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A specialist energy consultancy

Firm Access: Assessing the 2% Threshold for Ireland

Wind Energy Ireland

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COMMERCIAL IN CONFIDENCE

WIND ENERGY IRELAND

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Executive Summary

TNEI has carried out a study that explores the potential implications of the CRU Decision Paper 20231141, Firm Access - Detailed Methodology, whereby a firm access threshold of 2% constraint is applied across the entire transmission network in Ireland. WEI wanted to investigate the potential effects the firm threshold figure of 2% would have on renewable projects, and if a low threshold is detrimental to achieving our 2030 targets.

1.2 Study Methodology

Based on the methodology underpinning the recent EirGrid ECP 2.3 constraint reports, generation reduction for surplus and curtailment is applied prior to constraint. The focus of this particular study is on the calculation of wind and solar power reduction due to constraint.

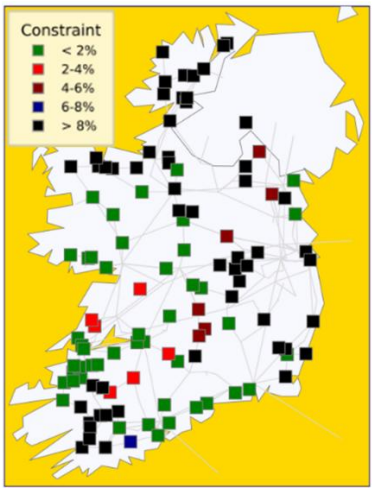
Three hypothetical 2030 scenarios are proposed to provide a range of possible generation constraint data. The first scenario explores the impact of no new network development, the second assumes all SOEF circuit uprates are in place and the third optimistically considers all SOEF projects to be completed. Using these three scenarios we can assess if the CRU decision of a 2% firm threshold poses a challenge to achieving the national 2030 targets.

The following three hypothetical 2030 scenarios are considered in this study:

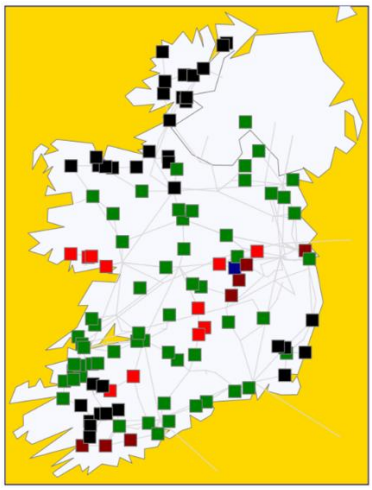
- **Scenario 1**: The existing network with projects close to completion.
- **Scenario 2**: The existing network with SOEF uprate projects in place.
- **Scenario 3**: The existing network with all SOEF projects in place.

1.3 Analysis results

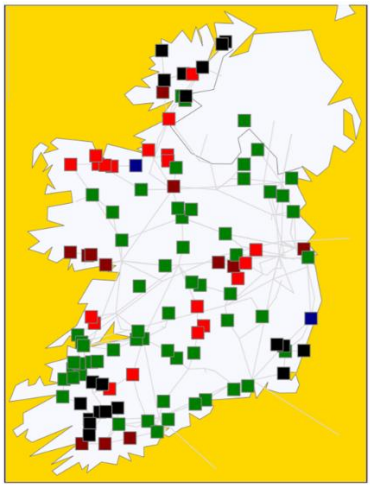
For each scenario, constraint levels are calculated for all solar and wind connections across the Ireland transmission network. Our analysis shows that SOEF has a positive impact on constraint but even with SOEF in place many nodes are still outside the 2% threshold.



Base Case – without SOEF



Base case – with SOEF uprates



Base case – with all SOEF

1.4 Implications of delayed SOEF works roll-out

The success of the SOEF initiative will significantly influence the constraint profile of renewable generation connections in the coming years. However, based on recent National Delivery Portfolio (NDP) reporting[1] many SOEF projects are delayed and are unlikely to be completed within the 2030 timeframe – resulting in a greater volume of connections experiencing constraint greater than 2%. Our study also doesn't consider ECP tranches of connections beyond Enduring Connection Policy (ECP) 2.3 – such connections will likely lead to further increases in levels of constraint.

1.5 Conclusion

The study demonstrates that the 2% threshold will not be a sufficient threshold to ensure renewable targets are achieved by 2030 given that the analysis does not include all renewable generation required to meet targets.

In addition, a number of SOEF works are at risk of not being in place by 2030, and the results show that not all areas will have constraints below the 2% threshold by 2030. Even in the scenario with all SOEF projects in place, the average constraint for wind generation is 3%. In particular, the results of the analysis indicate that the threshold may need to be significantly adjusted – to potentially greater than 7% to ensure correct signals are in place to allow developers to progress with confidence in developing required renewable projects.

[1] https://www.eirgrid.ie/grid/grid-reports-and-planning/network-delivery-portfolio

Contents

TABLES

APPENDICES

2 Introduction

2.1 Background

In response to the CRU publication of the CRU/2023114 decision paper[2] on Firm Access (detailed methodology), Wind Energy Ireland (WEI) have contracted TNEI Ireland to conduct a grid modelling study to identify potential implications of a 2% firm threshold – e.g., could the threshold impact decarbonisation targets.

TNEI performed a series of detailed constraint analyses for nodes across the entire Ireland network. This report details the results of these studies and provides discussion in relation to the implications of the CRU decision paper.

For avoidance of confusion, the following terms are used throughout the proposal:

- ***Constraint*** denotes wind and solar power reduction due to transmission network thermal overloading.
- ***Curtailment*** denotes wind and solar power reduction due to system-wide operational issues such as SNSP limit.
- ***Surplus*** *(Previously known as over-supply)* denotes wind and solar power reduction due to generation demand balance requirements.

Based on the methodology underpinning the recent updated Firm Access Methodology Review Paper, generation reduction for surplus and curtailment is applied prior to constraint. The study scope and methodology applied in this study calculated wind and solar power reduction due to surplus and curtailment in the first instance and then due to constraint. The focus of the study is on the calculation of wind power reduction due to constraint, some additional solar constraints were also investigated.

2.2 Study Scenarios

The following three hypothetical 2030 scenarios are considered in this study:

- **Scenario 1:** The existing network with projects close to completion.
- **Scenario 2:** The existing network with SOEF uprate projects in place.
- **Scenario 3:** The existing network with all SOEF projects in place.

[2] https://www.cru.ie/publications/27561/

3 Constraints Analysis Tool (CAT2)

Central to our study is the grid simulation engine required for constraint modelling – where the power system is modelled in a security constrained mode of operation.

Our in-house Constraint Analysis Tool (CAT2[3]) is used to determine dispatch down on the power systems in Ireland and Northern Ireland. We continually review, update and benchmark CAT2 as required to match procedures in the transmission system operator's (i.e., EirGrid and SONI) control rooms.

CAT2 carries out a complete security constrained simulation of the all-island power system – calculating detailed information on surplus, curtailment and constraint. The key strength of CAT2 is in determining constraint – i.e., due to transmission network limitations.

Rather than relying on a general optimisation procedure, an enhanced feature of CAT2 is in mimicking how the EirGrid and SONI Wind Dispatch Tool (WDT) manages dispatch down, particularly constraint:

- Renewable connections are grouped together depending on their effectiveness to alleviate potential thermal overloading on the transmission network.
- The effectiveness is a measure of the change in the renewable generation output relative to the change in the level of the network (e.g., a particular circuit) loading. This effectiveness is also commonly referred to as a shift factor.
- The system operator uses the constraint groups in the WDT to allow for the quick and appropriate application of generation constraint in real-time system operations.
- Constraint groups are implemented and applied in the study model, as per this system operator approach.

For clarity, the following terms are used throughout the study:

- ***Constraint*** denotes wind and solar power reduction due to transmission network thermal overloading.
- ***Curtailment*** denotes wind and solar power reduction due to system-wide operational limits such as the SNSP threshold.
- ***Surplus*** (formerly oversupply) denotes wind and solar power reduction due to generation demand balance requirements.

Under the EU's Clean Energy Package, it has been mandated that priority dispatch of renewable generation will continue to apply only to generators that have connected prior to the 4th July 2019 (Article 12). This creates a separate classification of generator for consideration in the dispatch process – the non-priority dispatch renewable generator that connects after 4th July 2019.

- During generation reduction for surplus reasons, a distinction is made between the treatment of priority and non-priority renewable generators, and non-priority generators are reduced ahead of priority generators. Within these two categories of generation, surplus is applied pro-rata across the all-island system for all generators in the category.
- During curtailment or constraint of renewable generation, no distinction is made between priority and non-priority generators, and dispatch down is applied pro-rata across either the

[3] CAT2 is developed in-house by TNEI using the Siemens Power System Simulator for Engineering (PSS®E) and Python scripting.

all-island system (in the case of curtailment), or across the relevant transmission nodes (in the case of constraint).

Based on the methodology underpinning the recent EirGrid ECP 2.3 constraint reports, generation reduction for surplus and curtailment is applied prior to constraint identification.

Therefore, CAT2 works by calculating renewable generation reduction due to surplus and curtailment in the first instance and then subsequently due to constraint. Even though surplus and curtailment are key aspects in the dispatch down of renewable generation, the focus of this particular study is on the calculation of power reduction due to constraint. The process of grandfathering of constraint has been excluded from the analysis as it does not align with the methodology adopted for the most recent firm access run[4]. The exact methodology and logic how the grandfathering approach will be implemented is still relatively ambiguous.

[4] cms.eirgrid.ie/sites/default/files/publications/Firm_Access_2024_Review_Final_Report_June_2024.pdf

4 Study Assumptions

This section outlines some of our key transmission network model assumptions.

4.1 Transmission network model

Our transmission network model aligns with the information published in the *All-Island Ten-Year Transmission Forecast Statement 2022-2031*. In building our three scenarios, EirGrid's Network Delivery Portfolio update (Q2 2024) and Shaping Our Electricity Futures (SOEF) v1.1 are used to define the planned future transmission projects.

4.2 HVDC interconnection

Four HVDC interconnectors are assumed – the existing Moyle and EWIC interconnectors to Great Britain as well as the Greenlink (to Great Britain) and Celtic (to France) interconnectors.

4.3 Wind and solar farm assumptions

All the onshore wind, offshore wind and solar farms in our all-island grid model are based on connection data described in the EirGrid ECP 2.3 constraint reports[5]. Hourly capacity factor data, defined in Appendix E, is based on the 2015 climate year.

4.4 Generation controllability

We assume that all solar and wind farms with an MEC greater than or equal to 1 MW are controllable. It was assumed that all solar and wind farms with a connection offer before 2015 with a MEC greater than or equal to 5 MW are controllable. Our controllability assumptions are provided in Appendix A and Appendix B.

4.5 Demand forecast

The demand forecast in our model is assumed to be the median forecast from EirGrid's Generation Capacity Statement 2023 – 2032. The annual demand TWh of All-Island for year 2030 is 54.9 TWh. The volume of Large Energy User (LEU) demand is projected to be 1,189 MW.

The distribution of electrical demand at each transmission station is based on the PSS®E models that correspond to the TYTFS. The annual system demand profile is distributed to each demand substation based on autumn, summer and winter distribution factors.

[5] https://www.eirgrid.ie/industry/customer-information/ecp-constraint-forecast-reports

4.6 Generation scheduling

Wind and solar generation categories are assumed to have priority to dispatch over other generators. The general merit order used for unit commitment and economic dispatch, after the priority dispatch of the solar and wind, can be found in Appendix C.

For each hour, the sum of total demand, total wind, total solar and total must-run conventional generation output is first determined. The net demand is subsequently calculated based on:

➔ net demand = [total demand] – [total wind + total solar + total must-run]

Generation units are committed from the top of the merit order list until a sufficient supply meets the net demand and reserve requirements.

4.7 Load flow approach

Our in-house CAT2 software application is a DC load flow power simulation tool, considering N (i.e., the intact network) and N-1 contingency analysis. The impact of maintenance outages (i.e., N-1-1 or N-G-1) are not considered in this study as they are not in EirGrid's 2024 firm access run.

4.8 Energy storage technology

Battery storage connections are not considered in our study. Turlough Hill is modelled to reflect the present operation of the facility.

5 Constraint analysis results

This section presents the results of our study for each of the three scenarios. Results are presented on a transmission station basis (in %) and on a regional basis (in GWh). Additional and more detailed information is available in the appendix sections. Some interpretation of the results is provided in Section 6 and in the Executive Summary.

For clarity, the following terms are used in this section:

- ***Constraint*** denotes wind and solar power reduction due to transmission network thermal overloading.
- ***Curtailment*** denotes wind and solar power reduction due to system-wide operational limits such as the SNSP threshold.
- ***Surplus*** denotes wind and solar power reduction due to generation demand balance requirements.

In all scenarios, wind generation experiences approximately 18% surplus and 4% curtailment in Ireland and Northern Ireland – relatively high levels that limit potentially larger constraint levels throughout the island. Surplus varies slightly between some scenarios. For example, the North South interconnector is not included in Scenarios 1 and 2 – hence our model assumes at least three conventional generation units in operation in Northern Ireland at all times. Whereas in Scenario 3, with the North South Interconnector in place, our model assumes a single must-run conventional plant in operation in Northern Ireland. Hence with less surplus, but with all SOEF in place, constraint for some locations can slightly increase.

The main drivers of surplus are offshore wind generation and solar generation. On average, surplus in Ireland reaches approximately 650 MW/hour throughout our study year. This breaks down to 550 MW/hour for wind and 100 MW/hour for solar.

Secondary to our study, but modelled to the same level of precision, is an examination of solar farm projects. Our study shows that solar farm connections experience approximately 11% surplus and 2% curtailment.

Lastly, a consistent characteristic of our model is a relatively large level of constraint experienced by renewable connections in the south-west region. This is driven by high renewable generation output, large exports on the Celtic and Greenlink interconnectors, no conventional generation scheduled in the south, and the outage of key 220 kV circuits (such as Clashavoon – Knockraha 220 kV) overloading the underlying 110 kV network.

5.1 Scenario 1 – The existing network with infrastructure projects near completion

5.1.1 Nodal wind constraint

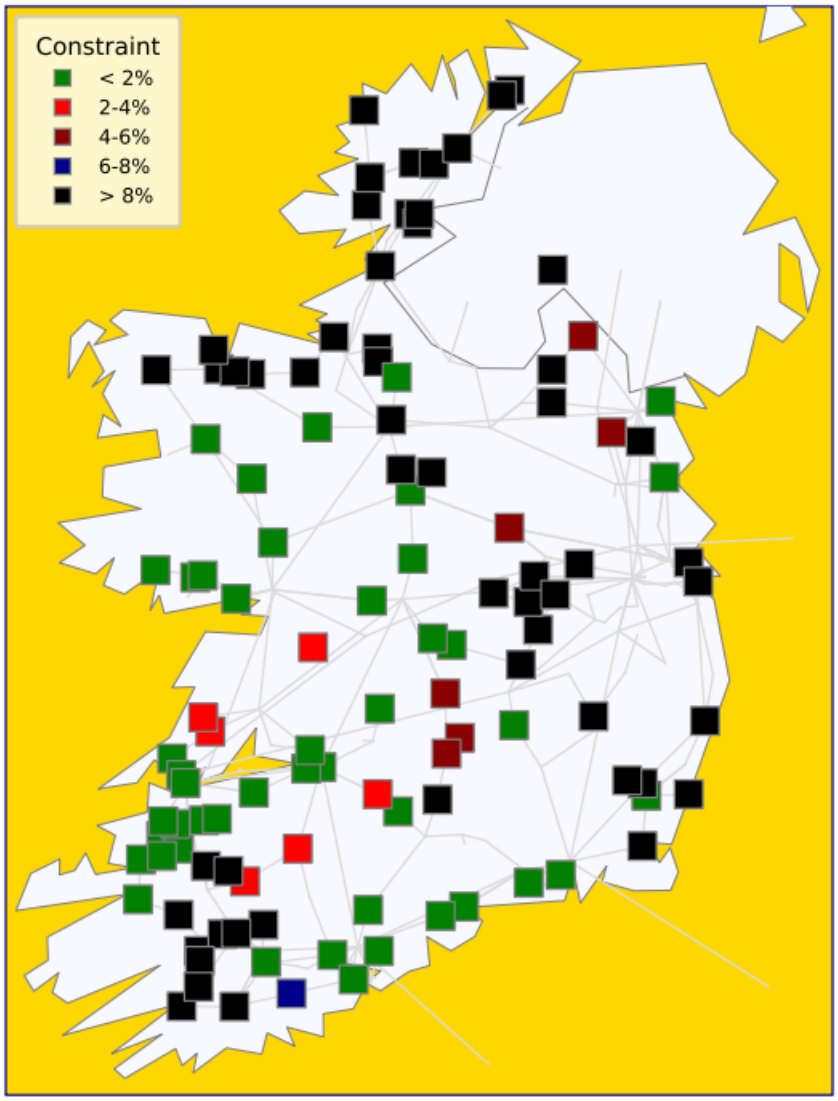


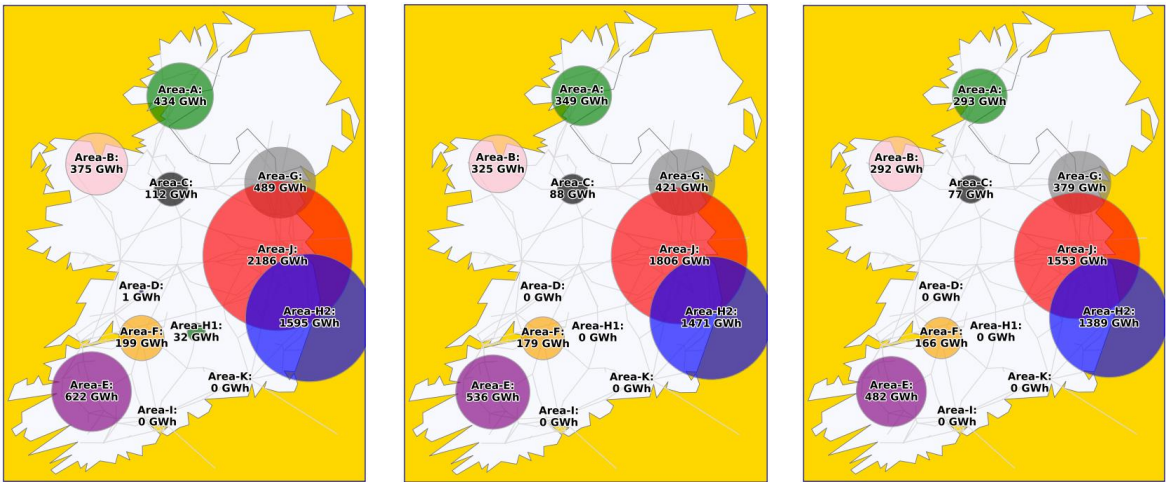
Figure 5.1 - Wind farm constraint levels for the existing network

This scenario describes a future where grid development fails to keep pace with new renewable generation connections, and constraint therefore increases significantly beyond 2% for most connection through all parts of the transmission network – in particular, in the north-west and mid-east regions.

Figure 5.1 shows the variation in percentage constraint levels throughout the Ireland transmission network. On average constraint for wind generation is approximately 12%.

5.1.2 Regional wind constraint

This section considers the regional volume of onshore and offshore wind constraint throughout the study year for Scenario 1. Few areas experience zero constraint on the unreinforced transmission network. The Area J region is the most impacted part of the network followed closely by the south-east region. Figure 5.2 and Table 1 provide the data in graphic and tabular forms respectively.



(A) >2% (B) >5% (C) >7%

Figure 5.2 - Annual regional constraint exceeding A) 2%, B) 5% and C) 7% for the existing network

Table 1 – Annual regional wind constraint for the existing network

Area	Wind Generation (MW) per ECP2.3 constraint reports	>2% (GWh)	>5% (GWh)	>7% (GWh)
A	1,127.30	434.8	349.8	293.2
B	1,075.30	375.0	325.3	292.1
C	446.00	112.0	88.1	77.3
D	416.20	1.7	0.0	0.0
E	1,621.50	622.5	536.3	482.9
F	256.00	199.4	179.3	166.1
G	285.00	489.9	421.0	379.2
H1	622.00	32.7	0.0	0.0
H2	572.60	1595.7	1471.8	1389.2
I	9	0.0	0.0	0.0
J	518	2186.3	1806.7	1553.6
K	6	0.0	0.0	0.0

5.1.3 Nodal solar constraint

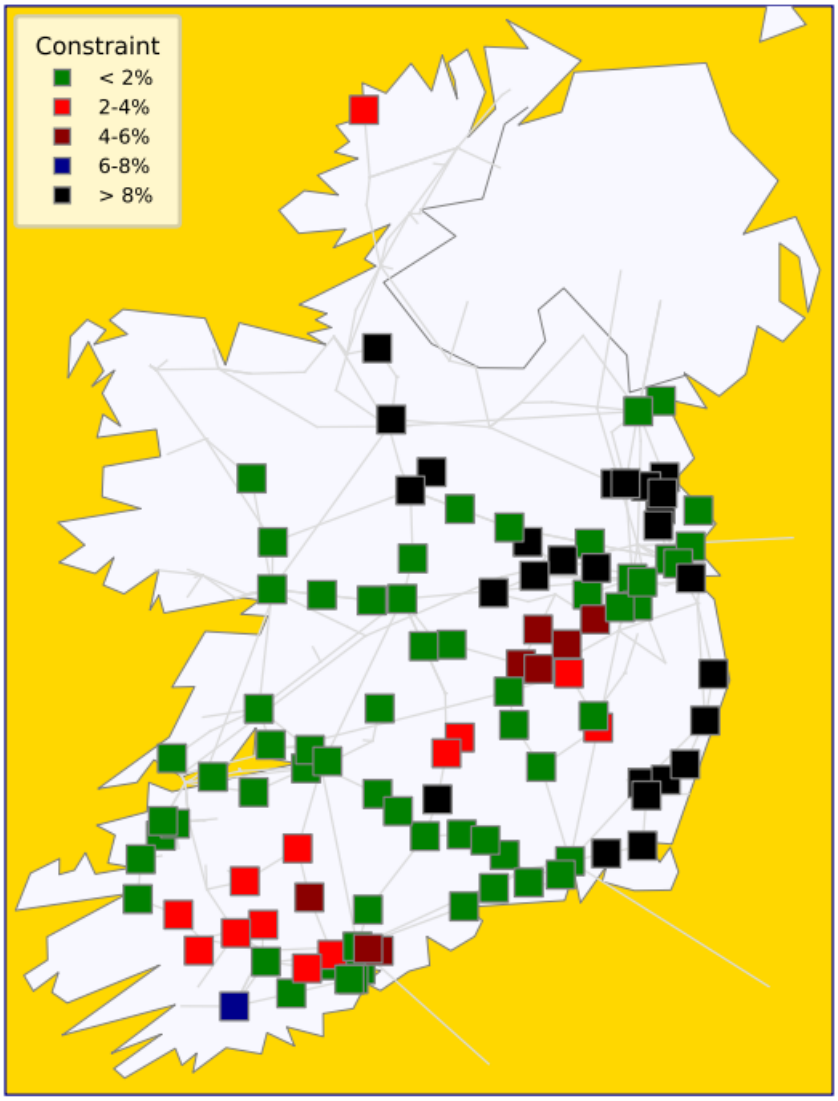


Figure 5.3 - Solar farm constraint levels for the existing network

Figure 5.3 shows the equivalent solar farm constraint data for Scenario 1. The mid-east and south-east regions experience the highest levels of constraint. On average constraint for solar generation is approximately 10%.

5.2 Scenario 2 – The existing network with SOEF uprates

5.2.1 Nodal wind constraint

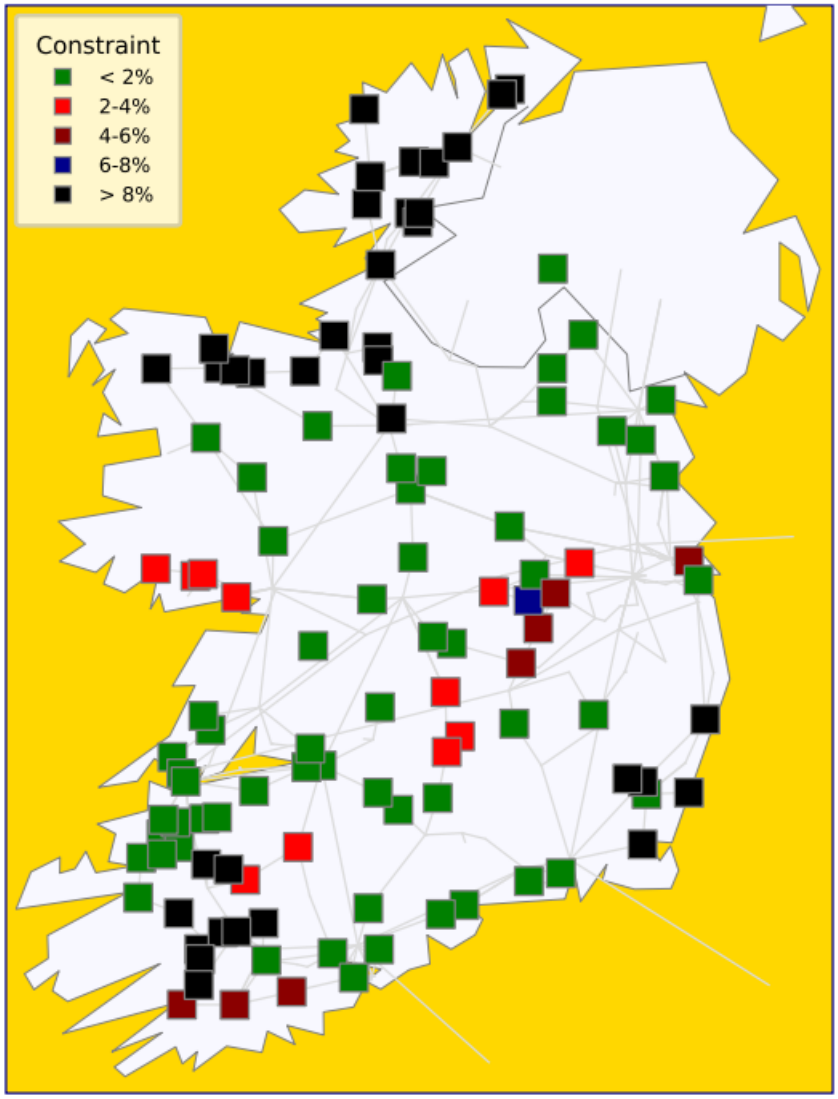


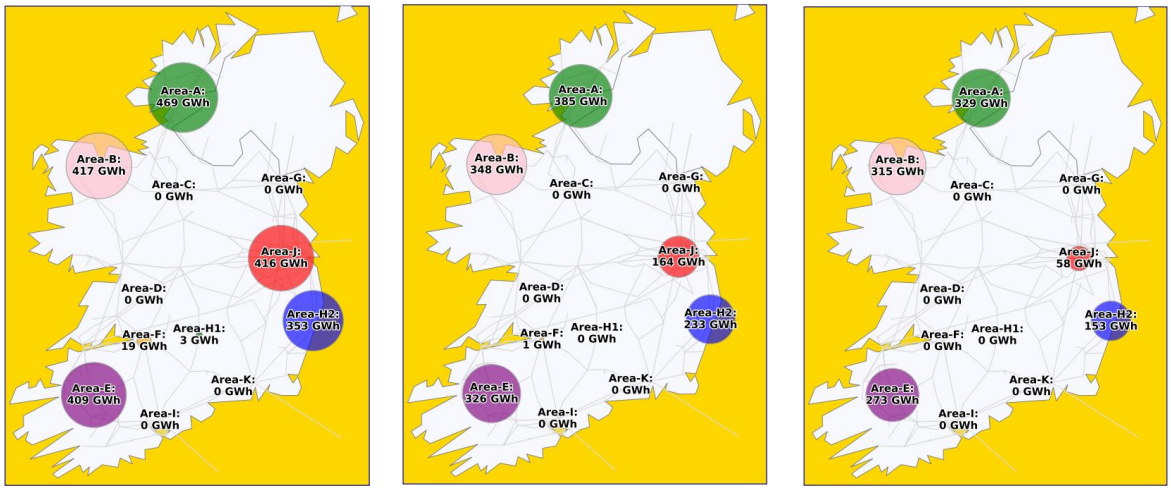
Figure 5.4 – Wind farm constraint levels for the existing network with SOEF uprates

Scenario 2 reflects a transmission network reinforced with SOEF uprates – and assumes that new-build projects are not yet in place. A list of these uprates is provided in Appendix E.

The results of our analysis shows that the north-west region still experiences considerable generation constraint – but other regions, in particular the midlands region, begin to show improvement.

Figure 5.4 shows the variation in percentage constraint levels throughout the Ireland transmission network. On average constraint for wind generation is approximately 6%.

5.2.2 Regional wind constraint



(A) >2% (B) >5% (C) >7%

Figure 5.5 - Annual regional constraint exceeding A) 2%, B) 5% and C) 7% for the existing network with SOEF uprates

This section considers the regional volume of onshore and offshore wind constraint throughout the study year in Scenario 2. The inclusion of numerous circuit uprates significantly improves the volume of constraint. Figure 5.5 and Table 2 provide the data in graphic and tabular forms respectively.

Table 2 – Annual regional wind constraint for the existing network with SOEF uprates

Area	Wind Generation (MW) per ECP2.3 constraint reports	>2% (GWh)	>5% (GWh)	>7% (GWh)
A	1,127.30	469.9	385.9	329.8
B	1,075.30	417.3	348.7	315.5
C	446.00	0.0	0.0	0.0
D	416.20	0.0	0.0	0.0
E	1,621.50	409.3	326.9	273.5
F	256.00	19.5	1.3	0.0
G	285.00	0.0	0.0	0.0
H1	622.00	3.8	0.0	0.0
H2	572.60	353.7	233.3	153.1
I	9	0.0	0.0	0.0
J	518	416.5	164.1	58.3
K	6	0.0	0.0	0.0

5.2.3 Nodal solar constraint

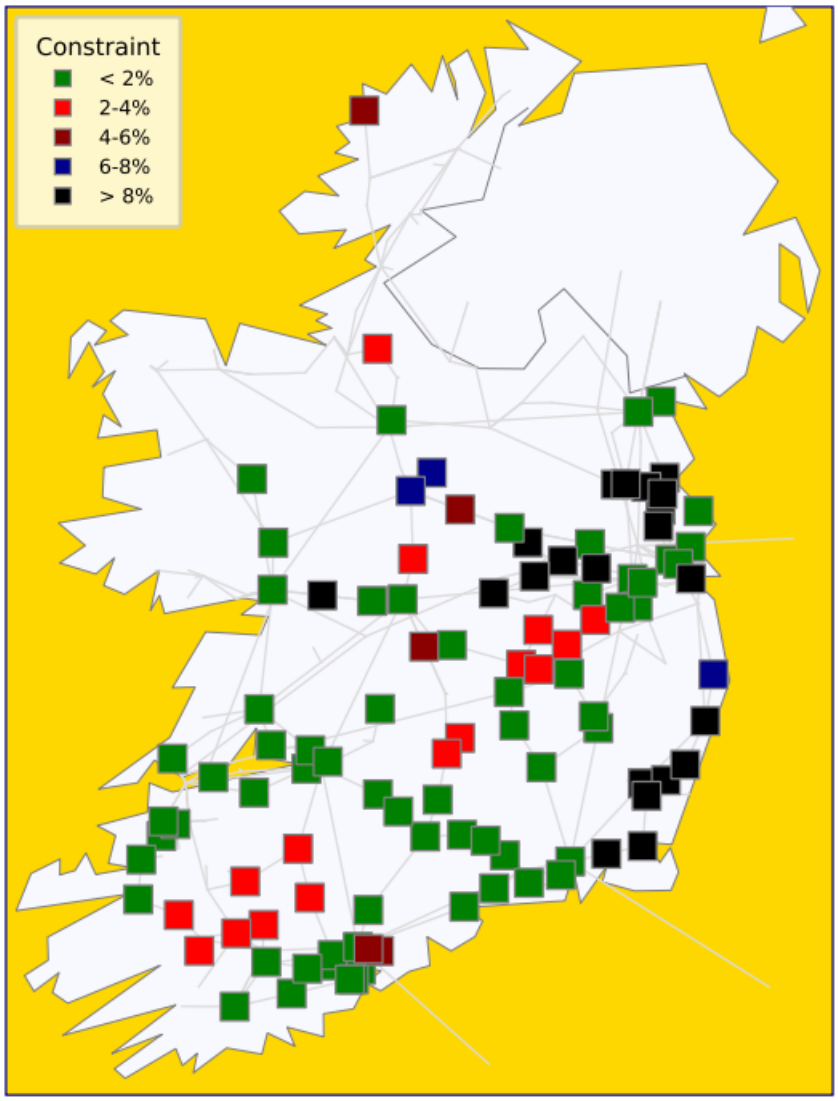


Figure 5.6 - Solar farm constraint levels for the existing network with SOEF uprates

Figure 5.6 shows the equivalent solar farm constraint data from Scenario 2, where surplus is approximately 12% and curtailment reaches approximately 3% and the average solar constraint is approximately 6%.

In comparison to Scenario 1, the SOEF uprates broadly improve the constraint levels. However high constraint levels are still apparent throughout the network – such as in the mid-east and along the south-east corridor.

5.3 Scenario 3 – The existing network with all SOEF projects

5.3.1 Nodal wind constraint

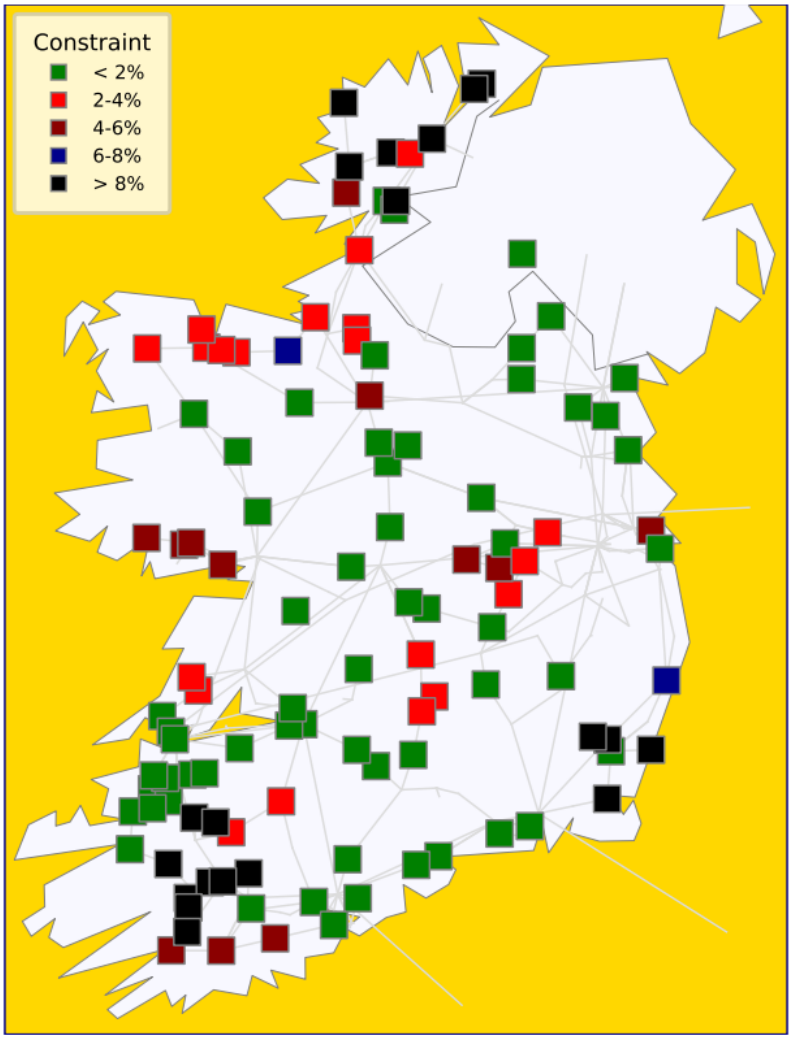


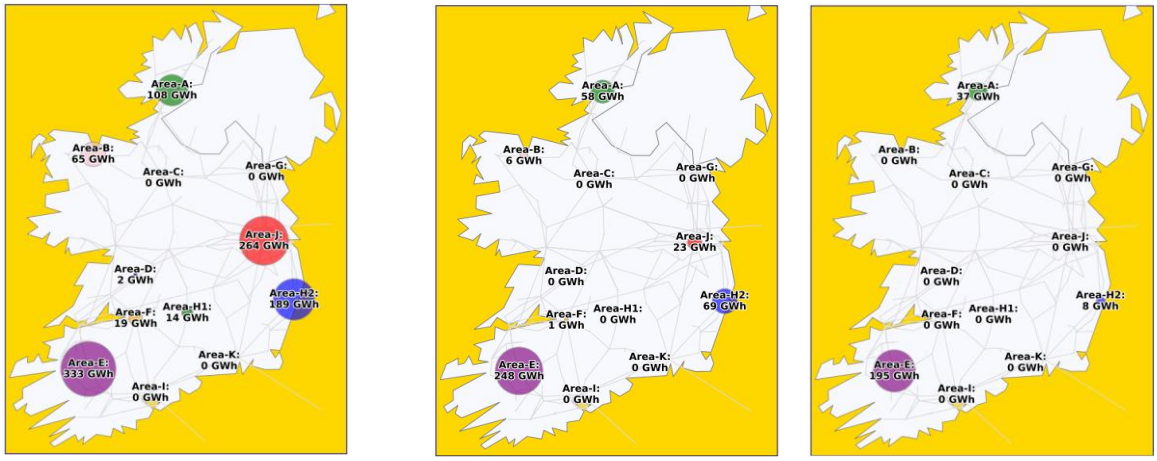
Figure 5.7 - Wind farm constraint levels for the existing network with all SOEF projects

Scenario 3 reflects a transmission network that is reinforced with all SOEF uprate and new-build projects. A list of these uprates are provided in Appendix F.

The results of our analysis show that the north-west region still experiences some generation constraint – but other regions, in particular the midlands region, begin to show improvement.

Figure 5.7 shows the variation in percentage constraint levels throughout the Ireland transmission network. On average constraint for wind generation is approximately 3%.

5.3.2 Regional wind constraint



(A) >2% (B) >5% (C) >7%

Figure 5.8 - Annual regional constraint levels exceeding: A) 2%, B) 5% and C) 7% for the existing network with all SOEF projects

This section considers the regional volume of onshore and offshore wind constraint throughout the study year in Scenario 3. Nearly all regions experience a very low level of constraint Figure 5.8 and Table 3 provide the data in graphic and tabular forms respectively.

Table 3 - Annual regional wind constraint for the existing network with all SOEF projects

Area	Wind Generation (MW) per ECP2.3 constraint reports	>2% (GWh)	>5% (GWh)	>7% (GWh)
A	1,127.30	108.3	58.8	37.3
B	1,075.30	65.8	6.4	0.0
C	446.00	0.0	0.0	0.0
D	416.20	2.1	0.0	0.0
E	1,621.50	333.1	248.7	195.3
F	256.00	19.9	1.9	0.0
G	285.00	0.0	0.0	0.0
H1	622.00	14.0	0.0	0.0
H2	572.60	189.7	69.4	8.7
I	9	0.0	0.0	0.0
J	518	264.2	23.0	0.0
K	6	0.0	0.0	0.0

5.3.3 Nodal solar constraint

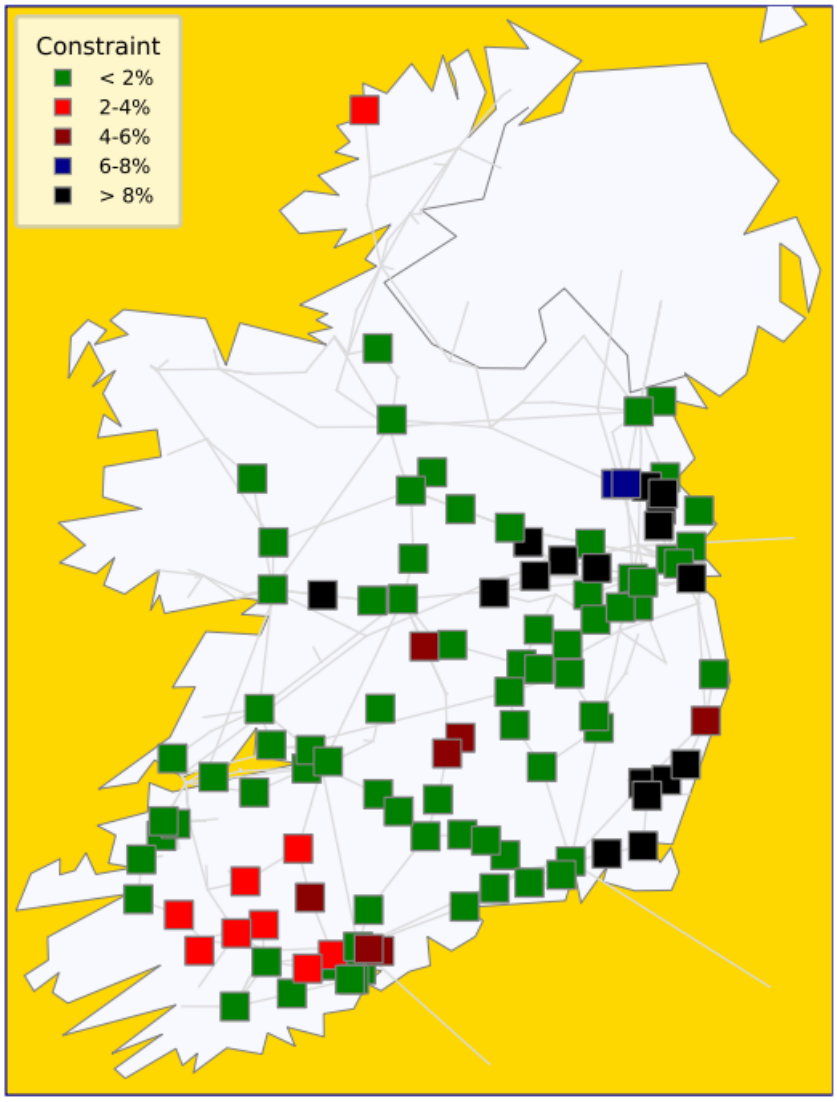


Figure 5.9 - Solar farm constraint levels for the existing network with all SOEF projects

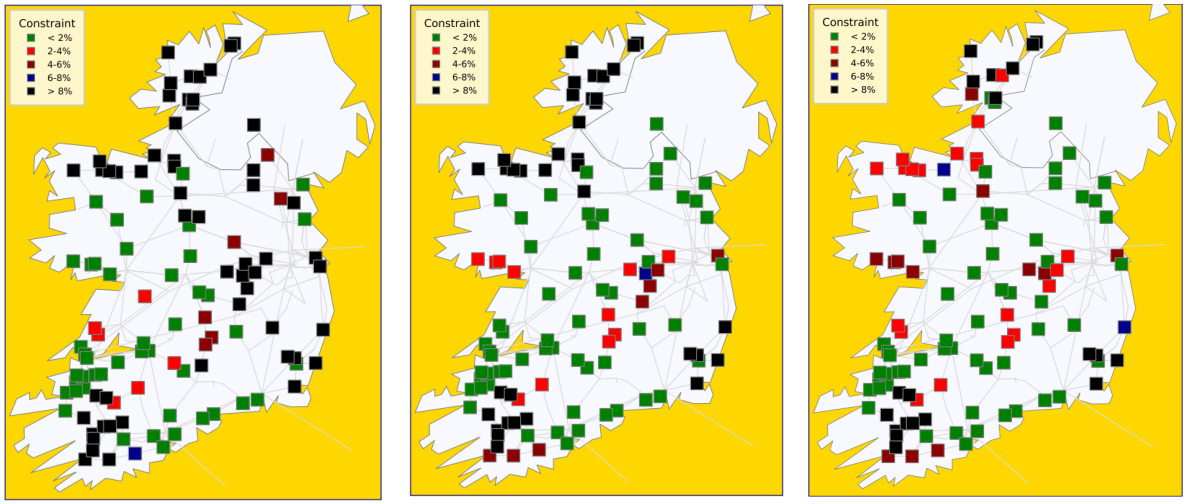
As in the wind case, solar constraints are greatly improved by the inclusion of all the SOEF network upgrades. Almost all nodes have their constraint levels reduced to below 2% – the average solar constraint is approximately 4%.

The exceptions being central Kerry/Cork region and around the north of the mid-east region. This is likely due to the complexity of the network in this region between conventional generators, offshore, and interconnectors interacting around this area.

6 Conclusions

Our analysis has shown the benefit of how future network projects will reduce generation constraint. It also shows the requirement for further network reinforcement projects – because our study omits the impact of maintenance outages and does not consider generation connections beyond ECP 2.3.

High surplus is a characteristic of our model and results in lowering constraint levels throughout the all-island power system. A delay in offshore wind connections (or in some of the solar farm volume) will increase our calculated constraint levels.



(A) Existing network **(B) Existing network with SOEF Uprates** **(C) Existing network with all SOEF projects**

Figure 6.1 Wind Constraint Level per node

Appendix A - Wind farm descriptions

Table 4 - Wind Farm list considered in Areas A, B, C, D, E, F, G, H1, H2, I, J, K

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
D	Carrownagowan Wind Farm	Ardnacrusha	91.2	wind not priority	Y
D	Knockastanna (1)	Ardnacrusha	8.0	wind priority	Y
A	Cronalaght (1)	Ardnagappary	5.0	N/A	N
A	Cronalaght (2)	Ardnagappary	18.0	wind not priority	Y
A	Corrie Mountain (1)	Arigna	5.0	N/A	N
A	Kilronan (1)	Arigna	5.0	N/A	N
A	Seltanaveeny (1)	Arigna	5.0	N/A	N
A	Spion Kop (1)	Arigna	1.0	N/A	N
H2	Arklow Bank (1)	Arklow	25.0	wind priority	Y
H2	Ballycumber (1)	Arklow	18.0	wind priority	Y
H2	Ballymanus Wind Farm	Arklow	40.0	wind not priority	Y
H2	Raheenleagh (1)	Arklow	35.0	wind priority	Y
E	Athea (1)a	Athea	34.0	wind priority	Y
E	Beenanaspock and Tobertooreen Wind Farm	Athea	23.0	wind not priority	Y
C	Clooncon East Single WTG	Athlone	1.0	wind not priority	Y
F	Ballybane (Glanta Commons) Wind Farm	Ballylickey	20.0	wind priority	Y
F	Ballybane 2 (Glanta Commons) Wind Farm	Ballylickey	8.0	wind priority	Y
F	Ballybane 2A	Ballylickey	12.0	wind priority	Y
F	Ballybane 2A (Glanta Commons) Wind Farm Extension	Ballylickey	2.0	N/A	N
F	Ballybane 3 (Glanta Commons) Wind Farm	Ballylickey	4.0	N/A	N
F	Curraglass Wind Farm	Ballylickey	42.0	wind not priority	Y
F	Derreenacrinnig West (prev Kilvinane 2 WF)	Ballylickey	6.0	wind not priority	Y
F	Kealkil (Curraglass) (1)	Ballylickey	9.0	wind priority	Y
H2	Pinewoods wind	Ballyragget	50.0	wind not priority	Y
E	Knocknamork wind	Ballyvouskil 220	42.0	wind not priority	Y
H2	Ballywater (1)	Ballywater	32.0	wind priority	Y
H2	Ballywater (2)	Ballywater	11.0	wind priority	Y
F	Garranereagh (1)	Bandon	9.0	wind priority	Y
F	Kilvinane (1)	Bandon	5.0	N/A	N
I	DePuy	Barnahely	3.0	N/A	N
I	DePuy Synthes Turbine2	Barnahely	1.0	N/A	N
I	Wind Energy Project (Janssen)	Barnahely	2.0	N/A	N
H1	Barranafaddock (1)	Barrymore	32.0	wind priority	Y
B	Bellacorick (1)	Bellacorick	6.0	wind priority	Y
B	Bunnahowen (1)	Bellacorick	3.0	N/A	N
B	Corvoderry (was Gortnahurra (1))	Bellacorick	34.0	wind not priority	Y
B	Dooleeg More (1)	Bellacorick	3.0	wind not priority	Y
B	Dooleeg More Ext.	Bellacorick	1.0	wind not priority	Y
B	Oweninny 3 (Previously Oweninny 5)	Bellacorick	50.0	wind not priority	Y
B	Oweninny Power (1)	Bellacorick	89.0	wind not priority	Y
B	Oweninny Power (2)	Bellacorick	83.0	wind not priority	Y
B	Sheskin (1)	Bellacorick	33.0	wind not priority	Y
A	Altcor Wind Farm	Binbane	9.0	wind not priority	Y

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A	Bradán Wind Farm (Killybegs Community Wind Turbine)	Binbane	4.0	wind not priority	Y
A	Clogheravaddy Wind Farm (Phase 1)	Binbane	9.0	wind not priority	Y
A	Clogheravaddy Wind Farm (Phase 2)	Binbane	11.0	wind not priority	Y
A	Clogheravaddy Wind Farm (Phase 3)	Binbane	4.0	wind not priority	Y
A	Coguish Wind Turbine	Binbane	2.3	wind not priority	Y
A	Corkermore (1)	Binbane	10.0	wind priority	Y
A	Corkermore (2)	Binbane	9.0	wind not priority	Y
A	Killin Hill (1)	Binbane	6.0	wind priority	Y
A	Killybegs (1)	Binbane	3.0	N/A	N
A	Loughderryduff (1)	Binbane	8.0	wind priority	Y
A	Meenachullalan (1)	Binbane	12.0	wind priority	Y
A	Meenachullalan (2)	Binbane	2.0	N/A	N
A	Shannagh (1) previously Kilcar	Binbane	3.0	N/A	N
E	Boggeragh (1)	Boggeragh	57.0	wind priority	Y
E	Boggeragh 2	Boggeragh	66.0	wind priority	Y
E	Boggeragh 2 (Killavoy (1))	Boggeragh	18.0	wind priority	Y
E	Carrigcannon (1)	Boggeragh	20.0	wind priority	Y
E	Carrigcannon (2)	Boggeragh	3.0	wind not priority	Y
E	ESK Wind Farm Phase 2	Boggeragh	12.0	wind not priority	Y
E	Esk (1)	Boggeragh	6.0	wind priority	Y
E	Esk Wind Farm (sub metered Gneeves 2 Merge)	Boggeragh	5.0	wind not priority	Y
D	Booltiagh (1)	Booltiagh	19.0	wind priority	Y
D	Booltiagh (2)	Booltiagh	3.0	wind priority	Y
D	Booltiagh (3)	Booltiagh	9.0	wind priority	Y
D	Boolynagleragh (1)	Booltiagh	37.0	wind not priority	Y
D	Cahermurphy (1)	Booltiagh	6.0	wind not priority	Y
D	Crossmore (1)	Booltiagh	15.0	wind not priority	Y
D	Crossmore (2)	Booltiagh	10.0	wind not priority	Y
D	Gortaheera CM2 Windfarm	Booltiagh	4.0	wind not priority	Y
D	Kiltumper	Booltiagh	5.0	N/A	N
D	Lissycasey (1)	Booltiagh	13.0	wind not priority	Y
D	Sorrell Island (Glenmore) WF Ext	Booltiagh	8.0	wind not priority	Y
D	Sorrell Island (prev Glenmore) (1)	Booltiagh	24.0	wind not priority	Y
K	Beallough (1)	Butlerstown	2.0	N/A	N
H2	Bilboa (1)	Carlow	15.0	wind not priority	Y
H2	Bilboa Wind farm Ext	Carlow	6.0	wind not priority	Y
H2	Cronelea (1)	Carlow	5.0	N/A	N
H2	Cronelea (2)	Carlow	5.0	N/A	N
H2	Cronelea Upper (1)	Carlow	3.0	N/A	N
H2	Cronelea Upper (2)	Carlow	2.0	N/A	N
H2	Gortahile (1)	Carlow	21.0	wind priority	Y
B	Cuillalea (1)	Castlebar	3.0	N/A	N
B	Cuillalea (2)	Castlebar	2.0	N/A	N
B	Derrynadivva Wind Farm (prev. Raheen Bar 2)	Castlebar	9.0	wind priority	Y
B	Lenanavea (Burren) Wind Farm	Castlebar	5.0	N/A	N
B	Raheen Barr (1)	Castlebar	19.0	N/A	N
B	Raheen Barr extension (was Derrynadivva extension)	Castlebar	7.0	wind not priority	Y
H2	Castledockrell (1)	Castledockrell	20.0	wind priority	Y

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H2	Castledockrell (2)	Castledockrell	2.0	wind priority	Y
H2	Castledockrell (3)	Castledockrell	3.0	wind priority	Y
H2	Castledockrell (4)	Castledockrell	16.0	wind priority	Y
A	Anarget (1)	Cathaleen's Fall	2.0	N/A	N
A	Derrykillew Wind Farm	Cathaleen's Fall	38.0	wind not priority	Y
A	Meenadreen (1)	Cathaleen's Fall	3.0	N/A	N
A	Spaddan (1)	Cathaleen's Fall	18.0	wind priority	Y
H1	Cappawhite A	Cauteen	52.0	wind priority	Y
H1	Cappawhite A Wind Farm (Gate 2)	Cauteen	3.0	wind priority	Y
H1	Cappawhite B	Cauteen	13.0	wind priority	Y
H1	Garracummer (1)	Cauteen	37.0	wind priority	Y
H1	Garracummer (2)	Cauteen	1.0	N/A	N
H1	Glencarbry (1)	Cauteen	33.0	wind priority	Y
H1	Glenough (1)	Cauteen	33.0	wind priority	Y
H1	Holyford (1)	Cauteen	9.0	wind priority	Y
E	Boolard Wind Farm (Charlevile)	Charleville	4.0	N/A	N
E	Castlepook (1)	Charleville	33.0	wind priority	Y
E	Kilberehert (1)	Charleville	5.0	N/A	N
E	Kilmeedy (1)	Charleville	5.0	N/A	N
E	Knocknatallig	Charleville	18.0	wind priority	Y
E	Rathnacally (1)	Charleville	4.0	N/A	N
E	Clahane (1)	Clahane	38.0	wind priority	Y
E	Clahane (2)	Clahane	14.0	wind priority	Y
E	Cloghanaleskirt (1)	Cloghboola	13.0	wind priority	Y
E	Glanaruddery 1 (formerly Dromadda More Wind Farm)	Cloghboola	20.0	wind priority	Y
E	Glanaruddery 2 (formerly Dromadda More 2)	Cloghboola	12.0	wind priority	Y
E	Glantaunyalkeen Windfarm(Cloghboola (2) Ext)	Cloghboola	10.0	wind priority	Y
E	Knocknagashel Wind (Cloghboola (1))	Cloghboola	46.0	wind priority	Y
B	Clooninagh Wind Farm	Cloon	5.0	wind not priority	Y
B	Cloonlusk (1)	Cloon	4.0	N/A	N
B	Shantallow Wind Farm	Cloon	5.0	wind not priority	Y
E	Coomagearlahy (1)	Coomagearlahy	43.0	wind priority	Y
E	Coomagearlahy (2)	Coomagearlahy	9.0	wind priority	Y
E	Coomagearlahy (3)	Coomagearlahy	30.0	wind priority	Y
E	Cleanrath (1)	Coomataggart	43.0	wind not priority	Y
E	Grousemount WF	Coomataggart	114.0	wind not priority	Y
E	Coollegrean (1)	Cordal	19.0	wind priority	Y
E	Cordal (1)	Cordal	36.0	wind priority	Y
E	Cordal (2)	Cordal	54.0	wind priority	Y
E	Scartaglen (1)	Cordal	35.0	wind priority	Y
E	Scartaglen (2)	Cordal	4.0	N/A	N
A	Altagowlan (1)	Corderry	8.0	wind priority	Y
A	Black Banks (1)	Corderry	3.0	N/A	N
A	Black Banks (2)	Corderry	7.0	wind priority	Y
A	Carrane Hill (1)	Corderry	3.0	N/A	N
A	Geevagh (1)	Corderry	5.0	N/A	N
A	Moneenatieve (1)	Corderry	4.0	N/A	N
A	Tullynamoyle (1)	Corderry	9.0	wind priority	Y
A	Tullynamoyle 2 Wind Farm	Corderry	10.0	wind priority	Y
A	Tullynamoyle 3 (Carrane Hill merged capacity)	Corderry	2.0	N/A	N

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A	Tullynamoyle Wind Farm 3 (Formerly Geevagh 2)	Corderry	12.0	wind priority	Y
A	Tullynamoyle Wind Farm 5	Corderry	16.0	wind not priority	Y
H2	Greenoge (1)	Crane	5.0	N/A	N
H2	Kilbranish (1)	Crane	3.0	N/A	N
A	Croaghonagh 1 Windfarm (Merged with Carrickalangan)	Croaghonagh	138.0	wind not priority	Y
H2	Ballaman formerly (Kennystown) (1)	Crory	4.0	N/A	N
H2	Ballycadden (1)	Crory	14.0	wind priority	Y
H2	Ballycadden (2)	Crory	10.0	wind priority	Y
H2	Ballyduff (1)	Crory	4.0	N/A	N
H2	Ballynancoran (1)	Crory	4.0	N/A	N
H2	Gibbet Hill (1)	Crory	15.0	wind priority	Y
H2	Knocknalour (1)	Crory	5.0	wind priority	Y
H2	Knocknalour (2)	Crory	4.0	N/A	N
B	Kingsmountain (1)	Cunghill	24.0	wind priority	Y
B	Kingsmountain (2)	Cunghill	11.0	wind priority	Y
J	Cloncreen Wind farm	Cushaling	100.0	wind not priority	Y
C	Carrig (1)	Dallow	3.0	N/A	N
C	Leabeg (1)	Dallow	4.0	N/A	N
C	Leamór Community Wind Turbine	Dallow	5.0	wind not priority	Y
C	Meenwaun WF	Dallow	10.0	wind priority	Y
C	Meenwaun Wind Farm ext.	Dallow	3.0	wind not priority	Y
C	Skehanagh (1)	Dallow	4.0	N/A	N
B	Mace Upper (1)	Dalton	3.0	N/A	N
B	Magheramore and Cloontooa (1)	Dalton	41.0	wind priority	Y
D	Derrybrien (1)	Derrybrien	60.0	wind priority	Y
C	Cloghan Wind Farm	Derrycarney	34.0	wind not priority	Y
C	Derrinlough Wind Farm	Derrycarney	105.0	wind not priority	Y
J	Yellow River Wind Farm	Derryiron	110.0	wind not priority	Y
E	Dromada (1)	Dromada	29.0	wind priority	Y
E	Ballylongford Windfarm	Drombeg	25.0	wind not priority	Y
E	Shrownowen Windfarm	Drombeg	50.0	wind not priority	Y
G	Collon Wind Power	Drybridge	2.0	N/A	N
G	Dunmore (1)	Drybridge	2.0	N/A	N
G	Dunmore (2)	Drybridge	2.0	N/A	N
G	Grove Hill (1) formerly Tullynageer	Dundalk	16.0	wind priority	Y
K	Ballycurreen (1)	Dungarvan	5.0	N/A	N
F	Carrigdangan (formerly Barnadivine)	Dunmanway	54.0	wind not priority	Y
F	Carrigdangan Wind Farm - Phase 2	Dunmanway	14.0	wind not priority	Y
F	Clear Island Wind Farm	Dunmanway	1.0	wind not priority	Y
F	Coomatallin (1)	Dunmanway	6.0	wind priority	Y
F	Coomatallin (2)	Dunmanway	3.0	N/A	N
F	Currabwee (1)	Dunmanway	5.0	N/A	N
F	Killaveenoge Windfarm (Derryvacorneen merge Barrboy WF.)	Dunmanway	17.0	wind priority	Y
F	Lahanaght Hill (1)	Dunmanway	4.0	N/A	N
F	Milane Hill (1)	Dunmanway	6.0	N/A	N
F	Reenascreena (1)	Dunmanway	5.0	N/A	N
B	Firlough TG371 was Carrowleagh-Kilbride DG741	Firlough	48.0	wind not priority	Y
B	Firlough Wind Farm	Firlough	27.0	wind not priority	Y

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E	Caherdowney (1)	Garrow	10.0	wind priority	Y
E	Clydaghroe (1)	Garrow	5.0	N/A	N
E	Coomacheo (1)	Garrow	41.0	wind priority	Y
E	Coomacheo (2)	Garrow	18.0	wind priority	Y
A	Derrysallagh Wind Farm (Formerly Kilronan 2)	Garvagh	34.0	wind not priority	Y
A	Garvagh - Glebe (1a)	Garvagh	26.0	wind priority	Y
A	Garvagh - Tullynahaw (1c)	Garvagh	22.0	wind priority	Y
E	Glanlee (1)	Glanlee	30.0	wind priority	Y
E	Dromdeeveen (1)	Glenlara 220kV side	11.0	wind priority	Y
E	Dromdeeveen (2)	Glenlara 220kV side	17.0	wind priority	Y
E	Mauricetown (Glenduff) Wind Farm	Glenlara	14.0	wind not priority	Y
E	Taurbeg (1)	Glenlara	26.0	wind priority	Y
B	Black Lough (1)	Glenree	13.0	wind not priority	Y
B	Bunnyconnellan (1)	Glenree	28.0	wind not priority	Y
B	Carrowleagh (1)	Glenree	34.0	wind priority	Y
B	Carrowleagh (2)	Glenree	3.0	N/A	N
B	Chafhill Wind Farm (prev. Glenree)	Glenree	4.65	wind not priority	Y
B	Stokane Wind Farm	Glenree	4.65	wind not priority	Y
A	Barnesmore Windfarm Repowering	Golagh	63.0	wind not priority	Y
A	Golagh (1)	Golagh	15.0	N/A	N
A	Coreen (1)	Gortawee	3.0	N/A	N
A	Killegar Community Wind Turbine	Gortawee	5.0	wind not priority	Y
A	Tullyhaw Community Wind Turbine	Gortawee	5.0	wind not priority	Y
H1	Monaincha Bog Wind Farm (Gate 2)	Ikerrin	3.0	wind priority	Y
H1	Monaincha Bog Wind Farm (Gate 3)	Ikerrin	33.0	wind priority	Y
I	Pluckanes (1)	Kilbarry	1.0	N/A	N
H1	Farranrory Wind Farm	Kill Hill	45.0	wind not priority	Y
H1	Kill Hill (1) - phase 1	Kill Hill	36.0	wind priority	Y
H1	Cureeny (1)	Killonan	94.0	wind not priority	Y
E	Kelwin Power Plant	Kilpaddoge	42.0	wind priority	Y
E	Leanamore (1) (formerly Tarbert (1))	Kilpaddoge	18.0	wind priority	Y
E	Knockacummer (1)	Knockacummer	100.0	wind priority	Y
E	Gneeves (1)	Knockearagh	9.0	wind priority	Y
E	WEDcross (1)	Knockearagh	5.0	N/A	N
B	Ardderoo 2 (Formerly Buffy)	Knockranny	64.0	wind not priority	Y
B	Ardderoo Wind Farm	Knockranny	27.0	wind not priority	Y
B	Ardderoo wind extension	Knockranny	18.0	wind not priority	Y
B	Knockalough (1)	Knockranny	35.0	wind priority	Y
B	Knockranny wind	Knockranny	47.0	wind not priority	Y
C	Derryadd wind	Lanesboro	90.0	wind not priority	Y
C	Kilcash Community Wind Turbine	Lanesboro	3.0	wind not priority	Y
C	Roxborough	Lanesboro	5.0	wind not priority	Y
C	Skrine (1)	Lanesboro	5.0	N/A	N
A	Drumnahough Wind Farm	Lenalea	72.0	wind not priority	Y
A	Lenalea Wind Farm	Lenalea	30.0	wind not priority	Y
A	Cark (1)	Letterkenny	15.0	N/A	N
A	Carrick Wind Farm (Garrymore)	Letterkenny	4.0	N/A	N
A	Culliagh (1)	Letterkenny	12.0	N/A	N
A	Garrymore WF	Letterkenny	4.0	N/A	N

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A	Glenalla (Garrymore)	Letterkenny	2.0	N/A	N
A	Lettergull (1)	Letterkenny	20.0	wind not priority	Y
A	Lurganboy (1)	Letterkenny	5.0	N/A	N
A	Meenanilta (1)	Letterkenny	3.0	N/A	N
A	Meenanilta (2)	Letterkenny	2.0	N/A	N
A	Meenanilta (3)	Letterkenny	3.0	N/A	N
E	Kilballyowen Windfarm	Limerick	5.0	wind not priority	Y
G	Coolberrin Wind Farm (formerly Bragan Wind Farm)	Lisdrum	33.0	wind not priority	Y
H1	Bruckana (1)	Lisheen	40.0	wind priority	Y
H1	Lisheen (1)	Lisheen	36.0	wind priority	Y
H1	Lisheen (1a)	Lisheen	23.0	wind priority	Y
H1	Lisheen 3	Lisheen	29.0	wind not priority	Y
G	Drumlins Park wind	Lislea	49.0	wind not priority	Y
F	Bawnmore (1) formerly Burren (Cork)	Macroom	24.0	wind priority	Y
G	Gartnaneane (1)	Meath Hill	11.0	N/A	N
G	Gartnaneane (2)	Meath Hill	5.0	N/A	N
G	Mullananalt (1)	Meath Hill	8.0	wind priority	Y
G	Raragh (2)	Meath Hill	12.0	wind not priority	Y
G	Taghart (1)	Meath Hill	23.0	wind not priority	Y
G	Teevurcher	Meath Hill	9.0	wind priority	Y
G	Tullynamalra (1)	Meath Hill	3.0	N/A	N
A	Meentycat (1)	Meentycat	71.0	wind priority	Y
A	Meentycat (2)	Meentycat	14.0	wind priority	Y
I	Crocane (1)	Midleton	2.0	N/A	N
E	Moneypoint WF	Moneypoint	17.0	wind priority	Y
J	Moanvane wind	Mount Lucas	60.0	wind not priority	Y
J	Mount Lucas (1)	Mount Lucas	79.0	wind priority	Y
B	Lackan (1)	Moy	6.0	wind priority	Y
J	Drehid wind	Mulgeeth	60.0	wind not priority	Y
C	Coole Wind Farm - Extension	Mullingar	10.0	wind not priority	Y
C	Coole wind	Mullingar	88.0	wind not priority	Y
C	Tromra Community WT	Mullingar	5.0	wind not priority	Y
A	Mulreavy (Mulreavy (1))	Mulreavy	82.0	wind priority	Y
A	Mulreavy Ext (Croaghnameal (1))	Mulreavy	4.0	N/A	N
A	Mulreavy Ext (Meenadreen South (1))	Mulreavy	4.0	N/A	N
A	Mulreavy Ext (Meenadreen South (2))	Mulreavy	5.0	wind priority	Y
H1	Ballinlough (1)	Nenagh	3.0	N/A	N
H1	Ballinveny (1)	Nenagh	3.0	N/A	N
H1	Curraghgraigue (1)	Nenagh	3.0	N/A	N
H1	Curraghgraigue (2)	Nenagh	2.0	N/A	N
H1	Templederry (1)	Nenagh	4.0	N/A	N
E	Knockaneden (1)	Oughtragh	9.0	wind priority	Y
J	Cushaling wind (loop into Cushaling - Newbridge)	Philipstown	50.0	wind not priority	Y
J	Dooray WF	Portlaoise	45.0	wind not priority	Y
J	Lisdowney (1)	Portlaoise	9.0	wind priority	Y
E	Carrons (1)	Rathkeale	5.0	N/A	N
E	Grouse Lodge (1)	Rathkeale	15.0	wind priority	Y
E	Rathcahill (1)	Rathkeale	13.0	wind priority	Y
G	Mountain Lodge (1)	Ratrussan	25.0	wind priority	Y
G	Mountain Lodge (3)	Ratrussan	6.0	wind priority	Y

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G	Ratrussan (1a)	Ratrussan	48.0	wind priority	Y
E	Knocknagoum (1)	Reamore	43.0	wind priority	Y
E	Knocknagoum (2) formerly Muingnatee (3)	Reamore	2.0	N/A	N
E	Muingnaminnane (1)	Reamore	15.0	wind priority	Y
E	Stack's Mountain	Reamore	25.0	wind not priority	Y
E	Stacks Mountain Wind Farm 2	Reamore	4.5	wind not priority	Y
C	Lissanore Community Wind Turbine	Richmond	5.0	wind not priority	Y
B	Leitir Guingaid & Doire Chrith1 & 2 Merge	Salthill	41.0	wind priority	Y
B	Inverin (Knock South) (1)	Screeb	3.0	N/A	N
B	Inverin Community Wind Turbine	Screeb	5.0	wind not priority	Y
B	Rossaveel Wind	Screeb	3.0	N/A	N
G	Carrickallen Phase 2	Shankill	3.0	wind not priority	Y
G	Carrickallen Wind Farm	Shankill	22.0	wind priority	Y
G	Liffey Autoproduction Project	Shankill	2.0	N/A	N
G	Liffey Autoproduction Project (extension)	Shankill	1.0	N/A	N
G	Mountain Lodge (2)	Shankill	3.0	N/A	N
C	Sliabh Bawn (1)	Sliabh Bawn	58.0	wind priority	Y
D	Boolinrudda (formerly Loughaun North)	Slievecallan	45.0	wind priority	Y
D	Knockalassa (formerly Keelderry)	Slievecallan	27.0	wind priority	Y
B	Carrickeeney (1)	Sligo	8.0	wind priority	Y
B	Faughary (1)	Sligo	6.0	wind priority	Y
B	Riverstown Wind Farm	Sligo	5.0	wind not priority	Y
B	Templehouse Community Wind Turbine	Sligo	4.0	wind not priority	Y
C	Sonnagh Old (1)	Somerset	8.0	N/A	N
A	Aught Wind Farm	Sorne Hill	57.0	wind not priority	Y
A	Corvin Wind Turbine	Sorne Hill	2.0	N/A	N
A	Flughland (1)	Sorne Hill	9.0	wind priority	Y
A	Glackmore Hill (2)	Sorne Hill	1.0	N/A	N
A	Meenkeeragh (1)	Sorne Hill	4.0	N/A	N
A	Sorne Hill (1)	Sorne Hill	32.0	wind priority	Y
A	Sorne Hill (2)	Sorne Hill	7.0	wind priority	Y
A	Sorne Hill Single Turbine (Enros)	Sorne Hill	2.0	N/A	N
A	Three Trees (1)	Sorne Hill	4.0	N/A	N
B	Killala Wind Farm (Phase 1)	Tawnaghmore	19.0	wind priority	Y
J	Clonminch Community Wind Turbine	Thornsberry	5.0	wind not priority	Y
H1	An Cnoc	Thurles	12.0	wind priority	Y
H1	Ballinacurry WF	Thurles	5.0	N/A	N
H1	Ballybay Wind Farm (Tullaroan)	Thurles	14.0	wind priority	Y
H1	Foyle Windfarm	Thurles	10.0	wind priority	Y
H1	Gurteen (1)	Thurles	2.0	N/A	N
H1	Hazelgate Wind Farm	Thurles	7.0	wind not priority	Y
A	Mully Graffy Windfarm (Kilgorman)	Tievebrack	30.0	wind not priority	Y
H1	Slievereagh (1)	Tipperary	3.0	N/A	N
H1	Slievereagh Wind Farm (2)	Tipperary	2.0	N/A	N
B	Grady Joinery	Tonroe	3.0	N/A	N
B	Largan Hill (1)	Tonroe	6.0	N/A	N
B	Roosky (1)	Tonroe	4.0	N/A	N
E	Ballincollig Hill (1)	Tralee	15.0	wind priority	Y
E	Beenageeha (1)	Tralee	4.0	N/A	N

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
E	Mount Eagle (1)	Tralee	5.0	N/A	N
E	Mount Eagle (2)	Tralee	2.0	N/A	N
E	Tursillagh (1)	Tralee	15.0	N/A	N
E	Tursillagh (2)	Tralee	7.0	N/A	N
E	Knockawarriga (1)	Trien 220kV side	23.0	wind priority	Y
E	Knockawarriga Extension (Glenduff & Caherlevoy)	Trien 220kV side	7.0	wind not priority	Y
E	Tournafulla (2)	Trien 220kV side	17.0	wind priority	Y
E	Ballagh (1)	Trien	5.0	N/A	N
E	Beale Hill (1)	Trien	2.0	N/A	N
E	Beale Hill (2)	Trien	3.0	N/A	N
E	Beale Hill (3)	Trien	1.0	N/A	N
E	Curraghderrig (1)	Trien	5.0	N/A	N
E	Gortnacloghy Wind Farm	Trien	4.0	N/A	N
E	Tournafulla (1)	Trien	8.0	wind priority	Y
A	Beam Hill (1)	Trillick	14.0	wind priority	Y
A	Cooly (1)	Trillick	4.0	N/A	N
A	Crockahenny (1)	Trillick	5.0	N/A	N
A	Drumlough Hill (1)	Trillick	5.0	N/A	N
A	Drumlough Hill (2)	Trillick	10.0	wind priority	Y
A	Meenaward	Trillick	7.0	wind priority	Y
D	Carrownawelaun (1)	Tullabrack	5.0	N/A	N
D	Moanmore (1)	Tullabrack	13.0	N/A	N
D	Tullabrack (1)	Tullabrack	14.0	wind priority	Y
B	Seecon (1)	Uggool	105.0	wind priority	Y
B	Uggool (1)	Uggool	64.0	wind priority	Y
H2	Ballymartin (1)	Waterford	6.0	wind priority	Y
H2	Ballymartin (2)	Waterford	8.0	wind priority	Y
H2	Castlebanny Wind Farm	Waterford	138.6	wind not priority	Y
H2	Rahora (1)	Waterford	4.0	N/A	N
H2	Carnsore (1)	Wexford	12.0	N/A	N
H2	Richfield (1)	Wexford	20.0	wind priority	Y
H2	Richfield (2)	Wexford	7.0	wind priority	Y
K	Knocknamona Wind Farm (Prev. Crohaun)	Woodhouse	34.0	wind not priority	Y
K	Woodhouse (1)	Woodhouse	20.0	wind priority	Y
C	Derrymany Wind Farm	lanesboro	5.0	wind not priority	Y

Appendix B - Solar farm descriptions

Table 5 - Solar Farm list considered in Areas A, B, C, D, E, F, G, H1, H2, I, J, K

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
H1	Laghtane Solar Farm	Ahane	4.0	solar not priority	Y
H1	Mulkear Solar Park (formerly Clyduff Solar Park)	Ahane	4.0	solar not priority	Y
D	Dromsallagh Solar	Ardnacrusha	4.0	solar not priority	Y
D	Garrynacurra Solar Farm (Cratloe Community Solar)	Ardnacrusha	5.0	solar not priority	Y
A	An Screaban Solar	Ardnagappary	5.0	solar not priority	Y
H2	Ballymoney PV	Arklow	9.0	solar not priority	Y
H2	Coolboy Solar Farm	Arklow	10.0	solar not priority	Y
H2	Coolnagloose Community Solar Farm	Arklow	1.0	solar not priority	Y
H2	Glenoge Community Solar	Arklow	5.0	solar not priority	Y
H2	Johnstown North PV	Arklow	22.0	solar not priority	Y
H2	Knockadosan Solar (formerly Springfarm Wind Farm)	Arklow	6.0	solar not priority	Y
H2	North Arklow Solar	Arklow	47.0	solar not priority	Y
H2	Templerainey East Solar Farm (Ballycooleen)	Arklow	4.0	solar not priority	Y
C	Cuilmore Solar Park	Athlone	40.0	solar not priority	Y
C	Rooaun Solar	Athlone	4.0	solar not priority	Y
C	Shannagh Beg Solar Farm	Athlone	4.0	solar not priority	Y
C	Taduff Solar Park	Athlone	80.0	solar not priority	Y
J	Moatstown Solar	Athy	4.0	solar not priority	Y
J	Woodstock North Solar Farm	Athy	5.0	solar not priority	Y
E	Ballinknockane Solar Farm	Ballinknockane	50.0	solar not priority	Y
H2	Ballinaclough Solar Farm	Ballybeg	9.0	solar not priority	Y
H2	Millvale PV	Ballybeg	8.0	solar not priority	Y
H1	Carrick Solar	Ballydine	6.0	solar not priority	Y
H2	Loan PV	Ballyragget	5.0	solar not priority	Y
H2	Parksgrove solar	Ballyragget	35.0	solar not priority	Y
E	Knocknamork solar	Ballyvouskil 220	13.0	solar not priority	Y
G	Darthogue Solar Farm	Baltrasna	47.0	solar not priority	Y
G	Hilltown PV	Baltrasna	10.0	solar not priority	Y
G	Painestown Hill Solar Farm	Baltrasna	10.0	solar not priority	Y
G	Reask Solar Far	Baltrasna	80.0	solar not priority	Y
G	Reask Solar Farm	Baltrasna	55.0	solar not priority	Y
F	Callatrim South Solar Farm (prev. Kilcawha)	Bandon	6.0	solar not priority	Y
F	Cloghmacow Solar	Bandon	5.49	solar not priority	Y
F	Farrangalway Solar PV Farm	Bandon	5.0	solar not priority	Y
F	Finnis PV	Bandon	9.0	solar not priority	Y
F	Garryndruig	Bandon	5.0	solar not priority	Y
H2	Courtown Solar Farm (previously Coolnastudd)	Banoge	4.0	solar not priority	Y
H2	Gorey Solar	Banoge	4.0	solar not priority	Y
I	Leacht Cross Solar	Barnahely	5.0	solar not priority	Y
I	Leacht Cross Solar Phase 2	Barnahely	5.0	solar not priority	Y
H1	Farran South	Barrymore	15.0	solar not priority	Y
H1	Farran South Solar Phase 2	Barrymore	5.49	solar not priority	Y
J	Kishavanna Solar Farm	Blake T	5.0	solar not priority	Y

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
J	Coolcarrigan Solar	Blake	15.0	solar not priority	Y
J	Blundlestown	Blundelstown	60.0	solar not priority	Y
E	Carrigraigue Solar Extension	Boggeragh	11.5	solar not priority	Y
J	Treascon Solar Farm	Bracklone	60.0	solar not priority	Y
K	Carriglong Solar Park	Butlerstown	46.0	solar not priority	Y
K	Farranmacedmond Solar Farm	Butlerstown	6.0	solar not priority	Y
K	Keiloge Solar (Prev Coolnagapogue Solar Farm Phase 1)	Butlerstown	4.0	solar not priority	Y
K	Loughdenee PV	Butlerstown	9.0	solar not priority	Y
K	Pickardstown PV	Butlerstown	10.0	solar not priority	Y
H1	Ballymacadam (Monraha) Solar PV Farm	Cahir	19.0	solar not priority	Y
H1	Farranlahassery Solar	Cahir	4.0	solar not priority	Y
H1	Magherareagh Solar PV Farm	Cahir	5.0	solar not priority	Y
H1	Monroe East solar from merge Ballyfowloo Lawclon	Cahir	8.0	solar not priority	Y
H2	Coppenagh Solar Park Extension	Carlow	5.0	solar not priority	Y
H2	Coppenagh Solar Phase 2	Carlow	6.0	solar not priority	Y
H2	Coppenagh solar	Carlow	5.0	solar not priority	Y
H2	Grangeford Solar PV	Carlow	48.0	solar not priority	Y
H2	Kilcarrig Solar PV Farm	Carlow	4.0	solar not priority	Y
H2	Killerrig Solar Farm	Carlow	20.0	solar not priority	Y
C	Ardass Solar	Carrick on Shannon	2.0	solar not priority	Y
C	Castlerea Trust Solar Project	Carrick on Shannon	5.0	solar not priority	Y
C	Rathleg Solar Farm	Carrick on Shannon	4.0	solar not priority	Y
B	Ballymoneen Solar Park	Cashla	100.0	solar not priority	Y
H1	Barnaleen Solar Farm	Cauteen	55.0	solar not priority	Y
H1	Gortdrum Solar PV	Cauteen	48.0	solar not priority	Y
E	Ballyroe Solar	Charleville	120.0	solar not priority	Y
E	Fiddane Solar	Charleville	30.0	solar not priority	Y
E	Banemore Solar Farm	Clahane	34.0	solar not priority	Y
J	Clonfad Solar	Clonfad	100.0	solar not priority	Y
B	Barnacurragh Solar Park	Cloon	50.0	solar not priority	Y
B	Barnderg Solar Farm	Cloon	4.0	solar not priority	Y
B	Cloonascragh Solar	Cloon	20.0	solar not priority	Y
B	Milltown Community Solar Farm	Cloon	5.0	solar not priority	Y
J	East Laois Solar Farm Extension	Coolnabacky	25.0	solar not priority	Y
J	Loughteague	Coolnabacky	55.0	solar not priority	Y
I	Garravagh 1 Solar Park	Coolroe	10.0	solar not priority	Y
E	Coumaclovane Solar Extension	Coomagearlahy	7.0	solar not priority	Y
A	Glen Solar	Corderry	40.0	solar not priority	Y
J	Darthogue Solar Farm Extension	Corduff	70.0	solar not priority	Y
J	Gallanstown Solar	Corduff	119.0	solar not priority	Y
J	Harlockstown Solar (Gallanstown Solar Extension)	Corduff	51.0	solar not priority	Y
J	Kilrue Solar	Corduff	195.0	solar not priority	Y
I	Ballynacrusha	Cow Cross	5.0	solar not priority	Y
H2	Deerpark New Solar Park	Crane	3.0	solar priority	Y
H2	Graigue Beg Community Solar Farm	Crane	5.0	solar not priority	Y
H2	Macallian Solar	Crane	9.0	solar not priority	Y
H2	Monart Spa Ground Mount 3	Crane	1.3	solar not priority	Y
H2	Tomsallagh Solar	Crane	50.0	solar not priority	Y

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
H2	The Dell Solar	Crory	20.0	solar not priority	Y
B	Claremorris 2 Solar Farm	Dalton	4.0	solar not priority	Y
B	Lisduff Solar Park (Claremorris)	Dalton	4.0	solar not priority	Y
C	Rath Solar PV	Derrycarney	96.0	solar not priority	Y
J	Clonin North solar	Derryiron	47.0	solar not priority	Y
J	Rhode Solar Farm	Derryiron	20.0	solar not priority	Y
H1	Grian PV Ballyboe	Doon	12.0	solar not priority	Y
H1	Horsepasture Solar Farm (Grian PV)	Doon	8.0	solar not priority	Y
E	Drombeg Solar Park	Drombeg	50.0	solar not priority	Y
E	Drombeg Solar Park Phase II (Ballydonohoe)	Drombeg	44.0	solar not priority	Y
D	Clonloghan 1 Solar Park	Drumline	4.0	solar not priority	Y
D	Clonloghan 2 Solar Park	Drumline	4.0	solar not priority	Y
D	Clonloghan Solar Park	Drumline	8.0	solar not priority	Y
D	Firgrove Solar Park	Drumline	4.0	solar not priority	Y
G	Beaulieu PV	Drybridge	4.0	solar not priority	Y
G	Cluide Solar	Drybridge	4.0	solar not priority	Y
G	Glenamoy Solar	Drybridge	20.0	solar not priority	Y
G	Grangegeeth Solar	Drybridge	4.0	solar not priority	Y
G	Rathdrinagh Solar Farm	Drybridge	3.0	solar not priority	Y
G	Stamullen Solar Park	Drybridge	4.0	solar not priority	Y
G	Kilcurly Solar	Dundalk	51.0	solar not priority	Y
G	Willville Extension Solar Park	Dundalk	1.0	solar not priority	Y
G	Willville Solar Park	Dundalk	4.0	solar not priority	Y
J	Dysart PV	Dunfirth	18.0	solar not priority	Y
J	Hortland PV (from merge Knockanally and Hortland)	Dunfirth	14.0	solar not priority	Y
J	Ovidstown Solar	Dunfirth	4.0	solar not priority	Y
K	Ardsallagh Solar Farm	Dungarvan	5.0	solar not priority	Y
K	Clashnagoneen Solar Farm	Dungarvan	4.0	solar not priority	Y
K	Cooltubbrid West Solar	Dungarvan	4.0	solar not priority	Y
K	Drumroe East Solar Farm	Dungarvan	15.0	solar not priority	Y
K	Foxhall PV	Dungarvan	4.0	solar not priority	Y
K	Kilcannon	Dungarvan	5.0	solar not priority	Y
K	Poulbautia Solar Farm	Dungarvan	19.0	solar not priority	Y
F	Derrigra Solar	Dunmanway	5.0	solar not priority	Y
D	Ballingaddy Solar	Ennis	5.49	solar not priority	Y
D	Cahershaughnessy Solar	Ennis	9.0	solar not priority	Y
D	Lissane West Solar Farm	Ennis	19.0	solar not priority	Y
D	Manusmore Solar Park	Ennis	60.0	solar not priority	Y
J	Bullstown Solar Farm	Finglas	8.0	solar not priority	Y
J	Fieldstown Solar Farm Ext	Finglas	18.27	solar not priority	Y
G	Garballagh2 Solar Farm	Garballagh	48.0	solar not priority	Y
G	Gillinstown Solar	Garballagh	95.0	solar not priority	Y
G	Gaskinstown Solar Farm	Gaskinstown	85.0	solar not priority	Y
J	Ballykea Solar Farm	Glasmore	1.0	solar not priority	Y
J	Fieldstown Solar	Glasmore	75.0	solar not priority	Y
J	Mainscourt	Glasmore	40.0	solar not priority	Y
E	Curraduff (previously Southwest Solar)	Glenlara	5.0	solar not priority	Y
E	Dromalour	Glenlara	5.0	solar not priority	Y
G	Gorman Solar Farm	Gorman	46.0	solar not priority	Y
H2	Ballyedock	Great Island	12.0	solar not priority	Y
H2	Ballygowny Solar Farm	Great Island	4.99	solar not priority	Y
J	Confey Solar Park	Griffinrath	10.0	solar not priority	Y

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
J	Smithstown	Griffinrath	25.0	solar not priority	Y
J	Taghadoe Solar Farm	Griffinrath	25.0	solar not priority	Y
J	Tower Hill Solar Farm	Griffinrath	6.0	solar not priority	Y
J	Garr Solar & Storage	Harristown	85.0	solar not priority	Y
J	Harristown Solar Extension	Harristown	50.0	solar not priority	Y
J	Harristown Solar PV	Harristown	42.0	solar not priority	Y
G	Duleek Solar plus Storage Facility	Hawkinstown	80.0	solar not priority	Y
G	Hawkinstown Solar Park re-submission	Hawkinstown	50.0	solar not priority	Y
H2	Garreenleen Solar Farm	Kellis	81.0	solar not priority	Y
I	Coolyduff	Kilbarry	5.0	solar not priority	Y
I	Drumgarriff South	Kilbarry	5.0	solar not priority	Y
I	Kilnaglory Solar Farm	Kilbarry	10.0	solar not priority	Y
H2	Ballytobin Extension	Kilkenny	0.99	solar not priority	Y
H2	Ballytobin Solar PV	Kilkenny	4.0	solar not priority	Y
H2	Castlekelly Solar PV Farm	Kilkenny	4.0	solar not priority	Y
H2	Clashwilliam Solar	Kilkenny	51.0	solar not priority	Y
H2	Derrynahinch Solar Farm	Kilkenny	10.0	solar not priority	Y
H2	Keatingstown Solar Farm	Kilkenny	6.0	solar not priority	Y
H2	Thomastown Road Solar	Kilkenny	4.0	solar not priority	Y
J	Furryhill Solar	Kilteel	26.0	solar not priority	Y
J	Threecastles Solar Farm	Kilteel	15.0	solar not priority	Y
E	Madam's Hill Solar Park	Knockearagh	9.0	solar not priority	Y
I	Ballyvatta Solar Extension	Knockraha	0.0	solar not priority	Y
I	Monatooreen Solar	Knockraha	26.0	solar not priority	Y
C	Creevy Solar	Lanesboro	4.0	solar not priority	Y
C	Middleton solar (Longford)	Lanesboro	57.0	solar not priority	Y
E	Islanduane Solar Farm	Limerick	5.0	solar not priority	Y
E	Kilcolman Solar Farm	Limerick	4.0	solar not priority	Y
E	Mungret Solar	Limerick	5.0	solar not priority	Y
H1	Kiloran Solar PV Farm	Lisheen	76.0	solar not priority	Y
H2	Monart East Solar Farm	Lodgewood	50.0	solar not priority	Y
G	Monvallet Hybrid Solar & Battery Farm	Louth	50.0	solar not priority	Y
I	Lysaghtstown Phase 2	Lysaghtstown	45.0	solar not priority	Y
I	Lysaghtstown Solar	Lysaghtstown	87.0	solar not priority	Y
F	Berrings Solar Farm	Macroom	14.0	solar not priority	Y
F	Knockglass Solar Farm	Macroom	4.0	solar not priority	Y
E	Crossfield	Mallow	5.0	solar not priority	Y
E	Kilcummer Upper Solar Farm	Mallow	10.0	solar priority	Y
E	Knockbarry Solar Farm (prev Buttevant)	Mallow	5.0	solar not priority	Y
J	Toolestown Solar	Maynooth	50.0	solar not priority	Y
I	Ballyduff PV	Midleton	7.0	solar not priority	Y
I	Ballyspillane West Solar Farm	Midleton	9.0	solar not priority	Y
I	Ballyvatta Solar Extension	Midleton	42.0	solar not priority	Y
I	Carrigogna Solar	Midleton	10.0	solar not priority	Y
I	Lurrig Solar Farm	Midleton	4.0	solar not priority	Y
I	Malapardas Solar	Midleton	5.49	solar not priority	Y
I	Tead More Solar (Meelshane)	Midleton	4.0	solar not priority	Y
J	Bodenstown Solar Farm	Monread	4.0	solar not priority	Y
J	Kerdiffstown PV	Monread	4.0	solar not priority	Y
H1	Mothel PV	Mothel	60.0	solar not priority	Y
C	Liss Solar Farm (prev Lands at Liss)	Mullingar	4.0	solar not priority	Y

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
C	Marlinstown Solar Farm (prev Russellstown)	Mullingar	4.0	solar not priority	Y
C	Tullynally Estate	Mullingar	4.0	solar not priority	Y
C	WEP Solar Slanemore Mullingar	Mullingar	17.0	solar not priority	Y
G	Friarspark (was Glebe Golf Course)	Navan	4.0	solar not priority	Y
G	Friarspark Solar 2	Navan	2.0	solar not priority	Y
G	Kilkeelan Phase 2 Solar Farm	Navan	1.0	solar not priority	Y
G	Kilkeelan Solar Farm	Navan	4.0	solar not priority	Y
G	Martinstown Solar formerly Crowinstown Great wind	Navan	5.0	solar not priority	Y
G	Milltown Solar	Navan	115.0	solar not priority	Y
H1	Lisbrien Solar Farm	Nenagh	4.0	solar not priority	Y
J	Dunmurry Springs PV	Newbridge	12.0	solar not priority	Y
J	Pollardstown PV	Newbridge	4.0	solar not priority	Y
E	Maine Solar	Oughtragh	4.0	solar not priority	Y
J	Kilcush Solar Farm	Philipstown	75.0	solar not priority	Y
J	Acragar Solar Farm	Portlaoise	4.0	solar not priority	Y
J	Derry More Solar Farm	Portlaoise	4.0	solar not priority	Y
J	Shanderry Solar Farm	Portlaoise	4.0	solar not priority	Y
I	Ballinrea Solar Park	Raffeen	55.0	solar not priority	Y
E	Ballynash Bishop Solar Farm	Rathkeale	10.0	solar not priority	Y
K	Rathnaskilloge	Rathnaskilloge	95.0	solar not priority	Y
K	Rathnaskilloge Solar plus Storage Facility	Rathnaskilloge	51.0	solar not priority	Y
C	Ballykenny Solar	Richmond	9.0	solar not priority	Y
C	Cleggil Solar Park Extension	Richmond	4.0	solar not priority	Y
C	Cleggill Solar Park	Richmond	8.0	solar not priority	Y
C	Cloondara Solar Park (prev Fishertown)	Richmond	4.0	solar not priority	Y
C	Lisnageeragh Solar Farm	Richmond	4.0	solar not priority	Y
H2	Rosspile Solar Farm	Rosspile	95.0	solar not priority	Y
H2	Rosspile2 Solar plus Storage Facility	Rosspile	54.0	solar not priority	Y
G	Carrickabane Solar Farm	Shankill	4.0	solar not priority	Y
G	Drumman Solar Farm	Shankill	7.0	solar not priority	Y
C	Blackwater Bog Solar 1	Shannonbridge	160.0	solar not priority	Y
C	Clondardis Solar	Shanonagh	59.0	solar not priority	Y
B	Shantallow Solar	Shantallow	35.0	solar not priority	Y
C	Ardnadoman Solar Farm	Somerset	4.0	solar not priority	Y
C	Ballycrissane Solar Farm	Somerset	4.0	solar not priority	Y
J	Matt Solar Farm	Stephenstown	5.0	solar not priority	Y
J	Ballyboughlin Solar Farm	Thornsberry	14.0	solar not priority	Y
J	Ballyteige Solar Park	Thornsberry	90.0	solar not priority	Y
J	Lehinch Solar Farm	Thornsberry	4.0	solar not priority	Y
J	Muinagh Solar Farm	Thornsberry	4.0	solar not priority	Y
J	Muinagh Solar Farm phase 2	Thornsberry	2.0	solar not priority	Y
H1	Ballycarrane Solar Farm	Thurles	22.0	solar not priority	Y
H1	Moyneard Solar Farm	Thurles	4.0	solar not priority	Y
H1	Rahealty Solar Farm	Thurles	18.0	solar not priority	Y
J	Old Court Solar Farm	Timahoe North	90.0	solar not priority	Y
J	Timahoe North Phase 2 Solar Farm	Timahoe North	80.0	solar not priority	Y
J	Timahoe North solar	Timahoe North	70.0	solar not priority	Y
H1	Erkina Solar Park Extension	Timoney	90.0	solar not priority	Y
H1	Erkina solar	Timoney	67.0	solar not priority	Y
H1	Ballinalard Solar Farm	Tipperary	4.0	solar not priority	Y
I	Shanagraigue	Trabeg	5.0	solar not priority	Y

Area	Name	Node	Maximum Export Capacity (MW)	Priority/Not-Priority (from EirGrid)	Controllability Status (Y/N)
E	Ballyenaghty Solar Park	Tralee	10.0	solar not priority	Y
E	Dromroe Solar	Tralee	4.0	solar not priority	Y
J	Treascon Solar	Treascon	40.0	solar not priority	Y
E	Knockbrack Solar Farm(prev. Abbeyfeale)	Trien	4.99	solar not priority	Y
E	Shanacool (Trienearagh) Solar Park	Trien	4.0	solar not priority	Y
E	Trian Larthach Solar	Trien	22.0	solar not priority	Y
H2	Tullabeg Phase 2	Tullabeg	105.0	solar not priority	Y
H2	Tullabeg Solar Park	Tullabeg	50.0	solar not priority	Y
D	Einagh Solar (prev Moanmore Solar)	Tullabrack	17.0	solar not priority	Y
H2	Curraghmartin Solar Park	Waterford	4.0	solar not priority	Y
H2	Ballymackesy East Solar Farm	Wexford	4.0	solar priority	Y
H2	Blusheens Solar (1)	Wexford	8.0	solar not priority	Y
H2	Blusheens Solar (2)	Wexford	4.0	solar not priority	Y
H2	Davidstown Solar	Wexford	5.0	solar not priority	Y
H2	Grahormick solar	Wexford	55.0	solar not priority	Y
H2	Tracystown Solar	Wexford	101.0	solar not priority	Y

Appendix C – Merit order assumptions

Table 6 - Merit Order List

Name	Type	ID	MEC	Pmin
Ardnacrusha	Hydro	AA1	21.0	12
Ardnacrusha	Hydro	AA2	22.0	12
Ardnacrusha	Hydro	AA3	19.0	12
Ardnacrusha	Hydro	AA4	24.0	12
Erne	Hydro	ER1	10.0	4
Erne	Hydro	ER2	10.0	4
Erne	Hydro	ER3	22.0	5
Erne	Hydro	ER4	23.0	5
Liffey	Hydro	LI1	15.0	3
Liffey	Hydro	LI2	15.0	3
Liffey	Hydro	LI4	15.0	3
Lee	Hydro	LE1	15.0	3
Lee	Hydro	LE2	15.0	3
Lee	Hydro	LE3	8.0	3
Turlough Hill	Pump Storage	TH1	73.0	5
Turlough Hill	Pump Storage	TH2	73.0	5
Turlough Hill	Pump Storage	TH3	73.0	5
Turlough Hill	Pump Storage	TH4	73.0	5
Dublin Waste	Biomass	DW1	61.0	20
Meath Waste	Biomass	IW1	17.0	10
Sealrock / Aughinish	Gas/DO	SK3	86.0	40
Sealrock / Aughinish	Gas/DO	SK4	86.0	40
Hunstrown	Gas/DO	HN2	412.0	121
Dublin Bay	Gas/DO	DB1	416.0	110
Ballylumford CCGT	Gas/HFO	A	157.0	113
EWIC	IC	EWIC	500.0	0
Moyle	IC	MYLE	450.0	0
Greenlink	IC	GNLK	500.0	0
Celtic	IC	CLTC	560.0	0
Ballylumford CCGT	Gas/HFO	B	157.0	113
Ballylumford CCGT	Gas/HFO	C	173.0	0
Coolkeeragh CCGT	Gas/DO	C30 GT	256.0	210
Coolkeeragh CCGT	Gas/DO	C30 ST	165.0	0
Aghada Longpoint CCGT	Gas/DO	AD2	449.0	130
Great Island CCGT	Gas/DO	GI4	435.0	165
Glanagow Whitegate CCGT	Gas/DO	WG1	450.0	160
Hunstrown	Gas/DO	HNC1 (CT)	123.0	0
Hunstrown	Gas/DO	HNC2 (ST)	230.2	145
Ballylumford CCGT	Gas/HFO	D	97.0	0
Tynagh	Gas/DO	TYC (CT)	263.0	131
Tynagh	Gas/DO	TYC (ST)	142.0	0
Poolbeg	Gas/DO	PBC1	150.0	120
Poolbeg	Gas/DO	PBC2	150.0	120
Poolbeg	Gas/DO	PBC3	164.0	0
Aghada	Gas/DO	AT2	90.0	20
Aghada	Gas/DO	AT4	90.0	20
Ballylumford Peaking	DO	BGT7	55.0	20
Ballylumford Peaking	DO	BGT8	55.0	20
Moneypoint	Coal	MP1	287.0	90
Moneypoint	Coal	MP2	250.0	90
Moneypoint	Coal	MP3	287.0	90
Cushaling	Biomass	ED1	119.0	60

Name	Type	ID	MEC	Pmin
Rhode	DO	RP1	52.0	12
Rhode	DO	RP2	52.0	12
Edenderry OCGT	DO	ED3	58.0	20
Edenderry OCGT	DO	ED5	58.0	20
Tawnaghmore	DO	TP1	52.0	12
Tawnaghmore	DO	TP3	52.0	12
Coolkeeragh Peaking	DO	CGT8	53.0	20
Kilroot GT	DO	KGT3	42.0	12
Kilroot GT	DO	KGT4	42.0	12
Kilroot GT	DO	KGT1	28.0	10
Kilroot GT	DO	KGT2	28.0	10

Appendix D - Capacity factor data

Table 7 - Wind Capacity Factors for all Areas

Area	Capacity Factors
A	33.1
B	34.9
C	36.7
D	35.6
E	37.1
F	37.1
G	35.8
H1	36.0
H2	32.4
I	36.0
J	35.4
K	34.8
NI	29.9
East Coast Offshore	47.9
South-East Coast Offshore	46.0
South Coast Offshore	48.6
West Coast Offshore	50.6
Northern Ireland Offshore	46.3

Table 8 - Solar Capacity Factors for all Areas

Area	Capacity Factors
North	12.0
Middle	14.6
South	13.3

Appendix E – Shaping Our Electricity Future uprate projects

Table 9 - SOEF Network Uprates from NDP 2024 Q2 update

Project Number	Uprate Details	Capital Approval	Project Approval	Energisation Instruction
CP0848	Castlebar-Cloon 110 kV Line Uprate-Refurb	16/09/2020	20/12/2023	01/12/2025
CP0668	Corduff - Ryebrook 110 kV line uprate	29/04/2011	10/05/2013	02/06/2023
CP0724	Thornsberry 110KV Station Busbar uprate	01/03/2011	07/11/2012	30/11/2023
CP0741	Trabeg 110 kV station - uprate 2 x 110 kV transformer bays and control room extension DSO	03/06/2020	29/04/2021	03/05/2027
CP0763	Clashavoon - Tarbert 220 kV line uprate	21/12/2011	20/03/2015	04/11/2022
CP0771	Castlebar 110 kV station busbar uprate	07/05/2013	25/01/2016	31/08/2022
CP0817	Flagford - Sliabh Bawn 110 kV circuit uprate	18/02/2021	02/06/2022	03/11/2025
CP0835	Coolnabacky - Portlaoise 110 kV line uprate	30/05/2018	10/02/2025	21/05/2026
CP0837	Bellacorrick 110 kV Station T141 Uprate	10/12/2014	07/12/2018	10/11/2023
CP0839	Moy 110 kV Station reconfiguration and busbar uprate	30/09/2014	07/10/2015	18/10/2024
CP0841	Arva - Carrick-on-Shannon 110 kV line uprate	21/05/2020	15/12/2021	28/11/2025
CP0866	Great Island - Kellis 220 kV Line Uprate	16/11/2022	30/06/2025	30/11/2029
CP0869	Maynooth - Woodland 220 kV line uprate	15/08/2019	17/12/2020	29/11/2024
CP0883	Ballyvouskill Knockanure 220 kV Line Uprate	24/02/2016	28/09/2018	19/09/2022
CP0905	Louth - Rathrussan 110 kV No 1 Line Uprate	25/05/2016	30/06/2022	30/09/2025
CP0945	Great Island Kilkenny 110 kV Uprate	31/03/2017	13/12/2019	30/06/2022
CP0972	Wexford 110 kV Busbar Uprate	21/09/2016	14/05/2018	13/07/2021
CP1000	Lanesboro - Mullingar 110 kV Thermal Uprate	29/01/2021	10/09/2024	28/11/2025
CP1002	Cushaling - Newbridge 110 kV Thermal Uprate	30/03/2023	19/12/2025	30/11/2029
CP1003	Cushaling - Portlaoise 110 kV line uprate	05/07/2023	05/12/2025	30/11/2029
CP1004	Killonan - Limerick No 1 110 kV Uprate	09/09/2024	30/09/2026	05/12/2029
CP1017	400 kV Voltage Uprate Trial	25/09/2017	28/04/2020	31/03/2022
CP1078	Lanesboro – Sliabh Bawn 110 KV Line Uprate	18/02/2021	06/03/2024	28/11/2025
CP1079	Binbane - Cathaleen_s Fall 110 kV Line uprate	29/01/2021	07/06/2023	11/09/2024
CP1121	Arklow-Great Island-Lodgewood 220kV Line Uprate	20/12/2024	30/09/2025	30/09/2028
CP1144	Kinnegad 110 kV station, Derryiron 110 kV bay conductor uprate	22/01/2021	01/12/2021	28/11/2025
CP1149	Newbridge - Cushaling 110 kV line, Stations bay conductors and lead-in conductor uprate	22/01/2021	04/11/2021	10/11/2026
CP1155	Glenree - Moy 110 kV Line Uprate	15/04/2021	20/12/2023	30/06/2025
CP1156	Sligo 110 kV Station - Srananagh 1 & 2 Bay uprates	18/06/2021	04/04/2022	28/11/2025
CP1166	Gorman - Platin 110 kV line uprate	18/03/2021	30/10/2024	05/03/2026
CP1167	Drybridge - Old bridge - Platin 110 kV line uprate	18/03/2021	27/10/2023	25/11/2025
CP1168	Cashla-Salthill 110 kV Thermal Uprate	18/03/2021	26/11/2024	30/06/2026
CP1172	Crane - Wexford 110 kV Line uprate	17/06/2021	09/10/2023	28/11/2025

Project Number	Uprate Details	Capital Approval	Project Approval	Energisation Instruction
CP1191	Cashla-Galway 110 kV cot 1 Line uprate*	21/11/2022	29/12/2025	30/11/2029
CP1199	Derryiron - Thornsberry 110 kV Line Uprate	19/11/2021	20/12/2023	25/10/2027
CP1232	Derryiron 110 kV Busbar Uprate	29/04/2022	05/07/2023	31/12/2025
CP1235	Louth - Woodland 220 kV Uprate	28/04/2022	02/06/2025	03/12/2029
CP1301	Dundalk Louth 110 kV Line Uprate	07/02/2024	30/12/2025	30/11/2028
CP1311	Athlone - Lanesboro 110 kV line uprate	16/02/2023	30/09/2025	30/11/2029
CP1319	Blake Maynooth Newbridge Uprate	13/06/2025	30/09/2026	30/11/2029
CP1320	Barrymore Cahir Knockraha 110kV Line Uprate	31/07/2022	05/06/2025	02/11/2028
CP1325	Corduff Mullingar Partial Line uprate	30/09/2024	30/06/2026	30/11/2029
CP1389	Limerick - Rathkeale Line Uprate	12/08/2024	01/05/2026	03/12/2029
CP1390	Maynooth - Rinawade 110V line uprate	06/06/2023	07/03/2025	01/11/2029
CP1391	Maynooth-Derryiron-Timahoe 110 kV Line Uprate	05/04/2023	30/09/2025	08/11/2029
CP1403	Rinawade - Dunfirth 110 kV uprate	18/05/2023	02/06/2026	24/08/2029
CP1449	Midleton 110kV Transformer Uprate and Station works DSO	26/04/2024	01/02/2025	01/12/2025

Appendix F –Shaping Our Electricity Future upgrade projects

Table 10 - SOEF Upgrades from NDP 2024 Q2

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP0466	North South 400 kV Interconnector - RoI	21/09/2016	09/06/2025	26/06/2028
CP0501	Clashavoon- Dunmanway 110 kV Line - New Line	12/09/2009	18/12/2013	11/09/2020
CP0580	Carrickmines 220 kV GIS Development	15/12/2007	14/02/2012	10/10/2021
CP0692	Inchicore - 220 kV GIS Station Upgrade	21/09/2016	20/03/2019	30/11/2026
CP0622	Tarbert 220 kV Station Upgrade	29/05/2012	16/12/2014	27/09/2024
CP0624	Killonan 220 kV Station Refurbishment - Killonan Station Works	30/09/2011	01/04/2019	16/11/2027
CP0644	Bracklone 110 kV Station - DSO	19/03/2020	01/06/2022	01/06/2026
CP0646	Finglas 110 kV station redevelopment	28/08/2009	24/08/2012	31/10/2025
CP0647	Kilpaddoge 220-110 kV station	01/07/2009	30/07/2012	30/06/2022
CP0794	Aghada 220 kV Station Busbar Reconfiguration	21/12/2012	16/12/2014	30/11/2021
CP0796	Knockraha station & installation of additional couplers	21/09/2016	30/09/2016	30/11/2025
CP0693	Baroda 110 kV station - 2 x110 kV Trafo Bays DSO	14/06/2019	10/01/2020	01/04/2027
CP0808	Maynooth 220 kV Station Reconfiguration	16/03/2021	05/12/2024	08/03/2028
CP0726	Kilpaddoge - Knockanure 220 kV cable	10/03/2011	16/03/2016	30/06/2022
CP0871	Galway 110 kV Station Redevelopment Project	21/06/2017	21/12/2018	29/11/2024
CP0749	Offshore Placeholder Project*	27/03/2020	31/12/2024	30/06/2027
CP0919	Lanesboro 110 kV Station Redevelopment Project	28/12/2017	30/06/2020	30/11/2029
CP0933	Thurles 110 kV Station - Statcom	22/10/2015	19/10/2020	18/01/2024
CP0792	Finglas 220 kV Reconfiguration Project	22/04/2015	11/03/2018	31/10/2025
CP0934	Ballynahulla 220-110 kV Station - Statcom	22/10/2015	04/07/2019	21/11/2023
CP0935	Ballyvouskill 220-110 kV Station - Statcom	22/10/2015	04/07/2019	12/10/2023
CP0799	Louth 220 kV Station Refurbishment	25/09/2013	12/03/2020	28/02/2029
CP0949	Kilbarry 110 kV GIS Station	14/02/2017	04/03/2021	10/11/2025
CP0813	Trien 110 kV Station Works	04/04/2019	22/10/2021	31/10/2024
CP0816	North Connacht 110 kV Project	12/09/2018	20/12/2023	03/04/2028
CP0973	Knockraha Short Circuit Rating Mitigation	03/11/2016	21/06/2019	03/11/2025
CP0823	Maynooth - Turlough Hill 220 kV line refurbishment	30/06/2017	04/09/2025	30/10/2026
CP0824	Moneypoint - Oldstreet 400 kV line refurbishment	17/09/2014	20/06/2018	30/06/2023
CP0825	Oldstreet Woodland 400 kV Line refurbishment	25/03/2013	19/03/2015	07/07/2023
CP0829	Clashavoon Macroom No1 110 kV circuit & associated station works & 250 MVA transformer	25/06/2014	16/01/2018	26/11/2021
CP0983	Point on Wave Controller for Glanagow 220 kV Station	04/08/2016	23/05/2017	10/11/2025
CP1023	Letterkenny station redevelopment	17/06/2021	25/06/2025	28/09/2029
CP1077	Temporary 50 Mvar reactor in Ballyvouskil	01/08/2019	18/11/2020	22/10/2021
CP1113	Corduff 220 kV Station Deep Works	17/08/2020	02/06/2021	20/03/2025
CP0848	Castlebar-Cloon 110 kV Line Uprate-Refurb	16/09/2020	20/12/2023	01/12/2025

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP0857	Paint Towers Nationwide	17/02/2014	24/11/2014	30/10/2026
CP1200	Carrickmines Area 220 kV Cable Ducting**	30/09/2021	20/12/2022	
CP0867	Flagford - Louth 220 kV Line Refurbishment	20/04/2015	30/04/2020	28/11/2025
CP0868	Knockraha - Raffeen 220 kV line refurbishment	30/10/2015	25/09/2019	27/07/2021
CP1223	Bandon 110 kV Busbar Rating Needs	03/05/2023	30/06/2025	03/12/2029
CP1238	Arklow 220 kV Station Redevelopment****	20/04/2023	19/06/2026	20/08/2035
CP0872	West Dublin New 220-110 kV Station (Castlebagot 220 kV Station)	07/07/2014	17/05/2017	12/11/2024
CP0873	Dunstown - Moneypoint 400 kV Refurbishment	20/06/2014	05/12/2019	30/11/2026
CP0878	Binbane 110 kV Station - Gate 3 DSO Wind Generation	16/07/2014	25/05/2018	10/06/2022
CP1300	Climate Change Adaptation Measures**	05/04/2023	26/02/2026	
CP0894	Great Island 110-38 kV trafo DSO and bay works	10/03/2015	11/07/2016	02/07/2021
CP0901	Kilbarry - Knockraha 110 kV No 2 Line Refurbishment	13/05/2020	03/10/2022	10/11/2025
CP0902	Tarbert - Trien 110 kV No 1 Line Refurbishment	15/03/2016	27/09/2017	30/11/2022
CP0903	Cloon - Lanesboro 110 kV No 1 Line Refurbishment	15/06/2016	10/09/2020	05/10/2022
CP1316	Battery Upgrades-Diesel Generator upgrades*	29/03/2024	30/06/2025	30/12/2026
CP0585	Laois Kilkenny (Coolnabacky) 400 kV Station - New Station & Associated Lines & Station Works	16/04/2008	17/06/2016	02/11/2026
CP0668	Corduff - Ryebrook 110 kV line uprate	29/04/2011	10/05/2013	02/06/2023
CP0917	Prospect Tarbert 220 kV Cable Replacement Project	16/06/2021	13/12/2024	05/11/2026
CP0724	Thornsberry 110KV Station Busbar uprate	01/03/2011	07/11/2012	30/11/2023
CP0741	Trabeg 110 kV station - uprate 2 x 110 kV transformer bays and control room extension DSO	03/06/2020	29/04/2021	03/05/2027
CP0763	Clashavoon - Tarbert 220 kV line uprate	21/12/2011	20/03/2015	04/11/2022
CP0771	Castlebar 110 kV station busbar uprate	07/05/2013	25/01/2016	31/08/2022
CP0936	Knockanure Reactor	15/08/2015	15/04/2019	01/11/2021
CP0817	Flagford - Sliabh Bawn 110 kV circuit uprate	18/02/2021	02/06/2022	03/11/2025
CP0835	Coolnabacky - Portlaoise 110 kV line uprate	30/05/2018	10/02/2025	21/05/2026
CP0966	Kildare Meath***	24/03/2021	29/11/2024	22/09/2028
CP0967	Moneypoint 400 kV Series Capacitor	31/08/2015	13/12/2024	31/12/2027
CP0968	Dunstown 400 kV Series Capacitor	15/06/2016	13/12/2023	01/07/2027
CP0969	Oldstreet-Woodland 400 kV Series Capacitor	15/06/2016	13/12/2023	09/08/2027
CP0970	Cross Shannon 400 kV Cable	21/09/2016	16/12/2021	22/05/2026
CP0837	Bellacorrick 110 kV Station T141 Uprate	10/12/2014	07/12/2018	10/11/2023
CP0839	Moy 110 kV Station reconfiguration and busbar uprate	30/09/2014	07/10/2015	18/10/2024
CP0982	Flagford Sligo Capacity Needs*	19/06/2025		
CP0841	Arva - Carrick-on-Shannon 110 kV line uprate	21/05/2020	15/12/2021	28/11/2025
CP0984	Belcamp Shellybanks 220 kV Cable	01/07/2016	15/07/2020	10/09/2025
CP0866	Great Island - Kellis 220 kV Line Uprate	16/11/2022	30/06/2025	30/11/2029
CP1001	Corduff - Finglas 1 & 2 220 kV line refurbishment	10/11/2022	28/03/2024	30/10/2025
CP0869	Maynooth - Woodland 220 kV line uprate	15/08/2019	17/12/2020	29/11/2024
CP0883	Ballyvouskill Knockanure 220 kV Line Uprate	24/02/2016	28/09/2018	19/09/2022
CP0905	Louth - Rathrussan 110 kV No 1 Line Uprate	25/05/2016	30/06/2022	30/09/2025

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1009	Cruiserath (Amazon) 220 kV Permanent Connection	29/09/2017	25/11/2020	08/06/2024
CP1011	Carrickalangan 110 kV station	26/07/2019	18/12/2020	29/07/2022
CP1014	Gemini (Snugborough) Phase 2	19/04/2018	22/02/2019	17/12/2021
CP0907	Dalton 110 kV Busbar	01/10/2021	06/09/2023	24/11/2026
CP0913	Flagford Sligo 110 kV Line Conflict	05/02/2015	22/12/2015	31/10/2017
CP1020	Blundelstown 110 kV Station (Blundelstown Solar)	26/01/2018	11/09/2020	31/08/2023
CP1021	East Meath - North Dublin Reinforcement***	07/06/2022	30/06/2025	14/12/2029
CP1022	Maynooth - Turlough Hill PLC Replacement	22/06/2018	06/12/2019	10/07/2025
CP0945	Great Island Kilkenny 110 kV Uprate	31/03/2017	13/12/2019	30/06/2022
CP1025	Corduff 110 kV Station Development Project	03/05/2018	17/05/2019	27/05/2021
CP1029	Capital Project 1029	15/05/2019	31/10/2019	31/01/2023
CP1031	Flagford 220 kV Station Sprecher & Schuh CB Replacement	30/06/2018	11/07/2019	20/11/2026
CP1032	Cashla 220 kV Station Sprecher & Schuh CB Replacement	30/06/2018	11/07/2019	30/11/2026
CP1037	Kilbarry Line Conflicts	05/07/2018	20/11/2019	19/03/2021
CP1040	Rosspile 110 kV station	06/11/2018	15/07/2021	24/10/2022
CP1041	Timahoe 110 kV Station (Timahoe North Solar Farm)	06/11/2018	21/10/2021	02/09/2024
CP1047	Oweninny Power 2	05/11/2020	01/12/2021	01/12/2023
CP1048	Power Flow Control Scheme	04/02/2021	22/04/2025	29/11/2027
CP1049	Bracetown 220 kV Station (Clonee Phase 3)	14/06/2019	30/01/2020	30/06/2021
CP1051	Gallanstown Solar110 kV Station	06/11/2018	19/11/2020	08/08/2022
CP1055	Harristown Solar Farm	20/12/2018	19/11/2020	31/10/2026
CP1058	Shannonbridge A - New 220 kV transformer bay	16/05/2019	12/06/2020	30/04/2021
CP1059	Raghra 220 kV Station (Shannonbridge B)	28/05/2021	12/10/2022	30/06/2025
CP1060	Loughteague 110 kV solar farm	03/06/2020	05/11/2021	30/11/2026
CP1062	Drombeg Solar - 110 kV Station	28/06/2019	17/12/2020	13/05/2025
CP1064	Finglas Pantograph Replacement Project	20/12/2019	12/11/2020	31/10/2025
CP1065	ESB GWM - T104 Ardnacrusha	06/12/2018	11/04/2019	12/08/2021
CP1068	Tullabeg Solar 110 kV Station	05/09/2019	01/04/2021	20/12/2023
CP1069	Ballinknockane 110 kV Station (Ballinknockane Solar Farm)	16/05/2019	24/12/2020	30/04/2026
CP1073	Croaghaun West 110 kV Station (Oweninny 3 Wind Farm)	02/07/2020	24/01/2025	03/04/2028
CP1075	Kelwin Power Plant Phase 2	09/09/2019	22/09/2020	30/11/2020
CP0972	Wexford 110 kV Busbar Uprate	21/09/2016	14/05/2018	13/07/2021
CP1000	Lanesboro - Mullingar 110 kV Thermal Uprate	29/01/2021	10/09/2024	28/11/2025
CP1002	Cushaling - Newbridge 110 kV Thermal Uprate	30/03/2023	19/12/2025	30/11/2029
CP1083	Gorman Energy Storage	07/11/2019	17/12/2020	18/12/2021
CP1084	Lisdrumdoagh 110 kV Battery Storage	06/02/2020	26/05/2021	19/12/2021
CP1085	Aghada Battery Storage	05/12/2019	22/03/2021	03/12/2021
CP1086	Dunstown T4201 and Woodland T4201 Transformer replacement	01/05/2023	13/09/2024	30/10/2028
CP1087	Porterstown Battery Storage	02/07/2020	22/03/2021	04/02/2022

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1088	Greenlink Interconnector	20/02/2020	22/06/2022	21/10/2024
CP1089	Profile Park 110 kV Station	03/06/2020	31/08/2021	11/10/2022
CP1090	Rathmullan 110 KV Station	27/11/2020	18/06/2021	04/11/2023
CP1091	New 400 220 kV Transformer for Moneypoint Sub-Station	18/12/2019	02/10/2020	10/11/2023
CP1092	New 400 kV Strategic Spare Transformer	29/01/2020	15/12/2022	16/11/2027
CP1093	Barnageeragh 110 kV Station (Equinix)	09/03/2020	22/12/2020	01/11/2024
CP1094	Buffy 110 kV Station	10/02/2020	19/11/2020	05/05/2023
CP1096	Transformer protection upgrade, 6 Stations	10/02/2020	02/10/2020	28/11/2025
CP1099	Lisheen 3 Windfarm	25/06/2020	31/07/2021	18/11/2022
CP1100	Finglas - North Wall Cable Replacement***	28/06/2022	19/12/2024	02/07/2029
CP1003	Cushaling - Portlaoise 110 kV line uprate	05/07/2023	05/12/2025	30/11/2029
CP1102	Grangecastle South	13/05/2020	08/10/2021	12/05/2023
CP1103	Corduff FlexGen	02/04/2020	26/07/2022	07/02/2024
CP1104	Pollaphuca Refurbishment Project	08/09/2023	13/06/2025	29/05/2028
CP1105	Poolbeg BESS	16/04/2020	22/04/2022	12/06/2023
CP1106	Poolbeg FlexGen	16/04/2020	20/01/2022	06/11/2023
CP1109	Gorman and Connected Stations 220-110 kV Protection Upgrade	13/05/2020	25/06/2021	01/12/2025
CP1111	Ballydine, Cahir and Connected Stations 110 kV Protection Upgrade	21/05/2020	18/07/2021	28/11/2025
CP1112	Limerick and Connected Stations 110 kV Protection Upgrade	21/05/2020	19/12/2023	29/10/2026
CP1004	Killonan - Limerick No 1 110 kV Uprate	09/09/2024	30/09/2026	05/12/2029
CP1114	Platin and Connected Stations 110 kV Protection Upgrade	13/05/2020	18/08/2021	28/11/2025
CP1115	Drybridge and Connected Stations 110 kV Protection Upgrade	13/05/2020	16/04/2021	28/11/2025
CP1116	Tipperary, Cahir and Connected Stations 110 kV Protection Upgrade	13/05/2020	14/07/2021	27/11/2025
CP1117	Irishtown FlexGen-BESS	25/06/2020	22/04/2022	20/12/2023
CP1119	Cashla Flagford 220 kV Line Refurbishment	26/02/2021	20/02/2025	18/12/2025
CP1120	Cloncreen 110 kV Station	06/08/2020	20/05/2021	01/08/2022
CP1017	400 kV Voltage Uprate Trial	25/09/2017	28/04/2020	31/03/2022
CP1122	Physical Security of Transmission Stations - Dublin Region**	01/09/2020	08/12/2023	
CP1123	Physical Security of Transmission Stations - South Region**	07/05/2021	08/12/2023	
CP1124	Physical Security of Transmission Stations - North Region**	11/06/2021	08/12/2023	
CP1125	Physical Security of Transmission Stations - Central Region**	14/07/2021	08/12/2023	
CP1126	Mully Graffy Windfarm	06/08/2020	30/04/2025	02/11/2026
CP1127	Lenalea Windfarm	01/10/2020	05/10/2021	04/08/2023
CP1128	Ballyvatta solar farm	04/11/2021	01/09/2025	26/01/2027
CP1129	Aghada BESS 02	05/11/2020	17/12/2021	02/02/2024
CP1130	Cloghan Wind Farm- New 110 kV transformer Bay	06/08/2020	05/08/2021	07/11/2022
CP1131	Gillinstown Solar (Garballagh 110 kV Station)	05/11/2020	17/12/2021	10/02/2023

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1132	Cow Cross New 110 kV Transformer	02/09/2020	07/10/2021	02/10/2024
CP1135	Golagh Windfarm Modification	05/11/2020	03/09/2021	01/04/2022
CP1136	Deenes 110 kV Station (Gaskinstown Solar Farm)	19/11/2020	14/12/2022	09/10/2024
CP1137	Carlow, Kellis 110 kV Protection Upgrade	01/10/2020	01/09/2021	10/06/2025
CP1139	Sligo & Srananagh 220 & 110 kV Protection upgrade	01/10/2020	16/07/2021	28/11/2025
CP1140	Athy, Carlow and Connected Stations 110 kV Protection Upgrade	01/10/2020	16/07/2021	10/11/2025
CP1141	Kellis Station 220 kV & 110 kV Protection Upgrade	01/10/2020	01/09/2021	10/11/2025
CP1142	Firlough 110 kV Station (Firlough WF)	04/02/2021	30/04/2026	30/06/2027
CP1143	Derrylahan 110 kV Station (Blackwater Bog Solar)	13/08/2024	11/06/2025	17/02/2027
CP1019	Cashla Tynagh 220 kV Line Fibre Wrap	08/09/2017	11/06/2018	30/04/2021
CP1145	Rathnaskilloge 110 kV Station (Rathnaskilloge Solar Farm)	07/01/2021	25/12/2022	15/10/2024
CP1146	Carrickmines - Poolbeg 220 kV Cable Replacement***	16/12/2021	29/05/2026	20/06/2029
CP1078	Lanesboro – Sliabh Bawn 110 KV Line Uprate	18/02/2021	06/03/2024	28/11/2025
CP1150	Inchicore - Poolbeg 2 220 kV Cable Replacement***	16/12/2021	18/12/2025	28/09/2029
CP1152	Arva and Connected Stations 110 kV Protection Upgrade	12/11/2020	01/09/2021	12/12/2025
CP1153	Oldstreet Tynagh & Cashla 400 kV and 220 kV Protection Upgrade	12/11/2020	05/08/2021	28/11/2025
CP1154	Belcamp Land Acquisition**	19/11/2020	30/08/2024	
CP1079	Binbane - Cathaleen_s Fall 110 kV Line uprate	29/01/2021	07/06/2023	11/09/2024
CP1101	Mullagharlin 110 kV Station - 2 New DSO Transformer Bays	04/03/2020	06/08/2020	17/12/2021
CP1157	Inchicore - Poolbeg 1 220 kV Cable Replacement***	20/12/2021	18/12/2025	03/08/2029
CP1158	Rattin 110 kV Station (Clonfad Solar)	19/01/2021	22/12/2022	31/10/2025
CP1159	Cullenagh and connected stations protection upgrade	04/12/2020	04/11/2021	27/11/2025
CP1160	Coolroe, Inniscarra & connected stations protection upgrade	04/12/2020	04/11/2021	30/11/2024
CP1161	Cathaleens Fall and connected stations 110 kV protection upgrade	04/12/2020	01/12/2021	28/11/2025
CP1162	Irishtown, Shellybanks and connected stations 220 kV protection upgrade	04/02/2021	04/11/2021	30/11/2026
CP1163	Butlerstown, Killoteran & Waterford 110 kV protection upgrade	04/02/2021	04/11/2021	10/11/2025
CP1164	West Cork 110 kV protection upgrade	04/02/2021	03/02/2022	28/11/2025
CP1121	Arklow-Great Island-Lodgewood 220kV Line Uprate	20/12/2024	30/09/2025	30/09/2028
CP1144	Kinnegad 110 kV station, Derryiron 110 kV bay conductor uprate	22/01/2021	01/12/2021	28/11/2025
CP1149	Newbridge - Cushaling 110 kV line, Stations bay conductors and lead-in conductor uprate	22/01/2021	04/11/2021	10/11/2026
CP1155	Glenree - Moy 110 kV Line Uprate	15/04/2021	20/12/2023	30/06/2025
CP1173	Glencloosagh Phase 1 - Rotating Stabiliser	06/05/2021	15/08/2024	11/09/2026
CP1174	Aghaleague 110 kV Station	02/03/2022	17/03/2025	31/12/2027
CP1175	Kishoge 110 kV Station (Winthrop Engineering)	09/08/2021	19/03/2024	22/11/2024
CP1176	Huntstown T2002 Customer Transformer connection	26/05/2021	31/07/2021	29/10/2021
CP1177	Whitegate 110 kV Station Refurbishment Project	30/09/2024	01/09/2025	01/12/2028
CP1179	Cloghran Phase 2 Transformer Replacement	26/05/2021	12/08/2021	29/04/2022

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1180	Moneypoint Synchronous Condenser	05/07/2021	10/02/2022	06/09/2022
CP1156	Sligo 110 kV Station - Srananagh 1 & 2 Bay uprates	18/06/2021	04/04/2022	28/11/2025
CP1182	Transformer Restoration Project*	31/03/2023	26/09/2024	30/11/2029
CP1183	Mooretown 220 kV Station	06/04/2022	21/10/2024	13/07/2026
CP1186	Agannygal, Ennis and connected stations 110 kV Protection Upgrade	05/08/2021	08/09/2022	31/12/2025
CP1188	Kilcarbery 110 kV Station (Profile Park Power Co 1 Ltd)	08/07/2021	30/09/2024	07/08/2026
CP1190	Poolbeg 220 kV Station* ***	16/12/2021	17/12/2024	31/07/2027
CP1166	Gorman - Platin 110 kV line uprate	18/03/2021	30/10/2024	05/03/2026
CP1194	Woodland 400 kV Station Redevelopment	21/03/2022	14/12/2023	30/11/2028
CP1195	Turlough Hill 220 kV Station Refurbishment	06/09/2023	01/07/2026	03/12/2029
CP1196	Arklow - Ballybeg - Carrickmines 110 kV capacity Needs	28/06/2024	09/07/2027	19/12/2031
CP1197	Dunstown Asset Replacements	31/12/2021	19/12/2023	03/12/2029
CP1198	Barnakyle MIC Increase	27/10/2022	30/06/2025	30/06/2026
CP1167	Drybridge - Old bridge - Platin 110 kV line uprate	18/03/2021	27/10/2023	25/11/2025
CP1168	Cashla-Salthill 110 kV Thermal Uprate	18/03/2021	26/11/2024	30/06/2026
CP1201	Bogtown 110 kV Station (Moanvane Windfarm)	07/10/2021	10/11/2022	15/05/2024
CP1207	Lisheen - Thurles 110 kV Protection Upgrade	04/11/2021	25/10/2022	30/07/2025
CP1209	Brown Boveri Circuit Breaker Replacements	31/03/2022	20/12/2023	01/12/2028
CP1172	Crane - Wexford 110 kV Line uprate	17/06/2021	09/10/2023	28/11/2025
CP1181	Corduff Platin 110 kV Line Conflict	30/08/2021	06/05/2022	30/10/2023
CP1213	Belcamp 220 kV Busbar Extension* ***	15/12/2021	27/09/2024	23/12/2027
CP1214	Fingal to East Meath Grid Reinforcement* ***	12/12/2024		
CP1215	Knockraha station Celtic IC Non contested works	23/02/2022	06/12/2023	31/12/2026
CP1216	Poolbeg - North Wall 220 kV Cable Replacement***	31/05/2022	18/08/2025	18/12/2028
CP1217	Philipstown 110 kV Station (Cushaling Wind Farm)	03/02/2022	25/10/2023	30/06/2025
CP1219	Lickny 110 kV Station (Coole Wind Farm)	01/02/2022	30/03/2025	01/06/2026
CP1220	Garrintaggart 110 kV Station - Pinewoods Wind Farm	01/02/2022	30/01/2024	31/10/2026
CP1221	Mulgeeth 110 kV Station - Drehid Wind Farm	01/02/2022	31/03/2025	25/09/2026
CP1222	Knockraha 220 kV Transformer Replacement	19/01/2022	15/12/2022	27/11/2026
CP1191	Cashla-Galway 110 kV cot 1 Line uprate*	21/11/2022	29/12/2025	30/11/2029
CP1224	Lysaghtstown 110 kV Station	03/02/2022	02/03/2023	21/12/2023
CP1225	Finglas - Corduff 220 kV Protection Upgrade	03/02/2022	13/12/2022	30/11/2026
CP1226	Kildare Dublin Grid Reinforcement* ***	01/08/2025		
CP1227	Cashla and Connected Stations 220 kV & 110 kV Protection Upgrade	02/02/2022	21/09/2022	30/11/2026
CP1228	Shannonbridge and Connected Stations 220 kV & 110 kV Protection Upgrade	03/02/2022	26/09/2022	30/11/2026
CP1229	Lislea 110 kV Station - Drumlins WF	29/04/2022	22/12/2022	09/12/2023
CP1230	Darndale Phase 2 - 3 110 kV customer connections in Darndale 110 kV station	17/06/2022	19/12/2022	27/08/2024
CP1231	Knockdrin 110 kV Station (Yellow River Wind Farm)	07/04/2022	05/09/2023	15/09/2025
CP1199	Derryiron - Thornsberry 110 kV Line Uprate	19/11/2021	20/12/2023	25/10/2027
CP1233	Donegal - Srananagh Corridor*	19/06/2025		

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1234	Laurencetown 110 kV Station (Clonin North Solar Farm)	07/04/2022	16/10/2023	14/11/2025
CP1211	Bandon Dunmanway 110 kV circuit thermal capacity	21/01/2022	30/09/2024	27/11/2026
CP1236	Timoney 110 kV Station	07/07/2022	30/05/2024	31/03/2025
CP1237	Ferry View 110 kV Station (Knockranny Wind Farm)	07/07/2022	01/10/2025	01/10/2026
CP1212	Bandon Raffeen 110 kV circuit thermal capacity	28/01/2022	31/12/2024	31/12/2027
CP1240	Coumaclovane Solar Extension	31/08/2022	30/09/2025	30/10/2026
CP1241	Belcamp BSP Transfer	01/09/2022	31/05/2024	01/07/2026
CP1242	Great Island 220-110 kV transformer upgrades	07/12/2022	20/12/2023	01/11/2028
CP1244	North Arklow Solar Plus Storage	06/10/2022	26/02/2024	30/09/2025
CP1245	Castletreasure 110 kV Station (Ballinrea Solar Park)	09/09/2022	30/09/2024	23/03/2026
CP1246	Coomnaclohy 110 kV Station (Knocknamork Wind and Solar Park)	07/07/2022	31/12/2024	13/02/2026
CP1247	New Ballyvouskill 220-110 kV Transformer	10/05/2022	28/08/2023	28/12/2026
CP1248	Harlockstown Solar (Gallanstown Ext)	01/06/2022	20/12/2023	08/03/2024
CP1249	Porterstown Battery	01/06/2022	30/11/2023	24/03/2025
CP1250	Sprecher and Schuh Circuit Breaker replacement	09/10/2023	12/06/2025	12/03/2030
CP1251	North Wall Station refurbishment* ***	03/07/2024	30/06/2025	
CP1255	Castlelost FlexGen	04/05/2022	28/08/2023	10/04/2025
CP1256	Greener Ideas Profile Park	05/05/2022	22/05/2024	02/07/2025
CP1257	Kilshane Power Station	05/05/2022	13/10/2024	26/04/2026
CP1259	Cuilleen Power	05/05/2022	04/04/2024	24/11/2025
CP1260	Dennistown 110 kV Station (Tracystown Solar)	30/05/2022	15/08/2024	30/04/2026
CP1262	Shanonagh 110kV Station	10/11/2022	15/08/2024	31/10/2026
CP1264	Rhode ESS	23/06/2022	01/09/2023	26/06/2026
CP1265	Corkagh 110kV Station Phase 2	26/07/2022	25/10/2023	24/07/2025
CP1267	Arklow 220kV - DSO Ballymanus WF	30/09/2022	06/11/2023	01/04/2026
CP1268	Dunfirth 110kV - DSO Dysart PV	30/09/2022	02/09/2024	01/07/2026
CP1269	The Dell Solar Lodgewood 220kV Crory Station*	01/09/2022	20/12/2023	16/04/2026
CP1272	Derryiron Temporary By Pass Project	12/10/2022	28/07/2023	16/04/2024
CP1273	Dublin Central Bulk Supply Point* ***	18/09/2024		
CP1274	CP1274 Temporary 220kV Cable Diversion of Castlelost Site - Major Conflict	06/09/2022	12/06/2023	22/12/2023
CP1232	Derryiron 110 kV Busbar Uprate	29/04/2022	05/07/2023	31/12/2025
CP1235	Louth - Woodland 220 kV Uprate	28/04/2022	02/06/2025	03/12/2029
CP1277	Intel 110kV line diversion	30/11/2022	06/11/2024	11/05/2026
CP1280	Ballyragget Future Proofed Cable	25/01/2024	16/12/2024	01/04/2026
CP1281	Batter Lane DSO Station	09/02/2023	31/10/2024	30/09/2026
CP1282	Clogher-Drumkeen 110 kV Line Alteration	31/03/2023	25/08/2025	31/12/2026
CP1284	Walterstown 110kV Station DSO	19/01/2024	10/10/2025	10/10/2027
CP1285	Barnahely-Raffeen No2 110 kV Line	04/08/2023	16/04/2024	21/02/2028
CP1286	Tonroe 110kV Station DSO	19/07/2023	10/09/2024	13/03/2026
CP1287	Inchicore Number 2 220kV CAR Cable Diversion	15/10/2023	06/11/2024	10/12/2025

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1275	Cashla-Galway 110 kV cct 2 Uprating*	21/11/2022	30/12/2025	31/12/2029
CP1296	Rinawade 110 kV GIS Station (Liffey Park)	06/11/2023	18/09/2024	31/03/2027
CP1297	Glansillagh 220kV Station S	08/06/2023	22/05/2025	01/11/2028
CP1276	Cashla-Galway 110 kV cct 3 Uprating	21/11/2022	30/12/2025	31/12/2029
CP1301	Dundalk Louth 110 kV Line Uprate	07/02/2024	30/12/2025	30/11/2028
CP1302	Killonan Shannonbridge 220 kV Line Refurbishment	10/06/2025	01/06/2027	01/06/2030
CP1304	Strategic Spares for OHL, Stations and Cables**	08/03/2023	20/12/2024	
CP1310	Agannygal-Ennis Line Refurbishment	09/12/2024	30/09/2026	30/11/2029
CP1291	Carlow 110 kV Station Busbar Thermal Capacity Need	07/06/2023	20/12/2024	22/11/2029
CP1311	Athlone - Lanesboro 110 kV line uprate	16/02/2023	30/09/2025	30/11/2029
CP1314	Baroda - Monread 110 kV circuit 1 (DLR)	03/07/2024	01/03/2027	01/10/2030
CP1315	Baroda - Newbridge 110 kV circuit 1 (DLR)	03/07/2024	01/03/2028	01/10/2030
CP1312	Athy - Carlow 110 kV circuit 1	05/06/2024	15/11/2027	01/01/2030
CP1318	Binbane - Clogher - Cathaleens Fall - 110 kV Clogher tie in	02/12/2024	01/12/2027	17/12/2029
CP1319	Blake Maynooth Newbridge Uprate	13/06/2025	30/09/2026	30/11/2029
CP1320	Barrymore Cahir Knockraha 110kV Line Uprate	31/07/2022	05/06/2025	02/11/2028
CP1321	Cashla - Dalton 110 kV circuit 1 (DLR)	23/03/2023	28/06/2024	28/11/2025
CP1322	Cathaleens Fall - Coraclassy 110 kV circuit 1 (DLR)	05/04/2023	30/12/2024	28/11/2025
CP1324	Clashavoon - Knockraha or Cullenagh - Knockraha 220 kV lines (PFC)	10/09/2025	08/09/2026	31/10/2028
CP1325	Corduff Mullingar Partial Line uprate	30/09/2024	30/06/2026	30/11/2029
CP1327	Drumkeen - Clogher 110 kV circuit 1	05/12/2024	19/07/2026	10/09/2028
CP1329	Stonestown 110 kV Station_Derrinlough Wind Farm	11/01/2023	02/10/2023	04/09/2024
CP1331	Rosspile 110kV Station (Rosspile 2 Storage Facility)	10/09/2024	30/05/2025	26/07/2027
CP1332	ECP 2-2-12 - Connections Project Placeholder	27/09/2024	30/09/2025	28/06/2028
CP1333	ECP 2-2-13 - Connections Project Placeholder	27/09/2024	15/02/2025	16/11/2027
CP1334	Newbarn 110 kV Station (Fieldstown Solar Farm)	01/08/2023	29/11/2024	01/06/2027
CP1335	Garballagh 110kV Station (Garballagh 2 Solar Farm)	20/07/2023	21/04/2025	30/01/2026
CP1338	Effernoge 110kV Station (Tomsallagh Solar)	01/11/2023	28/05/2025	15/07/2027
CP1341	Cloon 110 kV_Barnacurragh Solar Park	04/04/2023	13/09/2024	28/04/2027
CP1342	Drumcamill 110 kV Station (Monvallet Hybrid Solar and Battery Farm)	26/09/2023	09/09/2024	08/06/2027
CP1344	ECP 2-2-23 - Connections Project Placeholder	27/09/2024	28/01/2025	28/10/2027
CP1345	Golagh 110kV Station - Barnesmore WF Repower	16/02/2024	27/05/2025	25/11/2027
CP1346	Meath Hill 110 kV Station (Ardagh South Energy Storage)	27/03/2024	30/03/2025	31/08/2027
CP1347	Dunbrody 110 kV Station (Kilmannock Battery Storage Facility Phase 2)	14/06/2023	01/04/2025	08/06/2027
CP1351	Ballynadrideen 110 kV Station_Ballyroe Solar*	06/01/2023	30/05/2024	22/10/2026
CP1352	Gortatleva 110 kV Station (Ballymoneen Solar Park)	09/04/2023	09/09/2024	28/04/2027
CP1353	Bendinstown 110kV Station (Garreenleen Solar)	20/04/2023	15/08/2024	20/04/2027
CP1354	Coolshamroge 110 kV Station (Manusmore Solar Park)	05/04/2023	30/03/2025	30/10/2026
CP1355	Corbetstown 110 kV Station (Garr Solar and Storage)	06/03/2024	31/03/2025	31/12/2027

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1356	Gortawee 110 kV Station (Mucklagh Battery Storage Facility)	07/08/2024	06/08/2025	31/12/2027
CP1357	Kilcush Solar (Cushaling)	17/09/2024	30/06/2025	21/02/2028
CP1358	Ballycosney BESS	17/09/2024	31/03/2025	31/12/2028
	ECP 2-3-13 - Connections Project Placeholder	10/12/2024	30/06/2025	31/03/2029
	ECP 2-3-14 - Connections Project Placeholder	10/12/2024	30/06/2025	31/03/2027
	ECP 2-3-15 - Connections Project Placeholder	10/12/2024	30/06/2025	31/03/2028
	ECP 2-3-16 - Connections Project Placeholder	10/12/2024	30/06/2025	31/03/2028
	ECP 2-3-17 - Connections Project Placeholder	30/01/2025	30/06/2025	31/03/2028
	ECP 2-3-18 - Connections Project Placeholder	30/01/2025	30/06/2025	31/03/2028
	ECP 2-3-19 - Connections Project Placeholder	30/01/2025	30/06/2025	31/03/2028
CP1366	Lysaghtstown 110 kV Station (Lysaghtstown Solar Farm Phase 2)	30/09/2024	31/03/2025	31/12/2027
	ECP 2-3-20 - Connections Project Placeholder	14/02/2025	30/06/2025	31/03/2028
	ECP 2-3-21 - Connections Project Placeholder	14/02/2025	30/06/2025	31/03/2028
	ECP 2-3-22 - Connections Project Placeholder	14/02/2025	30/06/2025	31/03/2029
	ECP 2-3-23 - Connections Project Placeholder	20/03/2025	31/12/2025	31/03/2027
	ECP 2-3-24 - Connections Project Placeholder	20/03/2025	30/06/2025	31/03/2028
	ECP 2-3-25 - Connections Project Placeholder	30/09/2024	30/09/2025	30/06/2028
	ECP 2-3-26 - Connections Project Placeholder	30/09/2024	30/09/2025	30/06/2027
CP1374	Ballyvouskill Battery Storage	30/01/2025	03/02/2026	31/12/2027
CP1375	Boggeragh 110 kV Station (Carragraigue Solar Extension)	05/06/2024	31/03/2025	16/12/2027
CP1376	Pollagh 110kV New Station (Shronowen Wind Farm)	15/08/2024	15/09/2025	11/04/2028
CP1377	Rathcoon 110 kV Station (Gorman Solar Farm)*	03/07/2024	15/07/2025	30/11/2027
CP1378	Cooleeny 110 kV Station (Killoran Solar PV Farm)	07/08/2024	31/03/2025	31/12/2027
CP1379	Cauteen 110 kV Station (Barnaleen Solar Farm)	07/08/2024	31/03/2025	31/12/2027
CP1380	Craddanstown 110kV station (Bracklyn WF)	16/09/2024	01/09/2025	31/12/2027
CP1381	Flagford - Sliabh Bawn - Lanesboro 110 kV lines (PFC)	12/12/2025	19/11/2027	01/01/2030
CP1383	Killonan - Knockraha 220 kV line (PFC)	10/09/2025	17/11/2027	01/01/2030
CP1384	Kilteel - Maynooth 110 kV (DLR)	30/11/2024	01/03/2027	01/11/2030
CP1387	Letterkenny - Cathaleen_s or Letterkenny - Clogher 110 kV lines (PFC)	10/09/2025	06/02/2026	31/03/2028
CP1388	Letterkenny - Tievebrack - Binbane 110 kV lines (PFC)	10/09/2025	19/07/2026	10/09/2028
CP1389	Limerick - Rathkeale Line Uprate	12/08/2024	01/05/2026	03/12/2029
CP1390	Maynooth - Rinawade 110V line uprate	06/06/2023	07/03/2025	01/11/2029
CP1391	Maynooth-Derryiron-Timahoe 110 kV Line Uprate	05/04/2023	30/09/2025	08/11/2029
CP1393	Offshore Phase 1 Project 1*	15/12/2022	31/12/2024	30/06/2027
CP1394	Offshore Phase 1 Project 2*	15/12/2022	31/12/2024	30/06/2027
CP1396	Offshore Phase 1 Project 4*	15/12/2022	31/12/2024	30/06/2027
CP1397	Offshore Phase 1 Project 5*	15/12/2022	31/12/2024	30/06/2027
CP1398	Offshore Phase 1 Project 7*	15/12/2022	31/12/2024	30/06/2027
CP1402	Platin 110kV Station Refurbishment	01/09/2024	01/09/2025	01/09/2029
CP1403	Rinawade - Dunfirth 110 kV uprate	18/05/2023	02/06/2026	24/08/2029

Project Number	Project Name	Capital Approval	Project Approval	Energisation Instruction
CP1404	Sligo - Srananagh - Corderry 110 kV lines (PFC)	11/12/2025	18/11/2027	01/01/2030
CP1412	Knockraha 220 kV Transformer Replacement (T2102)	08/03/2023	17/05/2024	02/11/2027
CP1414	Kilcumber 110 kV Station (Cloncreen Battery Phase 2)*	06/09/2023	17/05/2024	03/10/2024
CP1418	Oaklands 110 kV Station Crag Wicklow	24/07/2023	13/07/2025	13/01/2028
CP1422	Cashla - Prospect 220kV	12/03/2025	03/09/2026	30/11/2029
CP1423	Cashla - Tynagh 220kV	14/04/2025	16/09/2026	30/11/2029
CP1428	Cashla Dalton 110kV Thermal Capacity Increase	12/12/2023	30/03/2025	30/09/2029
CP1429	Castlebar Dalton 110kV Thermal Capacity Increase	12/12/2023	04/12/2025	29/09/2028
CP1435	Drumline Ennis 110kV circuit DLR and related works*	04/03/2024	12/06/2025	29/09/2028
CP1436	Ardnacrusha Ennis 110kV circuit DLR and related works	04/03/2024	31/03/2025	20/12/2027
CP1437	Clahane-Tralee 110 kV Circuit Alteration CAR*	27/09/2023	02/07/2024	11/10/2024
CP1442	Fosterstown 110 kV Station Connection DSO*	08/02/2024	22/12/2025	27/11/2028
CP1449	Midleton 110kV Transformer Uprate and Station works DSO	26/04/2024	01/02/2025	01/12/2025
CP1450	Ardnacrusha Drumline 110kV thermal capacity needs	04/03/2024	30/06/2025	30/06/2028
CP1456	Clutterland 110kV Station Phase 2	20/02/2024	20/12/2024	20/02/2026
CP1460	Balruntagh 110kV Station (Harmony Solar)	30/04/2024	26/03/2025	28/02/2028
CP1464	Tullabeg Phase 2	30/06/2024	31/03/2025	29/03/2028
CP1467	Caherhurly 110 kV Station (Carrownagowan Wind Farm)	01/05/2024	26/06/2025	23/12/2027
CP1468	Kilvinoge 110 kV Station (Castlebanny Wind Farm)	01/05/2024	26/06/2025	27/12/2027
CP1476	Rathlockstown Solar	15/10/2024	15/09/2025	30/03/2027
CP1480	Cruiserath 220kV Station Phase 3	29/05/2024	28/03/2025	30/03/2026