

**SECTION T: SETTLEMENT AND TRADING CHARGES** (Version 9 including Approved Modifications yet to be implemented)

Amend paragraph 2.3 to read as follows:

2.3.1 In respect of each Settlement Period, for each BM Unit, the Transmission Loss Multiplier shall be calculated as follows:

- (a) for all BM Units belonging to Trading Units which in the Settlement Period are delivering Trading Units:

$$TLM_{ij} = 1 + TLF_{ij} + TLMO^+_{ij}$$

- (b) for all BM Units belonging to Trading Units which in the Settlement Period are offtaking Trading Units:

$$TLM_{ij} = 1 + TLF_{ij} + TLMO^-_{ij}$$

where:

$TLMO^+_{ij} = -\{\alpha(\Sigma^+ QM_{ij} + \Sigma^- QM_{ij}) + \Sigma^+ (QM_{ij} * TLF_{ij} + QHED_{ij})\} / \Sigma^+ QM_{ij}$ ; and

$TLMO^-_{ij} = -\{(1 - \alpha)(\Sigma^- QM_{ij} + \Sigma^+ QM_{ij}) + \Sigma^- (QM_{ij} * TLF_{ij} + QHED_{ij})\} / \Sigma^- QM_{ij}$ ; and

QHED<sub>ij</sub> is the value determined in accordance with paragraph 4.5.1;

$\Sigma^+$  represents the sum over all BM Units belonging to Trading Units that are delivering Trading Units in the Settlement Period;

$\Sigma^-$  represents the sum over all BM Units belonging to Trading Units that are offtaking Trading Units in the Settlement Period.

Add new paragraphs 2.4, 2.5 and 2.6 as follows:

**2.4 Applicable Loss Factors**

**2.4.1 The Applicable Loss Factor for:**

- (a) BM Units that comprise only CVA Metering Systems (including Interconnector BM Units) registered before 1 April 2004 and all Supplier BM Units shall be calculated by the SAA; and

- (b) BM Units that comprise only CVA Metering Systems (including Interconnector BM Units) registered on or after 1 April 2004 shall be calculated by the BSCCo.

2.4.2 Without prejudice to paragraph 2.4.1, in respect of each Settlement Period, and for each BM Unit, the Applicable Loss Factor shall be calculated as follows:

- (a) in the case of those BM Units referred to in paragraph 2.4.1(a):

- (i) for all BM Units belonging to Trading Units which in the Settlement Period are delivering Trading Units:

$ALF^+_{ij} = -\{\alpha(\Sigma^+ QM_{ij} + \Sigma^- QM_{ij})\} / \Sigma^+ QM_{ij}$ ;

- (ii) for all BM Units belonging to Trading Units which in the Settlement Period are offtaking Trading Units:

$$\underline{ALF_{ij}^- = - \{(1 - \alpha)(\Sigma^+ QM_{ij} + \Sigma^- QM_{ij})\} / \Sigma^- QM_{ij};}$$

- (b) in the case of those BM Units referred to in paragraph 2.4.1(b) whether belonging to Trading Units which in the Settlement Period are delivering or offtaking Trading Units,  $ALF_{ij}^+$  and  $ALF_{ij}^-$  are equal to the TLF, prevailing at the time of registration of the relevant BM Unit, for the Zone in which the BM Unit lies (as identified in the network mapping statement prepared and maintained by BSCCo (in accordance with Annex T-2) at the time of registration).

2.4.3 In respect of a BM Unit comprised of Plant and Apparatus previously comprised in a BM Unit registered with the CRA, where such earlier registration(s) ceased to have effect immediately before the effective date of such later registration(s), paragraph 2.4.1(a) or (b) shall apply by reference to the date of the first registration of a BM Unit comprised of such Plant and Apparatus.

## 2.5 F-Factors

In respect of each Settlement Period, for each BM Unit, the F-Factor shall be calculated as follows:

- (a) BM Units that comprise only CVA Metering Systems (excluding Interconnector BM Units):

- (i) for all BM Units belonging to Trading Units which in the Settlement Period are delivering Trading Units:

$$\underline{F_{ij}^+ = HED_i * HL_{ij}^+}$$

- (ii) for all BM Units belonging to Trading Units which in the Settlement Period are offtaking Trading Units:

$$\underline{F_{ij}^- = HED_i * HL_{ij}^-}$$

- (b) for Supplier BM Units:

- (i) for all BM Units belonging to Trading Units which in the Settlement Period are delivering Trading Units:

$$\underline{F_{ij}^+ = HL_{gi}^+ QM_{ij}^+ / \Sigma_g QM_{ij}^+}$$

- (ii) for all BM Units belonging to Trading Units which in the Settlement Period are offtaking Trading Units:

$$\underline{F_{ij}^- = HL_{gi}^- QM_{ij}^- / \Sigma_g QM_{ij}^-}$$

where:

$\Sigma_g QM_{ij}^+$  is the sum of Exports from all BM Units in the relevant GSP Group;

$\Sigma_g QM_{ij}^-$  is the sum of Imports from all BM Units in the relevant GSP Group;

- (c) for Interconnector BM Units:

(i) for Production Interconnector BM Units:

$$F_{ij}^+ = \underline{HL_{zj}^+ (AC_{ij} / \sum_z^+ AC_{ij}) * HED_i}$$

and  $F_{ij} = 0$ :

(ii) for Consumption Interconnector BM Units:

$$F_{ij} = \underline{HL_{zj}^- (AC_{ij} / \sum_z^- AC_{ij}) * HED_i}$$

and  $F_{+ij} = 0$ :

where z represents the Interconnector that Interconnector BM unit i belongs to;

$\sum_z^+ AC_{ij}$  is the total capacity allocated to Production Interconnector BM Units by the Interconnector Administrator of Interconnector z in period j;

$\sum_z^- AC_{ij}$  is the total capacity allocated to Consumption Interconnector BM Units by the Interconnector Administrator of Interconnector z in period j;

and further where in paragraphs (a), (b) and (c)  $HL_{ij}^+$  and  $HL_{ij}^-$  are the quantities determined in respect of the Settlement Period for the BM Unit accordance with Annex T-3.

## 2.6 Hedging Flag

2.6.1 In respect of a BM Unit that is comprised only of CVA Metering Systems (including an Interconnector BM Unit) for a Settlement Period the Hedging Flag shall be the value notified by the relevant Party pursuant to Section K3.2.3 or paragraph 2.6.3.

2.6.2 Following notification by a Party of the Hedging Flag in respect of such BM Unit (including an Interconnector BM Unit) to the CRA pursuant to Section K3.2.3 or paragraph 2.6.3 the Hedging Flag for the BM Unit may not change.

2.6.3 The Lead Party for a BM Unit that is comprised only of CVA Metering Systems (including an Interconnector BM Unit) registered in accordance with Section K3.2 at the date on which the Approved Modification pursuant to which this paragraph 2.6 is effective is implemented shall notify the CRA of the Hedging Flag by not later than 1 April 2004, provided that if such Lead Party fails to notify the CRA accordingly, it shall be deemed to have notified a value of zero.

2.6.4 Where a Party registers a BM Unit comprising the same Plant and Apparatus comprised in a BM Unit registered in the name of another Party which registration ceases to have effect prior to the date on which the new registration is to be effective the Hedging Flag for the BM Unit shall remain the same as that notified in accordance with Section K3.2.3 or paragraph 2.6.3.

*Amend paragraph 4.5.1 to read as follows:*

4.5.1 In respect of each Settlement Period and each Energy Account, the Credited Energy Volume for each BM Unit to be allocated to the corresponding Energy Account of the Subsidiary Party and of the Lead Party will be determined as follows:

(a) in the case of the corresponding Energy Account of each Subsidiary Party:

$$QCE_{iaj} = \underline{UQCE_{iaj} + AQHED_{iaj}}$$

where:

$$\underline{UQCE_{iaj} = \{(QM_{ij} - QBO_{ij}) * (QMPR_{iaj}/100) + QMFR_{iaj}\} * TLM_{ij};}$$

$$\underline{AQHED_{iaj} = QHED_{ij} * (QMPR_{iaj}/100); \text{ and}}$$

$$\underline{QHED_{ij} = (ALF_{ij}^+ - TLF_{ij}) F_{ij}^+ + (ALF_{ij}^- - TLF_{ij}) F_{ij}^-;}$$

and values of  $QCE_{iaj}$  are then rounded towards zero to the nearest kWh;

- (b) in the case of the corresponding Energy Account of the Lead Party:

$$QCE_{iaj} = \underline{UQCE_{iaj} + AQHED_{iaj}}$$

where:

$$\underline{UQCE_{iaj} = (QM_{ij} * TLM_{ij}) - \sum_a QCE_{iaj};}$$

$$\underline{AQHED_{iaj} = QHED_{ij} - \sum_a AQHED_{iaj}; \text{ and}}$$

$$\underline{QHED_{ij} = (ALF_{ij}^+ - TLF_{ij}) F_{ij}^+ + (ALF_{ij}^- - TLF_{ij}) F_{ij}^-; \text{ and}}$$

where  $\sum_a$  represents the sum over all Energy Accounts for Subsidiary Parties of the Lead Party (not including Energy Accounts for the Lead Party itself).

Add new Annex T-3 as follows:

### ANNEX T-3

#### HEDGING LOADS

##### 1. Introduction

- 1.1 This Annex T-3 sets out the basis for calculating the Hedging Load for a BM Unit for a Settlement Period for the purposes of Section T2.5.

##### 2. Hedging Load

- 2.1 The Hedging Load for a BM Unit that is comprised only of CVA Metering Systems, registered before 1 April 2004 shall be calculated as follows:<sup>2</sup>

$$\underline{HL_{ij}^+ = \sum_{nj} \max(QM_{ij}, 0) / N * Y_j; \text{ and}}$$

$$\underline{HL_{ij}^- = \sum_{nj} \min(QM_{ij}, 0) / N * Y_j}$$

- 2.2 The Hedging Load for a BM Unit that is comprised only of CVA Metering Systems (except a BM Unit falling within Section T2.6.4) registered on or after 1 April 2004 shall be as follows:

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<sup>2</sup> As calculation for pre 1 December 2001 and post 1 December but pre 1 April 2004 is the same the reference can be to pre 1 April 2004.

<u>[Plant Type]</u>	<u>HL<sup>+</sup></u>	<u>HL<sup>-</sup></u>
<u>Onshore wind generator</u>	<u>GC<sub>ij</sub> * 0.289</u>	<u>0</u>
<u>Biofuel generator</u>	<u>GC<sub>ij</sub> * 0.623</u>	<u>0</u>
<u>Hydro-electric generator</u>	<u>GC<sub>ij</sub> * 0.0815</u>	<u>0</u>
<u>Open Cycle Gas Turbine generator</u>	<u>GC<sub>ij</sub> * 0.0815</u>	<u>0</u>
<u>Combined Cycle Gas Turbine generator</u>	<u>GC<sub>ij</sub> * 0.3618</u>	<u>0</u>
<u>Demand</u>	<u>0</u>	<u>DC<sub>ij</sub> * 0.4706</u>
<u>Station Demand</u>	<u>0</u>	<u>DC<sub>ij</sub> * 0.0664</u>

where GC<sub>ij</sub> and DC<sub>ij</sub> are determined at the time at which the BM Unit was registered pursuant to Section K3.2.3 or Section T2.6.3.

2.3 The Hedging Load for a Supplier BM Unit shall be calculated as follows:

$$HL_{gj}^+ = \sum_g \sum_{nj} \max(QM_{ij}, 0) / N * Y_j; \text{ and}$$

$$HL_{gj}^- = \sum_g \sum_{nj} \min(QM_{ij}, 0) / N * Y_j$$

2.4 The Hedging Load for an Interconnector BM Unit shall be calculated as follows:

$$HL_{zi}^+ = \sum_z \sum_{nj} \max(QM_{ij}, 0) / N * Y_j$$

$$HL_{zi}^- = \sum_z \sum_{nj} \min(QM_{ij}, 0) / N * Y_j$$

2.5 For the purposes of paragraphs 2.1, 2.3 and 2.4:

Σ<sub>n</sub> is the sum over all relevant Settlement Periods in the relevant three month period in which the Settlement Period falls;

N is the number of Settlement Periods in the same three month period as the given Settlement Period;

the three month period's are those commencing 1 December 2001, 1 March 2002, 1 June 2002 and 1 September 2002; and

Y<sub>j</sub> is the value shown in the table in paragraph 2.6.

2.6 For the purposes of this Annex T-3:

<u>BSC Year</u>	<u>BM Unit that is comprised only of CVA Metering Systems</u>	<u>Supplier BM Units</u>
<u>2004 - 2005</u>	<u>1</u>	<u>0.9</u>

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<u>2005 – 2006</u>	<u>1</u>	<u>0.86</u>
<u>2006 – 2007</u>	<u>1</u>	<u>0.8</u>
<u>2007 – 2008</u>	<u>1</u>	<u>0.7</u>
<u>2008 – 2009</u>	<u>1</u>	<u>0.67</u>
<u>2009 – 2010</u>	<u>1</u>	<u>0.6</u>
<u>2010 – 2011</u>	<u>1</u>	<u>0.5</u>
<u>2011 – 2012</u>	<u>1</u>	<u>0.47</u>
<u>2012 – 2013</u>	<u>1</u>	<u>0.4</u>
<u>2013 – 2014</u>	<u>1</u>	<u>0.3</u>
<u>2014 – 2015</u>	<u>1</u>	<u>0.27</u>
<u>2015 – 2016</u>	<u>1</u>	<u>0.2</u>
<u>2016 – 2017</u>	<u>1</u>	<u>0.13</u>
<u>2017 – 2018</u>	<u>1</u>	<u>0.06</u>
<u>2018 – 2019</u>	<u>0</u>	<u>0</u>

