



**Single Electricity Market**

**(SEM)**

**Capacity Market Code Modifications –**

**Working Group 10 Decision Paper – Appendix A**

**SEM-20-009 (a)**

**13 February 2020**

# 1. CMC\_08\_19 – GENERAL HOUSEKEEPING MODIFICATIONS

## 1.1 CURRENT CAPACITY MARKET CODE DRAFTING

- E.8.2.5 The System Operators shall determine the Gross De-Rated Capacity (New) of a Generator Unit (other than an Aggregated Generator Unit) which is a Variable Generator Unit in accordance with the following formula:

$$\text{GDRCN} = \text{MAX}[0, \text{MIN}[\text{DRFT} \times \text{ICT} \times (1 + \text{INCTOL}), \text{NDRVE} + \text{NDRVN}]] - \text{GDRCE}]$$

- E.8.2.8 The System Operators shall determine the Gross De-Rated Capacity (New) of an Aggregated Generator Unit is determined in accordance with the following formula:

$$\text{GDRCN} = \text{MAX}[0, \sum_{i \neq \text{VU}} \text{MIN}[\text{DRFT}_i \times \text{ICT}_i \times (1 + \text{INCTOL}_i), \text{MAX}[\text{DRFT}_i \times \text{ICT}_i \times (1 - \text{DECTOL}_i), \text{NDRVE}_i + \text{NDRVN}_i]] + \sum_{i = \text{VU}} \text{MIN}[(\text{DRFE}_i \times \text{ICE}_i \times (1 + \text{INCTOL}_i), \text{NDRVE}_i + \text{NDRVN}_i)] - \text{GDRCE}]$$

## 1.2 APPROVED MODIFICATION TO CAPACITY MARKET CODE DRAFTING

- E.8.2.5 The System Operators shall determine the Gross De-Rated Capacity (New) of a Generator Unit (other than an Aggregated Generator Unit) which is a Variable Generator Unit in accordance with the following formula:

$$\text{GDRCN} = \text{MAX}[0, \text{MIN}[\text{DRFT} \times \text{ICT} \times (1 + \text{INCTOL}), \text{NDRVE} + \text{NDRVN}]] - \text{GDRCE}]$$

- E.8.2.8 The System Operators shall determine the Gross De-Rated Capacity (New) of an Aggregated Generator Unit is determined in accordance with the following formula:

$$\text{GDRCN} = \text{MAX}[0, \sum_{i \neq \text{VU}} \text{MIN}[\text{DRFT}_i \times \text{ICT}_i \times (1 + \text{INCTOL}_i), \text{MAX}[\text{DRFT}_i \times \text{ICT}_i \times (1 - \text{DECTOL}_i), \text{NDRVE}_i + \text{NDRVN}_i]] + \sum_{i = \text{VU}} \text{MIN}[(\text{DRFE}_i \times \text{ICE}_i \times (1 + \text{INCTOL}_i), \text{NDRVE}_i + \text{NDRVN}_i)] - \text{GDRCE}]$$