Product Load Following Factors for period 26th Oct-2020 - 31st Dec 2020 - Methodology and Approved Values.

Date:	26/10/2020

1. Summary

Per H.3.3.1 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 H.3.3.2 of the Capacity Market Code states that the PLFF for the specific time interval covered by a Product shall be determined in accordance with a methodology determined by the Regulatory Authorities from time to time.

F.18.2.1 of the Trading and Settlement Code states that The Market Operator shall calculate the Capacity Quantity Scaling Factor ($FSQC_\gamma$) in Imbalance Settlement Period, γ, as follows:

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

where:

(a) $QMLF_{v\gamma}$ is the Loss-Adjusted Metered Quantity for Supplier Unit, v, in Imbalance Settlement Period, γ;

(b) $qCREQ_y$ is the Required Capacity Quantity in Capacity Year, y, determined in accordance with the Capacity Market Code;

(c) $qCREQAR_y$ is the Reserve Adjustment Required Capacity Quantity, in Capacity Year, y, determined in accordance with the Capacity Market Code;

(d) DISP is the Imbalance Settlement Period Duration.

(e) $qCLF_{\Omega n}$ 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. Values

- $QMLF_{v\gamma}$ in this calculation is the forecast annual load factor.

- $qCREQ_y$ Is the Required Capacity for the CY 2020/21, which is 7,050 MW (per Final Auction Information Pack 20/21)

- qCREQAR$_\gamma$ is the Reserve Adjustment parameter which is currently set to 0MW

- DISP is the Imbalance Settlement Period Duration, with a value of 0.5

- qCLF$_{\Omega n}$ Is the Loss Adjusted Commissioned Capacity Quantity. This is a summation of Existing Capacity, Awarded New Capacity that is Substantially Complete by 1st October 2020, and Awarded New Capacity that is expected to achieve Substantial Completion by the Long Stop Date. This value is 7,598.774 MW

3. Calculation

Using 30 Min Load forecast values for 2020, a total of 3,214 $FSQC_\gamma$ 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.

4. Appendix

Table 1: Approved PLFF values for 26th Oct-20 – 31st Dec-2020

Week Commencing	Week Ending	Week Number	Product Load Following Factor
26/10/2020	01/11/2020	44	0.797
02/11/2020	08/11/2020	45	0.831
09/11/2020	15/11/2020	46	0.854
16/11/2020	22/11/2020	47	0.854
23/11/2020	29/11/2020	48	0.870
30/11/2020	06/12/2020	49	0.868
07/12/2020	13/12/2020	50	0.887
14/12/2020	20/12/2020	51	0.906
21/12/2020	27/12/2020	52	0.766
28/12/2020	31/12/2020	53	0.788