

Single Electricity Market (SEM)

Capacity Remuneration Mechanism T-4 2029/2030 Capacity Auction Parameters

Consultation Paper SEM-25-021

02 June 2025

1. EXECUTIVE SUMMARY

Under the revised SEM arrangements, implemented in October 2018, capacity revenues are allocated by capacity auction for a relevant capacity year. Prior to each capacity auction, a number of capacity auction parameters must be set. The list of parameters to be determined by the Regulatory Authorities (RAs, the Utility Regulator in Northern Ireland (UR) and the Commission for Regulation of Utilities (CRU) in Ireland) is described in paragraph D.3.1.3 of the Capacity Market Code (CMC).

This consultation paper describes the SEM Committee's proposals for the relevant parameters to apply in the 2029/2030 T-4 Capacity Auction, scheduled to take place on 26 March 2026.

	Parameter	Proposed Value for 2029/2030 T-4 capacity auction
а	De-Rating Curves, defining De-Rating Factors by unit Initial Capacity and by Technology Class (including Interconnectors)	To be determined by System Operators (SOs) prior to publication of Initial Auction Information Pack.
b	Capacity Requirement	To be determined by SOs prior to publication of Initial Auction Information Pack.
С	Indicative Demand Curve	 The Demand Curve for the 2029/2030 T-4 auction will be set as the following: Horizontal at the Auction Price Cap from 0 MW to XX% (depending on the APC) of the adjusted Capacity Requirement. Slopes down in a straight line to 115% of the adjusted Capacity Requirement. The line passes through the point at where the volume is equal 100% of the adjusted Capacity Requirement and the price equals Net CONE

The proposed parameters for consultation are:

	Parameter	Proposed Value	for 2	2029/2030 T-4 capa	city auction
d	Auction Price Cap (APC)	€170,375/MWd	1.5 CO	times 2% inflated - NE	T-4 2028/29 Net
		€200,188/MWd	Me	an of options 1 and	3
		€230,000/MWd	No	change from T-4 20	28/29 APC
е	Existing Capacity Price Cap (ECPC)	Propose a 2% in Auction: €55,678	icrea 3 x 1	se on the T-4 2028/ .02 = €56,792 / de-r	2029 Capacity rated MW / year.
f	New Capacity Investment Rate Threshold (NCIRT)	€300,000 /de-rate	ed M	W / year.	
g	Annual Stop Loss Limit Factor	1.5			
h	Billing Period Stop Loss Factor	0.5			
i	Indicative Annual Capacity Exchange Rate	To be determined by SOs prior to publication of Initial Auction Information Pack.			
j	Increase Tolerance and Decrease	Technology ClassIncreaseTolerance (%)		Decrease Tolerance (%)	
	Tolerance by	All Except DSU	S	0	0
		DSUs		0	100
k	Porformanco	Dato/ Evont		Porformanco Soc	urity $Pato (E/MM)$
	Security Posting Dates / Events	From Capacity Auction completion to 24 months prior to the beginning of the 20,000 Capacity Year		20,000	
		24-18 months prior to the beginning of the Capacity Year		30,000	

	Parameter	Proposed Value for 2029/2030 T-4 capacity auction		
		18-13 months prior to the beginning of the Capacity Year From 13 months to beginning of Capacity Year		40,000
				50,000
		From beginning of	f Capacity Year	60,000
I	Termination Charges	Date/ Event	Termination Cha	arge Rate (€/MW)
		From Capacity Auction completion to 24 months prior to the beginning of the Capacity Year 24-18 months prior to the beginning of the Capacity Year 18-13 months prior to the beginning of the Capacity Year From 13 months to beginning of Capacity Year From beginning of Capacity Year		20,000
				30,000
				40,000
				50,000
				60,000
m	Full Administered Scarcity Price and	Short TermAdministeredReserve (MW)(€/M		Scarcity Price Wh)
	Reserve Scarcity	Demand Control	25% of V	OLL Max
		0	25% of V	OLL Max
		LSI	RO Stril	ke Price
n	Anticipated values to be applied in determining the Strike Price	Current inputs to be re	e-applied.	
0	Capacity Aggregation Threshold	10 MW		

	Parameter	Proposed Value for 2029/2030 T-4 capacity auction
р	Early Incentive Start Date for New Capacity	Trading Day 30 September 2028 beginning 23:00
-	Intermediate Contract Investment Rate Threshold	€100,000 /de-rated MW / year.

Responses to the proposals within this consultation should be sent to both RA mailboxes CRMSubmissions@uregni.gov.uk and CRMsubmissions@cru.ie by **17:00 Friday 20 June 2025**. We intend to publish all responses unless they have been marked as confidential.

2. CONTENTS

1.	EXECUTIVE SUMMARY	2
2.	CONTENTS	6
3.	INTRODUCTION AND BACKGROUND	7
4.	PARAMETERS REQUIRED BY THE CAPACITY MARKET CODE	9
5.	TREATMENT OF CONSTRAINTS	.22
6.	NEXT STEPS	.23

3. INTRODUCTION AND BACKGROUND

The SEM Capacity Remuneration Mechanism (CRM) was developed through an extensive series of consultation and decision papers. The CRM allocates capacity payments through ex-ante capacity auctions.

A T-4 Capacity Auction for the 2029/2030 Capacity Year is scheduled to take place on 26 March 2026. The volumes to be procured in this auction will be determined by the SEM Committee following due process prior to the publication of the Final Auction Information Pack.

Before each Capacity Auction, the CMC requires a number of auction parameters to be determined by the RAs.

Parameters to be determined

Paragraph D.3.1.3 of the CMC requires the RAs to determine the following parameters for each Capacity Auction, and provide them to the SOs for inclusion in the applicable Initial Auction Information Pack:

- (a) the De-Rating Curves, defining De-Rating Factors by Technology Class (including for Interconnectors).
- (b) the Capacity Requirement.
- (c) an indicative Demand Curve.
- (d) the Auction Price Cap.
- (e) the Existing Capacity Price Cap.
- (f) the €/MW rate of the New Capacity Investment Rate Threshold.
- (g) the Annual Stop-Loss Limit Factor.
- (h) the Billing Period Stop-Loss Limit Factor.
- (i) the indicative Annual Capacity Payment Exchange Rate.
- (j) the Increase Tolerance and Decrease Tolerance by Tolerance Class that may be applied by a Participant in its Application for Qualification to Capacity Market Unit de-ratings.
- (k) in respect of Performance Securities:

- (i) the final Performance Security Posting Dates/ Events applicable to Awarded 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 Capacity allocated in the Capacity Auction.
- (I) the €/MW fee rates for calculating Termination Charges.
- (m) values for the Full Administered Scarcity Price and the Reserve Scarcity Price;
- (n) anticipated values for the parameters to be applied in determining the Strike Price;
- (o) Final Capacity Aggregation Threshold
- (*p*) Early Delivery Incentive Date for New Capacity excluding New Capacity that is repowered or refurbished capacity based on previous Existing Capacity, with a Maximum Capacity Duration of more than one year.

4. PARAMETERS REQUIRED BY THE CAPACITY MARKET CODE

As described, the RAs must determine the following parameters:

(a) the De-Rating Curves, defining De-Rating Factors by Technology Class (including for Interconnectors).

A De-Rating Curve is a curve for a Technology Class that represents the De-Rating Factor applicable by unit Initial Capacity and Initial Maximum On Time to be used in a Capacity Auction. A De-Rating Factor describes the proportion of Initial Capacity of a Generator Unit or Interconnector that can contribute towards satisfying the Capacity Requirement to be used in a Capacity Auction.

Proposal: This is to be determined by the SOs prior to the publication of the Initial Auction Information Pack (IAIP).

(b) the Capacity Requirement.

The Capacity Requirement is the de-rated capacity required to satisfy the SEM Security Standard for a specific Capacity Year to be used in a Capacity Auction.

Proposal: This is to be determined by the SOs prior to the publication of the IAIP.

(c) an indicative Demand Curve.

The Demand Curve is a curve determined by the RAs representing the deemed per MW value of each level of capacity that could be awarded in the Capacity Auction.

Proposal: The Demand Curve for the T-4 2029/2030 auction will be set as the following:

- Horizontal at the Auction Price Cap from 0 MW to xx% (depending on the APC) of the adjusted Capacity Requirement.
- Slopes down in a straight line to 115% of the adjusted Capacity Requirement. The line passes through the point at where the volume is equal 100% of the adjusted Capacity Requirement and the price equals Net CONE.



The above curve has the potential to under-procure compared to the adjusted Capacity Requirement, however, any under-procurement in a T-4 auction can be resolved in a subsequent T-1 auction.

The demand curve for the auction will also include adjustments for reserves and demand withholding. Decisions on these volumes will be made prior to the publication of the Final Auction Information Pack (FAIP).

The Capacity Requirement described above will be adjusted to account for these volumes. In accordance with paragraph F.3.1.4 of the CMC, other adjustments to the Capacity Requirement will include:

- an allowance for changes in forecast capacity requirements (as considered appropriate by the RAs).
- an allowance for capacity to be procured in later auctions for the Capacity Year (as considered appropriate by the RAs); and
- an allowance for the de-rated value of capacity that is forecast to be operational during the Capacity Year, but which will not be participating in the Capacity Auction (as considered appropriate by the RAs).

(d) the Auction Price Cap.

The Auction Price Cap (APC) is the maximum bid price allowed in a Capacity Auction.

Option 1 – using 1.5 to 2 times Net CONE was a proposal assessed and deemed appropriate during CRM Detailed Design as it encourages new investment and allows for a margin of certainty.

Option 2 – reflects a balanced consideration of Options 1 and 3.

Option 3 – the APC of €230,000/MWd in the T4 2028/29 Capacity Auction was implemented to ensure enough capacity was contracted to maintain security of supply for the 2028/29 capacity year.

The SEM Committee have provided three options to consider which are based on figures from the T-4 2028/29 Capacity Auction and described in the table below.

Proposal:

Option	Value of APC	Description
Option 1	€170,375/MWd	1.5 times 2% inflated - T-4 2028/29 Net CONE
Option 2	€200,188/MWd	Mean of options 1 and 3
Option 3	€230,000/MWd	No change from T-4 2028/29 APC

The SEM Committee reserve the right to re-visit this at the decision stage, and furthermore in future auctions.

(e) the Existing Capacity Price Cap.

The Existing Capacity Price Cap (ECPC) is the price cap applicable to Existing Capacity in a Capacity Auction. It is a uniform non-technology specific cap on the price that Existing Generators and interconnectors can offer volume at unless they apply to the RAs for a Unit Specific Price Cap (USPC)¹. New Capacity and DSUs are not subject to the ECPC and may bid up to the APC.

¹ Or submit an Opt-Out Notification on the grounds that they are going to close before the end of the relevant Capacity Year.

Proposal: The SEM Committee's proposal is a 2% increase to the 2028/2029 T-4 Capacity Auction which equates to ECPC - \leq 55,678 / de-rated MW / year x 1.02 = \leq 56,792 / de-rated MW / year), and the Sterling equivalent using the indicative Annual Capacity Payment Exchange Rate from the IAIP. The SEM Committee continues to see ECPC as an important market power mitigation tool.

Any existing capacity with NGFCs higher than the ECPC will retain the option to submit a USPC application to the RAs.

(f) the €/MW rate of the New Capacity Investment Rate Threshold.

The New Capacity Investment Rate Threshold (NCIRT) is an amount determined by the RAs that must be exceeded by the cost per MW of constructing New Capacity for that capacity to be eligible to be allocated Awarded Capacity with a duration of more than one year.

New Capacity is eligible to bid to fix its Reliability Option (RO) for up to ten years. To do so, a capacity provider must meet a substantial financial commitment threshold. This threshold is known as the NCIRT.

The intention of setting the NCIRT is to ensure that only plant making a substantial financial commitment equivalent to the commitment for a new build plant can obtain a multi-year RO.

Multi-year ROs should not be available to plant making a minor refurbishment. However, the threshold should not penalise investors who are able to build efficiently at low capital cost.

As described in the initial CRM parameters decision paper², NCIRT for the first transitional auction was set at approximately 40% of the gross Best New Entrant (BNE) cost, or €300,000 / de-rated MW.

Proposal: The SEM Committee proposes to retain the value of NCIRT at €300,000/derated MW for the 2029/30 T-4 Auction.

² <u>SEM-17-022</u>, paragraph 7.2.18

(g) the Annual Stop-Loss Limit Factor

The Annual Stop Loss Limit is the multiplier used to establish the annual stop-loss limit for Non-Performing Difference Charges from a Capacity Market Unit (CMU).

A stop-loss is a cap on Reliability Option Difference Payments (RODPs). RO Difference Payments are charges that must be paid by a generator during a scarcity event. The purpose of the cap is to limit risk on the generator and improve investability. However, a cap on RODPs means that there will be insufficient money to hedge suppliers, which must be funded through the socialisation fund.

The stop-loss limit applies only to uncovered difference payments. It does not apply where the capacity provider has received revenue through the energy market to cover the difference payment. The stop-loss limit applies to the annual option fee. To date in the capacity market, the Annual Stop-Loss Limit Factor has been set at 1.5.

Proposal: The SEM Committee propose to continue to apply an Annual Stop-Loss Limit Factor of 1.5 to Awarded Capacity allocated in the 2029/2030 T-4 auction.

(h) the Billing Period Stop-Loss Limit Factor.

The Billing Period Stop Loss Limit Factor is a multiplier used to establish the billing period stop-loss limit for Non-Performance Difference Charges from a Capacity Market Unit.

The purpose of stop-loss limits is described above. The purpose of the Billing Period Stop Limit Factor is to limit the level of losses in any Billing Period (week).

If there were no Billing Period Stop Loss Limit Factor, and there were a number of scarcity events at the start of the Capacity Year so that a capacity provider reached its Annual Stop Loss Limit, that capacity provider would have a reduced incentive to maximise its availability for the remainder of the capacity year.

By limiting the losses that can apply in any Billing Period, the incentive to remain available for the remainder of the Capacity Year is maximised. The Billing Period Stop Loss Limit Factor is currently 0.5³.

³ Note: in the parameters decision paper for the first capacity auction (<u>SEM-17-022</u>), the SEM Committee decided that the Billing Period Stop-Loss Limit should be 50% of the Annual Stop-Loss Limit. Because the Annual Stop-Loss Limit Factor was set to 1.5, the Billing Period Stop-Loss Limit Factor was set to 0.75. However, because of the way the Annual and Billing Period Stop Loss Limit Factors interact within paragraph F.18.3.2 and F.18.3.4 of

Proposal: The SEM Committee proposes to retain this value for Awarded Capacity allocated in the 2029/2030 T-4 capacity auction.

(i) the indicative Annual Capacity Payment Exchange Rate.

The Annual Capacity Payment Exchange Rate is an exchange rate applicable to a Capacity Year which converts the Capacity Payment Price for a Primary Trade or a Secondary Trade from Euros to Sterling. This is determined by the SOs using a methodology approved by the RAs.

<u>Proposal</u>: Only the indicative exchange rate is calculated for the IAIP. This will be calculated immediately prior to its publication. The exchange rate will then be updated for inclusion in the Final Auction Information Pack (FAIP).

(j) the Increase Tolerance and Decrease Tolerance by Tolerance Class that may be applied by a Participant in its Application for Qualification to Capacity Market Unit de-ratings.

The Increase Tolerance (INCTOL) is a percentage upwards tolerance that a Participant is permitted to apply to Capacity Market Unit de-ratings in an Application for Qualification. There may be different Increase Tolerances for different Technology Classes.

A Decrease Tolerance (DECTOL) is a percentage downwards tolerance that a Participant is permitted to apply to Capacity market Unit de-ratings in an Application for Qualification. There may be different DECTOLs for different Technology Classes.

CRM Decision⁴ SEM-15-103 allowed for the possibility of tolerance bands to be applied to the unit-level De-Rating Factors determined for capacity providers. These tolerance bands would allow some flexibility in the level of participation required from dispatchable plant in the auction. This allowance was made in relation to mandatory participation, although all generators would still be required to participate. It would reflect the fact that not all generators of the same technology class have the same degree of reliability.

In the CRM Capacity Requirement and De-Rating Factor Methodology Decision paper⁵, the SEM Committee decided that, with the exception of DSUs, the tolerance bands will be

the Trading and Settlement Code, in order to achieve a relation of 50%, a Billing Period Stop-Loss Limit Factor of 0.5 is required.

⁴ <u>SEM-15-103</u>

⁵ <u>SEM-16-082</u>, paragraph 4.5.1

set to zero for the transitional auctions, with the decision to be reviewed for the enduring auctions once the enduring value of Full Administered Scarcity Price has been determined.

Technology Class	Increase Tolerance (%)	Decrease Tolerance (%)
All Except DSUs	0	0
DSUs	0	100

Proposal: The SEM Committee is proposing to retain this decision for the 2029/2030 T-4 auction.

(k) in respect of Performance Securities:

- (*i*) the final Performance Security Posting Dates/ Events applicable to Awarded 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 Capacity allocated in the Capacity Auction.

A Performance Security is a security required as a condition of capacity award for Awarded New Capacity that has not reached Substantial Completion.

A Performance Security Posting Date/ Event is a date or event from which a specified €/MW rate shall be applied to Awarded Capacity in setting Performance Securities. There may be multiple different Performance Security Posting Dates/ Events.

The Performance Security Posting Dates / Events applicable to Awarded Capacity allocated in a Capacity Auction are determined by the RAs and provided to the SOs.

Interested parties are asked to comment in their response, on the amounts the SEM Committee have set with regards to the Performance Security Rate and the Termination Charges (of course the Bond amount should be a one for one to the Termination amount) but also on the milestones, participants are asked to give the SEM Committee their view as to whether the number of milestones is suitable and / or whether a greater timeframe is required.

Proposal: The SEM Committee proposes to insert an additional stage of Performance Security with changes to date/ event time frames as well as an increase in monetary rates from Stage 2 onwards.

The Ernst & Young (EY) CRM Report from 2022 assessed whether incentives for delivery were too low to ensure new capacity procured reached completion and concluded an increase in performance securities would be a potential solution. This proposal will encourage the reduction of new capacity terminations and safeguard security of supply.

Stages	Date / Event	Performance Security Rate (€/MW)
1	From Capacity Auction completion to 24 months prior to the beginning of the Capacity Year	20,000
2	24-18 months prior to the beginning of the Capacity Year	30,000
3	18-13 months prior to the beginning of the Capacity Year	40,000
4	From 13 months to beginning of Capacity Year	50,000
5	From beginning of Capacity Year	60,000

As noted in decision paper SEM-24-035, Existing Capacity winning an ILC will not be subject to termination payments or performance security, but New Capacity winning an ILC will be subject to termination payments or performance security.

(I) the €/MW fee rates for calculating Termination Charges

A Termination Charge is a fee payable by a Participant where Awarded New Capacity is terminated.

The CRM detailed design decision paper⁶ noted it is important that New Capacity is required to pay a Termination Fee if it fails to deliver capacity. The Termination Fee will be payable if the project:

- fails to deliver the Substantial Financial Completion milestones by the given date; or
- fails to achieve Substantial Completion by the Long Stop Date; or
- submits false or misleading information in the Qualification process.

⁶ <u>SEM-16-022</u>

For all capacity auctions to date, the Termination Charges have been set in accordance with the following table:

Stages	Date / Event	Termination Charge Rate (€/MW)
1	From Capacity Auction completion to 24 months prior to the beginning of the Capacity Year	20,000
2	24-18 months prior to the beginning of the Capacity Year	30,000
3	18-13 months prior to the beginning of the Capacity Year	40,000
4	From 13 months to beginning of Capacity Year	50,000
5	From beginning of Capacity Year	60,000

As noted in decision paper SEM-24-035, Existing Capacity winning an ILC will not be subject to termination payments or performance security, but New Capacity winning an ILC will be subject to termination payments or performance security.

Proposal: The SEM Committee proposes to insert an additional stage of Termination Charges with changes to date/ event time frames as well as an increase in monetary rates from Stage 2 onwards.

The Ernst & Young (EY) CRM Report from 2022 assessed whether incentives for delivery were too low to ensure new capacity procured reached completion and concluded an increase in performance securities would be a potential solution. This proposal will encourage the reduction of new capacity terminations and safeguard security of supply.

(*m*) values for the Full Administered Scarcity Price and the Reserve Scarcity Price;

The Administered Scarcity Price (ASP) sets a floor on the Balancing Market price when a scarcity event occurs. The Full Administered Scarcity Price is the maximum value of the ASP. The Reserve Scarcity Price Curve is a piece-wise linear curve defining the relationship between the Reserve Scarcity price and the Short-Term Reserve Quantity.

For the first two transitional auctions, full ASP was set at the day ahead market price cap of €3,000/MWh. For the 2022/23 T-4 auction (held in March 2019), Full ASP was set at 25% of the Value of Lost Load (VOLL Max). It has been set at this value for all auctions since.

In the second CRM detailed design decision paper⁷, the SEM Committee decided that the piece-wise linear function of ASP will be static, and the price from which the function begins will be the Reliability Option Strike Price. Existing policy indicates the operating reserve requirement should be a dynamic value based on the largest single in-feed. In line with the existing policy set out in the Detailed Design Decision Paper 2, the Short-Term Reserve figure and the starting point on the ASP price wise linear curve is driven in practice by the size of the largest single in-feed, which varies dynamically. The operating reserve requirement is set to this standard and may be up to 700MW in consideration of the presence of the Celtic interconnector in the 2029/30 Capacity Year.

However, the Reliability Option Strike Price is not strictly static. As described below, it is set in relation to weekly carbon, gas, and oil prices, but has a floor price equal to the theoretical price of a Demand Side Unit (which in recent years has been set at €500/MWh).

Proposal: The SEM Committee propose to set the price at which the piece-wise linear function of ASP begins at the floor of the Strike Price, as determined below. The ASP will therefore be set in accordance with the following table:

Short Term Reserve (MW)	Administered Scarcity Price (€/MWh)
Demand Control	25% of VOLL Max
0	25% of VOLL Max
LSI	RO Strike Price

To clarify, ASP only applies when the available Short-Term Reserve is less than the operating reserve requirement. If the operating reserve requirement is only 450 MW and the available Short Term Reserve falls to 490 MW, the ASP function does not apply, and prices will be market determined.

At this stage, the SEM Committee proposes to retain setting the value of Full ASP in relation to VOLL. However, the SEM Committee requests respondents' views on whether

⁷ <u>SEM-16-022</u>, section 6.4

any changes could be made to the parameters of the ASP function to encourage availability at times when system margins are tight.

(n) anticipated values for the parameters to be applied in determining the Strike Price.

If the Market Reference Price exceeds the Strike Price, holders of Reliability Options must make Difference Payments.

<u>Proposal</u>: The formula for the calculation of the weekly Strike Price (PSTR_w) is contained in Section F.16.2 of the Trading and Settlement Code (Part B). The SEM Committee proposes to retain these parameter values for the T-4 2029/30 capacity year.

This formula bases the Strike Price on the cost of a hypothetical low efficiency peaking unit and includes a floor price on the strike price at the price of a theoretical demand side unit in \in /MWh; this reflects the cost incurred by the DSU is switching off, which may not be related to the cost of energy. The values of each of these parameters for each capacity auction to date were:

Strike Price	Value	Unit
Component		
PCARBON _m PCARBON _m Index		€/tCO ₂ e
PFUELNGm	[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
PFUELOm	[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) ⁸	€/tCO2e
PFUELNG _m Index	ICE UK Natural Gas Index (monthly)	p/therm
PFUELNG _m Transport	0.0424 ⁹	£/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 ¹⁰	€/t
FTHEORYPUy	15	%
FCARBONINGy	0.202	tCO2e/MWh
FCARBONINOy	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 ¹¹	therm/GJ
LSFO calorific value	0.025 ¹²	t/GJ

(o) Capacity Aggregation Threshold for the Capacity Auction

The final capacity aggregation threshold has been set at 10MW for the previous four Capacity Auctions.

Proposal: The SEM Committee propose to maintain the final capacity aggregation threshold at 10MW for the 2029/2030 T-4 capacity auction.

⁸ The December price for a given year will apply to all months falling within that year.

⁹ NI natural gas transport adder used in I-SEM PLEXOS Forecast Model 2024-33.

¹⁰ Based on ROI LSFO transport adder used in I-SEM PLEXOS Forecast Model 2024-33

¹¹ Universal constant, utilised in the I-SEM PLEXOS Forecast Model 2024-33

¹² Universal constant, utilised in the I-SEM PLEXOS Forecast Model 2024-33

(p) Early Delivery Incentive Start Date for New Capacity excluding New Capacity that is repowered or refurbished capacity based on previous Existing Capacity, with a Maximum Capacity Duration of more than one year.¹³

Proposal: The SEM Committee confirm The Early Delivery Incentive Start Date shall commence at the start of the Trading Day beginning at 23:00 on 30 September 2028.

(-) the €/MW rate of the Intermediate Contract Investment Rate Threshold

The Intermediate Contract Investment Rate Threshold (ICIRT) is an amount determined by the RAs that must be exceeded by the cost per MW of Existing and New Capacity seeking to make intermediate levels of investment for that capacity to be eligible to be allocated Awarded Capacity with a duration of more than one year.

New and Existing Capacity are eligible to bid to fix its Reliability Option for up to five years. To do so, a capacity provider must meet a substantial financial commitment threshold. This threshold is known as the ICIRT.

The intention of setting the ICIRT is to ensure that only plant making a significant investment commitment can obtain a multi-year Reliability Option of up to five years. As noted in SEM-24-035¹⁴, the ICIRT was not set at a level too high, because of the potential it would prevent genuinely beneficial investments in refurbishment taking place, nor at a level too low, which would produce frequent repeat applications for ILCs.

Proposal: The SEM Committee proposes to retain the value of ICIRT at €100,000/derated MW for the 2029/30 T-4 Auction.

¹³ <u>Capacity Market Code Workshop 37B Decision Paper</u>

¹⁴ <u>SEM-24-035</u>

5. TREATMENT OF CONSTRAINTS

For the purposes of a Capacity Auction, a number of Locational Capacity Constraints Areas (LCCA) can be determined by the SOs. A Locational Capacity Constraint Required Quantity is the minimum de-rated capacity quantity that is required to satisfy the Locational Capacity Constraint.

For the 2029/30 T-4, the SOs have recommended the addition of an additional LCCA in the Cork Harbour area due to their concerns that if additional capacity is procured in the Cork Harbour area, there may be significant portions of the Capacity Year where they cannot operate all of the Awarded Capacity as it would exceed the limits of the power system in this area. Therefore, the proposed LCCA would be an L2 constraint associated with a maximum constraint.

The RAs are seeking further information from the TSOs to justify the need for this proposed LCCA and to explain whether other solutions have been considered, including the use of Special Protection Schemes, which we understand are utilised elsewhere.

The proposed LCCA would relate to the following nodes:

• Aghada 220/110 kV [AD]	• Marina 110 kV [MR]
Barnahely 110 kV [BRY] Castleview 110 kV	• Midleton 110 kV [MID]
[CVW]	• Raffeen 220/110 kV [RAF]
• Cow's Cross 110 kV [COW]	• Ringaskiddy 110 kV [RSY]
• Glanagow 220 kV [GOO]	• Trabeg 110 kV [TBG]
Longpoint 220 kV [LPT]	• Whitegate 110 kV [WHI]

• Lysaghtstown 110 kV [LYT]*

The SEM Committee seeks respondents' views on the SOs' recommendation of a Cork Harbour LCCA.

The Capacity Auction is initially run on an unconstrained (i.e. location agnostic) basis. If following the initial solution, any of the Locational Capacity Constraints has not been

satisfied, additional capacity must be procured¹⁵. This capacity will be procured on a payas-bid basis.

When procuring this additional capacity, New Capacity with an offered capacity duration of more than one year should be excluded. However, if there is insufficient capacity within an LCCA to allow the constraint to be met without it, this new, multi-year, Capacity must be considered.

For the 2029/2030 T-4 capacity auction, the SEM Committee remains open to allowing the constrained element auction to solve using multi-year New Capacity. A decision on this will be made prior to the publication of the FAIP, after the SOs have provided the relevant information on LCCAs.

6. NEXT STEPS

Responses to the proposals within this consultation should be sent to both email addresses <u>CRMSubmissions@uregni.gov.uk</u> and <u>CRMsubmissions@cru.ie</u>, by **17:00** Friday 20 June 2025.

We intend to publish all responses unless they have been marked confidential.

¹⁵ Under Auction Format C and D, this constrained capacity can replace capacity that was used to satisfy the initial solution.