

SINGLE ELECTRICITY MARKET COMMITTEE

Round 22 of Quarterly Directed Contracts Q3 2023 to Q2 2024

Information Paper

14th March 2023

SEM-23-025

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1. Introduction

This paper provides information on the quantities and pricing for the upcoming quarterly Directed Contract (DC) subscription round, Round 22, covering the period Q3 2023 to Q2 2024 inclusive. Suppliers will also receive notification from the Regulatory Authorities (RAs) of their updated DC eligibilities for Round 22 by Thursday 16th March 2023.

In DC Round 18, market participants were notified of amendments made to the process of calculating DC pricing formulae (<u>SEM-22-017</u>). Participants were also informed of the RAs' decision to hold the Primary Subscription Window over six days.

A consultation on whether the amendment to the duration of the Primary Subscription Window should be enduring was subsequently published on 15th February 2023 (<u>SEM-23-015</u>). The SEM Committee are currently reviewing responses and will publish their decision in the near future. In the interim, the RAs have decided to maintain the six-day Primary Subscription Window in DC Round 22. For the avoidance of doubt, there is no obligation for any eligible supplier to avail of this option.

2. Directed Contract Quantities

DC subscription windows are typically held every quarter, with DCs allocated on a rolling basis up to five quarters ahead. DCs for Round 22 will be offered in quarterly segments for the periods Q3 2023, Q4 2023, Q1 2024 and Q2 2024.

Round 22 DC offerings will be held as follows:

- The DC Round 22 Primary Subscription Window will be held over six days, across two consecutive weeks:
 - Tuesday 21st Thursday 23rd March 2023 inclusive; and
 - Tuesday 28th Thursday 30th March 2023 inclusive.

The associated Round 22 Supplemental Subscription Window will be held on Thursday 6th April 2023.

There are three DC products in the market: Baseload, Mid-Merit and Peak. Suppliers can elect to subscribe for any given product for which they are eligible in any particular quarter from ESB. The definitions of the products are set out in the ESB PG DC

Subscription Rules. These are as follows:

- Baseload Product: For Trading Periods at the Contract Quantity arising in all hours.
- Mid-merit Product: For Trading Periods at the Contract Quantity during the hours beginning at 07:00 and ending at 23:00 on Business Days and for Trading Periods on days that are not Business Days at 80% of the Contract Quantity.
- Peak Product: For Trading Periods arising during the hours beginning at 17:00 and ending at 21:00 on all days during October, November, December, January, February and March at the Contract Quantity.

The RAs used the Herfindahl Hirschman Index (HHI) to set DC quantities and use a target HHI level of 1,150 for the period Q3 2023 to Q2 2024.

The DC quantities to be offered by ESB for Q3 2023 to Q2 2024 in Round 22 are set out in Table 1 below.

Quarter	Baseload	Mid-Merit	Peak
Q3 2023	0	32	n/a
Q4 2023	0	11	104
Q1 2024	0	74	89
Q2 2024	0	116	n/a

Table 1: ESB DCs for Q2 2023 to Q2 2024 in forthcoming Round 22Subscription (MW)

The cumulative (all rounds) percentage of DC quantities offered by ESB to date for Q2 2023 to Q1 2024 (including these Round 22 quantities) are also shown in Table 2 below.

Quarter	Baseload	Mid-Merit	Peak
Q3 2023	100%	100%	N/A
Q4 2023	75%	75%	N/A
Q1 2024	50%	50%	50%
Q2 2024	25%	25%	25%

Table 2: Percentage of DCs offered to date (incl. this Round 22 subscription)¹

¹ Note that the exact percentages shown in this table will vary depending on outturn DC volumes in future subscription rounds.

As outlined in <u>SEM-21-085</u>, the SEM Committee has decided that the amendment to the methodology of calculating DC allocations that took place during DC Round 16 will be implemented in subsequent rounds thereafter. As per <u>SEM-21-065</u>, the RAs will reallocate DCs from market participants who cannot participate in the DC round (as a result of not executing a Financial Energy Master Agreement (FEMA) with ESBPG) to suppliers with a Maximum Import Capacity (MIC) value less than 5% of the total market MIC.

Per section 3.2.13 of the November 2017 decision paper (<u>SEM-17-081</u>), the SEM Committee has changed part of the Market Concentration methodology, such that a fixed fraction will be solely used in the first round that a product is offered. In subsequent rounds, up to the penultimate round, previous volumes sold are deducted from the annual total determined by the Market Concentration Model in that round; then the balance is multiplied by the remaining fixed fraction. In the final round, all the previous volumes sold are deducted from the annual total determined. There is no fixed fraction in the final round for which a product is on offer. A further clarification to this procedure was outlined in <u>SEM-19-030a</u> whereby in the event that a product was oversold in the first three rounds, the oversold volume will be deducted from downstream products.

If the volumes in the previous rounds for a particular product add up to more than the annual total volume determined by the Market Concentration Model in the last round, then the volumes for that product are set to zero.

3. Directed Contract Pricing

The prices of DCs are determined by regression formulae that express the DC CfD Fixed Price in a given quarter and for a given product (Baseload, Mid-merit or Peak) as a function of forward fuel and carbon prices. Section 3 of SEM-22-017 outlined amendments made to the process of calculating DC pricing formulae in DC Round 18. Such amendments are also implemented in DC Round 22.

The pricing formulae are updated every quarter in line with the established rolling approach to DCs as per <u>SEM-12-026</u> and <u>SEM-17-081</u>.

The CfD Strike Price for each transaction will be set using the published formulae and associated forward fuel prices, as set out in the Subscription Rules <u>SEM-18-036d</u>.

The DC seller, ESB, will apply the approved published fuel and carbon indices to the regression formulae each day throughout the subscription window and notify suppliers who have elected to subscribe for DC products on that day of the calculated CfD Fixed Price. ESB contracts will be priced in euro.

It should be noted that if, between the publication date of the pricing formulae and a time at which it is applied during the subscription period, forward fuel or carbon markets move to a point outside the range of values for which there is sufficient confidence in the pricing formulae, the RAs reserve the right to suspend subscription and rerun the econometric pricing model or otherwise to amend the determination of the DC CfD Fixed Prices to correct any mispricing. The rerun would use the prevailing forward fuel and carbon prices as inputs. In this case, the resulting formulae would replace the original formulae and to establish CfD Fixed Prices thereafter. The formulae may also be rerun if there is significant change to plant availability. The subscription window would reopen once the formulae are revised.

The DC regression formulae for the forthcoming round will take the following form:

CfD Fixed Price_{q,p}= $\alpha_{q,p}$ + $\beta_{q,p}$ * Gas_q + $\delta_{q,p}$ * Coal_q + $\epsilon_{q,p}$ * CO2_q

where:

CfD Fixed Price_{q,p} = DC Fixed Price (in \in /MWh) for the relevant quarter (q) and product (p), i.e., Baseload, Mid-merit and Peak.

 $\alpha_{q,p}$ = formula constant, which may vary by quarter (q) and product (p).

 $\beta_{q,p}$, $\delta_{q,p}$, and $\epsilon_{q,p}$ = formula coefficients, which may vary by quarter (q) and product (p).

 Gas_q = the price (in pence sterling per therm) for quarterly Intercontinental Exchange Natural Gas Futures for the relevant quarter. As stated in <u>SEM-21-005</u>, the RAs notified industry of updates to the calculation of quarterly "ICE UK Natural Gas Futures – NBP" ÷ (GBP/EURO Exchange Rate).

 $Coal_q$ = the price (in US dollars per tonne) for quarterly ARA Coal Futures. As noted in <u>SEM-21-005</u>, the RAs noted updates to the calculation of quarterly "Rotterdam Coal Futures – ARA" ÷ (USD/EURO Exchange Rate).

 $CO2_q$ = the settle price (in Euro per tonne of Carbon Dioxide) for the December month Intercontinental Exchange ECX EUA Carbon futures as reported as "ICE ECX EUA Futures – EUX – (monthly)" for the given calendar year. The December price for a given year will apply to all quarters falling within that year. As noted in <u>SEM-21-005</u>, the commodity data provider, ICE, transitioned from a public to a feebased subscription for access to Carbon data.

Multiply Gas co	Coefficients Multiply Gas coefficient by euro/therm Gas price, Coal coefficient by euro/tonne Coal					
			by euro/tonne			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
Baseload	Q3 23	29.42	60.012	0.0000	0.4364	
Midmerit 1	Q3 23	36.44	63.156	0.0000	0.4729	
Baseload	Q4 23	28.01	59.530	0.0000	0.4153	
Midmerit 1	Q4 23	31.74	65.061	0.0000	0.4403	
Peak	Q4 23	43.67	75.508	0.0000	0.5170	
Baseload	Q1 24	29.31	63.784	0.0000	0.4134	
Midmerit 1	Q1 24	35.46	68.324	0.0000	0.4372	
Peak	Q1 24	50.72	78.272	0.0000	0.4973	
Baseload	Q2 24	25.32	66.153	0.0000	0.4198	
Midmerit 1	Q2 24	30.83	70.057	0.0000	0.4471	

The values of the constants and the independent variable coefficients are set out in the following table.

4. Subscription Rules

The Subscription Rules (<u>SEM-18-036d</u>) for the DCs have been made evergreen. To allow this, two items which require updating will be included in the Information Paper published by the RAs prior to each quarterly DC Round. These are the details of the matrix of ESTSEM p,q prices for the purpose of credit cover calculations and Bank Holidays.

Prices for Credit Cover calculations

The matrix of ESTSEM p,q prices for the purpose of credit cover calculations based on closing fuel and carbon prices from 23rd February 2023 are as follows²:

	ESTSEM p,q			
	Baseload Mid-Merit Peak			
	per MWh	per MWh	per MWh	
Q3 2023	158.84	173.97	N/A	
Q4 2023	166.06	181.29	217.82	
Q1 2024	184.22	200.82	239.79	
Q2 2024	172.69	187.16	N/A	

5. Directed Contract Round 23

As per Information Paper (<u>SEM-22-095</u>), the Primary Subscription Window of Directed Contract Round 23 is currently scheduled to be held over six days, across two consecutive weeks:

- Tuesday 13th Thursday 15th June 2023; and
- Tuesday 20th Thursday 22nd June 2023.

² The RAs note that the prices calculated are based on the most recently validated SEM PLEXOS Model which incorporate the 2021 Generation Capacity Statement (GCS) Inputs. Further, per recent announcements, the retirement date of Bord na Móna's Edenderry Unit has been extended beyond 2023 within the SEM PLEXOS Model. Due to the unprecedented increase in volatilities of commodity prices in recent months, and in order to reflect the current market developments, the RAs are using a more recent date in Round 22 compared to previous DC rounds (excluding DC Round 21, 20, 19 and 18), in these extenuating circumstances.

The associated Supplemental Subscription Window is scheduled to take place on Thursday 29th June. Should there be a need to amend the above dates, the RAs will notify stakeholders in advance.

6. Public/Bank Holidays 2023/2024

The following dates are those known at the time of execution to be bank and public holidays (in the Republic of Ireland and Northern Ireland) between Q3 2023 and Q2 2024:

29 May 2023
5 June 2023
12 July 2023
7 August 2023
28 August 2023
30 October 2023
25 December 2023
26 December 2023
1 January 2024
5 February 2024
18 March 2024
29 March 2024
1 April 2024
6 May 2024
27 May 2024
3 June 2024