

**Product Load Following Factors for period
1st Jan-2022 – 30th Sep 2023 -
Methodology and Approved Values.**

Date:	13/1/2022
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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_γ) 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_{vγ} is the Loss-Adjusted Metered Quantity for Supplier Unit, v, in Imbalance Settlement Period, γ;
- (b) qCREQ_γ is the Required Capacity Quantity in Capacity Year, γ, determined in accordance with the Capacity Market Code;
- (c) qCREQAR_γ 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_{Ωn} 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_{Ω} 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 2022 and 2023 calendar year, a total of 30,622 $FSQC_y$ values are calculated. To calculate the PLFF, the MAX $FSQC_y$ value is taken for each week. See Table 1 and Table 2 in the Appendix below for approved PLFF values.

3. Appendix

Table 1: Approved PLFF values for 1st Jan-22 – 30th Sep-22

Week Number	Start Date	End Date	PLFF Value
1	01/01/2022	02/01/2022	0.821
2	03/01/2022	09/01/2022	0.926
3	10/01/2022	16/01/2022	0.937
4	17/01/2022	23/01/2022	0.933
5	24/01/2022	30/01/2022	0.92
6	31/01/2022	06/02/2022	0.918
7	07/02/2022	13/02/2022	0.92
8	14/02/2022	20/02/2022	0.9
9	21/02/2022	27/02/2022	0.902
10	28/02/2022	06/03/2022	0.893
11	07/03/2022	13/03/2022	0.872
12	14/03/2022	20/03/2022	0.843
13	21/03/2022	27/03/2022	0.823
14	28/03/2022	03/04/2022	0.773
15	04/04/2022	10/04/2022	0.753
16	11/04/2022	17/04/2022	0.744
17	18/04/2022	24/04/2022	0.729
18	25/04/2022	01/05/2022	0.742
19	02/05/2022	08/05/2022	0.731
20	09/05/2022	15/05/2022	0.727
21	16/05/2022	22/05/2022	0.732
22	23/05/2022	29/05/2022	0.73
23	30/05/2022	05/06/2022	0.724
24	06/06/2022	12/06/2022	0.729
25	13/06/2022	19/06/2022	0.732
26	20/06/2022	26/06/2022	0.734
27	27/06/2022	03/07/2022	0.73

Week Number	Start Date	End Date	PLFF Value
28	04/07/2022	10/07/2022	0.728
29	11/07/2022	17/07/2022	0.71
30	18/07/2022	24/07/2022	0.72
31	25/07/2022	31/07/2022	0.716
32	01/08/2022	07/08/2022	0.708
33	08/08/2022	14/08/2022	0.735
34	15/08/2022	21/08/2022	0.745
35	22/08/2022	28/08/2022	0.751
36	29/08/2022	04/09/2022	0.75
37	05/09/2022	11/09/2022	0.771
38	12/09/2022	18/09/2022	0.764
39	19/09/2022	25/09/2022	0.778
40	26/09/2022	30/09/2022	0.792

Table 2: Approved PLFF values for 1st Oct-22 – 30th Sep-23

Week Number	Start Date	End Date	PLFF Value
41	01/10/2022	09/10/2022	0.749
42	10/10/2022	16/10/2022	0.767
43	17/10/2022	23/10/2022	0.792
44	24/10/2022	30/10/2022	0.822
45	31/10/2022	06/11/2022	0.862
46	07/11/2022	13/11/2022	0.878
47	14/11/2022	20/11/2022	0.878
48	21/11/2022	27/11/2022	0.894
49	28/11/2022	04/12/2022	0.899
50	05/12/2022	11/12/2022	0.908
51	12/12/2022	18/12/2022	0.903
52	19/12/2022	25/12/2022	0.804
53	26/12/2022	01/01/2023	0.835
1	02/01/2023	08/01/2023	0.731
2	09/01/2023	15/01/2023	0.884
3	16/01/2023	22/01/2023	0.896
4	23/01/2023	29/01/2023	0.904
5	30/01/2023	05/02/2023	0.898
6	06/02/2023	12/02/2023	0.896
7	13/02/2023	19/02/2023	0.888
8	20/02/2023	26/02/2023	0.893

Week Number	Start Date	End Date	PLFF Value
9	27/02/2023	05/03/2023	0.868
10	06/03/2023	12/03/2023	0.869
11	13/03/2023	19/03/2023	0.865
12	20/03/2023	26/03/2023	0.84
13	27/03/2023	02/04/2023	0.825
14	03/04/2023	09/04/2023	0.766
15	10/04/2023	16/04/2023	0.746
16	17/04/2023	23/04/2023	0.698
17	24/04/2023	30/04/2023	0.708
18	01/05/2023	07/05/2023	0.706
19	08/05/2023	14/05/2023	0.709
20	15/05/2023	21/05/2023	0.699
21	22/05/2023	28/05/2023	0.689
22	29/05/2023	04/06/2023	0.695
23	05/06/2023	11/06/2023	0.693
24	12/06/2023	18/06/2023	0.689
25	19/06/2023	25/06/2023	0.697
26	26/06/2023	02/07/2023	0.699
27	03/07/2023	09/07/2023	0.704
28	10/07/2023	16/07/2023	0.698
29	17/07/2023	23/07/2023	0.688
30	24/07/2023	30/07/2023	0.691
31	31/07/2023	06/08/2023	0.689
32	07/08/2023	13/08/2023	0.684
33	14/08/2023	20/08/2023	0.675
34	21/08/2023	27/08/2023	0.702
35	28/08/2023	03/09/2023	0.711
36	04/09/2023	10/09/2023	0.719
37	11/09/2023	17/09/2023	0.72
38	18/09/2023	24/09/2023	0.733
39	25/09/2023	01/10/2023	0.728