



## Capacity Market - Initial Auction Information Pack

### IAIP1920T-1

---

*This Initial Auction Information Pack provides information relating to items listed within Section D.3 of the Capacity Market Code for the T-1 Capacity Auction for the Capacity Year 2019/2020, which is expected to be held on 13<sup>th</sup> December 2018. The auction will be referred to within this document as the 2019/2020 T-1 Capacity Auction. The Capacity Year will be referred to in this document as the 2019/2020 T-1 Capacity Year.*

*All information set out in this document relates solely to the 2019/2020 T-1 Capacity Auction.*

**Date:** 18 September 2018  
**Document:** IAIP1920T-1  
**Revision:** V1.1

**Table of Contents**

- 1. Introduction..... 3**
  - 1.1 Background and purpose ..... 3
  - 1.2 Units ..... 3
  - 1.3 Contact Details ..... 4
  - 1.4 Disclaimer ..... 4
  - 1.5 Copyright Notice..... 4
- 2. Capacity Market Code Items ..... 5**
  - 2.1 De-Rating Curves..... 5
  - 2.2 Final Capacity Requirement ..... 8
  - 2.3 Indicative Demand Curve ..... 8
  - 2.4 Locational Capacity Constraints ..... 9
  - 2.5 Awarded Capacity ..... 11
  - 2.6 Auction Price Cap..... 11
  - 2.7 Existing Capacity Price Cap ..... 11
  - 2.8 New Capacity Investment Rate Threshold ..... 12
  - 2.9 Annual Stop-Loss Limit Factor ..... 12
  - 2.10 Billing Period Stop-Loss Limit Factor..... 12
  - 2.11 Annual Capacity Payment Exchange Rate..... 13
  - 2.12 Increase and Decrease Tolerance ..... 13
  - 2.13 Performance Securities ..... 14
  - 2.14 Termination Charges..... 14
  - 2.15 Administered Scarcity Price ..... 15
  - 2.16 Strike Price..... 15
  - 2.17 Capacity Auction Timetable ..... 16
  - 2.18 Timeframe for Reviewable Decisions and Qualification Disputes ..... 17
  - 2.19 Implementation Progress Reporting Schedule ..... 18
- 3. Capacity Market Code Items Change Table ..... 19**

**List of Tables**

- Table 1 –De-Rating Curves by Technology Class and Initial Capacity ..... 6
- Table 2 –De-Rating Curves for pumped hydro storage units by Initial Capacity and duration of storage at full output ..... 7
- Table 3 –De-Rating Curves for Other Storage units by Initial Capacity and duration of storage / demand response at full output..... 7
- Table 4 –De-rating Factors for Wind and Solar ..... 8
- Table 5 –Capacity Requirement..... 8
- Table 6 – Indicative Demand Curve to be used in the Capacity Auction ..... 8
- Table 7 – Level 1 Locational Capacity Constraints ..... 9
- Table 8 – Level 2 Locational Capacity Constraints ..... 10
- Table 9 – Awarded Capacity ..... 11
- Table 10 – Auction Price Caps ..... 11
- Table 11 – Existing Capacity Price Cap..... 11
- Table 12 – New Capacity Investment Rate Threshold ..... 12
- Table 13 – Annual Stop-Loss Limit Factor ..... 12
- Table 14 – Billing Period Stop-Loss Limit Factor..... 12
- Table 15 – Annual Capacity Exchange Rates..... 13
- Table 16 – Increase and Decrease Tolerances per Technology Class ..... 13
- Table 17 – Performance Security Dates and Rates..... 14
- Table 18 – Termination Charge Rates..... 14
- Table 19 – Anticipated Administered Scarcity Price Curve..... 15
- Table 20 – Anticipated Strike Price calculation components ..... 15
- Table 21 – Capacity Auction Timetable ..... 16
- Table 23 – Capacity Market Code Items Change Table..... 19

---

## 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 Capacity Auction for the Capacity Year 2019/2020, which is expected to be held on 13<sup>th</sup> December 2018. The auction will be referred to within this document as the 2019/2020 T-1 Capacity Auction.

In accordance with D.1.1.1 of the Capacity Market Code, the Capacity Year 2019/2020 is the period commencing at the start of the Trading Day beginning at 23:00 on 30<sup>th</sup> September 2019 and ending at the end of the Trading Day ending at 23:00 on 30<sup>th</sup> September 2020.

All information set out in this document relates solely to the 2019/2020 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 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 by 30<sup>th</sup> November 2018. 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 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.

---

---

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

<sup>2</sup> [www.sem-o.com/ISEM/Pages/CapacityMarket.aspx](http://www.sem-o.com/ISEM/Pages/CapacityMarket.aspx)

---

### 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.

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.

Whilst every effort is made to provide information that is useful and care has been taken in the preparation of the information, EirGrid and SONI give no warranties or representations, expressed or implied, of any kind, with respect to the contents of this information pack, including without limitation, its quality, accuracy and completeness.

EirGrid and SONI and their respective advisers, consultants and other contributors to this information pack (or their respective associated companies, businesses, partners, directors, officers or employees) hereby exclude to the fullest extent permitted by law, all and any liability for any errors, omissions, defects or misrepresentations in the information contained in this information pack, or for any loss or damage suffered by persons who use or rely on such information (including by reason of negligence, negligent misstatement or otherwise).

---

### 1.5 Copyright Notice

Copyright EirGrid plc, all rights reserved. The entire publication is subject to the laws of copyright. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or manual, including photocopying without the prior written permission of EirGrid plc.

The Oval,  
160 Shelbourne Road,  
Ballsbridge, Dublin 4,  
Ireland.

---

## 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 and Table 4 below:

**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 Wide <sup>5</sup>
0 ≤ IC ≤ 10	0.922	0.926	0.906	0.909	0.921	0.922
10 < IC ≤ 20	0.921	0.925	0.904	0.908	0.919	0.921
20 < IC ≤ 30	0.920	0.924	0.903	0.906	0.917	0.920
30 < IC ≤ 40	0.919	0.923	0.901	0.904	0.915	0.919
40 < IC ≤ 50	0.918	0.923	0.900	0.902	0.913	0.918
50 < IC ≤ 60	0.917	0.922	0.898	0.900	0.910	0.917
60 < IC ≤ 70	0.916	0.921	0.897	0.899	0.908	0.916
70 < IC ≤ 80	0.915	0.921	0.896	0.897	0.906	0.915
80 < IC ≤ 90	0.914	0.920	0.894	0.895	0.904	0.914
90 < IC ≤ 100	0.913	0.919	0.893	0.893	0.902	0.913
100 < IC ≤ 110	0.911	0.918	0.891	0.891	0.900	0.911
110 < IC ≤ 120	0.909	0.917	0.890	0.888	0.898	0.909
120 < IC ≤ 130	0.907	0.915	0.888	0.886	0.896	0.907
130 < IC ≤ 140	0.905	0.914	0.886	0.883	0.894	0.905
140 < IC ≤ 150	0.904	0.912	0.885	0.881	0.892	0.904
150 < IC ≤ 160	0.902	0.911	0.883	0.879	0.890	0.902
160 < IC ≤ 170	0.900	0.911	0.880	0.876	0.887	0.900
170 < IC ≤ 180	0.898	0.910	0.878	0.874	0.885	0.898
180 < IC ≤ 190	0.897	0.909	0.876	0.872	0.882	0.897
190 < IC ≤ 200	0.895	0.909	0.873	0.870	0.879	0.895
200 < IC ≤ 210	0.893	0.908	0.871	0.868	0.877	0.893
210 < IC ≤ 220	0.891	0.906	0.869	0.865	0.874	0.891
220 < IC ≤ 230	0.889	0.905	0.868	0.863	0.871	0.889
230 < IC ≤ 240	0.887	0.904	0.866	0.860	0.868	0.887
240 < IC ≤ 250	0.886	0.903	0.864	0.858	0.866	0.886
250 < IC ≤ 260	0.884	0.902	0.863	0.855	0.863	0.884
260 < IC ≤ 270	0.881	0.900	0.861	0.853	0.860	0.881
270 < IC ≤ 280	0.879	0.899	0.859	0.850	0.857	0.879
280 < IC ≤ 290	0.877	0.897	0.857	0.847	0.855	0.877
290 < IC ≤ 300	0.875	0.896	0.855	0.844	0.852	0.875
300 < IC ≤ 310	0.872	0.894	0.854	0.841	0.849	0.872
310 < IC ≤ 320	0.870	0.893	0.852	0.838	0.846	0.870
320 < IC ≤ 330	0.867	0.892	0.850	0.835	0.843	0.867
330 < IC ≤ 340	0.864	0.890	0.848	0.832	0.840	0.864
340 < IC ≤ 350	0.861	0.889	0.846	0.829	0.836	0.861
350 < IC ≤ 360	0.858	0.887	0.844	0.826	0.833	0.858
360 < IC ≤ 370	0.855	0.886	0.842	0.822	0.830	0.855
370 < IC ≤ 380	0.853	0.884	0.839	0.819	0.826	0.853
380 < IC ≤ 390	0.850	0.883	0.837	0.816	0.823	0.850
390 < IC ≤ 400	0.847	0.881	0.834	0.813	0.820	0.847
400 < IC ≤ 410	0.844	0.880	0.832	0.809	0.816	0.844
410 < IC ≤ 420	0.842	0.878	0.829	0.805	0.812	0.842
420 < IC ≤ 430	0.839	0.876	0.827	0.801	0.809	0.839
430 < IC ≤ 440	0.836	0.874	0.825	0.797	0.805	0.836
440 < IC ≤ 450	0.833	0.872	0.822	0.794	0.801	0.833
450 < IC ≤ 460	0.830	0.870	0.819	0.790	0.798	0.830
460 < IC ≤ 470	0.827	0.867	0.817	0.786	0.794	0.827
470 < IC ≤ 480	0.824	0.865	0.814	0.782	0.790	0.824
480 < IC ≤ 490	0.821	0.863	0.811	0.777	0.785	0.821
490 < IC ≤ 500	0.818	0.861	0.808	0.773	0.781	0.818

<sup>3</sup> 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- Other Storage.

<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>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 by Initial Capacity and duration of storage at full output**

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	0.249	0.420	0.543	0.630	0.690	0.731	0.759	0.779	0.796	0.813	0.835	0.859
10 < IC ≤ 20	0	0.241	0.412	0.535	0.621	0.681	0.722	0.749	0.769	0.787	0.805	0.827	0.851
20 < IC ≤ 30	0	0.232	0.403	0.527	0.613	0.672	0.712	0.740	0.760	0.778	0.796	0.819	0.843
30 < IC ≤ 40	0	0.224	0.395	0.519	0.604	0.663	0.703	0.731	0.751	0.769	0.788	0.811	0.835
40 < IC ≤ 50	0	0.219	0.390	0.514	0.599	0.657	0.698	0.726	0.746	0.765	0.785	0.807	0.830
50 < IC ≤ 60	0	0.218	0.388	0.513	0.597	0.655	0.697	0.725	0.747	0.766	0.786	0.807	0.828
60 < IC ≤ 70	0	0.215	0.385	0.508	0.592	0.651	0.694	0.723	0.745	0.764	0.785	0.806	0.826
70 < IC ≤ 80	0	0.210	0.379	0.501	0.586	0.645	0.688	0.718	0.740	0.761	0.782	0.803	0.822
80 < IC ≤ 90	0	0.205	0.372	0.494	0.578	0.638	0.682	0.712	0.735	0.757	0.778	0.798	0.817
90 < IC ≤ 100	0	0.200	0.364	0.485	0.570	0.630	0.674	0.704	0.728	0.750	0.772	0.792	0.811
100 < IC ≤ 110	0	0.196	0.358	0.478	0.563	0.623	0.667	0.698	0.722	0.745	0.766	0.787	0.805
110 < IC ≤ 120	0	0.193	0.353	0.472	0.557	0.617	0.661	0.693	0.718	0.740	0.762	0.782	0.801
120 < IC ≤ 130	0	0.191	0.349	0.466	0.551	0.611	0.656	0.687	0.713	0.736	0.758	0.778	0.797
130 < IC ≤ 140	0	0.188	0.344	0.461	0.545	0.606	0.650	0.682	0.708	0.731	0.753	0.774	0.793
140 < IC ≤ 150	0	0.186	0.339	0.455	0.540	0.600	0.644	0.677	0.703	0.727	0.749	0.770	0.789
150 < IC ≤ 160	0	0.183	0.335	0.449	0.534	0.594	0.639	0.671	0.699	0.722	0.745	0.765	0.785
160 < IC ≤ 170	0	0.180	0.330	0.444	0.528	0.588	0.633	0.666	0.694	0.718	0.740	0.761	0.781
170 < IC ≤ 180	0	0.178	0.325	0.438	0.523	0.583	0.628	0.661	0.689	0.713	0.736	0.757	0.777
180 < IC ≤ 190	0	0.175	0.321	0.432	0.517	0.577	0.622	0.656	0.684	0.709	0.732	0.753	0.773
190 < IC ≤ 200	0	0.173	0.316	0.427	0.511	0.571	0.616	0.650	0.680	0.704	0.727	0.748	0.769

**Table 3 –De-Rating Curves for Other Storage units by Initial Capacity and duration of storage / demand response at full output**

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	0.251	0.429	0.556	0.646	0.708	0.751	0.780	0.801	0.819	0.838	0.862	0.888
10 < IC ≤ 20	0	0.244	0.422	0.550	0.640	0.701	0.744	0.773	0.794	0.812	0.832	0.856	0.881
20 < IC ≤ 30	0	0.237	0.415	0.544	0.633	0.695	0.737	0.766	0.787	0.806	0.826	0.849	0.875
30 < IC ≤ 40	0	0.231	0.409	0.538	0.627	0.688	0.730	0.759	0.781	0.799	0.819	0.843	0.868
40 < IC ≤ 50	0	0.228	0.406	0.536	0.624	0.685	0.728	0.757	0.779	0.798	0.818	0.842	0.866
50 < IC ≤ 60	0	0.229	0.407	0.537	0.625	0.686	0.730	0.760	0.782	0.802	0.823	0.846	0.868
60 < IC ≤ 70	0	0.228	0.405	0.535	0.623	0.684	0.729	0.759	0.782	0.803	0.825	0.846	0.867
70 < IC ≤ 80	0	0.224	0.400	0.528	0.617	0.679	0.724	0.755	0.779	0.801	0.823	0.844	0.864
80 < IC ≤ 90	0	0.219	0.394	0.521	0.610	0.673	0.718	0.750	0.774	0.797	0.819	0.841	0.861
90 < IC ≤ 100	0	0.215	0.387	0.513	0.602	0.665	0.711	0.744	0.769	0.792	0.815	0.836	0.856
100 < IC ≤ 110	0	0.211	0.381	0.506	0.595	0.659	0.705	0.738	0.763	0.787	0.809	0.830	0.850
110 < IC ≤ 120	0	0.208	0.376	0.500	0.589	0.652	0.699	0.731	0.757	0.781	0.803	0.824	0.844
120 < IC ≤ 130	0	0.206	0.371	0.494	0.583	0.646	0.692	0.725	0.751	0.775	0.797	0.818	0.838
130 < IC ≤ 140	0	0.203	0.367	0.488	0.577	0.640	0.686	0.719	0.745	0.768	0.791	0.812	0.831
140 < IC ≤ 150	0	0.200	0.362	0.483	0.570	0.633	0.679	0.712	0.739	0.762	0.785	0.805	0.825
150 < IC ≤ 160	0	0.197	0.357	0.477	0.564	0.627	0.673	0.706	0.733	0.756	0.779	0.799	0.819
160 < IC ≤ 170	0	0.195	0.352	0.471	0.558	0.620	0.667	0.699	0.727	0.750	0.773	0.793	0.812
170 < IC ≤ 180	0	0.192	0.347	0.465	0.552	0.614	0.660	0.693	0.721	0.744	0.767	0.787	0.806
180 < IC ≤ 190	0	0.189	0.342	0.459	0.545	0.608	0.654	0.687	0.715	0.738	0.760	0.780	0.800
190 < IC ≤ 200	0	0.187	0.338	0.453	0.539	0.601	0.648	0.680	0.709	0.732	0.754	0.774	0.794

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

**Table 4 –De-rating Factors for Wind and Solar**

Wind	Solar
0.103	0.055

## 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 5 –Capacity Requirement below:

**Table 5 –Capacity Requirement**

Capacity Requirement (MW)
7,030 MW

## 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 6 below:

**Table 6 – Indicative Demand Curve to be used in the Capacity Auction**

De-Rated Capacity (MW)	Demand Curve Point (£/MW per year)
0	123,190
7,030	123,190
7,030	82,130
8,084.5	0

Note: This Demand Curve is indicative. 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-17-040](#)), 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 7 and Table 8 below:

**Table 7 – Level 1 Locational Capacity Constraints**

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	Value to be provided in Final Auction Information Pack
1	L1-2: Ireland	L2-1: Greater Dublin	All nodes within Ireland	Value to be provided in Final Auction Information Pack

Table 8 – Level 2 Locational Capacity Constraints

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"> <li>1. Adamstown 110 kV station [ADM]</li> <li>2. Artane 110kV station [ART]</li> <li>3. Baltrasna 110kV station [BAL]</li> <li>4. Barnakyle 110kV station [BKY]</li> <li>5. Belcamp 220/110 kV station [BLC]</li> <li>6. Belgard Road 110 kV station [BGD]</li> <li>7. Blackrock 110kV station [BLA]</li> <li>8. Cabra 110kV station [CAB]</li> <li>9. City West 110kV station [CTW]</li> <li>10. Cloghran 110kV station [CLG]</li> <li>11. Clonee 220kV station [CLN]</li> <li>12. College Park 110kV station [COL]</li> <li>13. Cookstown 110/38kV station [COO]<sup>6</sup></li> <li>14. Corduff 220/110kV station [CDU]</li> <li>15. Corkagh 110kV station [CKG]</li> <li>16. Cromcastle 110kV station [CRM]</li> <li>17. Dardistown 110kV station [DTN]</li> <li>18. Finglas 220/110kV station [FIN]</li> <li>19. Fortunestown 110kV station [FTT]</li> <li>20. Francis Street 110kV station [FRA]</li> <li>21. Glasmore 110kV station [GLA]</li> <li>22. Grange 110kV station [GRA]</li> <li>23. Grange Castle 110kV station [GCA]</li> <li>24. Harolds Cross 110kV station [HAR]</li> <li>25. Heuston Square 110kV station [HEU]</li> <li>26. Huntstown 220kV station [HUN]</li> <li>27. Inchicore 220/110kV station [INC]</li> <li>28. Irish Town 220kV station [ISH]</li> <li>29. Kildonan 110 kV station [KLD]</li> <li>30. Kilmahud 110kV station [KUD]</li> <li>31. Kilmore 110kV station [KLM]</li> <li>32. Macetown 110kV station [MCE]</li> <li>33. McDermott 110kV station [MCD]</li> <li>34. Milltown 110kV station [MIL]</li> <li>35. Misery Hill 110kV station [MHL]</li> <li>36. Nangor 110kV station [NAN]</li> <li>37. Newbury 110kV station [NBY]</li> <li>38. North Quays 110kV station [NQS]</li> <li>39. North Wall 220kV station [NW]</li> <li>40. Pelletstown 110kV station [PTN]</li> <li>41. Poolbeg 220/110kV stations [PB]</li> <li>42. Poppintree 110kV station [POP]</li> <li>43. Ringsend 110kV station [RE]</li> <li>44. Ryebrook 110kV station [RYB]</li> <li>45. Stevenstown 110kV station [SVN]</li> <li>46. Shellybanks 220kV station [SHL]</li> <li>47. Trinity 110kV station [TRN]</li> <li>48. West Dublin 220/110kV station [WDU]</li> <li>49. Whitebank 110kV station [WBK]</li> <li>50. Wolfe Tone 110kV station [WOL]</li> </ol>	Value to be provided in Final Auction Information Pack

<sup>6</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 9 below:

Table 9 – Awarded Capacity

Awarded Capacity (MW)
0

## 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-18-030](#)), the approved Auction Price Caps are set out in Table 10 below:

Table 10 – Auction Price Caps

Auction Price Cap (€/MW per year)	Auction Price Cap (£/MW per year)
123,190	110,710.85

## 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-18-030](#)), the approved Existing Capacity Price Caps are set out in Table 11 below:

Table 11 – Existing Capacity Price Cap

Existing Capacity Price Cap (€/MW per year)	Existing Capacity Price Cap (£/MW per year)
41,060	36,900.62

**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-18-030](#)), the approved Existing Capacity Price Caps are set out in Table 12 below:

Table 12 – New Capacity Investment Rate Threshold

New Capacity Investment Rate Threshold (€/MW)	New Capacity Investment Rate Threshold (£/MW)
300,000	269,610

**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-18-030](#)), the approved Annual Stop-Loss Limit Factor is set out in Table 13 below:

Table 13 – Annual Stop-Loss Limit Factor

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-18-030](#)), the approved Billing Period Stop-Loss Limit Factor is set out in Table 14 below:

Table 14 – Billing Period Stop-Loss Limit Factor

Billing Period Stop-Loss Limit Factor
0.50

**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 Exchange Rates are set out in Table 15 below:

**Table 15 – Annual Capacity Exchange Rates**

Annual Capacity Payment Exchange Rate (£/€)	Annual Capacity Payment Exchange Rate (€/£)
0.8987	1.1127

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 for calculating the existing SEM Annual Capacity Exchange Rate.

**2.12 Increase and Decrease Tolerance**

**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 16 below:

**Table 16 – Increase and Decrease Tolerances per Technology Class**

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

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).

**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-18-030](#)), the approved final Performance Security Posting Dates/ Events and final performance security rates are set out in Table 17 below:

**Table 17 – Performance Security Dates and Rates**

<b>Date / Event</b>	<b>Performance Security Rate (€/MW)</b>
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**

**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-18-030](#)), the approved final Termination Charge rates are set out in Table 18 below:

**Table 18 – Termination Charge Rates**

<b>Date / Event</b>	<b>Termination Charge Rate (€/MW)</b>
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 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-18-030](#)), the approved anticipated values of the Full Administered Scarcity Price and the Reserve Scarcity Price Curve are set out in Table 19 below:

Table 19 – Anticipated Administered Scarcity Price Curve

Short Term Reserve (MW)	Administered Scarcity Price (€/MWh)
Demand Control	3000
0	3000
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 20 below:

Table 20 – Anticipated Strike Price calculation components

Strike Price Component	Value	Unit
PCARBON <sub>m</sub>	PCARBON <sub>m</sub> Index	€/tCO <sub>2</sub> e
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
PCARBON <sub>m</sub> Index	ICE ECX EUA Futures – EUA - (monthly) <sup>7</sup>	€/tCO <sub>2</sub> e
PFUELNG <sub>m</sub> Index	ICE UK Natural Gas Index (monthly)	p/therm
PFUELNG <sub>m</sub> Transport	0.0424 <sup>8</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>9</sup>	€/t

<sup>7</sup> The December price for a given year will apply to all months falling within that year.

<sup>8</sup> NI natural gas transport adder used in I-SEM PLEXOS Forecast Model 2016-17.

<sup>9</sup> Based on ROI LSFO transport adder used in I-SEM PLEXOS Forecast Model 2016-17.

FTHEORYPU <sub>y</sub>	15	%
FCARBONING <sub>y</sub>	0.202	tCO <sub>2</sub> e/MWh
FCARBONINO <sub>y</sub>	0.277	tCO <sub>2</sub> e/MWh
PTHEORYDSU <sub>y</sub>	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>10</sup>	therm/GJ
LSFO calorific value	0.025 <sup>11</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 21 below:

**Table 21 – Capacity Auction Timetable**

	Event	Date
1	Initial Auction Information Pack Date: the last publication date for the Initial Auction Information Pack	1 <sup>st</sup> Jun 2018
2	Exception Application Date: the last time a Participant can make an Exception Application to the Regulatory Authorities	28 <sup>th</sup> Jun 2018
3	Opt-out Notification Date: the last date a Participant can submit an Opt-out Notification	14 <sup>th</sup> Jun 2018
4	Qualification Application Date: the last date a Participant can submit an Application for Qualification in respect of the Capacity Auction	28 <sup>th</sup> Jun 2018
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	6 <sup>th</sup> Sept 2018
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	12:00PM 19 <sup>th</sup> Oct 2018
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	1 <sup>st</sup> Nov 2018

<sup>10</sup> I-SEM PLEXOS Forecast Model 2017-17

<sup>11</sup> I-SEM PLEXOS Forecast Model 2016-17



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	1 <sup>st</sup> Nov 2018
9	Date for finalising the Locational Capacity Constraint Limits for the Capacity Auction	30 <sup>th</sup> Nov 2018
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	30 <sup>th</sup> Nov 2018
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	10AM on 6 <sup>th</sup> Dec 2018
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	10AM on 13 <sup>th</sup> Dec 2018
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	12PM on 13 <sup>th</sup> Dec 2018
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)	18 <sup>th</sup> Dec 2018
15	Capacity Auction Provisional Results Date: the date by which the System Operators are expected to provide provisional Capacity Auction results to Participants	18 <sup>th</sup> Dec 2018
16	Capacity Auction Approval Date: the date by which the Regulatory Authorities are expected to approve the Capacity Auction results	1 <sup>st</sup> Feb 2019
17	Capacity Auction Results Date: the date the System Operators are expected to publish the Capacity Auction results	1 <sup>st</sup> Feb 2019
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	4 <sup>th</sup> Feb 2019

## 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 Decision and Qualification Disputes is set out in Table 212 below:

**Table 22 – Timeframe for Reviewable Decisions and Qualification Disputes**

	Event	Date
1	Timeframe within which Applications for Review must be lodged	10 <sup>th</sup> Sept 2018
2	Timeframe within which System Operators may reject a noncomplying Application for Review	12 <sup>th</sup> Sept 2018
3	Timeframe within which Participant must comply with a request for further information	19 <sup>th</sup> Sept 2018
4	Timeframe within which System Operators must notify Participant of outcome of their reconsideration	26 <sup>th</sup> Sept 2018

5	Latest date for giving a Dispute Notice in relation to a Qualification Dispute	1 <sup>st</sup> Oct 2018
6	Latest date by which the CMDRB shall give its decision in relation to a Qualification Dispute	17 <sup>th</sup> Oct 2018

**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.**

There shall not be any fixed reporting dates between the 2019/2020 T-1 Capacity Auction and the 2019/2020 Capacity Year. The obligation on the Participant with Awarded Capacity remains to report upon achieving the following Milestones (where applicable):

- (i) Substantial Financial Completion;
- (ii) Commencement of Construction Works; and
- (iii) Substantial Completion.

### 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 by 30<sup>th</sup> November 2018. The below table provides a breakdown of Capacity Market Code items which are deemed to be Final/Indicative and Anticipated.

**Table 223 – Capacity Market Code Items Change Table**

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