Capacity Market Code Modifications

Working Group 10

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An Coimisiún um Rialáil Fóntas

Commission for Regulation of Utilities



CMC_08_19 – General Housekeeping Modification

- Upon working through the Provisional Capacity Qualification decisions the Capacity Auction Monitor noticed a number of typographical errors in formula set out in the CMC.
- ➤ The RAs propose to make changes to the formula contained within E.8.2.5 and E.8.2.8 and thus correct the typographical errors.
- ➤ E.8.2.5 Sets out the formula to be used by the System Operator to determine to the calculation of Gross De-Rated Capacity (New) of a Generator Unit (other than an Aggregated Generator Unit) which is a Variable Generator Unit
 - \rightarrow GDRCN = MAX[0, MIN[DRFT × ICT × (1 + INCTOL), NDRVE + NDRVN]] GDRCE]
 - > Surplus bracket "]" contained within the formula shown in E.8.2.5 which will require removal
 - > Removal of additional "]" is required to ensure there is no ambiguity in regards to the calculation.

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- E.8.2.8 Sets out the formula to be used by the System Operator to determine the Gross De-Rated Capacity (New) of an Aggregated Generator Unit. There are two issues with this section that require modification:
 - 1. The brackets within the formula do not balance. In its current state has a material effect on checks that are required to be carried out by the Auction Monitor:

 $GDRCN = MAX[0, \Sigma_{i \neq VU} MIN[DRFT_i \times ICT_i \times (1 + INCTOL_i), MAX[DRFT_i \times ICT_i \times (1 - DECTOL_i), NDRVE_i + NDRVN_i] + \Sigma_{i = VU} MIN[(DRFE_i \times ICE_i \times (1 + INCTOL_i), NDRVE_i + NDRVN_i] - GDRCE]$

2. Formula comprises two elements where the second replicates E.8.2.5. It makes reference to the existing initial capacity (ICE) and the applicable existing capacity de-rating factor (DRFE). This is not appropriate for determining the New Gross De-rated Capacity (GDRCN). This should refer to total initial capacity (ICT) and the applicable total capacity de-rating factor (DRFT)

 $GDRCN = MAX[0, \sum_{i \neq VU} MIN[DRFT_i \times ICT_i \times (1 + INCTOL_i), MAX[DRFTi \times ICTi \times (1 - DECTOLi), NDRVE_i + NDRVN_i]] + \sum_{i=VU} MIN[DRFT_i \times ICT_i \times (1 + INCTOL_i), NDRVE_i + NDRVN_i] - GDRCE]$