Commencement Notice:
Wholesale Electricity Market Rules

Amending Rules RC_2017_10

These Amending Rules are made under the *Electricity Industry Act 2004* and the *Electricity Industry (Wholesale Electricity Market) Regulations 2004* on 13 March 2018.

These Amending Rules commence at 8:00 AM on 20 March 2018*.*

The following clauses are amended (~~deleted wording~~, <u>new wording</u>):

2.11.1.   A Rule Participant may apply to the Electricity Review Board for a Procedural Review of a decision by the IMO<u>, Rule Change Panel, AEMO,</u> ~~or~~ System Management <u>or the Economic Regulation Authority</u>, as applicable, contemplated by clauses 2.10.2A(a) or 2.10.13 within the time specified in regulation 44 of the WEM Regulations, on the grounds that the IMO<u>, Rule Change Panel, AEMO,</u> ~~or~~ System Management <u>or the Economic Regulation Authority</u>, as applicable, has not followed the process set out in <u>section</u>~~clause~~ 2.10 or the Administration Procedure.

2.11.2.   Following an application for a Procedural Review under clause 2.11.1, if the Electricity Review Board finds that the IMO, Rule Change Panel, AEMO, System Management or the Economic Regulation Authority has not followed the process set out in <u>section</u>~~clause~~ 2.10 or the Administration Procedure, the Electricity Review Board may set aside the IMO's decision, Rule Change Panel's decision, AEMO's decision, ~~or~~ System Management's decision <u>or Economic Regulation Authority's decision</u> and direct the IMO, Rule Change Panel, AEMO, System Management or the Economic Regulation Authority to reconsider the relevant Procedure Change Proposal in accordance with <u>section</u>~~clause~~ 2.10 and the Administration Procedure.

2.13.6D<u>.</u>   System Management may determine the Tolerance Range to apply to all Facilities for the purpose~~s~~ of System Management's reporting of alleged breaches of clause 7.10.1 and <u>section</u>~~clause~~ 3.21 to ~~AEMO~~ <u>the Economic Regulation Authority</u> under clause 2.13.6A. When determining the appropriate Tolerance Range to apply for all Market Participants, System Management must:

    (a)   consult with Rule Participants prior to setting the Tolerance Range; and

    (b)   publish on the Market Web Site at least 14 Business Days prior to the date from which change to the Tolerance Range becomes effective, the following:

        i.   all submissions received from Rule Participants;

        ii.   the Tolerance Range; and

        iii.   an effective date for the commencement of the Tolerance Range.

2.24.2. Before 30 June each year, AEMO~~the IMO~~ must determine and publish the level of the Market Fee rate, System Management Fee rate and Regulator Fee rate, and the level of each of the Application Fees, and the level of the Reassessment Fee to apply over the year starting 1 July in accordance with <u>AEMO's budget published under clause 2.22A.4,</u> the IMO's approved budget and information provided by the Economic Regulation Authority under clause 2.24.6 (if any). Where:

(a) the Minister has not approved the IMO's budget proposal, AEMO will determine and publish the expected level of Market Fee rate ~~for AEMO~~ based on the <u>IMO's</u> most recent approved budget (and based on AEMO's own budget published under clause 2.22A.4); and

…

4.26.1. If a Market Participant holding Capacity Credits associated with a Facility fails to comply with its Reserve Capacity Obligations applicable to any given Trading Interval then the Market Participant must pay a refund to AEMO calculated in accordance with the following provisions.

(a) The Trading Interval Refund Rate for a Facility f in the Trading Interval t is determined as <u>follows:</u>~~follows—~~

$$\text{Trading Interval Refund Rate}(f, t) = RF(f, t) \times Y$$

<u>where:</u>~~where—~~

i. Trading Interval Refund Rate (f, t) is the Trading Interval Refund Rate for a Facility f in the Trading Interval t;

ii. $RF(f, t)$ is the refund factor for a Facility f in the Trading Interval t and is calculated in accordance with clause 4.26.1(c); and

…

(b) For a Facility f in the Trading Interval t, Y is determined as <u>follows:</u>~~follows—~~

i. for a Non-Scheduled Generator, Y equals zero if AEMO has determined that in Trading Interval t the Non-Scheduled Generator is in Commercial Operation under clause 4.13.10B and one of the following <u>applies:</u>~~applies—~~

…

ii. for a Demand Side Programme, Y equals the DSM Reserve Capacity Price divided by 400<u>; and</u>~~.~~

iii. subject to clause<u>s</u> 4.26.1(b)(i) and <u>4.26.1(b)</u>(ii), for a Facility f in the Trading Interval t, Y <u>equals:</u>~~equals—~~

…

(c) The refund factor $RF(f, t)$ for a Facility f in the Trading Interval t is the lesser <u>of:</u>~~of—~~

i. six; and

ii. the greater of the dynamic refund factor $RF\ dynamic(t)$ as determined under clause 4.26.1(d) and the minimum refund factor $RF\ floor(f, t)$ as determined under clauses 4.26.1(f) or 4.26.1(g) as appropriate.

(d)   The dynamic refund factor RF dynamic(t) in the Trading Interval t is determined as ~~follows:~~follows—

$$RF \text{ dynamic}(t) = 11.75 - \left(\frac{5.75}{750}\right) \times \sum_{f \in F} \text{Spare}(f, t)$$

where:~~where~~—

i.   F is the set of Facilities for which Market Participants hold Capacity Credits in the Trading Interval t and f is a Facility within that set; and

ii.   Spare(f, t) is the available capacity related to the Capacity Credits of the Facility f, which is not dispatched in the Trading Interval t determined in accordance with clause 4.26.1(e).~~4.26.1(e)~~—

(e)   For a Facility f in the Trading Interval t, Spare(f, t) is determined as ~~follows:~~follows—

i.   for each Scheduled Generator, the greater of zero and:~~and~~—

1.   the MW quantity of Capacity Credits; less

…

ii.   for each Non-Scheduled Generator is ~~z~~Zero; and

iii.   for each Demand Side Programme f which has a Reserve Capacity Obligation Quantity in the Trading Interval t, Spare(f,t) is equal to:~~determined as follows~~—

$$\max\{0, \min\left(\text{RCOQ}(f,t), (\text{DSP Load}(f,t) - \text{DSP MinLoad}(f,t))\right)\}$$

~~DSP A(t)= max {0, min (RCOQ(t),(DSP Load(t)-DSP MinLoad(t)))}~~

where:~~where~~—

1.   ~~DSP A(t) is the total available quantity of consumption which can be reduced via the dispatch of the Demand Side Programme in MW in the Trading Interval t;~~[Blank]

2.   RCOQ(f,t) is the ~~Demand Side Programme's~~ Reserve Capacity Obligation for the Demand Side Programme f in the Trading Interval t;

3.   DSP Load(f,t) is the ~~Demand Side Programme's~~ Demand Side Programme Load for the Demand Side Programme f in the Trading Interval t as determined under clause 6.16.2 multiplied by two so as to be a MW quantity; and

4.   DSP MinLoad(f,t) is the sum of the Minimum Consumption of each Associated Load of the Demand Side Programme f in MW in the Trading Interval t~~;~~.

(f)   Subject to clause 4.26.1(g), the minimum refund factor RF floor(f, t) in the Trading Interval t is determined as ~~follows:~~follows—

$$RF \text{ floor}(f, t) = 1 - 0.75 \times \text{Dispatchable}(f, t)$$

where:~~where~~—

i.   Dispatchable(f, t) for a Facility f in the Trading Interval t is its portion of capacity which is not subject to a Forced Outage over the 4,320

previous Trading Intervals pt prior to and including the Trading Interval t and is determined as <u>follows:</u><s>follows</s>

$$\text{Dispatchable}(f,t) = 1 - \left(\frac{\sum_{pt \in PT} FO(f,pt)}{\sum_{pt \in PT} CC(f,pt)} \right)$$

<u>where:</u><s>where</s>

1. PT is the set of 4<s>,</s>320 Trading Intervals immediately prior to and including the Trading Interval t and pt is a Trading Interval within that set;

2. FO(f,<s>,</s>pt) is the quantity of Forced Outage for a Facility f in the Trading Interval pt, as recorded in accordance with clause 7.13.1A(b); and

3. CC(f,<s>,</s>pt) is the number of Capacity Credits a Market Participant holds for Facility f in the Trading Interval pt; and

(g) RF floor(f,<s>,</s>t) is equal to one in the Trading Interval t for a Facility f to which any of the following <u>applies:</u><s>applies</s>

…

4.26.1B. AEMO must calculate the Generation Reserve Capacity Deficit Refund for each Market Participant for each Trading <u>Interval</u><s>Month</s> as the sum of the Facility Reserve Capacity Deficit Refunds for the Trading <u>Interval</u><s>Month</s> for each Facility registered to the relevant Market Participant, excluding any registered Demand Side Programmes.

4.26.5. To support the calculation of the values of RCOQ(p,<s>,</s>d,t) and RCOQ(f,<s>,</s>d,t) required by clause 4.26.2:

(a) AEMO must record the following temperature data for generation systems (other than Intermittent Generators) in respect of which Market Participants hold Capacity Credits and which, in accordance with clause 4.10.1(e)(iv), indicated a valid method for measuring ambient temperature:

i. the publicly available maximum daily temperature associated with a Facility for which temperature is defined in accordance with clause 4.10.1(e)(iv)(1); and

ii. temperatures measured by the SCADA system for Facilities for which temperature is defined in accordance with clause 4.10.1(e)(iv)(2).

(b) [Blank]

6.16B.1. The Portfolio Upwards Out of Merit Generation in a Trading Interval for the Balancing Portfolio equals:

(a) subject to clause 6.16B.1(b), the sum of any Sent Out Metered Schedules for Facilities in the Balancing Portfolio less the Maximum Theoretical Energy Schedule for the Balancing Portfolio; or

(b) zero if:

i. the Economic Regulation Authority has notified AEMO under clause 7.10.8 that Synergy has not adequately or appropriately

complied with a Dispatch Order in respect of the Balancing Portfolio; or

ii.   the sum of any Sent Out Metered Schedules for Facilities in the Balancing Portfolio less the Maximum Theoretical Energy Schedule for the Balancing Portfolio is less than the sum of:

…

6.16B.2.   The Portfolio Downwards Out of Merit Generation in a Trading Interval for the Balancing Portfolio equals:

(a)   subject to clause 6.16B.2(b), the Minimum Theoretical Energy Schedule less the sum of any Sent Out Metered Schedules for Facilities in the Balancing Portfolio; or

(b)   zero if:

i.   the Economic Regulation Authority has notified AEMO under clause 7.10.8 that Synergy has not adequately or appropriately complied with a Dispatch Order; or

ii.   the Minimum Theoretical Energy Schedule of the Balancing Portfolio less the sum of any Sent Out Metered Schedules for Facilities in the Balancing Portfolio is less than the sum of:

…

7.6.1D.   System Management may only issue Dispatch Instructions under:

…

(c)   clause 7.6.1C(d) in priority to clause 7.6.1C(c); and~~,~~

(cA)   clause 7.6.1C(e) in priority to clause 7.6.1C(d)~~;~~.

…

7.7.2.   Each Dispatch Instruction ~~issued to a Non-Balancing Facility or to a Balancing Facility Out of Merit~~ under clause 7.6.1C(c) or 7.6.1C(e) must:

(a)   be consistent with the latest data described in clause 7.1.1 available to System Management at the time the Dispatch Instruction is determined;

(b)   be applicable to a specific Registered Facility; and

(c)   be issued at a time that takes into account the Standing Data minimum response time for the Registered Facility.

7.10.8.   Where AEMO (in its capacity as System Management) prepares a report under clause 7.10.7, AEMO must promptly provide that report to the Economic Regulation Authority. Where the Economic Regulation Authority receives such a report, if the Economic Regulation Authority determines that (as applicable):~~(as applicable)~~—

(a)   the relevant Market Participant has not adequately or appropriately complied with a Dispatch Instruction; or

(b)   Synergy has not adequately or appropriately complied with a Dispatch Order, then

the Economic Regulation Authority must promptly notify AEMO.

7.11.3. Dispatch Advisories must be released as soon as practicable after System Management becomes aware of a situation requiring the release of a Dispatch Advisory and <u>System Management</u> must update the Dispatch Advisory as soon as possible after new, relevant information becomes available to it.

10.2.2. The classes of confidentiality status are:

…

(c) Rule Participant Market Restricted, in which case the relevant information or documents may only be made available to:

    i. a specific Rule Participant;

    ii. the IMO;

    iiA. <u>AEMO (including in its capacity as System Management);</u>

    iiB. <u>[Blank]</u>[blank];

    …

    v. other Regulatory or Government Agencies in accord<u>ance</u> with applicable laws;

(d) Rule Participant Dispatch Restricted, in which case the relevant information or documents may only be made available <u>to:</u>to—

    i. a specific Rule Participant;

    ii. <u>[Blank]</u>[blank];

    …

    vi. other Regulatory or Government Agencies in accord<u>ance</u> with applicable laws;

(e) System Management Confidential, in which case the relevant information or documents may only be made available to:

    …

    v. other Regulatory or Government Agencies in accord<u>ance</u> with applicable laws;

(f) IMO <u>and AEMO</u> Confidential, in which case the relevant information or documents may only be made available to:

    i. the IMO;

    ii. the Electricity Review Board;

    iiA. AEMO (including in its capacity as System Management);

    iiB. the Rule Change Panel;

    iii. the Economic Regulation Authority; and

    iv. other Regulatory or Government Agencies in accord<u>ance</u> with applicable laws; and

(g) Rule Participant Network Restricted, in which case the relevant information or documents may only be made available to:

…

    vii. any other Regulatory or Government Agencies in accordance with applicable laws.

10.3.2. Subject to clause 10.4.2, the IMO, the Rule Change Panel, AEMO or the Economic Regulation Authority must not require a fee for information or documents released by the IMO, the Rule Change Panel, AEMO or the Economic Regulation Authority via the Market Web Site.

10.5.1. AEMO must set the class of confidentiality status for the following information under clause 10.2.1, as Public and AEMO must make each item of information available from or via the Market Web Site after that item of information becomes available to AEMO:AEMO

   (a) the following Market Rule and Market Procedure information and documents:documents

    …

    vii. information on any changes to any Market Procedures that have been made in accordance with the Procedure Change Process but are yet to commence or to be included in the current version of the applicable Market Procedure, including the date those Market Procedure changes will take effectaffect;

    …

  …

   (c) details of all Rule Participants including:including

    …

  …

   (e) details of bid, offer and clearing price limits as approved by the Economic Regulation Authority including:including

    …

    iii. the Alternative Maximum STEM Price.;

    …

   (f) the following Reserve Capacity information (if applicable):(if applicable)

    …

    iiiA. for each Market Participant that was assigned Certified Reserve Capacity, the level of Certified Reserve Capacity assigned to each to Facility for each Reserve Capacity Cycle;

    …

    vi. for each Special Price Arrangement for each Registered Facility:Facility

    …

    viii. reports summarising the outcomes of Reserve Capacity Tests and reasons for delays in those tests, as required by clause 4.25.11; and

ix.   the following annually calculated and monthly adjusted ratios:~~ratios~~

      1.   NTDL_Ratio as calculated in accordance with Appendix 5, ~~STEP~~Step 8;

      2.   TDL_Ratio as calculated in accordance with Appendix 5, ~~STEP~~Step 8; and

      3.   Total_Ratio as calculated in accordance with Appendix 5, ~~STEP~~Step 10;~~ and~~

x.   the following information identified for a Reserve Capacity Cycle under the Relevant Level Methodology:~~Methodology~~

      1.   the Existing Facility Load for Scheduled Generation for each Trading Interval in the five year period determined under ~~S~~step 1(a) of Appendix 9~~the Relevant Level Methodology~~; and

      2.   the 12 Trading Intervals occurring on separate Trading Days with the highest Existing Facility Load for Scheduled Generation for each 12 month period in the five year period; and

xi.   for a Facility that has had its Capacity Credits cancelled for the Capacity Year, the information specified in clause 4.20.12(a), 4.20.12(c) and 4.20.12(d)~~;~~.

(g)   the Ancillary Service report referred to in clause 3.11.11;

(h)   for each Trading Interval in each completed Trading Day in the previous 12 calendar months:~~months~~

      …

(i)   the following STEM summary information:~~information~~

    i.   for each Trading Interval in each completed Trading Day in the previous 12 calendar months:~~months~~

      …

    ii.   for each Trading Interval in each Trading Day during the 12 calendar months, before the end of the seventh day from the start of the Trading Day:~~Day~~

      …

(iA)   the following Balancing summary information:~~information~~

    i.   for each Trading Interval in each completed Trading Day in the previous 12 calendar months:~~months~~

      ...

    ii.   for each Trading Interval in each completed Trading Day in the previous 12 calendar months, before the end of the seventh day from the start of the Trading Day:~~Day~~

      ...

(iB)   the following LFAS summary information for each Trading Interval in each
         completed Trading Day in the previous 12 calendar months:months

         …

…

(j)   for each Trading Interval in each completed Trading Day in the previous 12
         calendar months the following dispatch summary information:information

         …

…

(l)   Loss Factors for each network connection point in accordance with
         sectionclause 2.27;

(p)   details of resolved Disputes, including all Public Information associated with
         the dispute, but not aspects of the resolution or information associated with
         the resolution which, in accordance with its confidentiality status class,
         cannot be made public;

…

(r)   pPublic rReports pertaining to the Wholesale Electricity Market issued
         by:by

         …

…

(v)   summary information pertaining to the account maintained by AEMO for
         market settlement for the preceding 24 calendar months, including:;

         …

         iv.   Service Fee Settlement Amount paid to AEMO, the IMO and the
                 Economic Regulation Authority;

…

(w)   the STEM Price for each Trading Interval of the current Trading Month for
         which STEM auction results have been released to Market Participants;

…

(y)   as soon as practicable after a Trading Interval:Interval

         …

…

(z)   as soon as practicable after real-time:real-time

         i.   the total generation; and

         ii.   the total Spinning Reserve.;

         where these values are not required to be maintained on the Market Web
         Site after their initial publication;

(zA)   the current Tolerance Range determined by System Management in
         accordance with clause 2.13.6D; and

(zB)   any Facility Tolerance Ranges determined by System Management in accordance with clause 2.13.6E, and, if applicable, any Facility Tolerance Ranges which System Management has varied in accordance with clause 2.13.6H;

…

(zD)   [Blank];

…

(zG)   documentation of the functionality of:~~of~~

     i.   any software used to run the Reserve Capacity Auction;

     ii.   the STEM Auction software; and

     iii.   the Settlement System software; ~~and~~

(zH)   information relating to Commissioning Tests; ~~and~~

…