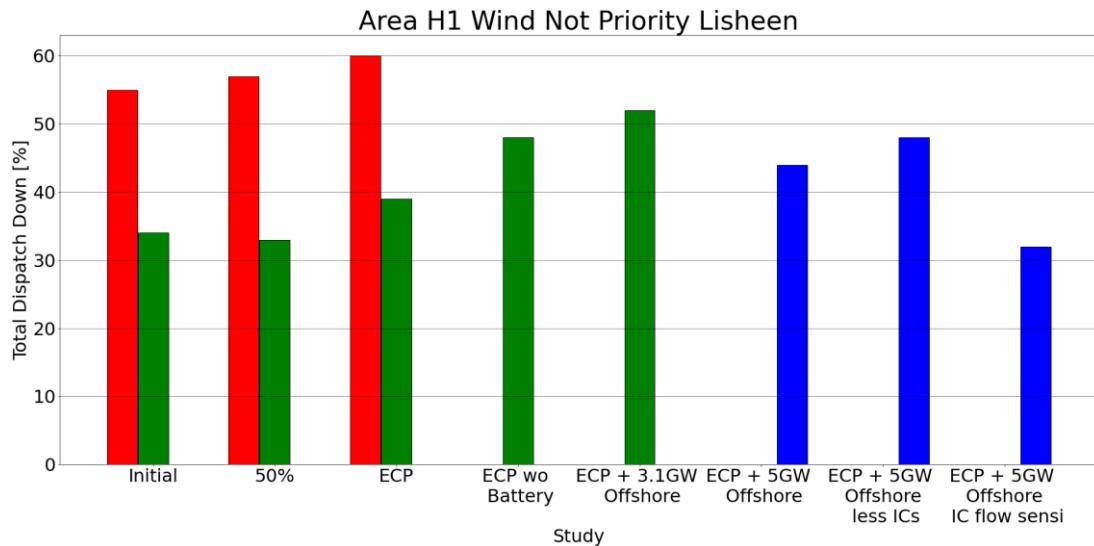
Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	76	
Installed Capacity (MW)	2030	76	76
Available Energy (GWh)	2028	89	
Available Energy (GWh)	2030	89	89
Generation (GWh)	2028	55	
Generation (GWh)	2030	62	57
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

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

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

Area H1	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	29	29					
Installed Capacity (MW)	2030	29	29	29	29	29			
Installed Capacity (MW)	FG						29	29	29
Available Energy (GWh)	2028	91	91	91					
Available Energy (GWh)	2030	91	91	91	91	91			
Available Energy (GWh)	FG						91	91	91
Generation (GWh)	2028	41	39	36					
Generation (GWh)	2030	60	61	55	47	44			
Generation (GWh)	FG						50	47	61
Surplus (%)	2028	18 %	23 %	29 %					
Surplus (%)	2030	14 %	25 %	31 %	37 %	45 %			
Surplus (%)	FG						36 %	41 %	23 %
Curtailment (%)	2028	7 %	5 %	5 %					
Curtailment (%)	2030	5 %	3 %	3 %	4 %	3 %			
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	30 %	29 %	26 %					
Constraint (%)	2030	15 %	5 %	5 %	8 %	4 %			
Constraint (%)	FG						6 %	4 %	7 %
Total Dispatch Down (%)	2028	55 %	57 %	60 %					
Total Dispatch Down (%)	2030	34 %	33 %	39 %	48 %	52 %			
Total Dispatch Down (%)	FG						44 %	48 %	32 %

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



*Figure 2-29 - Total Dispatch Down for Wind not priority for Node Lisheen*

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

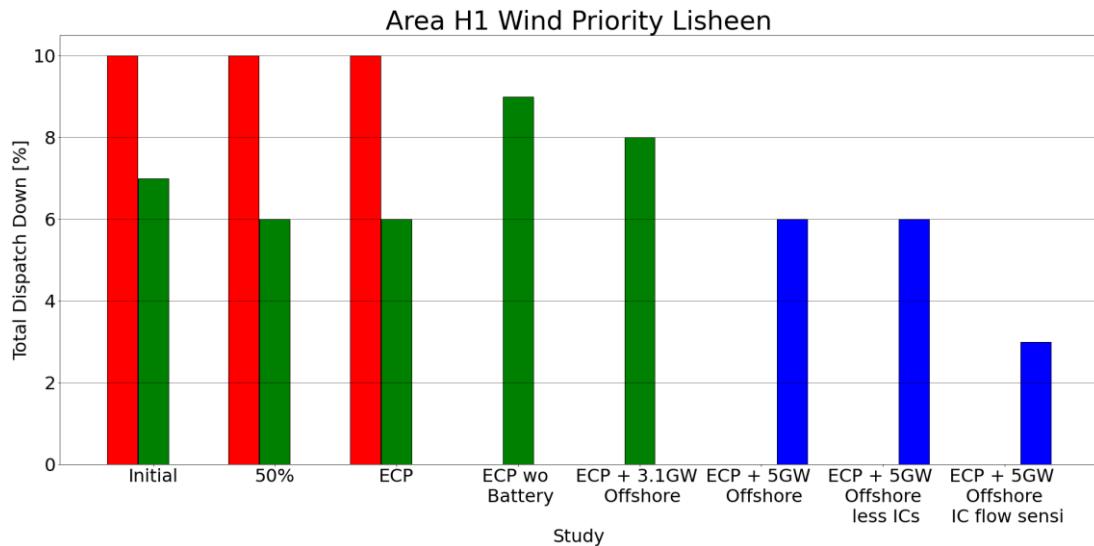
Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	29	
Installed Capacity (MW)	2030	29	29
Available Energy (GWh)	2028	91	
Available Energy (GWh)	2030	91	91
Generation (GWh)	2028	50	
Generation (GWh)	2030	58	46
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	45 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	45 %	
Total Dispatch Down (%)	2030	36 %	49 %

*Table 2-46 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Lisheen*

The wind priority data is given in the following table.

Area H1	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	99	99	99					
Installed Capacity (MW)	2030	99	99	99	99	99			
Installed Capacity (MW)	FG						99	99	99
Available Energy (GWh)	2028	312	312	312					
Available Energy (GWh)	2030	310	310	310	310	310			
Available Energy (GWh)	FG						310	310	310
Generation (GWh)	2028	279	281	279					
Generation (GWh)	2030	288	291	290	282	286			
Generation (GWh)	FG						291	292	300
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	10 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailment (%)	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 2-47 - Surplus, Curtailment and Constraint for Wind priority for Node Lisheen



*Figure 2-30 - Total Dispatch Down for Wind priority for Node Lisheen*

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	99	
Installed Capacity (MW)	2030	99	99
Available Energy (GWh)	2028	312	
Available Energy (GWh)	2030	310	310
Generation (GWh)	2028	245	
Generation (GWh)	2030	284	281
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	8 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	22 %	
Total Dispatch Down (%)	2030	8 %	9 %

*Table 2-48 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Lisheen*

## 2.13 Nenagh

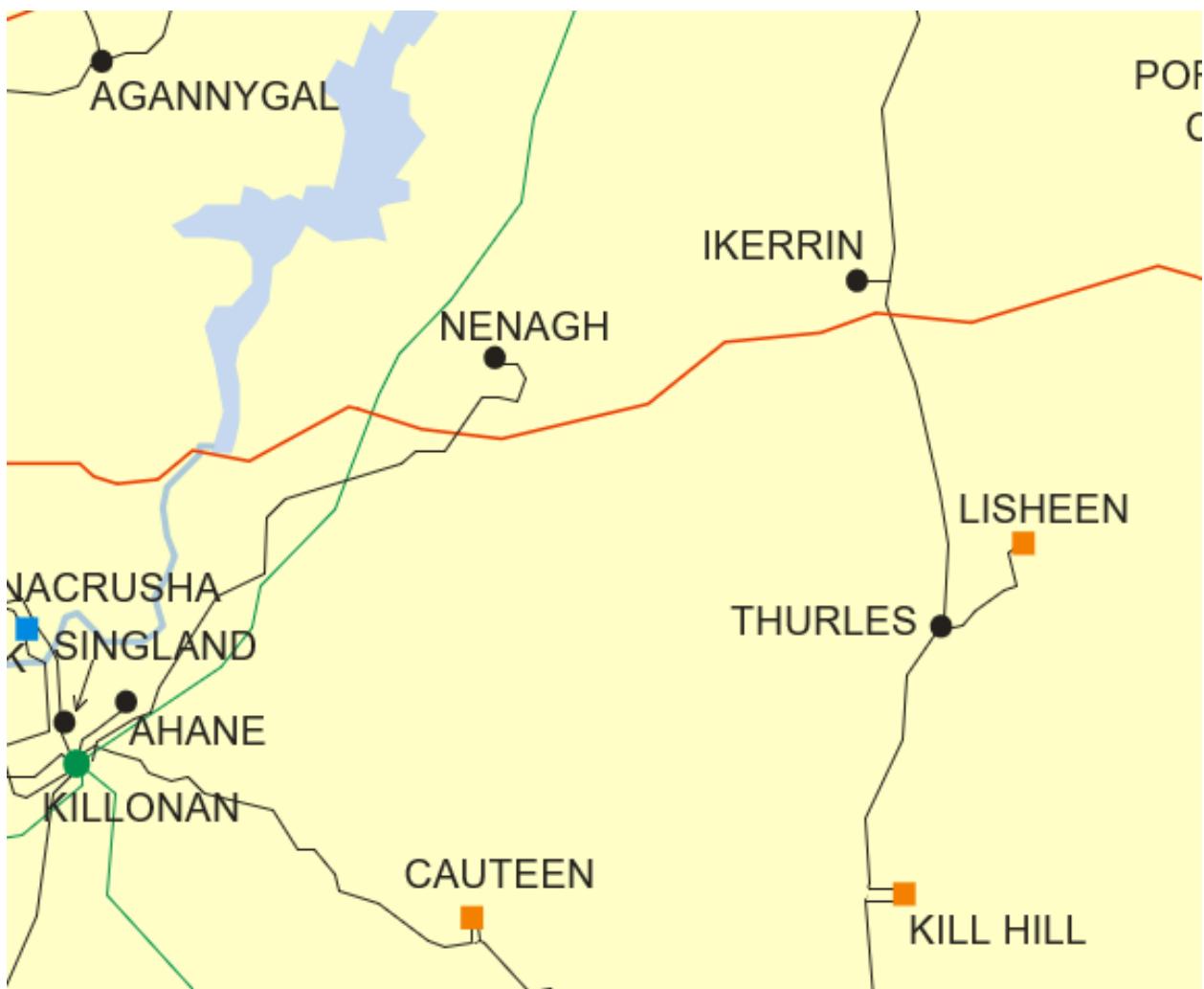


Figure 2-31 - Location of node Nenagh

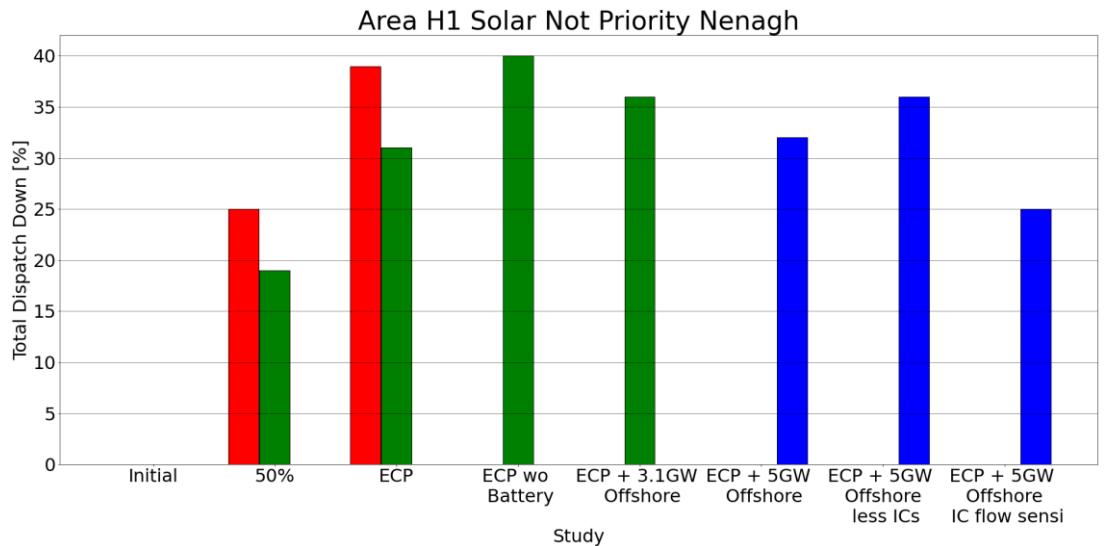
Generator	SO	Capacity	Type	Status
Ballinlough (1)	DSO	2.55	wind uncontrolled	connected
Ballinveny (1)	DSO	2.55	wind uncontrolled	connected
Curraghgraigue (1)	DSO	2.55	wind uncontrolled	connected
Templederry (1)	DSO	3.9	wind uncontrolled	connected
Curraghgraigue (2)	DSO	2.44	wind uncontrolled	connected
Lisbrien Solar Farm	DSO	4.0	solar not priority	due to connected
Debsborough Solar Farm	DSO	42.0	solar not priority	due to connected

Table 2-49 - Generation Included in Study for Node Nenagh

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

Area H1	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		23	46					
Installed Capacity (MW)	2030		23	46	46	46			
Installed Capacity (MW)	FG						46	46	46
Available Energy (GWh)	2028		27	54					
Available Energy (GWh)	2030		27	54	54	54			
Available Energy (GWh)	FG						54	54	54
Generation (GWh)	2028		20	33					
Generation (GWh)	2030		22	37	32	34			
Generation (GWh)	FG						37	35	40
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 2-50 - Surplus, Curtailment and Constraint for Solar non-priority for Node Nenagh



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

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	46	
Installed Capacity (MW)	2030	46	46
Available Energy (GWh)	2028	54	
Available Energy (GWh)	2030	54	54
Generation (GWh)	2028	33	
Generation (GWh)	2030	37	34
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

*Table 2-51 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Nenagh*

## 2.14 Springmount

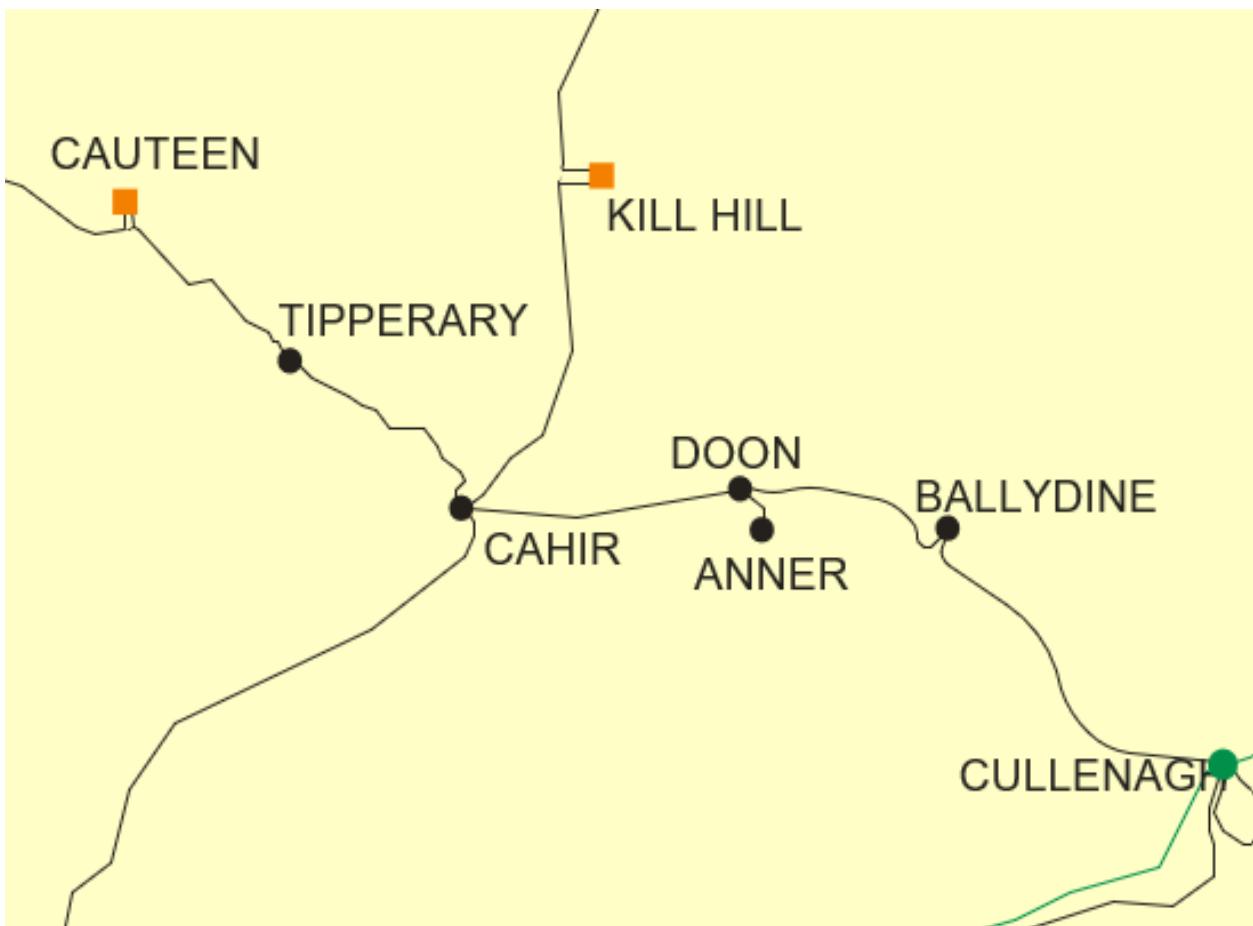


Figure 2-33 - Location of node Springmount (between Cahir and Doon)

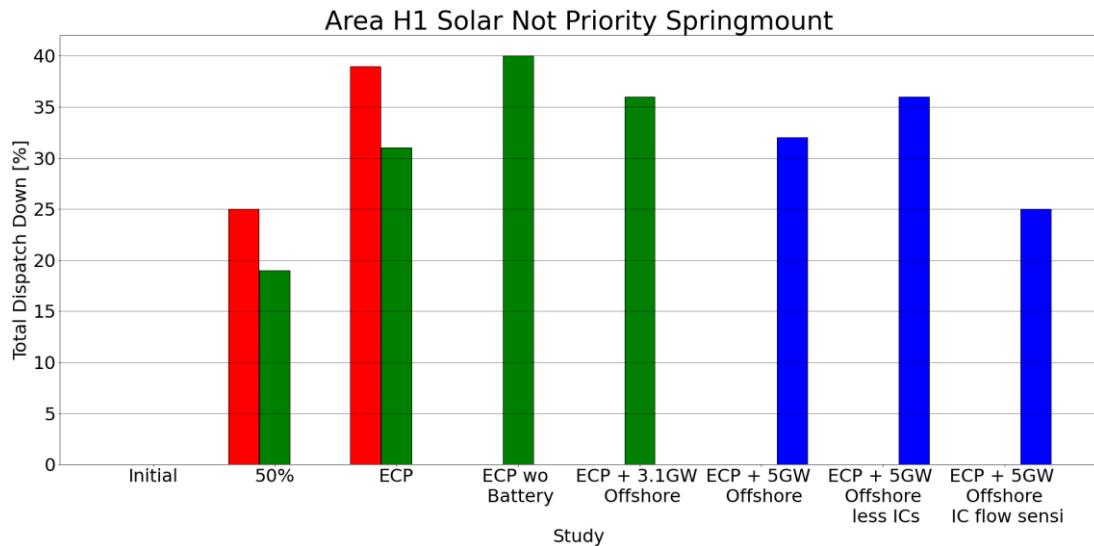
Generator	SO	Capacity	Type	Status
Springmount PV	TSO	125.0	solar not priority	due to connected

Table 2-52 - Generation Included in Study for Node Springmount

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

Area H1	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		38	76					
Available Energy (GWh)	2030		38	76	76	76			
Available Energy (GWh)	FG						76	76	76
Generation (GWh)	2028		29	47					
Generation (GWh)	2030		31	53	45	49			
Generation (GWh)	FG						52	49	57
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 2-53 - Surplus, Curtailment and Constraint for Solar non-priority for Node Springmount



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

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	65	
Installed Capacity (MW)	2030	65	65
Available Energy (GWh)	2028	76	
Available Energy (GWh)	2030	76	76
Generation (GWh)	2028	47	
Generation (GWh)	2030	53	49
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

*Table 2-54 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Springmount*

## 2.15 Thurles

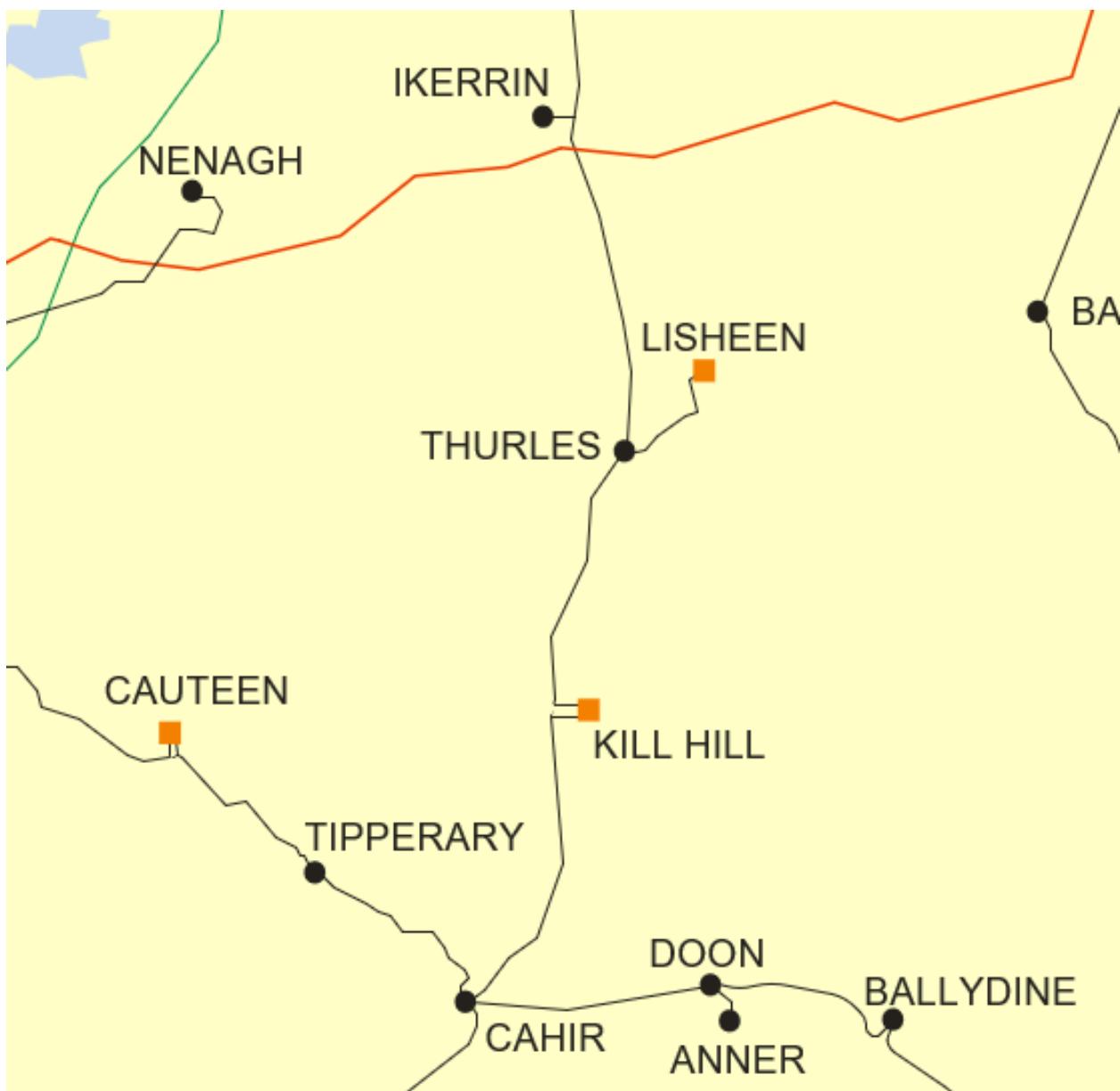


Figure 2-35 - Location of node Thurles

Generator	SO	Capacity	Type	Status
Ballinacurry WF	DSO	4.6	wind uncontrolled	connected
An Cnoc	DSO	11.5	wind priority	connected
Gurteen (1)	DSO	2.3	wind uncontrolled	connected
Foyle Windfarm	DSO	9.6	wind priority	connected
Ballybay Wind Farm (Tullaroan)	DSO	13.8	wind priority	connected
Liss Wind Farm	DSO	2.35	wind not priority	due to connected

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

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

Area H1	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		1	2					
Installed Capacity (MW)	2030		1	2	2	2			
Installed Capacity (MW)	FG						2	2	2
Available Energy (GWh)	2028		4	7					
Available Energy (GWh)	2030		4	7	7	7			
Available Energy (GWh)	FG						7	7	7
Generation (GWh)	2028		2	3					
Generation (GWh)	2030		2	5	4	4			
Generation (GWh)	FG						4	4	5
Surplus (%)	2028	23 %	29 %						
Surplus (%)	2030	25 %	31 %	37 %	45 %				
Surplus (%)	FG						36 %	41 %	23 %
Curtailment (%)	2028	5 %	5 %						
Curtailment (%)	2030	3 %	3 %	4 %	3 %				
Curtailment (%)	FG						2 %	2 %	2 %
Constraint (%)	2028	29 %	26 %						
Constraint (%)	2030	5 %	5 %	8 %	4 %				
Constraint (%)	FG						6 %	4 %	7 %
Total Dispatch Down (%)	2028	57 %	60 %						
Total Dispatch Down (%)	2030	33 %	39 %	48 %	52 %				
Total Dispatch Down (%)	FG						44 %	48 %	32 %

Table 2-56 - Surplus, Curtailment and Constraint for Wind non-priority for Node Thurles

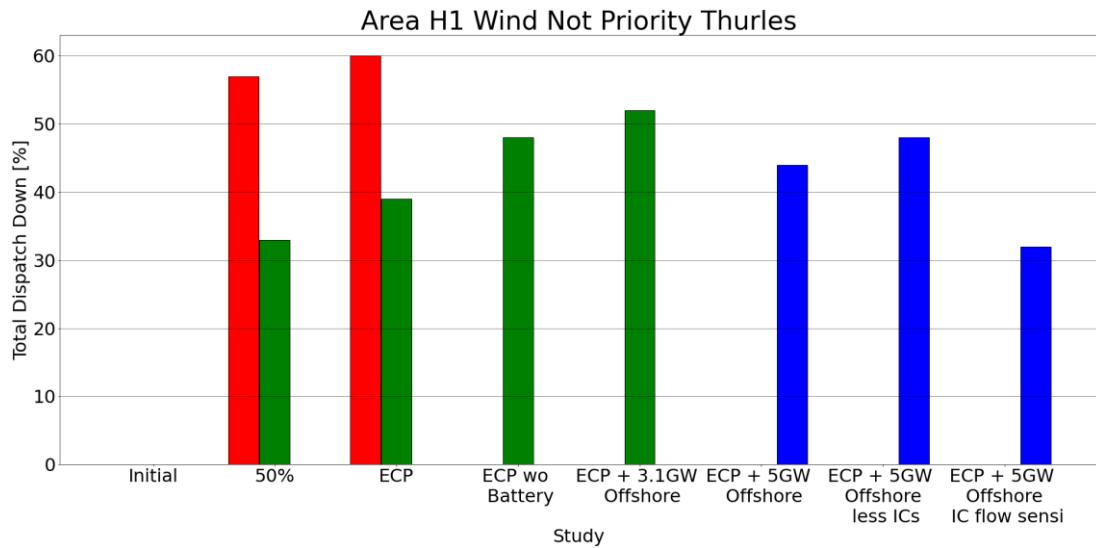


Figure 2-36 - Total Dispatch Down for Wind not priority for Node Thurles

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	2	
Installed Capacity (MW)	2030	2	2
Available Energy (GWh)	2028	7	
Available Energy (GWh)	2030	7	7
Generation (GWh)	2028	4	
Generation (GWh)	2030	5	4
Surplus (%)	2028	29 %	
Surplus (%)	2030	31 %	45 %
Curtailment (%)	2028	5 %	
Curtailment (%)	2030	3 %	3 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	45 %	
Total Dispatch Down (%)	2030	36 %	49 %

Table 2-57 - Surplus, Curtailment and Constraint for Wind non-priority with sensitivity for Node Thurles

The wind priority data is given in the following table.

Area H1	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	35	35	35					
Installed Capacity (MW)	2030	35	35	35	35	35			
Installed Capacity (MW)	FG						35	35	35
Available Energy (GWh)	2028	110	110	110					
Available Energy (GWh)	2030	110	110	110	110	110			
Available Energy (GWh)	FG						110	110	110
Generation (GWh)	2028	99	100	99					
Generation (GWh)	2030	102	103	103	100	101			
Generation (GWh)	FG						103	103	106
Surplus (%)	2028	0 %	0 %	0 %					
Surplus (%)	2030	0 %	0 %	0 %	0 %	0 %			
Surplus (%)	FG						0 %	0 %	0 %
Curtailment (%)	2028	10 %	10 %	10 %					
Curtailment (%)	2030	7 %	6 %	6 %	9 %	8 %			
Curtailment (%)	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 2-58 - Surplus, Curtailment and Constraint for Wind priority for Node Thurles

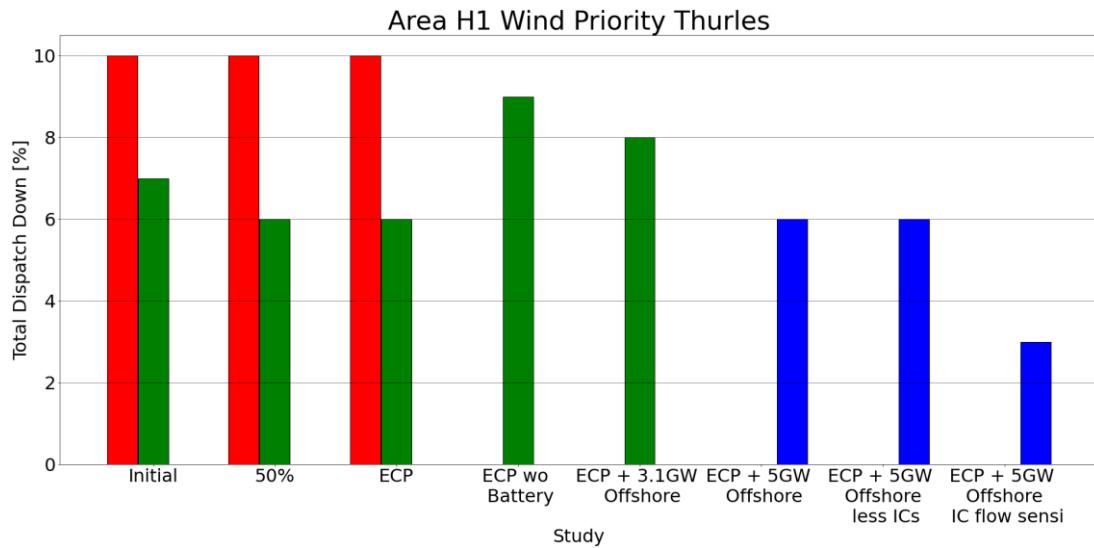


Figure 2-37 - Total Dispatch Down for Wind priority for Node Thurles

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	35	
Installed Capacity (MW)	2030	35	35
Available Energy (GWh)	2028	110	
Available Energy (GWh)	2030	110	110
Generation (GWh)	2028	87	
Generation (GWh)	2030	100	99
Surplus (%)	2028	0 %	
Surplus (%)	2030	0 %	0 %
Curtailment (%)	2028	10 %	
Curtailment (%)	2030	6 %	8 %
Constraint (%)	2028	11 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	22 %	
Total Dispatch Down (%)	2030	8 %	9 %

Table 2-59 - Surplus, Curtailment and Constraint for Wind priority with sensitivity for Node Thurles

## 2.16 Timoney

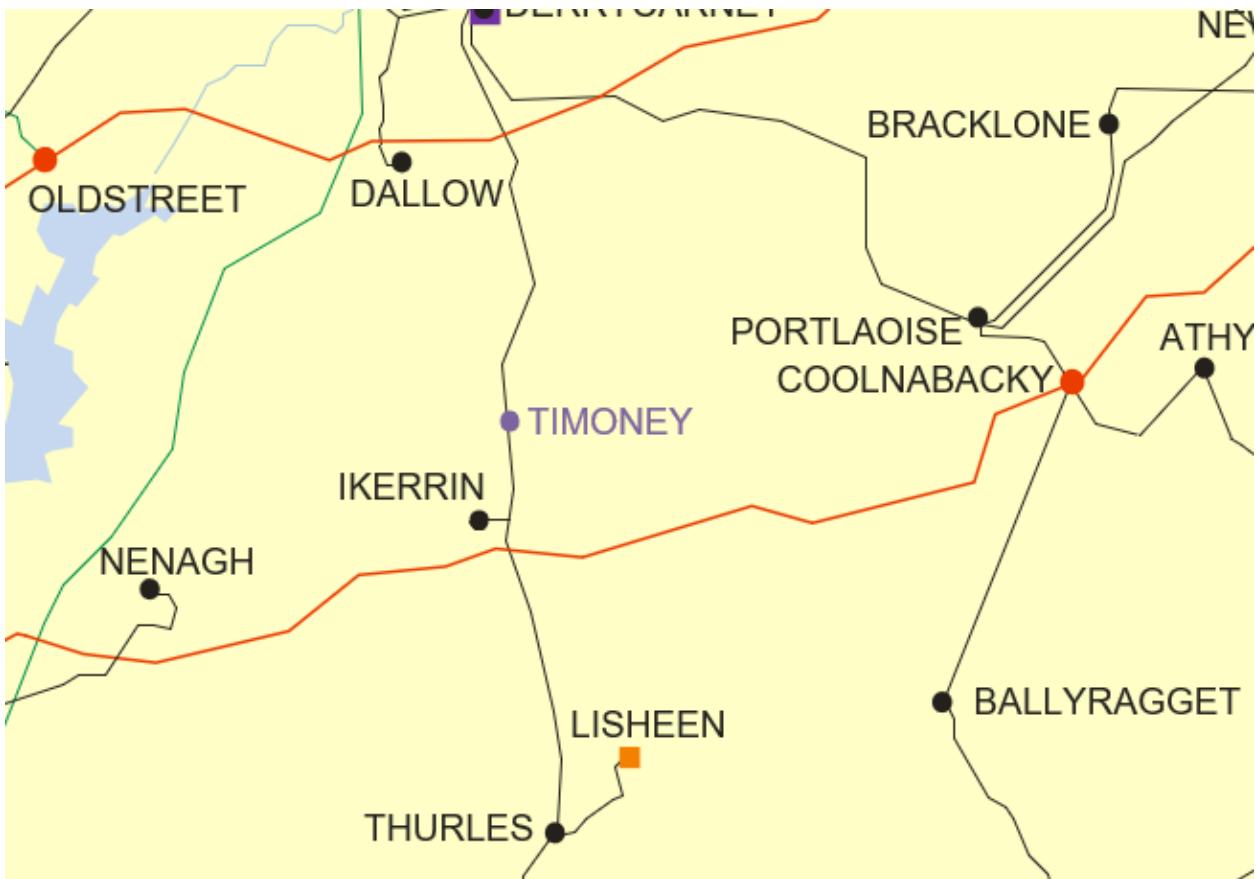


Figure 2-38 - Location of node Timoney

Generator	SO	Capacity	Type	Status
Erkina solar	TSO	66.56	solar not priority	due to connected
Erkina Solar Park Extension	TSO	90.0	solar not priority	due to connected
Erkina Solar ph2	TSO	15.0	solar not priority	due to connected

Table 2-60 - Generation Included in Study for Node Timoney

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

Area H1	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	157	164	172					
Installed Capacity (MW)	2030	157	164	172	172	172			
Installed Capacity (MW)	FG						172	172	172
Available Energy (GWh)	2028	184	192	201					
Available Energy (GWh)	2030	183	192	201	201	201			
Available Energy (GWh)	FG						201	201	201
Generation (GWh)	2028	156	145	123					
Generation (GWh)	2030	157	156	139	120	128			
Generation (GWh)	FG						136	129	150
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	3 %	8 %	10 %					
Constraint (%)	2030	4 %	2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028	15 %	25 %	39 %					
Total Dispatch Down (%)	2030	14 %	19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 2-61 - Surplus, Curtailment and Constraint for Solar non-priority for Node Timoney

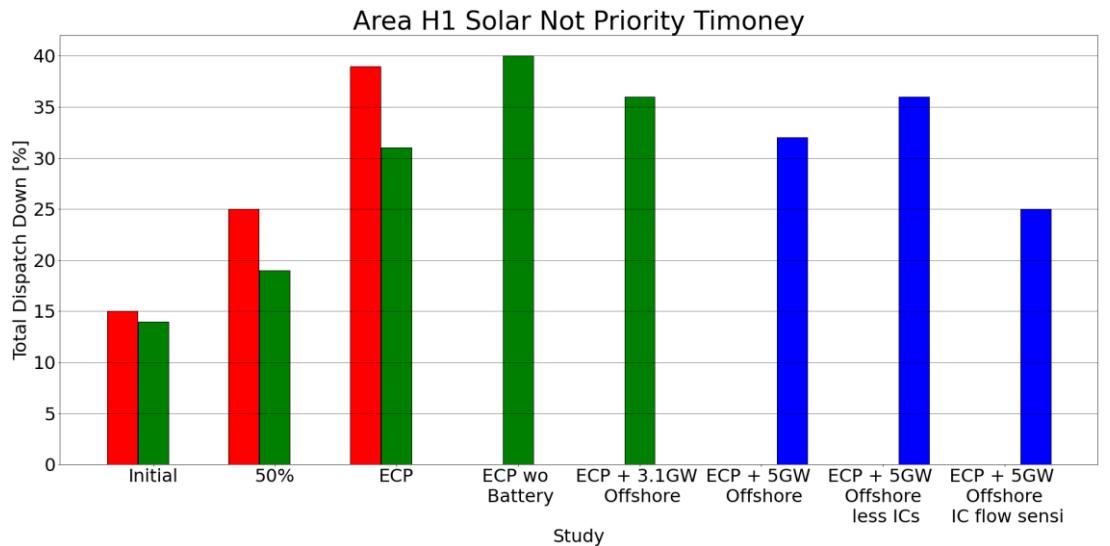


Figure 2-39 - Total Dispatch Down for Solar not priority for Node Timoney

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	172	
Installed Capacity (MW)	2030	172	172
Available Energy (GWh)	2028	201	
Available Energy (GWh)	2030	201	201
Generation (GWh)	2028	123	
Generation (GWh)	2030	139	128
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

Table 2-62 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Timoney

## 2.17 Tipperary

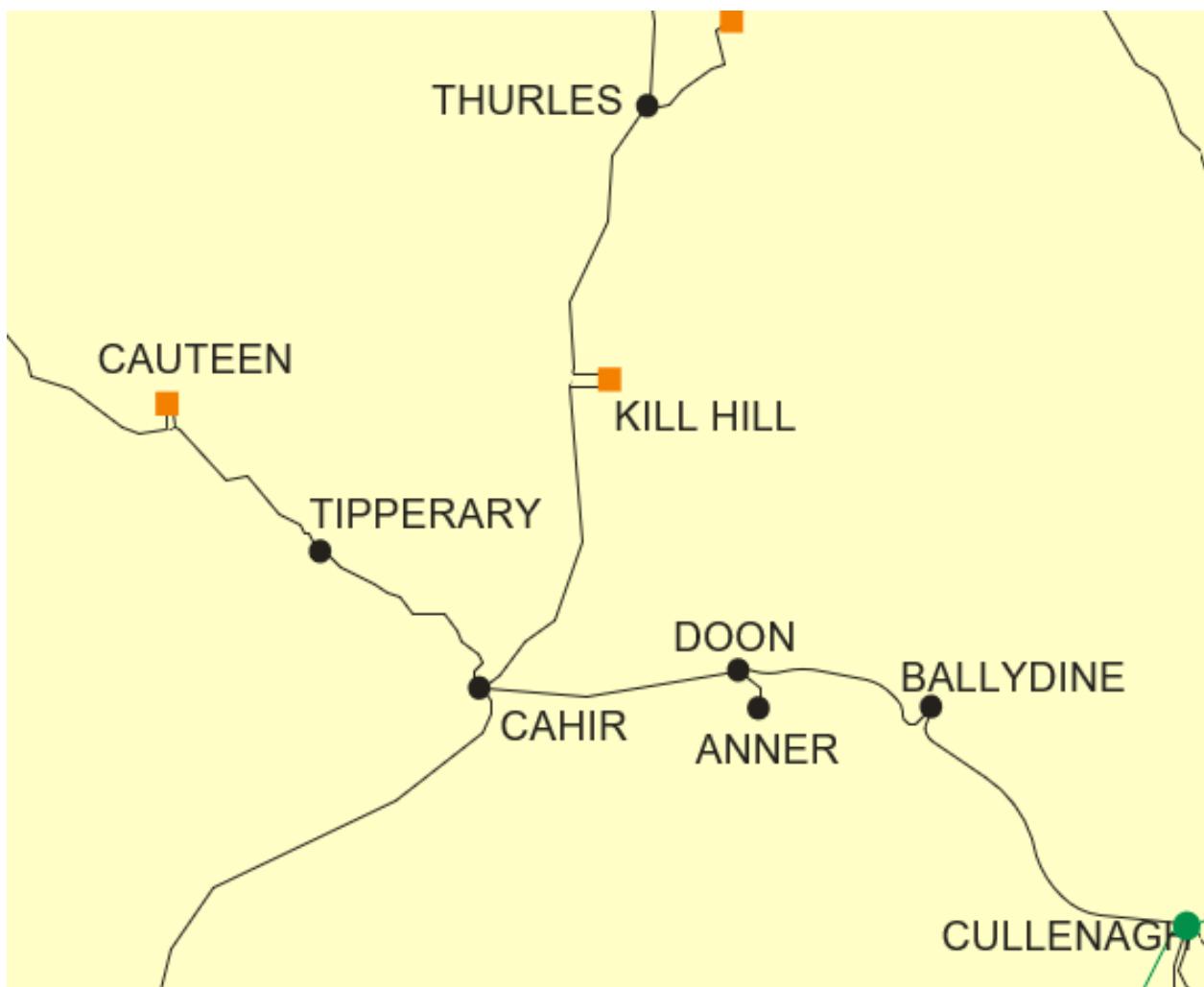


Figure 2-40 - Location of node Tipperary

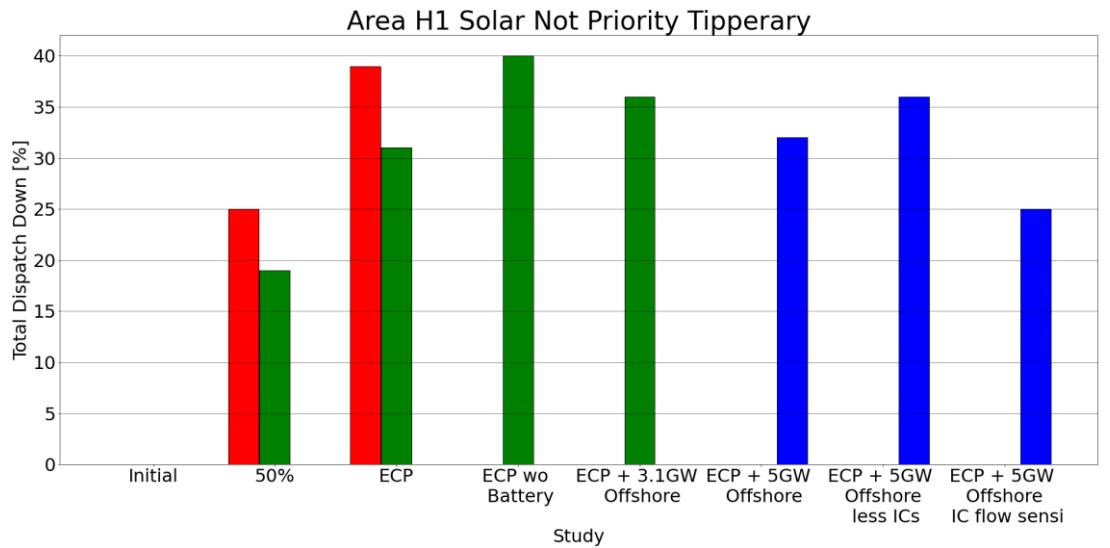
Generator	SO	Capacity	Type	Status
Slieveragh (1)	DSO	3.0	wind uncontrolled	connected
Slieveragh Wind Farm (2)	DSO	1.6	wind uncontrolled	connected
Ballinalard Solar Farm	DSO	4.0	solar not priority	due to connected
Rathduff Solar	DSO	25.0	solar not priority	due to connected

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

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

Area H1	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	29					
Installed Capacity (MW)	2030		14	29	29	29			
Installed Capacity (MW)	FG						29	29	29
Available Energy (GWh)	2028		17	34					
Available Energy (GWh)	2030		17	34	34	34			
Available Energy (GWh)	FG						34	34	34
Generation (GWh)	2028		13	21					
Generation (GWh)	2030		14	24	20	22			
Generation (GWh)	FG						23	22	25
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		8 %	10 %					
Constraint (%)	2030		2 %	2 %	3 %	2 %			
Constraint (%)	FG						7 %	4 %	6 %
Total Dispatch Down (%)	2028		25 %	39 %					
Total Dispatch Down (%)	2030		19 %	31 %	40 %	36 %			
Total Dispatch Down (%)	FG						32 %	36 %	25 %

Table 2-64 - Surplus, Curtailment and Constraint for Solar non-priority for Node Tipperary



*Figure 2-41 - Total Dispatch Down for Solar not priority for Node Tipperary*

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

Area H1	Year	ECP	ECP + 3.1GW Offshore
Installed Capacity (MW)	2028	29	
Installed Capacity (MW)	2030	29	29
Available Energy (GWh)	2028	34	
Available Energy (GWh)	2030	34	34
Generation (GWh)	2028	21	
Generation (GWh)	2030	24	22
Surplus (%)	2028	23 %	
Surplus (%)	2030	25 %	31 %
Curtailment (%)	2028	6 %	
Curtailment (%)	2030	4 %	4 %
Constraint (%)	2028	10 %	
Constraint (%)	2030	2 %	2 %
Total Dispatch Down (%)	2028	39 %	
Total Dispatch Down (%)	2030	31 %	36 %

*Table 2-65 - Surplus, Curtailment and Constraint for Solar non-priority with sensitivity for Node Tipperary*