

# **Product Load Following Factors for period 1<sup>st</sup> October 2023 – 30<sup>th</sup> September 2024 Methodology and Approved Values.**

Date:	16/03/2023
-------	------------

## 1. Summary

Per M.12.4. of the Capacity Market Code, the Product Load Following Factor (PLFF) for a product is a value that allows for the impact of the Capacity Quantity Scaling Factor (as calculated in accordance with paragraph F.18.2.1 of the Trading and Settlement Code).

Per M.12.4.2 of the Capacity Market Code states that The System Operators shall submit weekly values for the Product Load Following Factor for a Capacity Year to the Regulatory Authorities for approval at least 3 months prior to the start of the preceding Capacity Year, or as requested by the Regulatory Authorities.

F.18.2.1 of the Trading and Settlement Code states that The Market Operator shall calculate the Capacity Quantity Scaling Factor (FSQC<sub>γ</sub>) in Imbalance Settlement Period, γ, as follows:

$$FSQC_{\gamma} = \text{Min} \left( \frac{|\sum_v \text{Min}(QMLF_{v\gamma}, 0)| + (qCREQAR_{\gamma} \times DISP)}{\sum_{\Omega} \sum_{n \in \gamma, qCCOMMISS \neq 0} (qCLF_{\Omega n}) \times DISP}, \frac{\sum_{\Omega} \sum_{n \in \gamma, qCCOMMISS \neq 0} (qCLF_{\Omega n}) \times DISP}{qCREQ_{\gamma} \times DISP}, 1 \right)$$

where:

- (a) QMLF<sub>vγ</sub> is the Loss-Adjusted Metered Quantity for Supplier Unit, v, in Imbalance Settlement Period, γ;
- (b) qCREQ<sub>γ</sub> is the Required Capacity Quantity in Capacity Year, γ, determined in accordance with the Capacity Market Code;
- (c) qCREQAR<sub>γ</sub> is the Reserve Adjustment Required Capacity Quantity, in Capacity Year, γ, determined in accordance with the Capacity Market Code;
- (d) DISP is the Imbalance Settlement Period Duration.
- (e) qCLF<sub>Ωn</sub> is the Loss-Adjusted Capacity Quantity for Capacity Market Unit, Ω, for Contract Register Entry, n, determined in accordance with the Capacity Market Code;
- (f)  $\sum_v$  is a summation over all Supplier Units, v;
- (g)  $\sum_{\Omega}$  is a summation over all Capacity Market Units, Ω; and
- (h)  $\sum_{n \in \gamma, qCCOMMISS \neq 0}$  is a summation across all Contract Register Entries, n, for Capacity Market Unit, Ω, relevant in Imbalance Settlement Period, γ, and which has commissioned in accordance with the Capacity Market Code.

## 2. Calculation

Using 30 Min Load forecast values for the 2023/2024 Capacity Year, a total of 17,568  $FSQC_{\gamma}$  values are calculated. To calculate the PLFF, the MAX  $FSQC_{\gamma}$  value is taken for each week. See Table 1 in the Appendix below for approved PLFF values.

## 3. Appendix

**Table 1: Approved PLFF values for 1<sup>st</sup> Oct-23 – 30<sup>th</sup> Sep-24**

Week Number	Start Date	End Date	PLFF Value
1	01/10/2023	07/10/2023	0.835
2	08/10/2023	14/10/2023	0.845
3	15/10/2023	21/10/2023	0.862
4	22/10/2023	28/10/2023	0.887
5	29/10/2023	04/11/2023	0.937
6	05/11/2023	11/11/2023	0.973
7	12/11/2023	18/11/2023	0.973
8	19/11/2023	25/11/2023	0.973
9	26/11/2023	02/12/2023	0.973
10	03/12/2023	09/12/2023	0.973
11	10/12/2023	16/12/2023	0.973
12	17/12/2023	23/12/2023	0.973
13	24/12/2023	30/12/2023	0.889
14	31/12/2023	06/01/2024	0.973
15	07/01/2024	13/01/2024	0.973
16	14/01/2024	20/01/2024	0.973
17	21/01/2024	27/01/2024	0.973
18	28/01/2024	03/02/2024	0.973
19	04/02/2024	10/02/2024	0.973
20	11/02/2024	17/02/2024	0.973
21	18/02/2024	24/02/2024	0.973
22	25/02/2024	02/03/2024	0.973
23	03/03/2024	09/03/2024	0.973
24	10/03/2024	16/03/2024	0.960
25	17/03/2024	23/03/2024	0.923
26	24/03/2024	30/03/2024	0.881
27	31/03/2024	06/04/2024	0.797

Week Number	Start Date	End Date	PLFF Value
28	07/04/2024	13/04/2024	0.826
29	14/04/2024	20/04/2024	0.825
30	21/04/2024	27/04/2024	0.804
31	28/04/2024	04/05/2024	0.816
32	05/05/2024	11/05/2024	0.803
33	12/05/2024	18/05/2024	0.794
34	19/05/2024	25/05/2024	0.803
35	26/05/2024	01/06/2024	0.791
36	02/06/2024	08/06/2024	0.792
37	09/06/2024	15/06/2024	0.795
38	16/06/2024	22/06/2024	0.800
39	23/06/2024	29/06/2024	0.804
40	30/06/2024	06/07/2024	0.795
41	07/07/2024	13/07/2024	0.797
42	14/07/2024	20/07/2024	0.797
43	21/07/2024	27/07/2024	0.795
44	28/07/2024	03/08/2024	0.790
45	04/08/2024	10/08/2024	0.781
46	11/08/2024	17/08/2024	0.811
47	18/08/2024	24/08/2024	0.822
48	25/08/2024	31/08/2024	0.829
49	01/09/2024	07/09/2024	0.829
50	08/09/2024	14/09/2024	0.850
51	15/09/2024	21/09/2024	0.841
52	22/09/2024	28/09/2024	0.857
53	29/09/2024	30/09/2024	0.853