

Approved 2019/20 Transmission
Loss Adjustment Factors (TLAFs)
Accompanying Note
Version 1.0

12th September 2019



Background

This explanatory paper has been prepared by the Transmission System Operators (TSOs) to accompany the Approved Transmission Loss Adjustment Factors (TLAFs) which have been calculated by the TSOs, based on the approved TLAF methodology (SEM-12-049), for 2019/20 (1st October 2019 to 30th September 2020). TLAFs for interconnectors in I-SEM are detailed in the I-SEM Interconnector Losses Information Paper published 2nd June 2017.

TLAF Analysis - Overview

Following a comparison between 2018/19 TLAFs and 2019/20 TLAFs, it was found that 79% of the TLAF's calculated are within 1% of the previous year's TLAF's and over 94% are within 2%. The maximum average participant TLAF change is 2.06%. The overall average TLAF has decreased by 0.61% from 2018/19.

The normal distribution and the frequency distribution are shown below.

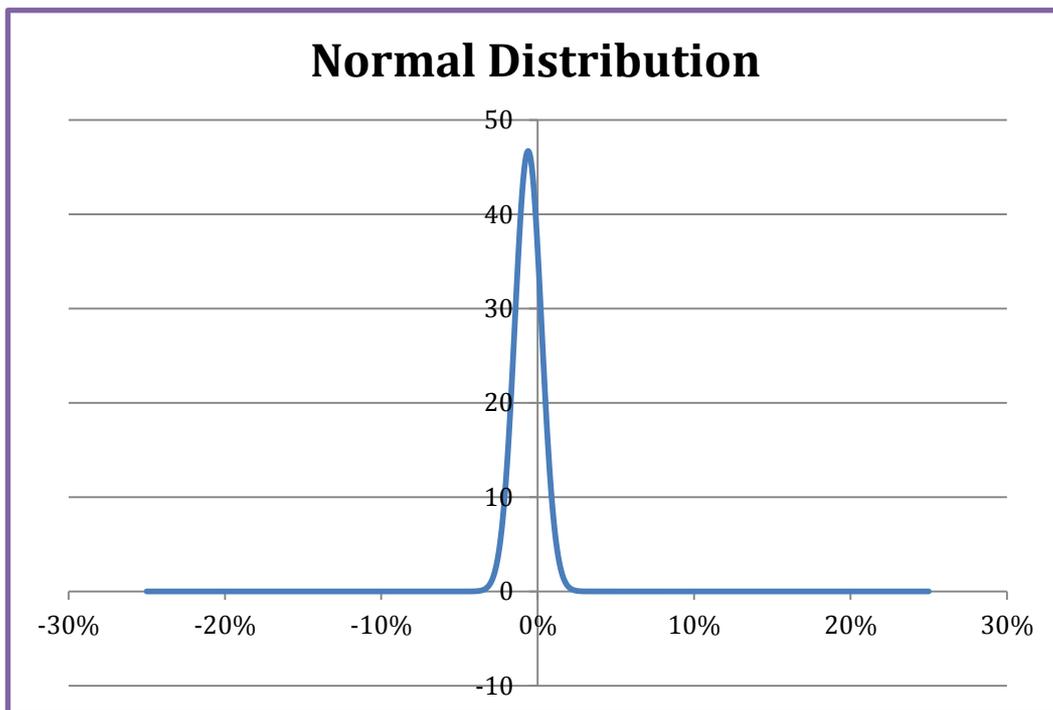


Figure 1 – Normal Distribution of changes in TLAFs from 2018/19 to 2019/20

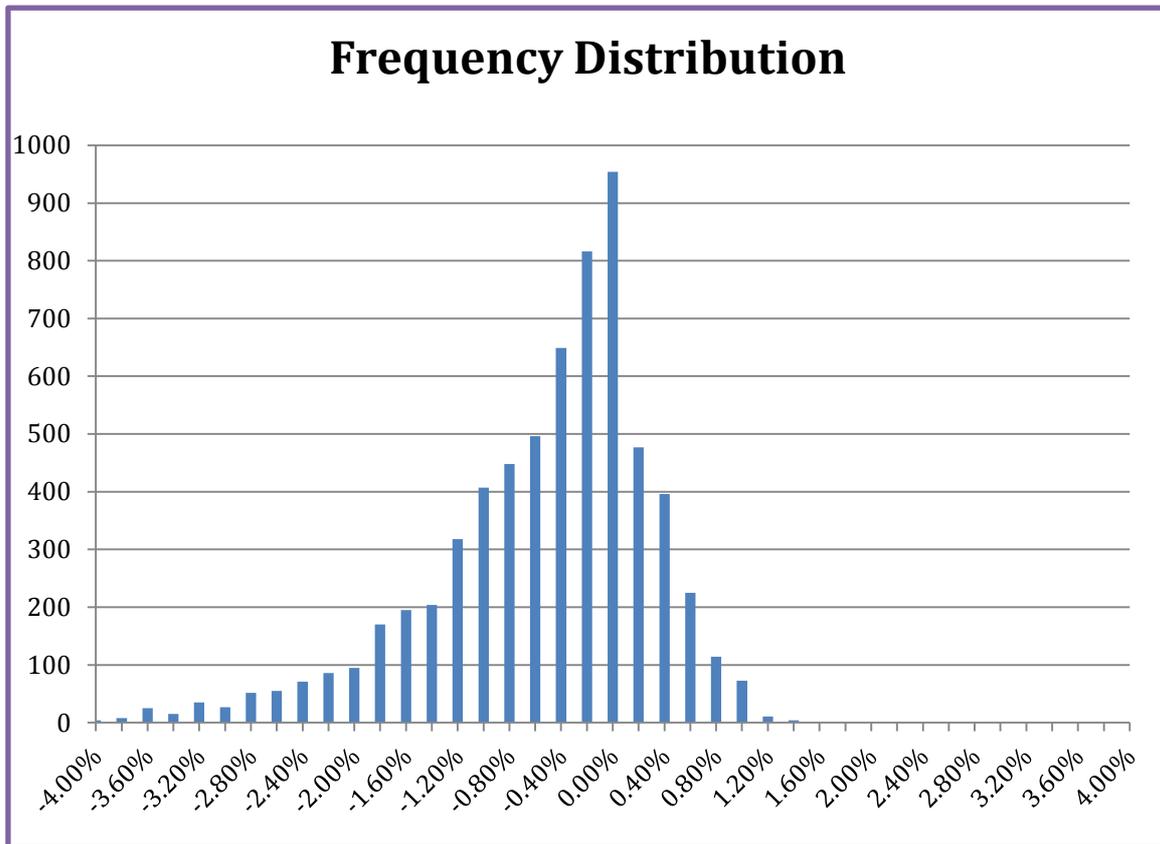


Figure 2 - Frequency Distribution of changes in TLAFs from 2018/19 to 2019/20

TLAF Analysis - Regional

There is a reasonable link between regional dispatch change and the TLAF trend in that region. It should be noted that whilst changes in dispatch between years will change base case flows; this does not indicate how a single participant's generation will add to or offset flows on an all-island basis. Instead, it may provide an indicator for possible expected regional changes.

Figure 3 shows an all-island overview of the TLAFs for 2019/20, indicating the locational range. Green signifies nodes with high TLAFs and moving to red signifies nodes with lower TLAFs.

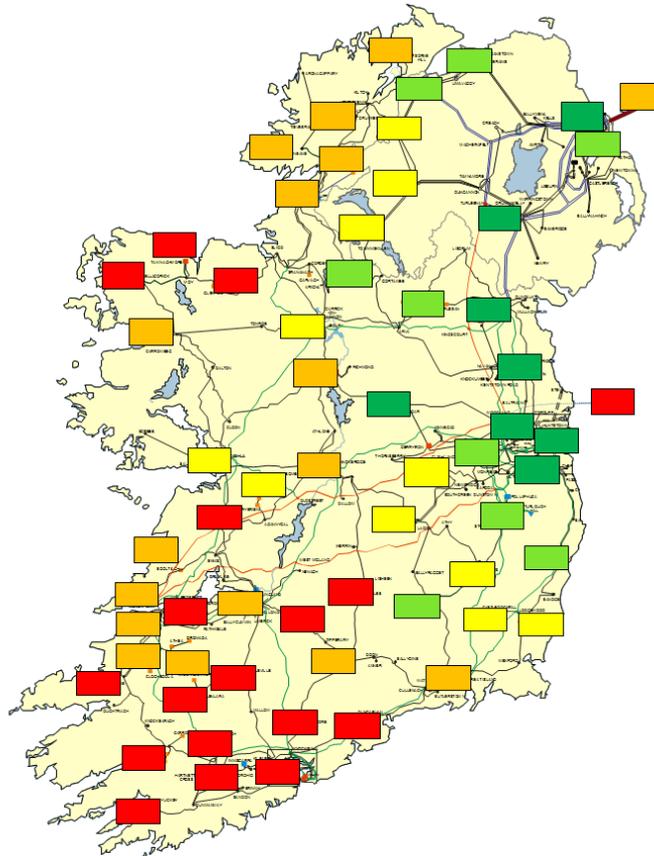


Figure 3 - Locational breakdown of 2019/20 TLAFs

The change in TLAFs from 2018/19 to 2019/20 is shown in Figure 4. Dark green signifies nodes where TLAFs have improved from 2018/19. Progressively moving to red signifies nodes where TLAFs have dis-improved, with red representing the largest change. EWIC and Moyle TLAFs, highlighted in purple, remain unchanged as per the I-SEM Interconnector Losses Information Paper.

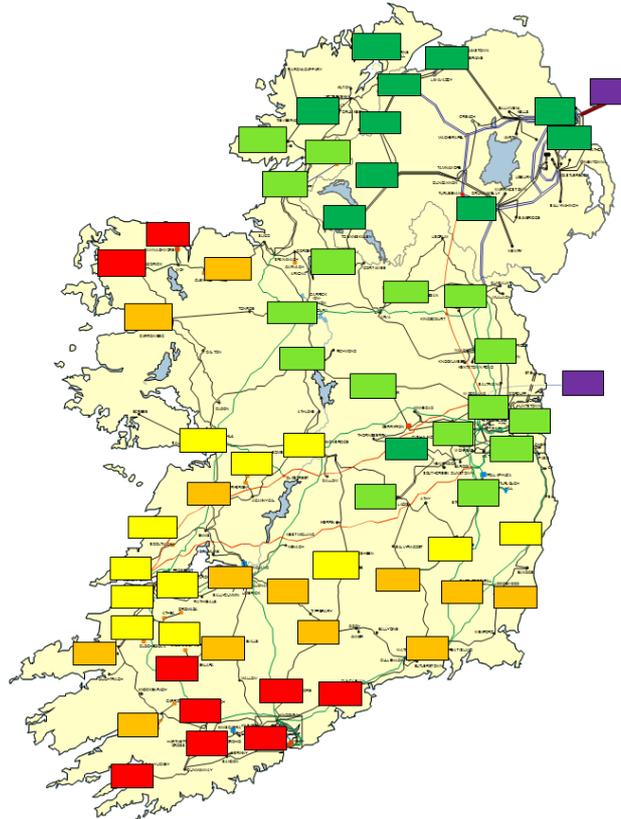


Figure 4 -TLAF changes from 2018/19 to 2019/20

Figure 5 shows the total regional MW dispatch change. Due to commercial sensitivity reasons, data is shown at a regional level, and aggregated from all generation types, (thermal, wind, solar, etc.).

As previously stated, although regional changes from one year to the next can be generalised using Figures 4 and 5, they should not be used as the single determinant for TLAf changes. Participant's TLAfs are a result of how generation at their node will offset or add to all-island base case flows.

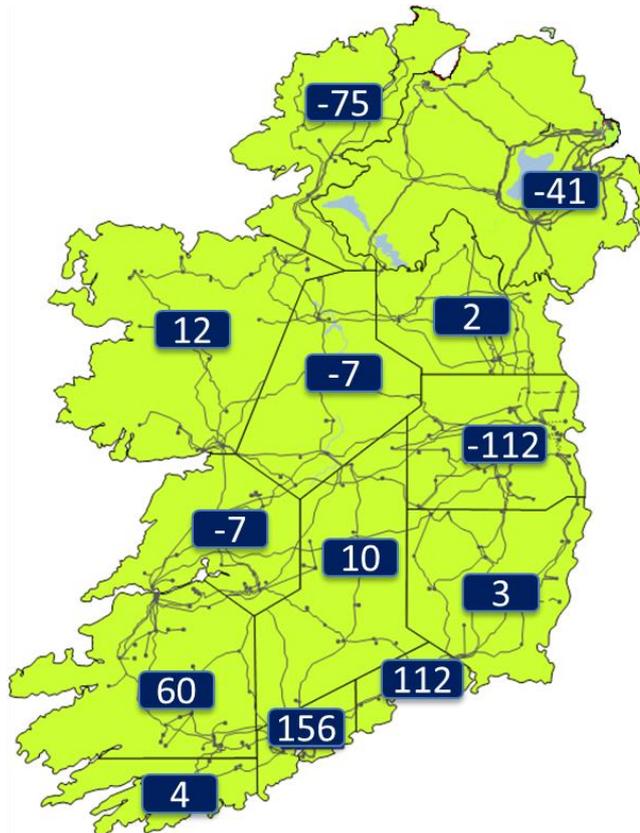


Figure 5 - Total regional MW dispatch change from 2018/19 to 2019/20

Contact

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