



Capacity Market – Final Auction Information Pack FAIP2122T-2

This Final Auction Information Pack provides information relating to items listed within Section F.5 of the Capacity Market Code for the Capacity Auction, for the Capacity Year 2021/2022, which is expected to be held on 5th December 2019. The auction will be referred to within this document as the 2021/2022 T-2 Capacity Auction.

In accordance with D.1 of the Capacity Market Code, the Capacity Year 2021/2022 commences on 30th September 2021 and ends on 30th September 2022. The Capacity Year will be referred to in this document as the 2021/2022 Capacity Year.

All information set out in this document relates solely to the 2021/2022 T-2 Capacity Auction.

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1. Introduction

1.1 Background and purpose

This Final Auction Information Pack¹ provides information relating to items listed within Section F.5 of the Capacity Market Code for the Capacity Auction for the Capacity Year 2021/2022, which is expected to be held on 5th December 2019. The auction will be referred to within this document as the 2021/2022 T-2 Capacity Auction.

In accordance with D.1.1.1 of the Capacity Market Code, the Capacity Year 2021/2022 is the period commencing at the start of the Trading Day beginning at 23:00 on 30th September 2021 and ending at the end of the Trading Day ending at 23:00 on 30th September 2022.

All information set out in this document relates solely to the 2021/2022 T-2 Capacity Auction.

In order to participate in a Capacity Auction, a party must be a fully registered and qualified participant in the Capacity Market. Information relating to the registration process can be found via the I-SEM Capacity Market Registration section of the SEMO website². Please note that the registration and qualification period for the 2021/2022 T-2 Capacity Auction has now closed.

Per Section F.5.1.5 of the Capacity Market Code, a Participant is responsible for conducting its own analysis before acting in reliance of any information contained within this document.

1.2 Units

For quantities specified in MW, 'MW' refers to a megawatt of de-rated capacity, unless otherwise stated.

For prices specified in €/MW per year or £/MW per year, 'year' refers to a 12-month year, unless otherwise stated.

Settlement of prices in units based on a 12 month year is provided for in accordance with paragraph F.17.1.1 of the Trading and Settlement Code.

In this document, unless specifically stated, Euro (€) values will apply to Participants located in Ireland and Sterling (£) values will apply to Participants located in Northern Ireland. The Capacity Auction will be conducted in Euros, with Sterling offers converted to Euros at the Annual Capacity Payment Exchange Rate.

1.3 Contact Details

The following are the official contact details that should be used for any queries you may have relating to a Capacity Auction:

Postal Correspondence:

FAO: Front Office
Capacity Market Operations
The Oval
160 Shelbourne Road
Ballsbridge
Dublin 4
D04 FW28
Ireland

Email Correspondence:

capacitymarket@sem-o.com

Phone Correspondence:

If you have any questions on the application process or details please contact:
1800 726772 (ROI) or 0800 0726772 (NI)
+353 (1) 2370584 (International)

¹ Capitalised terms in this document have the definition ascribed to them in the Capacity Market Code.

² <https://www.sem-o.com/>

1.4 Disclaimer

EirGrid plc (EirGrid) and SONI Limited (SONI) in their capacity as System Operators are required by the Capacity Market Code to publish the Final Auction Information Pack for a Capacity Auction. This publication discharges that obligation.

EirGrid and SONI have followed accepted industry practice in the collection and analysis of data available. Prior to taking business decisions, interested parties should not rely on the data set out in this information pack as a substitute for obtaining separate and independent advice in relation to the matters covered by this information pack. Information in this document does not amount to a recommendation or advice in respect of any possible investment. The use of information contained within this information pack for any form of decision making is done so at the user's own risk. This information pack should be read in conjunction with the Capacity Market Code and Trading and Settlement Code including any amendments to these rules.

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The Oval
160 Shelbourne Road
Ballsbridge
Dublin 4
D04 FW28
Ireland

2. Capacity Market Code Items

This document contains values for items listed within Section F.5.1.3 of the I-SEM Capacity Market Code. Information determined by the Regulatory Authorities per Section F.3 is described as approved.

2.1 Final Demand Curve

F.5.1.3 (a) the final Demand Curve for the Capacity Auction provided by the Regulatory Authorities under section F.3;

In accordance with Section F.3.1.3 of the Capacity Market Code the Regulatory Authorities have determined the Demand Curve to be employed in this Capacity Auction. The Final Demand Curve given below includes adjustments for non-participating generation:

Table 1 – Final Demand Curve to be used in the CY2021/22 T-2 Capacity Auction

De-Rated Capacity (MW)	Demand Curve Point (€/MW per year)
0	138,450
6,756	138,450
6,756	92,300
7,769.4	0

2.2 Auction Price Cap

F.5.1.3 (b) the final Auction Price Cap for the Capacity Auction (in Euro and Sterling);

Consistent with what was set out in the SEM Committee decision ([SEM-19-018](#)), the approved Auction Price Caps are set out in Table 2 below:

Table 2 – Auction Price Cap

Auction Price Cap (€/MW per year)	Auction Price Cap (£/MW per year)
138,450	125,615.69

2.3 Existing Capacity Price Cap

F.5.1.3 (c) the final Existing Capacity Price Cap for the Capacity Auction (in Euro and Sterling);

Consistent with what was set out in the SEM Committee decision ([SEM-19-018](#)), the approved Existing Capacity Price Caps are set out in Table 3 below:

Table 3 – Existing Capacity Price Cap

Existing Capacity Price Cap (€/MW per year)	Existing Capacity Price Cap (£/MW per year)
46,150	41,871.90

2.4 Locational Capacity Constraints

F.5.1.3 (d) for each Locational Capacity Constraint applicable to the Capacity Auction:

(i) The final Locational Capacity Constraint Information;

The Regulatory Authorities have determined the final Locational Capacity Constraint Area (LCCA) minimum MWs to be employed in this Capacity auction. These include adjustments (where appropriate) associated with the CRM Reserves decision made by the SEM Committee in October 2019. Therefore the final LCCA minimum MWs are as follows:

Table 4 – Level 1 Final Locational Capacity Constraint Area Minimum MWs for the CY2021/22 T-2 Capacity Auction

Level	Locational Capacity Constraint Area Name	Associated Level 2 Locational Constraint Area(s)	Locational Capacity Constraint Area Nodes	Minimum MW
1	L1-1: Northern Ireland	-	All nodes within Northern Ireland	1,830
1	L1-2: Ireland	L2-1: Greater Dublin	All nodes within Ireland	5,616

Table 5 – Level 2 Final Locational Capacity Constraint Area Minimum MWs for the CY2021/22 T-2 Capacity Auction

Level	Locational Capacity Constraint Area Name	Associated Level 1 Locational Constraint Area	Locational Capacity Constraint Area Nodes	Minimum MW
2	L2-1: Greater Dublin	L1-2: Ireland	<ol style="list-style-type: none"> 1. Adamstown 110 kV station [ADM] 2. Artane 110kV station [ART] 3. Baltrasna 110kV station [BAL] 4. Barnakyle 110kV station [BKY] 5. Belcamp 220/110 kV station [BLC] 6. Belgard Road 110 kV station [BGD] 7. Blackrock 110kV station [BLA] 8. Cabra 110kV station [CAB] 9. City West 110kV station [CTW] 10. Cloghran 110kV station [CLG] 11. Clonee 220kV station [CLN] 12. College Park 110kV station [COL] 13. Cookstown 110/38kV station [COO]³ 14. Corduff 220/110kV station [CDU] 15. Corkagh 110kV station [CKG] 16. Cromcastle 110kV station [CRM] 17. Cruiserath 220kV station [CRH] 18. Dardistown 110kV station [DTN] 19. Finglas 220/110kV station [FIN] 20. Fortunestown 110kV station [FTT] 21. Francis Street 110kV station [FRA] 22. Glasmore 110kV station [GLA] 23. Grange 110kV station [GRA] 24. Grange Castle 110kV station [GCA] 25. Harolds Cross 110kV station [HAR] 26. Heuston Square 110kV station [HEU] 27. Huntstown 220kV station [HUN] 28. Inchicore 220/110kV station [INC] 29. Irish Town 220kV station [ISH] 30. Kildonan 110 kV station [KLD] 31. Kilmahud 110kV station [KUD] 32. Kilmore 110kV station [KLM] 	1,484

³ Cookstown 38 kV is fed from Inchicore which is in the LCC. Cookstown 110 kV is fed from Carrickmines and hence is not in the LCCA.

			33. Macetown 110kV station [MCE] 34. McDermott 110kV station [MCD] 35. Milltown 110kV station [MIL] 36. Misery Hill 110kV station [MHL] 37. Nangor 110kV station [NAN] 38. Newbury 110kV station [NBY] 39. North Quays 110kV station [NQS] 40. North Wall 220kV station [NW] 41. Pelletstown 110kV station [PTN] 42. Poolbeg 220/110kV stations [PB] 43. Poppintree 110kV station [POP] 44. Ringsend 110kV station [RE] 45. Ryebrook 110kV station [RYB] 46. Stevenstown 110kV station [SVN] 47. Shellybanks 220kV station [SHL] 48. Trinity 110kV station [TRN] 49. West Dublin 220/110kV station [WDU] 50. Whitebank 110kV station [WBK] 51. Wolfe Tone 110kV station [WOL]	
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(ii) The final Capacity Market Units that have Qualified for the Capacity Auction and that are in the System Operators’ reasonable opinion capable of contributing to satisfying the constraint;

In accordance with section E.9.4 for the Capacity Market Code and F.5.1.3 (d) (ii), the Qualified Capacity Market Units that can contribute to meeting a Locational Capacity Constraint Required Quantity are set out in Table 6.

Table 6 – Qualified Capacity Market Units in each Locational Capacity Constraint Area

Level	Locational Capacity Constraint Area Name	Capacity Market Unit IDs for Qualified Capacity Market Units that contribute to the Locational Capacity Constraint
1	L1-1: Northern Ireland	Capacity Market Unit IDs commencing with “GU_5”, “DSU_5” or “CAU_5” Interconnector “I_NIMOYLE”
1	L1-2: Ireland	Capacity Market Unit IDs commencing with “GU_4”, “DSU_4” or “CAU_4” Interconnector “I_ROIEWIC”
2	L2-1: Greater Dublin	GU_400500, GU_400324, GU_400325, GU_400480, GU_400540, DSU_401620, DSU_401800, DSU_401850, DSU_403020, DSU_403030, DSU_403040, DSU_403050, GU_402030, GU_404020

2.5 Final Capacity Auction Timetable

F.5.1.3 (e) the final Capacity Auction Timetable as it relates to events after the publication of the Final Auction Information Pack (subject to section D.2).

The approved Capacity Auction Timetable is set out in Table 7:

Table 7 – Capacity Auction Timetable

	Event	Date
1	Initial Auction Information Pack Date: the last publication date for the Initial Auction Information Pack	31/05/2019
2	Opt-out Notification Date: the last date a Participant can submit an Opt-out Notification	14/06/2019
3	Exception Application Date: the last time a Participant can make an Exception Application to the Regulatory Authorities	28/06/2019
4	Qualification Application Date: the last date a Participant can submit an Application for Qualification in respect of the Capacity Auction	28/06/2019
5	Provisional Qualification Results Date: the date by which the System Operators are expected to inform persons who submit Applications for Qualification of Provisional SO Qualification Decisions in respect of the Capacity Auction	30/08/2019
6	Final Qualification Submission Date: the date by which the System Operators are expected to provide Final Qualification Results in respect of the Capacity Auction to the Regulatory Authorities for approval	23/10/2019
7	Final Qualification Results Date: the date by which the System Operators are expected to inform persons who submit Applications for Qualification of Final Qualification Decisions in respect of the Capacity Auction	08/11/2019
8	Qualification Results Publication Date: the date by which the System Operators are expected to publish the total Qualified capacity in respect of the Capacity Auction	08/11/2019
9	Date for finalising the Locational Capacity Constraint Limits for the Capacity Auction	08/11/2019
10	Final Auction Information Pack Date: the date by which the System Operators are expected to publish the Final Auction Information Pack for the Capacity Auction	08/11/2019
11	Capacity Auction Submission Commencement: the earliest date and time that Participants may submit Capacity Auction Offers in respect of Capacity Market Units Qualified to participate in the Capacity Auction	28/11/2019
12	Capacity Auction Submission End: the last date and time until Participants may submit Capacity Auction Offers in respect of Capacity Market Units Qualified to participate in the Capacity Auction	05/12/2019 10:00
13	Capacity Auction Run Start: the day and time that the System Operators initiate the run of the software program referred to in paragraph F.8.5.1 in respect of the Capacity Auction	05/12/2019 12:00
14	Capacity Auction Completion Date: the date by which the System Operators are expected to complete the Capacity Auction (including the Capacity Auction Monitor's review)	10/12/2019
15	Capacity Auction Provisional Results Date: the date by which the System Operators are expected to provide provisional Capacity Auction results to Participants	10/12/2019
15A	Capacity Auction Provisional Results Publication Date: the date by which the System Operators are expected to publish provisional Capacity Auction Results	17/12/2019
16	Capacity Auction Approval Date: the date by which the Regulatory Authorities are expected to approve the Capacity Auction results	30/01/2020
17	Capacity Auction Results Date: the date the System Operators are expected to publish the Capacity Auction results	30/01/2020
18	Performance Security Date: the last date for Participants to provide Performance Securities to the System Operators for Awarded New Capacity allocated in the Capacity Auction	06/02/2020

2.6 Participant Requirements

F.5.1.3 (f) details of what is required of Participants participating in the Capacity Auction in order to submit Capacity Auction Offers;

For information on submitting Capacity Auction Offers, users are advised to view the [Capacity Market Platform User Guides](#) (CMPT, CMPR, CMA Guides) to assist with trouble shooting. In addition, the System Operators have prepared a [Helicopter Guide to the Capacity Auction Process](#). It is advised that Participants are familiar with these documents ahead of the Auction.

2.7 Allowed Timeframe

F.5.1.3 (g) the final Allowed Timeframe;

In accordance with paragraph F.8.5.2 of the Capacity Market Code, the Allowed Timeframe for the 2021/2022 T-2 Capacity Auction is 24 hours. Further information on this is contained in the Interim Auction Solution Methodology ([IASM2223T-4](#)). The Interim Auction Solution Methodology contains a description of the methodology that will be used to clear the 2021/2022 T-2 Capacity Auction. Note that the methodology used for the 2021/2022 T-2 Capacity Auction will be the same methodology which was used previously to carry out the T-4 2022/23 Capacity Auction.

2.8 Annual Capacity Payment Exchange Rate

F.5.1.3 (h) the final Annual Capacity Payment Exchange Rate to be used by the System Operators in conducting the Capacity Auction and applicable to Awarded Capacity in the Capacity Auction;

In accordance with Section K.2 of the Capacity Market Code the Regulatory Authorities approve the methodology used in determining the following Final Annual Capacity Payment Exchange Rate applicable to this Capacity Auction:

Table 8 – Final Annual Capacity Payment Exchange Rates for the CY2021/22 T-2 Capacity Auction

Annual Capacity Payment Exchange Rate	Annual Capacity Payment Exchange Rate
€1 = £0.8916	£1 = €1.1216

This rate has been calculated in accordance with the methodology approved under Chapter K of the CMC.

2.9 Final Capacity Requirement

F.5.1.3 (i) the final Capacity Requirement to be used in the Capacity Auction;

The Capacity Requirement has been calculated by the System Operators based on the approved methodology ([SEM-19-018](#)) and submitted to the Regulatory Authorities for their determination. The approved Capacity Requirement is set out in Table 9 below:

Table 9 – Capacity Requirement

Capacity Requirement (MW)
7,030 MW

2.10 Awarded Capacity

F.5.1.3 (j) at the date of the Final Auction Information Pack, how much Awarded Capacity has already been procured for the relevant Capacity Year;

The Awarded Capacity is set out in Table 10 below:

Table 10 – Awarded Capacity

Awarded Capacity (MW)
0

2.11 Annual Stop-Loss Limit Factor

F.5.1.3 (k) the final Annual Stop-Loss Limit Factor applicable to Awarded Capacity allocated in the Capacity Auction;

As set out in the SEM Committee decision ([SEM-19-018](#)), the approved Annual Stop-Loss Limit Factor is set out in Table 11 below:

Table 11 – Annual Stop-Loss Limit Factor

Annual Stop-Loss Limit Factor
1.5

2.12 Billing Period Stop-Loss Limit Factor

F.5.1.3 (l) the final Billing Period Stop-Loss Limit Factor applicable to Awarded Capacity allocated in the Capacity Auction;

As set out in the SEM Committee decision ([SEM-19-018](#)), the approved Billing Period Stop-Loss Limit Factor is set out in Table 12 below:

Table 12 – Billing Period Stop-Loss Limit Factor

Billing Period Stop-Loss Limit Factor
0.5

2.13 Performance Securities

F.5.1.3 (m) in respect of Performance Securities:

- (i) the final Performance Security Posting Dates/ Events applicable to Awarded New Capacity allocated in the Capacity Auction; and**
- (ii) for each Performance Security Posting Date/ Event, the final €/MW rate to be applied in setting Performance Securities applicable to Awarded New Capacity allocated in the Capacity Auction;**

As set out in the SEM Committee decision ([SEM-19-018](#)), the approved final Performance Security Posting Dates / Events and final performance security rates are set out in Table 13 below:

Table 13 – Performance Security Dates and Rates

Date / Event	Performance Security Rate (€/MW)
More than 13 months prior to beginning of Capacity Year	10,000
From 13 months prior to beginning of Capacity Year	30,000
From beginning of Capacity Year	40,000

2.14 Termination Charges

F.5.1.3 (n) the final €/MW fee rates for calculating Termination Charges applicable to Awarded New Capacity allocated in the Capacity Auction;

As set out in the SEM Committee decision ([SEM-19-018](#)), the approved final Termination Charge rates are set out in Table 14 below:

Table 14 – Termination Charge Rates

Date / Event	Termination Charge Rate (€/MW)
More than 13 months prior to beginning of Capacity Year	10,000
From 13 months prior to beginning of Capacity Year	30,000
From beginning of Capacity Year	40,000

2.15 Scarcity Price

F.5.1.3 (o) anticipated values for the Full Administered Scarcity Price and the Reserve Scarcity Price Curve applicable to the Capacity Year;

As set out in the SEM Committee decision ([SEM-19-018](#)), the approved anticipated values of the Full Administered Scarcity Price and the Reserve Scarcity Price Curve are set out in Table 15 below:

Table 15 – Anticipated Administered Scarcity Price Curve

Short Term Reserve (MW)	Administered Scarcity Price (€/MWh)
Demand Control	2,895.34
0	2,895.34
500	500

In accordance with SEM-19-018, the value of VoLL for the 2021/22 Capacity Year is 11,581.37 €/MWh and the full ASP is 25% of VoLL.

2.16 Strike Price
D.3.1.2 (p) anticipated values for the parameters listed in paragraph F.16.1.1 and F.16.1.5 of the Trading and Settlement Code to be applied in determining the Strike Price in accordance with the Trading and Settlement Code for the Capacity Year; and

The approved anticipated values to be applied in determining the Strike Price are set out in Table 16 below:

Table 16 – Anticipated Strike Price calculation components

Strike Price Component	Value	Unit
PCARBON _m	PCARBON _m Index	€/tCO _{2e}
PFUELNG _m	[PFUELNG _m Index (p/therm) x 0.01 (£/p) + PFUELNG _m Transport (£/therm)] x Exchange Rate (€/£) x 9.48 (therm/GJ) x 3.6 (GJ/MWh)	€/MWh
PFUELO _m	[PFUELO _m Index (\$/t) x Exchange Rate (€/£) + PFUELO _m Transport (€/t)] x 0.025 (t/GJ) x 3.6 (GJ/MWh)	€/MWh
PCARBON _m Index	ICE ECX EUA Futures – EUA - (monthly) ⁴	€/tCO _{2e}
PFUELNG _m Index	ICE UK Natural Gas Index (monthly)	p/therm
PFUELNG _m Transport	0.0424 ⁵	£/therm
PFUELO _m Index	Platt's Forward Curve (monthly) for monthly swap transactions for 1% sulphur free on board (FOB) fuel oil cargoes in North West Europe (NWE) for the relevant month (AAEGR00)	\$/t
PFUELO _m Transport	50 ⁶	€/t
FTHEORYPU _y	15	%
FCARBONING _y	0.202	tCO _{2e} /MWh
FCARBONINO _y	0.277	tCO _{2e} /MWh
PTHEORYDSU _y	500	€/MWh
Exchange Rate (€/£)	The Trading Day Exchange Rate as defined in the Trading and Settlement Code	€/£
Exchange Rate (€/£)	The rate set at 17:00 the day before the Trading Day, from the same source as used for the Trading Day Exchange Rate	€/£
therm per GJ	9.48 ⁷	therm/GJ
LSFO calorific value	0.025 ⁸	t/GJ

⁴ The December price for a given year will apply to all months falling within that year.

⁵ NI natural gas transport adder used in I-SEM PLEXOS Forecast Model 2016-17.

⁶ Based on ROI LSFO transport adder used in I-SEM PLEXOS Forecast Model 2016-17.

⁷ I-SEM PLEXOS Forecast Model 2017-17

⁸ I-SEM PLEXOS Forecast Model 2016-17

3. Other Capacity Market Code Items

The additional information provided in this section is not required to be published in the Final Auction Information Pack, but is provided for reference.

3.1 De-Rating Curves

This section gives the Final De-rating Curves. These were published in section 2.1 of the Initial Auction Information Pack. These values have not changed and are only included here for reference.

D.3.1.2 (a) the final De-Rating Curves, defining De-Rating Factors by unit Initial Capacity and by Technology Class (including for Interconnectors) to be used in the Capacity Auction;

The De-Rating Curves are determined by the Regulatory Authorities in accordance with Section D.3.1.3 (a) of the Capacity Market Code. The approved De-Rating Curves are set out in Tables 17, 18, 19 and 20 below.

Table 17 – De-Rating Curves by Technology Class and Initial Capacity

Initial Capacity (IC) (MW not de-rated)	DSU >6 hrs ⁹	Gas Turbine	Hydro	Steam Turbine	Interconnector ¹⁰	System Wide ¹¹
0 ≤ IC ≤ 10	0.895	0.907	0.876	0.855	0.884	0.895
10 < IC ≤ 20	0.893	0.906	0.873	0.852	0.881	0.893
20 < IC ≤ 30	0.891	0.906	0.871	0.849	0.879	0.891
30 < IC ≤ 40	0.889	0.906	0.868	0.847	0.877	0.889
40 < IC ≤ 50	0.887	0.906	0.865	0.844	0.875	0.887
50 < IC ≤ 60	0.886	0.906	0.863	0.841	0.872	0.886
60 < IC ≤ 70	0.884	0.905	0.860	0.838	0.870	0.884
70 < IC ≤ 80	0.882	0.905	0.857	0.836	0.868	0.882
80 < IC ≤ 90	0.880	0.905	0.855	0.833	0.866	0.880
90 < IC ≤ 100	0.879	0.905	0.852	0.830	0.863	0.879
100 < IC ≤ 110	0.876	0.904	0.850	0.827	0.861	0.876
110 < IC ≤ 120	0.874	0.903	0.848	0.824	0.858	0.874
120 < IC ≤ 130	0.872	0.901	0.847	0.820	0.855	0.872
130 < IC ≤ 140	0.869	0.900	0.845	0.817	0.853	0.869
140 < IC ≤ 150	0.867	0.898	0.843	0.814	0.850	0.867
150 < IC ≤ 160	0.865	0.897	0.842	0.810	0.847	0.865
160 < IC ≤ 170	0.863	0.896	0.839	0.807	0.845	0.863
170 < IC ≤ 180	0.861	0.894	0.837	0.804	0.842	0.861
180 < IC ≤ 190	0.858	0.893	0.835	0.800	0.839	0.858
190 < IC ≤ 200	0.856	0.892	0.832	0.797	0.836	0.856
200 < IC ≤ 210	0.854	0.890	0.830	0.793	0.833	0.854
210 < IC ≤ 220	0.851	0.889	0.828	0.789	0.830	0.851
220 < IC ≤ 230	0.848	0.887	0.826	0.786	0.827	0.848
230 < IC ≤ 240	0.846	0.885	0.824	0.782	0.824	0.846
240 < IC ≤ 250	0.843	0.884	0.822	0.778	0.820	0.843
250 < IC ≤ 260	0.841	0.882	0.820	0.774	0.817	0.841
260 < IC ≤ 270	0.838	0.881	0.818	0.770	0.814	0.838
270 < IC ≤ 280	0.835	0.879	0.816	0.766	0.811	0.835
280 < IC ≤ 290	0.833	0.877	0.813	0.762	0.808	0.833
290 < IC ≤ 300	0.830	0.876	0.811	0.759	0.804	0.830
300 < IC ≤ 310	0.827	0.874	0.809	0.755	0.801	0.827
310 < IC ≤ 320	0.824	0.872	0.807	0.750	0.797	0.824
320 < IC ≤ 330	0.821	0.870	0.804	0.746	0.794	0.821
330 < IC ≤ 340	0.818	0.868	0.802	0.742	0.790	0.818
340 < IC ≤ 350	0.815	0.866	0.800	0.737	0.786	0.815
350 < IC ≤ 360	0.812	0.864	0.797	0.733	0.782	0.812
360 < IC ≤ 370	0.809	0.862	0.795	0.728	0.778	0.809
370 < IC ≤ 380	0.806	0.859	0.792	0.723	0.774	0.806
380 < IC ≤ 390	0.802	0.857	0.789	0.718	0.770	0.802
390 < IC ≤ 400	0.799	0.855	0.787	0.714	0.766	0.799
400 < IC ≤ 410	0.796	0.853	0.784	0.709	0.762	0.796
410 < IC ≤ 420	0.792	0.851	0.781	0.704	0.758	0.792
420 < IC ≤ 430	0.789	0.848	0.779	0.700	0.754	0.789
430 < IC ≤ 440	0.785	0.846	0.776	0.695	0.750	0.785
440 < IC ≤ 450	0.782	0.844	0.773	0.690	0.746	0.782
450 < IC ≤ 460	0.778	0.842	0.770	0.686	0.741	0.778
460 < IC ≤ 470	0.775	0.839	0.767	0.681	0.737	0.775
470 < IC ≤ 480	0.771	0.837	0.765	0.676	0.733	0.771
480 < IC ≤ 490	0.767	0.835	0.762	0.671	0.728	0.767
490 < IC ≤ 500	0.763	0.832	0.759	0.666	0.724	0.763

⁹ In accordance with SEM Committee decision [SEM-18-030](#), DSUs with a Maximum Down Time of more than 6 hours should apply the appropriate De-Rating Factor based on the values set out in table 1. DSUs with a Maximum Down Time of 6 hours or less should apply the appropriate De-Rating Factor based on the values set out in Table 3.

¹⁰ The final De-Rating Factor for Interconnectors is calculated by multiplying the marginal De-Rating Factor that applies to their size class by the External Market De-Rating Factor. The External Market De-Rating Factor for this auction will be 0.60 for interconnectors from Great Britain to Ireland or Northern Ireland.

¹¹ New Technology (i.e. a technology for which there is currently no technology class) should use the System Wide derating curve.

Table 18 – De-Rating Curves for Pumped Hydro Storage Units

Initial Capacity (IC) (MW)	Hours of Storage												
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0 or greater
0 ≤ IC ≤ 10	0	0.202	0.352	0.468	0.546	0.603	0.643	0.672	0.697	0.720	0.746	0.775	0.809
10 < IC ≤ 20	0	0.201	0.351	0.466	0.545	0.601	0.641	0.671	0.695	0.719	0.745	0.775	0.808
20 < IC ≤ 30	0	0.194	0.344	0.457	0.535	0.593	0.634	0.665	0.690	0.715	0.741	0.770	0.800
30 < IC ≤ 40	0	0.191	0.340	0.453	0.531	0.588	0.630	0.661	0.688	0.712	0.739	0.767	0.797
40 < IC ≤ 50	0	0.187	0.336	0.448	0.526	0.584	0.626	0.658	0.685	0.710	0.737	0.764	0.793
50 < IC ≤ 60	0	0.184	0.332	0.443	0.522	0.579	0.623	0.655	0.683	0.708	0.735	0.762	0.789
60 < IC ≤ 70	0	0.180	0.328	0.439	0.517	0.575	0.619	0.652	0.680	0.706	0.732	0.759	0.785
70 < IC ≤ 80	0	0.178	0.325	0.435	0.513	0.571	0.615	0.649	0.677	0.703	0.730	0.756	0.781
80 < IC ≤ 90	0	0.175	0.321	0.430	0.508	0.567	0.611	0.645	0.674	0.700	0.727	0.753	0.777
90 < IC ≤ 100	0	0.173	0.317	0.425	0.504	0.563	0.608	0.642	0.670	0.697	0.724	0.749	0.774
100 < IC ≤ 110	0	0.171	0.313	0.421	0.500	0.558	0.604	0.638	0.667	0.694	0.720	0.746	0.770
110 < IC ≤ 120	0	0.170	0.310	0.416	0.495	0.555	0.600	0.635	0.663	0.690	0.717	0.742	0.766
120 < IC ≤ 130	0	0.167	0.306	0.411	0.491	0.550	0.595	0.630	0.659	0.686	0.712	0.738	0.762
130 < IC ≤ 140	0	0.165	0.302	0.407	0.486	0.545	0.590	0.625	0.654	0.681	0.708	0.733	0.756
140 < IC ≤ 150	0	0.164	0.299	0.403	0.481	0.540	0.585	0.619	0.648	0.676	0.702	0.727	0.751
150 < IC ≤ 160	0	0.161	0.295	0.398	0.477	0.535	0.579	0.614	0.643	0.671	0.697	0.722	0.746
160 < IC ≤ 170	0	0.160	0.291	0.394	0.471	0.530	0.574	0.608	0.638	0.666	0.692	0.718	0.741
170 < IC ≤ 180	0	0.158	0.288	0.390	0.467	0.524	0.569	0.603	0.632	0.660	0.687	0.712	0.736
180 < IC ≤ 190	0	0.156	0.284	0.385	0.462	0.519	0.563	0.597	0.628	0.656	0.683	0.708	0.731
190 < IC ≤ 200	0	0.154	0.281	0.381	0.457	0.514	0.558	0.592	0.622	0.651	0.678	0.703	0.727

Table 19 – De-Rating Curves for Other Storage

Initial Capacity (IC) (MW)	Hours of Storage												
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0 or greater
0 ≤ IC ≤ 10	0	0.208	0.362	0.482	0.562	0.620	0.661	0.690	0.715	0.739	0.765	0.796	0.830
10 < IC ≤ 20	0	0.207	0.360	0.480	0.560	0.618	0.659	0.689	0.714	0.738	0.764	0.794	0.828
20 < IC ≤ 30	0	0.200	0.353	0.470	0.550	0.609	0.652	0.682	0.709	0.733	0.760	0.790	0.821
30 < IC ≤ 40	0	0.196	0.349	0.465	0.546	0.604	0.647	0.679	0.706	0.731	0.758	0.787	0.817
40 < IC ≤ 50	0	0.192	0.345	0.460	0.540	0.600	0.643	0.676	0.703	0.729	0.756	0.784	0.813
50 < IC ≤ 60	0	0.188	0.341	0.456	0.535	0.595	0.639	0.673	0.701	0.727	0.754	0.782	0.809
60 < IC ≤ 70	0	0.184	0.337	0.451	0.531	0.590	0.636	0.670	0.698	0.724	0.752	0.779	0.806
70 < IC ≤ 80	0	0.181	0.333	0.446	0.527	0.586	0.632	0.666	0.696	0.722	0.750	0.776	0.802
80 < IC ≤ 90	0	0.180	0.330	0.442	0.523	0.583	0.629	0.663	0.693	0.719	0.747	0.773	0.799
90 < IC ≤ 100	0	0.179	0.327	0.438	0.519	0.580	0.626	0.661	0.690	0.717	0.744	0.771	0.795
100 < IC ≤ 110	0	0.177	0.324	0.435	0.516	0.577	0.622	0.658	0.687	0.715	0.742	0.768	0.793
110 < IC ≤ 120	0	0.175	0.320	0.431	0.512	0.573	0.620	0.655	0.685	0.712	0.739	0.765	0.789
120 < IC ≤ 130	0	0.174	0.317	0.426	0.508	0.569	0.615	0.651	0.680	0.708	0.736	0.761	0.785
130 < IC ≤ 140	0	0.171	0.313	0.421	0.503	0.563	0.610	0.645	0.675	0.703	0.730	0.756	0.780
140 < IC ≤ 150	0	0.169	0.309	0.416	0.497	0.558	0.604	0.639	0.669	0.697	0.725	0.751	0.775
150 < IC ≤ 160	0	0.167	0.305	0.412	0.492	0.552	0.598	0.633	0.664	0.692	0.720	0.746	0.770
160 < IC ≤ 170	0	0.164	0.300	0.407	0.487	0.547	0.592	0.628	0.658	0.687	0.714	0.740	0.765
170 < IC ≤ 180	0	0.163	0.297	0.402	0.482	0.542	0.588	0.623	0.653	0.682	0.710	0.736	0.760
180 < IC ≤ 190	0	0.162	0.294	0.399	0.478	0.537	0.583	0.618	0.649	0.679	0.706	0.732	0.756
190 < IC ≤ 200	0	0.161	0.292	0.395	0.474	0.533	0.578	0.614	0.645	0.674	0.702	0.728	0.753

Note: the values of Initial Capacity in units of MW are values prior to the application of De-Rating Factors.

Table 20 – De-Rating Factors for Wind and Solar

Wind	Solar
0.094	0.111

3.2 Increase and Decrease Tolerance

This section gives the Increase and Decrease Tolerances by Technology Class that may be applied by a Participant in its Application for Qualification to Capacity Market Unit de-ratings. These were published in section 2.12 of the Initial Auction Information Pack. These values have not changed and are only included here for reference.

D.3.1.2 (l) the final allowed Increase Tolerance and Decrease Tolerance by Technology Class that may be applied by a Participant in its Application for Qualification to Capacity Market Unit de-ratings;

As set out in the SEM Committee decision ([SEM-18-030](#)), the approved Increase and Decrease Tolerances are set out in Table 21 below:

Table 21 – Increase and Decrease Tolerances per Technology Class

Technology Class	INCTOL(%)	DECTOL(%)
All except DSUs	0	0
DSUs	0	100

Note 1: The DECTOL for the DSU Technology Class also applies to any demand reduction component of a Candidate Unit that is part of an Autoproducer Site (where the demand reduction component is calculated as the Autoproducer Demand Reduction Volume / Maximum Export Capacity).

Note 2: In accordance with SEM Committee decision [SEM-18-030](#), where satisfactory evidence is provided to the System Operators, the DECTOL shall be 100% for a Candidate Unit that, due to relevant emissions legislation, has its running hours restricted to an extent that would reasonably be considered to prevent reliable delivery of their De-rated Capacity at times of scarcity, e.g. the 500 hour limits set out in Annex V of the Industrial Emission Directive (2010/75) in relation to NOx emissions.

3.3 Capacity Market Code Items Change Table

This section gives the Capacity Market Code Items Change Table. This is an updated version of the table published in the Initial Auction Information Pack. All of the items required under the Capacity Market Code have been finalised in this Final Auction Information Pack with the exception to anticipated values which may vary, in the case of the Administered Scarcity Price via the change process set out in the Trading and Settlement Code and in the case of the Strike Price due to variations in the fuel and carbon indices set out in this document.

Table 22 – Capacity Market Code Items Change Table

Code Item	IAIP	FAIP
De-Rating Curves	Final	Final
Capacity Requirement	Final	Final
Indicative Demand Curve	Indicative	Final
Locational Capacity Constraint Areas	Final	Final
Locational Capacity Constraint Minimum Requirement		Final
Awarded Capacity	Final	Final
Auction Price Cap	Final	Final
Existing Capacity Price Cap	Final	Final
New Capacity Investment Rate Threshold	Final	Final
Annual Stop-Loss Limit Factor	Final	Final
Billing Period Stop-Loss Limit Factor	Final	Final
Annual Capacity Payment Exchange Rate	Indicative	Final
Increase and Decrease Tolerance	Final	Final
Performance Securities	Final	Final
Termination Charges	Final	Final
Administered Scarcity Price	Anticipated	Anticipated
Strike Price	Anticipated	Anticipated
Capacity Auction Timetable	Indicative	Final

3.4 Substantial Financial Completion Period

This section gives the Substantial Financial Completion Period applicable to this Capacity Auction. The inclusion within the Final Auction Information Pack is a result of the Proposed Modification to the Capacity Market Code – CMC_11_18 – Long Stop Date. It was intended for this information to be contained within the Initial Auction Information Pack, however, due to time constraints this was not included. In this instance alone, this information is contained within this FAIP. Going forward and for subsequent Capacity Auctions, this will form part of the IAIP.

D.3.1.2 The Initial Auction Information Pack for a Capacity Auction shall set out:

(r) The Substantial Financial Completion Period.

Table 23 – Substantial Financial Completion Period

Substantial Financial Completion Period
18 months

3.5 Long Stop Date

This section gives the Long Stop Dates applicable to this Capacity Auction. The inclusion within the Final Auction Information Pack is to draw attention to the change in definition of Long Stop Date as a result of the SEM Committee Decision ([SEM-18-030](#)).

Table 24 – Long Stop Date

For Capacity awards with a capacity duration of one year	For Capacity awards with a capacity duration greater than one year
31 October 2021	31 March 2023

