Capacity Market – Final Auction Information Pack
FAIP2223T-1

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 2022/2023, which is expected to be held on 21st October 2021. The auction will be referred to within this document as the 2022/2023 T-1 Capacity Auction.

In accordance with D.1 of the Capacity Market Code, the Capacity Year 2022/2023 commences on 30th September 2022 and ends on 30th September 2023. The Capacity Year will be referred to in this document as the 2022/2023 Capacity Year.

All information set out in this document relates solely to the 2022/2023 T-1 Capacity Auction.

Date: **13/10/2021**

Document: **FAIP2223T-1**

Revision: **V1.1**

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1. Introduction

1.1 Version History

Version	Update	Date
1.0	Approved Final Auction Information Pack	07/10/2021
1.1	Amendments to remove GU_403440 from Table 6 LCC areas L1-2 and L2-1, as this capacity has been terminated.	13/10/2021

1.1 Background and purpose

This Final Auction Information Pack[1] provides information relating to items listed within Section F.5 of the Capacity Market Code for the Capacity Auction for the Capacity Year 2022/2023, which is expected to be held on 21st October 2021. The auction will be referred to within this document as the 2022/2023 T-1 Capacity Auction.

In accordance with D.1.1.1 of the Capacity Market Code, the Capacity Year 2022/2023 is the period commencing at the start of the Trading Day beginning at 23:00 on 30th September 2022 and ending at the end of the Trading Day ending at 23:00 on 30th September 2023.

All information set out in this document relates solely to the 2022/2023 T-1 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 SEM Capacity Market Registration section of the SEMO website[2]. Please note that the registration and qualification period for the 2022/2023 T-1 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 on 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: Market Interface
Capacity Market Operations
The Oval

Email Correspondence:
capacitymarket@sem-o.com

Phone Correspondence:

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

[2] https://www.sem-o.com/

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

1.4 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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1.5 Copyright Notice

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2. Capacity Market Code Items

This document contains values for items listed within Section F.5.1.3 of the 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 accounts for Awarded Capacity, non-participating generation, reserves and other adjustments.

Table 1 – Final Demand Curve

De-Rated Capacity (MW)	Demand Curve Point (€/MW per year)
0	138,450
595	138,450
595	92,300
1,585	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-21-019), 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	119,731.56

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-21-019), 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	39,910.52

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 Required Quantities to be employed in this Capacity Auction. These values account for non-participating generation, reserves and other adjustments. These values do not account for Awarded Capacity, which will be subtracted prior to the Capacity Auction in accordance with F.8.2.1(b)(i) of the Capacity Market Code.

Table 4 – Level 1 Final Locational Capacity Constraint Information

Level	Locational Capacity Constraint Area Name	Associated Level 2 Locational Constraint Area(s)	Locational Capacity Constraint Area Nodes	Required Quantity (MW)
1	L1-1: Northern Ireland	-	All nodes within Northern Ireland	2042
1	L1-2: Ireland	L2-1: Greater Dublin	All nodes within Ireland	6170

Table 5 – Level 2 Final Locational Capacity Constraint Information

Level	Locational Capacity Constraint Area Name	Associated Level 1 Locational Constraint Area	Locational Capacity Constraint Area Nodes	Required Quantity (MW)[3]
2	L2-1: Greater Dublin	L1-2: Ireland	1. Adamstown 110 kV station [ADM] 2. Airton 110kV station [ATN] 3. Artane 110kV station [ART] 4. Baltrasna 110kV station [BAL] 5. Barnakyle 110kV station [BKY] 6. Belcamp 220/110 kV station [BLC] 7. Blackrock 110kV station [BLA] 8. Cabra 110kV station [CAB] 9. Castlebagot 110kV station [CBT] 10. City West 110kV station [CTY] 11. Cloghran 110kV station [CLG] 12. Clonee 220kV station [CLN] 13. College Park 110kV station [COL] 14. Cookstown 110/38kV station [COO][4] 15. Corduff 220/110kV station [CDU] 16. Corkagh 110kV station [CKG] 17. Cromcastle 110kV station [CRM] 18. Cruiserath 220kV Station [CRH] 19. Dardistown 110kV station [DTN] 20. Finglas 220/110kV station [FIN] 21. Fortunestown 110kV station [FTT] 22. Francis Street 110kV station [FRA] 23. Glasmore 110kV station [GLA] 24. Grange 110kV station [GRA] 25. Grange Castle 110kV station [GCA] 26. Harolds Cross 110kV station [HAR]	1834

[3] Minimum MW represented in de-rated MW values

[4] Cookstown 38 kV is fed from Inchicore which is in the LCC. Cookstown 10 kV is fed from Carrickmines and hence is not in the LCC.

Level	Locational Capacity Constraint Area Name	Associated Level 1 Locational Constraint Area	Locational Capacity Constraint Area Nodes	Required Quantity (MW)[3]
			27. Heuston Square 110kV station [HEU] 28. Huntstown 220kV station [HUN] 29. Inchicore 220/110kV station [INC] 30. Irish Town 220kV station [ISH] 31. Kilmahud 110kV station [KUD] 32. Kilmore 110kV station [KLM] 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. Stephenstown 110kV station [SVN] 47. Shellybanks 220kV station [SHL] 48. Snugborough 110kV station [SNUG] 49. Trinity 110kV station [TRN] 50. Whitebank 110kV station [WBK] 51. Wolfe Tone 110kV station [WOL]	

(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	DSU_501200, DSU_501330, DSU_501380, DSU_501450, DSU_501460, DSU_501510, DSU_501560, DSU_501590, DSU_501600, DSU_503420, DSU_503460, DSU_503480, DSU_503570, DSU_503580, DSU_503600, DSU_503610, DSU_503650, GU_500040, GU_500041, GU_500130, GU_500131, GU_500140, GU_500283, GU_500284, GU_500820, GU_500821, GU_500822, GU_500823, GU_500824, GU_500825, GU_500900, GU_500904, GU_501130, GU_501230, GU_503340, GU_503350, GU_503360, GU_503950, GU_503960, GU_503980, GU_504000, I_NIMOYLE.

Level	Locational Capacity Constraint Area Name	Capacity Market Unit IDs for Qualified Capacity Market Units that contribute to the Locational Capacity Constraint
1	L1-2: Ireland	CAU_400301, CAU_400302, CAU_400500, DSU_401270, DSU_401330, DSU_401390, DSU_401400, DSU_401490, DSU_401530, DSU_401590, DSU_401610, DSU_401620, DSU_401660, DSU_401800, DSU_401850, DSU_401870, DSU_401880, DSU_401910, DSU_402040, DSU_402090, DSU_402100, DSU_402120, DSU_402180, DSU_403020, DSU_403030, DSU_403040, DSU_403050, DSU_403080, DSU_403120, DSU_403430, DSU_403450, DSU_403470, DSU_403520, DSU_403560, DSU_403590, DSU_403610, DSU_403620, DSU_403630, DSU_403640, DSU_403650, DSU_403660, DSU_403690, DSU_403700, DSU_403710, GU_400120, GU_400121, GU_400181, GU_400182, GU_400183, GU_400270, GU_400271, GU_400272, GU_400324, GU_400325, GU_400360,GU_400361, GU_400362, GU_400363, GU_400480, GU_400500, GU_400530, GU_400540, GU_400750, GU_400751, GU_400752, GU_400753, GU_400762, GU_400770, GU_400771,GU_400780, GU_400781, GU_400850, GU_400930, GU_401010, GU_401011, GU_401230, GU_401720, GU_401860, GU_402030, GU_403000, GU_403560, GU_403600, GU_403630, GU_403660, GU_404010, GU_404020, GU_404190, GU_404210, GU_404400, GU_404510, GU_404520, GU_404530, GU_404540, GU_404550, I_ROIEWIC.
2	L2-1: Greater Dublin	DSU_401620, DSU_401800, DSU_403020, DSU_403030, DSU_403040, DSU_403050, DSU_403630, DSU_403640, DSU_403660, DSU_403690, GU_400324, GU_400325, GU_400480, GU_400500, GU_400540, GU_402030, GU_403600, GU_403630, GU_403660, GU_404020, GU_404510.

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	13/04/2021
2	Opt-out Notification Date: the last date a Participant can submit an Opt-Out Notification	27/04/2021
3	Exception Application Date: the last time a Participant can make an Exception Application to the Regulatory Authorities	11/05/2021
4	Qualification Application Date: the last date a Participant can submit an Application for Qualification in respect of the Capacity Auction	11/05/2021
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	19/07/2021
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	16/09/2021
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	07/10/2021
8	Date for finalising the Locational Capacity Constraint Limits for the Capacity Auction	07/10/2021

9	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	07/10/2021
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	07/10/2021
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	14/10/2021
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	21/10/2021 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	21/10/2021 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)	27/10/2021
15	Capacity Auction Provisional Results Date: the date by which the System Operators are expected to provide provisional Capacity Auction results to Participants	27/10/2021
16	Capacity Auction Provisional Results Publication Date: the date by which the System Operators are expected to publish provisional Capacity Auction Results	03/11/2021
17	Capacity Auction Approval Date: the date by which the Regulatory Authorities are expected to approve the Capacity Auction results	03/12/2021
18	Capacity Auction Results Date: the date the System Operators are expected to publish the Capacity Auction results	10/12/2021
19	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	10/01/2022

Note: the Performance Security Date has been updated to provide sufficient time for Participants to provide the Required Level of Performance Securities.

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, CMPA Guides) to assist with trouble shooting. It is advised that Participants are familiar with these documents ahead of the Auction.

2.7 Allowed Timeframe & Auction Solution Methodology

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 2022/2023 T-1 Capacity Auction is 24 hours.

Regarding the Auction Solution Methodology, the Regulatory Authorities have notified the System Operators in writing on the 4th December 2020 that 5th December 2020 is the last date on which the Interim Auction Solution as set out in section M.4 of the Capacity Market Code and the Alternative

Auction Solution Methodology as set out in section M.6 of the Capacity Market Code (Auction Format C) shall apply to any Capacity Auction, subject to the following conditions being satisfied:

(a) The software systems required to implement the enduring Chapter F requirements, in particular paragraph F.8.5.1, of the Capacity Market Code (Auction Format D) have been implemented and independently certified as being in compliance with the requirements of Chapter F by the date of Capacity Auction Submission Commencement.
(b) The System Operators have not identified any reason why the Auction should not proceed on the basis of the enduring provisions of Chapter F of the Capacity Market Code (Auction Format D) without the application of sections M.4 and M.6.

The SOs informed the Regulatory Authorities prior to the T-4 2024/25 Capacity Auction that the both of these conditions were satisfied. On this basis, Auction Format D will apply to all future Capacity Auctions including the 2022/2023 T-1 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

Annual Capacity Payment Exchange Rate	Annual Capacity Payment Exchange Rate
€1 = £0.8648	£1 = €1.1563

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-21-019) 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)
7866

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)
6934

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-21-019), 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-21-019), 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-21-019), 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-21-019), 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-21-019), 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	3133.29
0	3133.29
500	500

2.16 Administered 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	€/tCO2e
$PFUELNG_m$	[$PFUELNG_m$ 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)[5]	€/tCO2e
$PFUELNG_m$ Index	ICE UK Natural Gas Index (monthly)	p/therm
$PFUELNG_m$ Transport	0.0424[6]	£/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[7]	€/t
$FTHEORYPU_y$	15	%
$FCARBONING_y$	0.202	tCO2e/MWh
$FCARBONINO_y$	0.277	tCO2e/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[8]	therm/GJ
LSFO calorific value	0.025[9]	t/GJ

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.

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

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

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

[8] I-SEM PLEXOS Forecast Model 2016-17

[9] I-SEM PLEXOS Forecast Model 2016-17

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

Initial Capacity (IC) (MW not de-rated)	DSU >6 hrs[10]	Gas Turbine	Hydro	Steam Turbine	Interconnector[11]	System Wide[12]
0 ≤ IC ≤ 10	0.895	0.905	0.890	0.847	0.884	0.895
10 < IC ≤ 20	0.893	0.904	0.888	0.844	0.882	0.893
20 < IC ≤ 30	0.891	0.903	0.886	0.841	0.880	0.891
30 < IC ≤ 40	0.889	0.903	0.885	0.838	0.877	0.889
40 < IC ≤ 50	0.886	0.902	0.883	0.835	0.875	0.886
50 < IC ≤ 60	0.884	0.901	0.881	0.832	0.873	0.884
60 < IC ≤ 70	0.882	0.901	0.879	0.829	0.870	0.882
70 < IC ≤ 80	0.880	0.900	0.878	0.826	0.868	0.880
80 < IC ≤ 90	0.878	0.899	0.876	0.823	0.866	0.878
90 < IC ≤ 100	0.876	0.899	0.874	0.819	0.863	0.876
100 < IC ≤ 110	0.874	0.898	0.873	0.816	0.861	0.874
110 < IC ≤ 120	0.872	0.896	0.872	0.813	0.858	0.872
120 < IC ≤ 130	0.869	0.895	0.871	0.810	0.856	0.869
130 < IC ≤ 140	0.867	0.894	0.871	0.807	0.854	0.867
140 < IC ≤ 150	0.865	0.893	0.870	0.803	0.851	0.865
150 < IC ≤ 160	0.863	0.891	0.869	0.800	0.848	0.863
160 < IC ≤ 170	0.860	0.889	0.868	0.796	0.845	0.860
170 < IC ≤ 180	0.857	0.887	0.867	0.792	0.842	0.857
180 < IC ≤ 190	0.855	0.885	0.866	0.788	0.840	0.855
190 < IC ≤ 200	0.852	0.883	0.865	0.785	0.837	0.852
200 < IC ≤ 210	0.849	0.882	0.863	0.781	0.834	0.849
210 < IC ≤ 220	0.847	0.880	0.861	0.777	0.831	0.847
220 < IC ≤ 230	0.844	0.879	0.858	0.773	0.828	0.844
230 < IC ≤ 240	0.841	0.877	0.856	0.769	0.825	0.841
240 < IC ≤ 250	0.839	0.875	0.854	0.766	0.822	0.839
250 < IC ≤ 260	0.836	0.874	0.852	0.762	0.819	0.836
260 < IC ≤ 270	0.833	0.872	0.850	0.758	0.816	0.833
270 < IC ≤ 280	0.830	0.870	0.848	0.753	0.813	0.830
280 < IC ≤ 290	0.827	0.867	0.846	0.749	0.809	0.827
290 < IC ≤ 300	0.825	0.865	0.844	0.745	0.806	0.825
300 < IC ≤ 310	0.822	0.863	0.842	0.741	0.803	0.822
310 < IC ≤ 320	0.818	0.861	0.840	0.737	0.799	0.818
320 < IC ≤ 330	0.815	0.859	0.837	0.733	0.796	0.815
330 < IC ≤ 340	0.812	0.857	0.835	0.728	0.792	0.812
340 < IC ≤ 350	0.809	0.855	0.833	0.724	0.789	0.809
350 < IC ≤ 360	0.806	0.852	0.830	0.720	0.785	0.806
360 < IC ≤ 370	0.802	0.850	0.828	0.716	0.782	0.802
370 < IC ≤ 380	0.799	0.847	0.826	0.711	0.779	0.799
380 < IC ≤ 390	0.796	0.845	0.823	0.707	0.775	0.796
390 < IC ≤ 400	0.793	0.842	0.821	0.703	0.772	0.793
400 < IC ≤ 410	0.789	0.840	0.819	0.698	0.768	0.789
410 < IC ≤ 420	0.785	0.838	0.816	0.693	0.763	0.785
420 < IC ≤ 430	0.781	0.835	0.814	0.688	0.759	0.781
430 < IC ≤ 440	0.777	0.833	0.812	0.682	0.754	0.777
440 < IC ≤ 450	0.773	0.831	0.809	0.677	0.750	0.773
450 < IC ≤ 460	0.768	0.828	0.807	0.672	0.745	0.768
460 < IC ≤ 470	0.765	0.825	0.805	0.667	0.741	0.765
470 < IC ≤ 480	0.761	0.822	0.802	0.662	0.737	0.761
480 < IC ≤ 490	0.757	0.819	0.800	0.657	0.733	0.757
490 < IC ≤ 500	0.753	0.816	0.798	0.652	0.728	0.753

[10] 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 **Error! Reference source not found.**. 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 **Error! Reference source not found.**.

[11] 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.

[12] 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

	Hours of Storage												
Initial Capacity (IC) (MW)	**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	0.143	0.246	0.328	0.402	0.471	0.533	0.578	0.614	0.646	0.682	0.728	0.781
10 < IC ≤ 20	0	0.142	0.244	0.326	0.400	0.469	0.531	0.576	0.613	0.644	0.680	0.726	0.779
20 < IC ≤ 30	0	0.134	0.237	0.318	0.391	0.460	0.521	0.567	0.604	0.637	0.674	0.718	0.766
30 < IC ≤ 40	0	0.131	0.233	0.314	0.386	0.454	0.516	0.562	0.599	0.633	0.670	0.713	0.759
40 < IC ≤ 50	0	0.127	0.229	0.309	0.381	0.449	0.510	0.557	0.595	0.629	0.667	0.708	0.752
50 < IC ≤ 60	0	0.123	0.225	0.305	0.377	0.444	0.505	0.553	0.590	0.625	0.664	0.704	0.745
60 < IC ≤ 70	0	0.119	0.221	0.301	0.372	0.439	0.500	0.548	0.585	0.621	0.660	0.699	0.738
70 < IC ≤ 80	0	0.116	0.218	0.297	0.368	0.435	0.496	0.544	0.582	0.618	0.657	0.696	0.733
80 < IC ≤ 90	0	0.114	0.215	0.294	0.365	0.432	0.492	0.541	0.579	0.616	0.655	0.693	0.730
90 < IC ≤ 100	0	0.112	0.212	0.290	0.362	0.429	0.489	0.537	0.576	0.614	0.653	0.691	0.727
100 < IC ≤ 110	0	0.110	0.209	0.287	0.359	0.426	0.486	0.534	0.574	0.612	0.651	0.688	0.723
110 < IC ≤ 120	0	0.108	0.206	0.284	0.357	0.424	0.483	0.531	0.571	0.610	0.649	0.686	0.720
120 < IC ≤ 130	0	0.108	0.204	0.282	0.355	0.422	0.480	0.528	0.569	0.608	0.647	0.683	0.718
130 < IC ≤ 140	0	0.109	0.204	0.282	0.355	0.421	0.479	0.526	0.567	0.607	0.645	0.681	0.715
140 < IC ≤ 150	0	0.110	0.205	0.282	0.355	0.420	0.477	0.524	0.565	0.605	0.643	0.679	0.713
150 < IC ≤ 160	0	0.112	0.205	0.283	0.354	0.419	0.475	0.522	0.563	0.603	0.641	0.678	0.711
160 < IC ≤ 170	0	0.113	0.205	0.283	0.354	0.418	0.473	0.520	0.562	0.601	0.640	0.676	0.709
170 < IC ≤ 180	0	0.112	0.203	0.280	0.352	0.415	0.469	0.516	0.558	0.598	0.636	0.672	0.705
180 < IC ≤ 190	0	0.108	0.198	0.276	0.346	0.409	0.463	0.510	0.551	0.592	0.630	0.666	0.699
190 < IC ≤ 200	0	0.105	0.194	0.271	0.341	0.403	0.456	0.503	0.545	0.586	0.624	0.660	0.694

Table 19 – De-Rating Curves for Other Storage Units and DSUs with Maximum Down Time ≤ 6 hours

	Hours of Storage												
Initial Capacity (IC) (MW)	**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	0.141	0.242	0.323	0.396	0.465	0.525	0.569	0.605	0.636	0.672	0.718	0.770
10 < IC ≤ 20	0	0.139	0.241	0.321	0.394	0.462	0.523	0.567	0.603	0.634	0.670	0.716	0.767
20 < IC ≤ 30	0	0.132	0.233	0.313	0.385	0.453	0.513	0.558	0.595	0.627	0.664	0.707	0.754
30 < IC ≤ 40	0	0.129	0.230	0.309	0.380	0.448	0.508	0.554	0.590	0.623	0.660	0.702	0.747
40 < IC ≤ 50	0	0.125	0.226	0.305	0.376	0.442	0.503	0.549	0.585	0.619	0.657	0.697	0.740
50 < IC ≤ 60	0	0.121	0.222	0.300	0.371	0.437	0.497	0.544	0.581	0.615	0.653	0.693	0.733
60 < IC ≤ 70	0	0.118	0.218	0.296	0.366	0.432	0.492	0.540	0.576	0.611	0.650	0.688	0.726
70 < IC ≤ 80	0	0.115	0.215	0.292	0.362	0.428	0.488	0.536	0.573	0.608	0.647	0.684	0.721
80 < IC ≤ 90	0	0.113	0.212	0.289	0.360	0.425	0.485	0.532	0.570	0.606	0.645	0.682	0.718
90 < IC ≤ 100	0	0.111	0.209	0.286	0.357	0.422	0.481	0.529	0.567	0.604	0.642	0.679	0.714
100 < IC ≤ 110	0	0.109	0.205	0.283	0.354	0.420	0.478	0.526	0.564	0.602	0.640	0.677	0.711
110 < IC ≤ 120	0	0.107	0.202	0.279	0.351	0.417	0.475	0.522	0.562	0.600	0.638	0.674	0.708
120 < IC ≤ 130	0	0.106	0.201	0.278	0.349	0.415	0.472	0.520	0.559	0.598	0.636	0.672	0.705
130 < IC ≤ 140	0	0.107	0.201	0.278	0.349	0.414	0.471	0.518	0.557	0.596	0.634	0.670	0.703
140 < IC ≤ 150	0	0.109	0.201	0.278	0.349	0.413	0.469	0.516	0.556	0.595	0.632	0.668	0.701
150 < IC ≤ 160	0	0.110	0.202	0.278	0.349	0.412	0.467	0.514	0.554	0.593	0.630	0.666	0.699
160 < IC ≤ 170	0	0.111	0.202	0.278	0.349	0.411	0.465	0.512	0.552	0.591	0.628	0.664	0.697
170 < IC ≤ 180	0	0.110	0.200	0.276	0.346	0.408	0.461	0.507	0.548	0.587	0.625	0.660	0.692
180 < IC ≤ 190	0	0.107	0.195	0.271	0.341	0.402	0.455	0.501	0.542	0.581	0.619	0.654	0.687
190 < IC ≤ 200	0	0.103	0.191	0.267	0.336	0.396	0.449	0.495	0.536	0.575	0.613	0.648	0.681

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
0.091	0.127

3.2 Increase and Decrease Tolerance

This section gives the Increase and Decrease Tolerances by Technology Class. 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-21-019), 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 New Capacity Investment Rate Threshold

This section gives the New Capacity Investment Rate Threshold applicable to the 2022/2023 T-1 Capacity Auction. This was published in section 2.8 of the Initial Auction Information Pack. These values have not changed and are only included here for reference.

D.3.1.2 (h) the final €/MW rate of the New Capacity Investment Rate Threshold to be used in the Capacity Auction;

As set out in the SEM Committee decision (SEM-21-019), the approved Existing Capacity Price Caps are set out in Table 22 below:

Table 22 – New Capacity Investment Rate Threshold

New Capacity Investment Rate Threshold (€/MW)	New Capacity Investment Rate Threshold (£/MW)
300, 000	259,440

3.4 Implementation Progress Reporting Schedule

This section gives the Implementation Progress Reporting Schedule applicable to the 2022/2023 T-1 Capacity Auction. This was published in section 2.19 of the Initial Auction Information Pack. These values have not changed and are only included here for reference.

J.4.2.3 The System Operators shall publish:

(a) the reporting schedule for Awarded New Capacity initially in the applicable Capacity Auction Timetable; and

(b) any amended reporting schedule within two Working Days of receiving the schedule or amended schedule from the Regulatory Authorities.

This table lists the Implementation Progress Reporting Schedule for the 2022/2023 T-1 Capacity Auction.

Report Name	Date
Implementation Progress Report 1	14/01/2022
Implementation Progress Report 2	15/07/2022
Implementation Progress Report 3	16/01/2023
Implementation Progress Report 4	17/07/2023
Implementation Progress Report 5	15/01/2024

The obligation also remains on the Participant with Awarded Capacity to report upon achieving the following Milestones (where applicable):
(i) Substantial Financial Completion;
(ii) Commencement of Construction Works; and
(iii) Substantial Completion.

3.5 Substantial Financial Completion Period

This section gives the Substantial Financial Completion Period applicable to the 2022/2023 T-1 Capacity Auction. This was published in section 2.20 of the Initial Auction Information Pack. This value has not changed and is only included here for reference.

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

3.6 Long Stop Date

This section gives the Long Stop Dates applicable to the 2022/2023 T-1 Capacity Auction. Please note that this table aligns with the recent SEM Committee decision SEM-21-019 available at this location.

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 2022	31 March 2024

3.7 Capacity Market Code Items Change Table

This section gives the Capacity Market Code Items Change Table. This was published in section 3 of the Initial Auction Information Pack. This table has not changed and is only included here for reference.

Table 25 – Capacity Market Code Items Change Table

Code Item	IAIP	FAIP
De-Rating Curves	Final	Final
Capacity Requirement	Final	Final
Demand Curve	Indicative	Final
Locational Capacity Constraint Areas	Final	Final
Locational Capacity Constraint Minimum Requirement	Values not included in IAIP	Final
Awarded Capacity	Indicative	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