

# Capacity Market – Initial Auction Information Pack IAIP2425T-4

This Initial Auction Information Pack provides information relating to items listed within Section D.3 of the Capacity Market Code for the T-4 Capacity Auction for the Capacity Year 2024/2025, which is expected to be held on 21<sup>st</sup> January 2021. The Auction will be referred to within this document as the 2024/2025 T-4 Capacity Auction. The Capacity Year will be referred to in this document as the 2024/2025 T-4 Capacity Year.

All information set out in this document relates solely to the 2024/2025 T-4 Capacity Auction.

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## 1. Introduction

### **1.1** Background and purpose

This Initial Auction Information Pack<sup>1</sup> provides information relating to items listed within Section D.3 of the Capacity Market Code for the T-4 Capacity Auction for the Capacity Year 2024/2025, which is expected to be held on 21<sup>st</sup> January 2021. The Auction will be referred to within this document as the 2024/2025 T-4 Capacity Auction.

In accordance with D.1.1.1 of the Capacity Market Code, the Capacity Year 2024/2025 is the period commencing at the start of the Trading Day beginning at 23:00 on 30<sup>th</sup> September 2024 and ending at the end of the Trading Day ending at 23:00 on 30<sup>th</sup> September 2025.

All information set out in this document relates solely to the 2024/2025 T-4 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 website<sup>2</sup>.

Please note that information published within this pack may be subject to amendment within the Final Auction Information Pack per Capacity Market Code, Section D.3.1.4. Care has been taken within this document to clearly note where information is final or where it is indicative and subject to change.

The Final Auction Information Pack is due to be published on the 8<sup>th</sup> December 2020. Per Section D.3.1.5 of the Capacity Market Code, before acting in reliance on any information contained within this document, please take care to ensure any amendments post the publication of the Final Auction Information Pack have been taken into consideration.

### 1.2 Units

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

For prices specified in €/MW per year or £/MW per year, 'year' refers to a <u>12-month year</u>, 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 ( $\in$ ) 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.

<sup>&</sup>lt;sup>1</sup> Capitalised terms in this document have the definition ascribed to them in the Capacity Market Code.

<sup>&</sup>lt;sup>2</sup> <u>https://www.sem-o.com/</u>



## 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)

### 1.4 Disclaimer

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

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## 2. Capacity Market Code Items

This document contains values for items listed within Section D.3.1.2 of the I-SEM Capacity Market Code. Information determined by the Regulatory Authorities per Section D.3.1.3 is described as approved.

## 2.1 De-Rating Curves

### 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 Table 1, Table 2, Table 3, Table 4 and Table 5 below.



Table 1 – De-Rating Curves by Technology Class	and Initial Capacity
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Table 1 – De-Rating Curves by Technology Class and Initial Capacity											
Initial Capacity (IC) (MW not de-rated)	DSU >6 hrs <sup>3</sup>	Gas Turbine	Hydro	Steam Turbine	Interconnector <sup>4</sup>	System Wide⁵					
$0 \le  C \le 10$	0.895	0.905	0.890	0.847	0.884	0.895					
10 < IC ≤ 20	0.893	0.903	0.890	0.844	0.882	0.893					
20 < IC ≤ 20	0.893	0.904	0.886	0.841	0.882	0.893					
20 < IC ≤ 30 30 < IC ≤ 40	0.891	0.903		0.838	0.880	0.891					
			0.885								
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		0.882					
70 < IC ≤ 80 80 < IC ≤ 90	0.880	0.900 0.899	0.878 0.876	0.826	0.868	0.880 0.878					
	0.878				0.866						
90 < IC ≤ 100	0.876	0.899 0.898	0.874	0.819 0.816	0.863	0.876 0.874					
100 < IC ≤ 110	0.874		0.873		0.861						
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 0.865	0.894 0.893	0.871	0.807	0.854 0.851	0.867 0.865					
140 < IC ≤ 150	-										
150 < IC ≤ 160 160 < IC ≤ 170	0.863	0.891	0.869	0.800	0.848	0.863					
	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 0.855					
180 < IC ≤ 190	0.855 0.852	0.885	0.866	0.788	0.840	0.855					
190 < IC ≤ 200		0.883	0.865								
200 < IC ≤ 210	0.849	0.882		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 0.766	0.825	0.841					
240 < IC ≤ 250	0.839	0.875	0.854	0.768	0.822	0.839					
250 < IC ≤ 260 260 < IC ≤ 270	0.836	0.874 0.872	0.852 0.850	0.758	0.819 0.816	0.836					
	0.833	0.872	0.848	0.753	0.813	0.833					
270 < IC ≤ 280 280 < IC ≤ 290	0.830	0.870	0.846	0.733	0.809	0.830					
290 < IC ≤ 290	0.827	0.865	0.840	0.745	0.809	0.825					
290 < IC ≤ 300 300 < IC ≤ 310	0.823	0.863	0.842	0.743	0.803	0.823					
310 < IC ≤ 320	0.822	0.863	0.840	0.741	0.799	0.822					
320 < IC ≤ 330	0.818	0.859	0.840	0.733	0.796	0.815					
330 < IC ≤ 340	0.813	0.857	0.835	0.728	0.792	0.815					
340 < IC ≤ 350	0.809	0.855	0.833	0.724	0.789	0.809					
350 < IC ≤ 360	0.809	0.855	0.833	0.720	0.785	0.809					
360 < IC ≤ 370	0.802	0.850	0.828	0.716	0.782	0.802					
370 < IC ≤ 380	0.802	0.830	0.828	0.710	0.779	0.799					
380 < IC ≤ 390	0.795	0.847	0.820	0.707	0.775	0.796					
390 < IC ≤ 400	0.793	0.843	0.823	0.703	0.772	0.793					
400 < IC ≤ 410	0.789	0.842	0.821	0.698	0.768	0.789					
400 < IC ≤ 410 410 < IC ≤ 420	0.785	0.838	0.819	0.693	0.763	0.785					
410 < IC ≤ 420 420 < IC ≤ 430	0.785	0.835	0.810	0.688	0.759	0.781					
430 < IC ≤ 440	0.777	0.833	0.814	0.682	0.754	0.777					
440 < IC ≤ 450	0.773	0.833	0.809	0.677	0.750	0.773					
440 < IC ≤ 450 450 < IC ≤ 460	0.768	0.831	0.803	0.672	0.745	0.768					
460 < IC ≤ 470	0.765	0.825	0.807	0.667	0.741	0.765					
480 < IC ≤ 470 470 < IC ≤ 480	0.761	0.823	0.803	0.662	0.737	0.761					
470 < IC ≤ 480	0.757	0.819	0.802	0.657	0.733	0.757					
490 < IC ≤ 500	0.753	0.815	0.798	0.652	0.728	0.753					
450 410 2 500	0.755	0.010	0.750	0.032	0.720	0.755					

<sup>&</sup>lt;sup>3</sup> In accordance with SEM Committee decision <u>SEM-18-030</u>, 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 4.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> New Technology (i.e. a technology for which there is currently no technology class) should use the System Wide derating curve.



Table 2 – De-Rating Curves for Pumped Hydro Storage	Units
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		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 3 – De-Rating Curves for De-Rating Curves for Other Storage Units

						H	ours of St	torage					
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



		Hours of Demand Reduction Capability											
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	Up to and including 6.0
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

Table 4 – De-Rating Curves for DSUs with Maximum Down Time ≤ 6 hours

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

#### Table 5 – De-Rating Factors for Wind and Solar

Wind	Solar
0.091	0.127

### 2.2 Final Capacity Requirement

# D.3.1.2 (b) the final Capacity Requirement for the Capacity Year to be used in the Capacity Auction;

The Capacity Requirement is determined by the Regulatory Authorities in accordance with Section D.3.1.3 (b) of the Capacity Market Code. The approved Capacity Requirement is set out in Table 6 below:

#### Table 6 – Capacity Requirement

Capacity Requirement (MW)
7,170

Please note that a proportion of the Capacity Requirement will be held back from this T-4 Capacity Auction. The amount to be withheld will be determined by the Regulatory Authorities at the T-4 Final Auction Information Pack stage and this will be reflected as adjustments to the Demand Curve and the Locational Capacity Constraint Area Required Quantity values.

### 2.3 Indicative Demand Curve

### D.3.1.2 (c) an indicative Demand Curve to be used in the Capacity Auction;

The Demand Curve is determined by the Regulatory Authorities in accordance with section F.3 of the Capacity Market Code. The approved **indicative** Demand Curve is set out in Table 7 below:

### Table 7 – Indicative Demand Curve to be used in the Capacity Auction

De-Rated Capacity (MW)	Demand Curve Point (€/MW per year)
0	138,450
6632.25	138,450
7170.00	92,300
8245.50	0

**Note**: This Demand Curve is indicative and includes a forecast adjustment for non-participating capacity and reserve. The final Demand Curve will be set by the Regulatory Authorities prior to the issue of the Final Auction Information Pack, and shall be confirmed within the Final Auction Information Pack.

## **2.4** Locational Capacity Constraints

### D.3.1.2 (d) for each Locational Capacity Constraint for the relevant Capacity Year to be used in the Capacity Auction, the final nodes on the Transmission System (and the Distribution System, as applicable) to which the Locational Capacity Constraint applies;

In accordance with Section C.2 of the Capacity Market Code and the approved Locational Capacity Constraints methodology (SEM-20-034), the System Operators calculate and submit to the Regulatory Authorities any Locational Capacity Constraints applicable to the Capacity Year for their determination. The approved Level 1 and Level 2 Locational Capacity Constraints are set out in Table 8 and Table 9 below:

Level	Locational Capacity Constraint Area Name	Associated Level 2 Locational Constraint Area(s)	Locational Capacity Constraint Area Nodes	Minimum MW <sup>6</sup>
1	L1-1: Northern Ireland	-	All nodes within Northern Ireland	Value to be provided in Final Auction Information Pack
1	L2-1: Greater Du L1-2: Ireland L2-2: Rest of Irel		All nodes within Ireland	Value to be provided in Final Auction Information Pack

Table 8 – Level 1 Locatio	nal Capacity Constraints
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<sup>&</sup>lt;sup>6</sup> Minimum MW represented in de-rated MW values.



### Table 9 – Level 2 Locational Capacity Constraints

Level	Locational Capacity Constraint Area Name	Associated Level 1 Locational Constraint Area	Locational Capacity Constraint Area Nodes	Minimum MW <sup>7</sup>
2	L2-1: Greater Dublin	L1-2: Ireland	<ol> <li>Adamstown 110 kV station [ADM]</li> <li>Airton 110kV station [ATN]</li> <li>Artane 110kV station [ART]</li> <li>Baltrasna 110kV station [BLL]</li> <li>Barnakyle 110kV station [BLA]</li> <li>Belcamp 220/110 kV station [BLC]</li> <li>Blackrock 110kV station [BLA]</li> <li>Cabra 110kV station [CAB]</li> <li>Castlebagot 110kV station [CTY]</li> <li>Cloper 210kV station [CLG]</li> <li>College Park 110kV station [COL]</li> <li>College Park 110kV station [COL]</li> <li>College Park 110kV station [COD]<sup>8</sup></li> <li>Corduff 220/110kV station [CCO]<sup>8</sup></li> <li>Corduff 220/110kV station [CCO]</li> <li>Corduff 220/110kV station [CCO]</li> <li>Corduff 220/110kV station [CRM]</li> <li>Cruiserath 220kV station [CRM]</li> <li>Cruiserath 220kV station [CRM]</li> <li>Cruiserath 220kV station [FIN]</li> <li>Fortunestown 110kV station [FIN]</li> <li>Fortunestown 110kV station [FIN]</li> <li>Fortunestown 110kV station [GCA]</li> <li>Grange Castle 110kV station [GCA]</li> <li>Grange Castle 110kV station [GCA]</li> <li>Harolds Cross 110kV station [HAR]</li> <li>Heuston Square 110kV station [HL]</li> <li>Nacetown 110kV station [INC]</li> <li>Irish Town 220kV station [INC]</li> <li>Irish Town 220kV station [ML]</li> <li>Kilmore 110kV station [ML]</li> <li>Macetown 110kV station [ML]</li> <li>Miltown 110kV station [ML]</li> <li>Miltown 110kV station [ML]</li> <li>Miltown 110kV station [NAN]</li> <li>Newbury 110kV station [NQS]</li> <li>North Quays 110kV station [POP]</li> <li>Ringsend 110kV station [RYB]</li> <li>Setphenstown 110kV station [SVN]</li> <li>Poppintree 110kV station [SVN]</li> <li>Popintree 110kV station [SVN]</li> <li>Popintree 110kV station [SVN]</li> <li>Setphenstown 110kV station [SVN]</li> <li>Popintree 110kV station [SVN]</li> <li>North Quays 110kV station [SVN]</li> <li>Shellybanks 220kV station [SVN]</li> <li>Shellybanks 22</li></ol>	Value to be provided in Final Auction Information Pack
2	L2-2: Rest of Ireland	L1-2: Ireland	All nodes within L1-2: Ireland excluding nodes in L2- 1: Greater Dublin	Value to be provided in Final Auction Information Pack

 <sup>&</sup>lt;sup>7</sup> Minimum MW represented in de-rated MW values.
 <sup>8</sup> 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.

## 2.5 Awarded Capacity

# D.3.1.2 (e) at the date of the Initial 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)
1097.183

### 2.6 Auction Price Cap

### D.3.1.2 (f) the final Auction Price Cap to be used in the Capacity Auction (in Euro and Sterling);

As set out in the SEM Committee decision (SEM-20-034), the approved Auction Price Caps are set out in Table 11 below:

### Table 11 – Auction Price Caps

Auction Price Cap (€/MW per year)	Auction Price Cap (£/MW per year)
138,450	126,972.50

## 2.7 Existing Capacity Price Cap

# D.3.1.2 (g) the final Existing Capacity Price Cap to be used in the Capacity Auction (in Euro and Sterling);

As set out in the SEM Committee decision (SEM-20-034), the approved Existing Capacity Price Caps are set out in Table 12 below:

### Table 12 – Existing Capacity Price Cap

Existing Capacity Price Cap (€/MW per year)	Existing Capacity Price Cap (£/MW per year)
46,150	42,324.17

### 2.8 New Capacity Investment Rate Threshold

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-20-034), the approved Existing Capacity Price Caps are set out in Table 13 below:

New Capacity Investment Rate Threshold (€/MW)	New Capacity Investment Rate Threshold (£/MW)
300,000	275,130

#### Table 13 – New Capacity Investment Rate Threshold

### 2.9 Annual Stop-Loss Limit Factor

# D.3.1.2 (i) 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-20-034), the approved Annual Stop-Loss Limit Factor is set out in Table 14 below:

Annual Stop-Loss Limit Factor
1.5

### 2.10 Billing Period Stop-Loss Limit Factor

# D.3.1.2 (j) 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-20-034), the approved Billing Period Stop-Loss Limit Factor is set out in Table 15 below:

#### Table 15 – Billing Period Stop-Loss Limit Factor

Billing Period Stop-Loss Limit Factor
0.5

### 2.11 Annual Capacity Payment Exchange Rate

### D.3.1.2 (k) the indicative Annual Capacity Payment Exchange Rate applicable to Awarded Capacity allocated in the Capacity Auction;

The approved indicative Annual Capacity Payment Exchange Rates are set out in Table 16.

#### Table 16 – Annual Capacity Payment Exchange Rates

Annual Capacity Payment Exchange Rate	Annual Capacity Payment Exchange Rate
€1 = £0.9171	£1 = 1.0904

This value has been used to convert Euro values of the Auction Price Cap, the Existing Capacity Price Cap and the New Capacity Investment Rate Threshold into Sterling values.

**Note:** the final Annual Capacity Payment Exchange Rate will be included in the Final Auction Information Pack. This rate has been calculated using the same approach that was used for calculating the SEM Annual Capacity Exchange Rate.



### 2.12 Increase and Decrease Tolerance

### D.3.1.2 (I) 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-20-034), the approved Increase and Decrease Tolerances are set out in Table 17 below:

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

#### Table 17 – Increase and Decrease Tolerances per Technology Class

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 <u>SEM-18-030</u>, 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.

### 2.13 Performance Securities

### D.3.1.2 (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-20-034), the approved final Performance Security Posting Dates/ Events and final performance security rates are set out in Table 18 below:

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

Table 18 – Performance	Security Dates and Rates
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### 2.14 Termination Charges

# D.3.1.2 (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-20-034), the approved final Termination Charge rates are set out in Table 19 below:

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

### Table 19 – Termination Charge Rates

## 2.15 Administered Scarcity Price

### D.3.1.2 (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-20-034), the approved anticipated values of the Full Administered Scarcity Price and the Reserve Scarcity Price Curve are set out in Table 20 below:

Short Term Reserve (MW)	Administered Scarcity Price (€/MWh)
Demand Control	3133.29
0	3133.29
500	500

### 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 21.

Strike Price Component	Value	Unit
PCARBON <sub>m</sub>	PCARBON <sub>m</sub> Index	€/tCO2e
PFUELNG <sub>m</sub>	[PFUELNG <sub>m</sub> Index (p/therm) x 0.01 (£/p) + PFUELNG <sub>m</sub> Transport (£/therm)] x Exchange Rate (€/£) x 9.48 (therm/GJ) x 3.6 (GJ/MWh)	€/MWh
PFUELO <sub>m</sub>	[PFUELO <sub>m</sub> Index (\$/t) x Exchange Rate (€/\$) + PFUELO <sub>m</sub> Transport (€/t)] x 0.025 (t/GJ) x 3.6 (GJ/MWh)	€/MWh

### Table 21 – Anticipated Strike Price calculation components



PCARBON <sub>m</sub> Index	ICE ECX EUA Futures – EUA - (monthly) <sup>9</sup>	€/tCO2e
PFUELNG <sub>m</sub> Index	ICE UK Natural Gas Index (monthly)	p/therm
PFUELNG <sub>m</sub> Transport	0.0424 <sup>10</sup>	£/therm
PFUELO <sub>m</sub> 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 <sub>m</sub> Transport	50 <sup>11</sup>	€/t
FTHEORYPUy	15	%
FCARBONING <sub>y</sub>	0.202	tCO2e/MWh
FCARBONINO <sub>y</sub>	0.277	tCO2e/MWh
PTHEORYDSUy	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 <sup>12</sup>	therm/GJ
LSFO calorific value	0.025 <sup>13</sup>	t/GJ

## 2.17 Capacity Auction Timetable

# D.3.1.2 (q) the final Capacity Auction Timetable as it relates to events after the publication of the Initial Auction Information Pack (subject to section D.2).

The approved Capacity Auction Timetable is set out in Table 22 below.

Table 22 – Capacity	Auction	Timetable
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	Event	Date
1	Initial Auction Information Pack Date: the last publication date for the Initial Auction Information Pack	03/06/2020
2	Opt-out Notification Date: the last date a Participant can submit an Opt-out Notification	17/06/2020

<sup>&</sup>lt;sup>9</sup> The December price for a given year will apply to all months falling within that year.

<sup>&</sup>lt;sup>10</sup> NI natural gas transport adder used in I-SEM PLEXOS Forecast Model 2016-17.

<sup>&</sup>lt;sup>11</sup> Based on ROI LSFO transport adder used in I-SEM PLEXOS Forecast Model 2016-17.

<sup>&</sup>lt;sup>12</sup> I-SEM PLEXOS Forecast Model 2016-17

<sup>&</sup>lt;sup>13</sup> I-SEM PLEXOS Forecast Model 2016-17



	Event	Date
3	Exception Application Date: the last time a Participant can make an Exception Application to the Regulatory Authorities	01/07/2020
4	Qualification Application Date: the last date a Participant can submit an Application for Qualification in respect of the Capacity Auction	01/07/2020
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	09/09/2020
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	17/11/2020
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	04/12/2020
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	08/12/2020
9	Date for finalising the Locational Capacity Constraint Limits for the Capacity Auction	08/12/2020
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	08/12/2020
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	14/01/2021
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	21/01/2021 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	21/01/2021 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)	26/01/2021
15	Capacity Auction Provisional Results Date: the date by which the System Operators are expected to provide provisional Capacity Auction results to Participants	29/01/2021
15A	Capacity Auction Provisional Results Publication Date: the date by which the System Operators are expected to publish provisional Capacity Auction Results	10/02/2021
16	Capacity Auction Approval Date: the date by which the Regulatory Authorities are expected to approve the Capacity Auction results	05/03/2021
17	Capacity Auction Results Date: the date the System Operators are expected to publish the Capacity Auction results	12/03/2021
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	19/03/2021

## 2.18 Timeframe for Reviewable Decisions and Qualification Disputes

### Appendix C: Table B: Timeframe for Reviewable Decisions and Qualification Disputes.

The approved timetable for Reviewable Decisions and Qualification Disputes is set out in Table 23 below:

### Table 23 – Timeframe for Reviewable Decisions and Qualification Disputes

	Event	Date
1	Timeframe within which Applications for Review must be lodged	15/09/2020
2	Timeframe within which System Operators may reject a non-complying Application for Review	21/09/2020
3	Timeframe within which Participant must comply with a request for further information	30/09/2020
4	Timeframe within which System Operators must notify Participant of outcome of their reconsideration	12/10/2020
5	Latest date for giving a Dispute Notice in relation to a Qualification Dispute	19/10/2020
6	Latest date by which the CMDRB shall give its decision in relation to a Qualification Dispute	16/11/2020

### 2.19 Implementation Progress Reporting Schedule

### 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 2023/2024 T-4 Capacity Auction.

Report Name	Date
Implementation Progress Report 1	23/07/2021
Implementation Progress Report 2	14/01/2022
Implementation Progress Report 3	15/07/2022
Implementation Progress Report 4	13/01/2023
Implementation Progress Report 5	14/07/2023
Implementation Progress Report 6	16/01/2024
Implementation Progress Report 7	16/07/2024
Implementation Progress Report 8	14/01/2025
Implementation Progress Report 9	18/07/2025
Implementation Progress Report 10	23/01/2026

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.



### 2.20 Substantial Financial Completion Period

This section gives the Substantial Financial Completion Period applicable to this Capacity Auction.

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

### (r) The Substantial Financial Completion Period.

Table 24 – Substantial Financial Completion Period

**Substantial Financial Completion Period** 

18 months

### 2.21 Long Stop Date

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

### Table 25 – 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 2024	31 March 2026



## 3. Capacity Market Code Items Change Table

Information contained within this Initial Auction Information Pack (IAIP) may be subject to change during the publication of the Final Auction Information Pack (FAIP). The FAIP is due to be published on the 8<sup>th</sup> December 2020. The below table provides a breakdown of Capacity Market Code items which are deemed to be Final/Indicative and Anticipated.

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	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	

Table 26 – Can	acity Market	Code Items	Change Table
	acity market	couc nems	change rubie