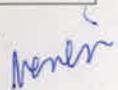


MINUTES OF THE 89th MEETING OF THE RULES CHANGE COMMITTEE	
<b>Meeting Date &amp; Time:</b>	02 July 2014 – 09:00 AM to 2:45 PM
<b>Meeting Venue:</b>	PEMC, 18th Floor, Board Room Robinsons Equitable Tower, Ortigas Center, Pasig City
<b>Attendance List</b>	
<b>In-Attendance</b>	<b>Not In-Attendance</b>
<b>Rules Change Committee Members</b>	
Rowena Cristina L. Guevara --Chairperson/ Independent --UP Francisco L. R. Castro, Jr. --Independent--Tensaiken Consulting Maila Lourdes G. De Castro --Independent Concepcion I. Tanglao --Independent Ambrocio R. Rosales --System Operator --NGCP Joselyn D. Carabuena --Generation -- PSALM Jose Ferlino P. Raymundo --Generation -- SMC Global Theo Cruz Sunico -- Generation -- 1590 EC Ciprinilo C. Meneses --Distribution, MERALCO Jose P. Santos --Distribution --INEC Gilbert A. Pagobo -- Distribution --MECO Lorreto H. Rivera --Supply --TPEC Sulpicio C. Lagarde, Jr. --Distribution --CENECO Isidro E. Cacho, Jr. -- Market Operator --PEMC	
<b>Rules Change Committee Alternate Members</b>	
Ernesto N. Padilla, Jr. --TPEC	
<b>PEMC – Market Assessment Group (MAG)</b>	
Geraldine A. Rodriguez Romellen C. Salazar Divine Gayle C. Cruz Hiyasminh Aleia D. Dagum	
<b>ERC Observer(s)</b>	
Nelson Canlas	
<b>DOE Observer(s)</b>	
Ferdinand B. Binondo	
<b>Others Present</b>	
Jordan Rel C. Orillaza Jaime V. Mendoza	



There being a quorum, Chairperson Dr. Rowena Cristina L. Guevara called the meeting to order at 9:00 AM.

1  
2 **1. Adoption of the Proposed Agenda**  
3

4 The Proposed Agenda for the 88th RCC Meeting was approved as amended, with the  
5 inclusion of a presentation from PEMC on the Secondary Price Cap, as well as the Proposed  
6 Changes to the Manual on the Management of Procedure for Excess Generation.  
7

8 Before proceeding with the discussions, Dr. Guevara welcomed Mr. John Padilla, who  
9 recently received confirmation on his appointment as the official alternate for TPEC.  
10

11  
12 **2. Reading of the Minutes of Meeting**  
13

14 **o Minutes of the 88th RCC Meeting**  
15

16 The RCC reviewed the Minutes of the previous meeting, and upon motion duly made and  
17 seconded, approved the same as amended. Below are the amendments made on the  
18 subject Minutes of meeting.  
19

- 20 ✓ Page 1: There being a quorum, Chairperson Dr. Rowena Cristina L. Guevara  
21 called the meeting to order at 9:030 AM.  
22 ✓ Page 14, line 14: She reminded the RCC that the MRU has specific  
23 conditions when it should be used that which are different from when a plant  
24 is dispatched during market suspension.  
25  
26

27 **3. Business Arising from the Previous Meeting**  
28

29 **a) Proposed Amendments to the WESM Rules on the Adoption of the**  
30 **Disconnection Policy: Comments from Retail Electricity Suppliers Association**  
31 **(RESA)**  
32

33 The RCC received comments from RESA relative to RCC's invitation to comment on  
34 the Proposed Amendments to the WESM Rules on Disconnection Policy. Upon review of  
35 RESA's comments, the RCC agreed that the submission made by RESA is already in the  
36 nature of a proposal as it recommends for parallel provisions on Disconnection in the  
37 Retail Rules. The submission, however, fell short of the requirements of the RCC (i.e  
38 RCC forms together with a discussion paper).  
39

40 Noting the RCC's remarks on the submission of RESA, Ms. Lorreto H. Rivera  
41 expressed that she will discuss the matter with RESA. She recalled that in one of the  
42 previous RCC meetings when the Generators' proposal on Disconnection was being  
43 discussed, she raised the issue on the disconnection of Contestable Customers with  
44 multiple Suppliers. She said that what RESA really intended to do was to include an  
45 amendment that would address the issue in the same proposal being crafted by the  
46 Generators, through the submission of comments on the Generators' proposal. In view  
47 however, of the RCC's comments aired in this meeting, that the submission by RESA  
48 is actually a proposal rather than mere comments to the proposed amendments to the  
49 WESM Rules, and with the RCC's suggestion to convert said comments into a full blown

1 proposal, Ms. Rivera expressed that she will raise the matter with RESA in order to get a  
2 consensus on the way forward on this matter.

3  
4 Moving forward with the discussion, the RCC reviewed the proposal line by line and  
5 made further revisions as reflected below:  
6

Clause	From	To
Clause 1.3.3	c) Ensure that the Notice of Power Interruption is served upon notification from or through the Market Operator in writing prior to <i>Disconnection of a WESM members</i> that fail to comply with their financial and technical obligations under the OATS Rules, the Grid Code, the Distribution Code, the WESM Rules, their existing contracts with other <i>WESM members (including bilateral power supply contracts, transmission service agreement, connection agreement, among others)</i> , and DOE Circulars 2010-05-0006 and 2010-08-0010, as specified in clause 2.9;	c) Ensure that the Notice of Power Interruption is served upon notification from or through the Market Operator in writing prior to <i>Disconnection of a WESM members</i> that fail to comply with their financial <del>and technical</del> obligations under the OATS Rules, the Grid Code, the Distribution Code, the WESM Rules, their existing contracts with other <i>WESM members (including bilateral power supply contracts, transmission service agreement, connection agreement, among others)</i> , and DOE Circulars 2010-05-0006 and 2010-08-0010, as specified in clause 2.9;
Clause 2.7.2.1	If a <i>Trading Participant</i> who is either a <i>Direct WESM member</i> or an <i>Indirect WESM member</i> receives a suspension notice from the <i>Market Operator</i> in accordance with any provision of the <i>WESM Rules</i> , that <i>Trading Participant</i> is suspended from participation in the <i>spot market</i> unless and until the <i>Market Operator</i> declares the suspension notice to be revoked in accordance with clause 3.15.7, and shall be disconnected by the NGCP in accordance with clause 2.9. For avoidance of doubt, the effectivity of suspension is upon disconnection of the <i>WESM member</i> .	If a <i>Trading Participant</i> who is either a <i>Direct WESM member</i> or an <i>Indirect WESM member</i> receives a suspension notice from the <i>Market Operator</i> in accordance with any provision of the <i>WESM Rules</i> , that <i>Trading Participant</i> is suspended from participation in the <i>spot market</i> unless and until the <i>Market Operator</i> declares the suspension notice to be revoked in accordance with clause 3.15.7, and shall be disconnected by the <b>Network Service Provider NGCP</b> in accordance with clause 2.9. For avoidance of doubt, the effectivity of suspension is upon disconnection of the <i>WESM member</i> .
Clause 2.9.2.1	The Generation Company, Suppliers or Wholesale Aggregator, as the requesting party, shall:  xxx	The <b>Market Operator</b> , Generation Company, Suppliers or Wholesale Aggregator, as the requesting party, shall:  xxx

	<p>b) upon receipt of the Notice of Disconnection from the requesting party, the Market Operator shall notify the NGCP in writing within (x) day and not less than seven (7) working days in advance prior to the execution of the said disconnection using the form Appendix [*], with proof of receipt of the <i>WESM member</i> of the Notice of Disconnection.</p> <p>The Market Operator may also initiate the above disconnection procedure.</p>	<p>b) upon receipt of the Notice of Disconnection from the requesting party, the Market Operator shall notify the <b><u>Network Service Provider NGCP</u></b> in writing within (x) day and not less than seven (7) working days in advance prior to the execution of the said disconnection using the form Appendix [*], with proof of receipt of the <i>WESM member</i> of the Notice of Disconnection.</p> <p>The Market Operator may also initiate the above disconnection procedure.</p>
Clause 2.9.2.2	The NGCP shall confirm in writing the issuance of the Notice of Disconnection within five (5) days prior to the actual implementation of the disconnection of service.	The <b><u>Network Service Provider NGCP</u></b> shall confirm in writing the issuance of the Notice of Disconnection within five (5) days prior to the actual implementation of the disconnection of service.
Clause 2.9.2.3	<p>Within five (5) days after receipt of the confirmation of the Notice of Disconnection the following strictly followed:</p> <p>(a) the System Operator shall be responsible for the execution of the disconnection of service of a WESM member:</p>	<p>Within five (5) days after receipt of the confirmation of the Notice of Disconnection the following strictly followed:</p> <p>(a) the <b><u>System Operator Network Service Provider</u></b> shall be responsible for the execution of the disconnection of service of a WESM member:</p>
Clause 2.9.2.4	If the Notice of Disconnection issued by the <i>Market Operator</i> was lifted within the five (5) day period prior to the scheduled disconnection date, the <i>Market Operator</i> shall immediately notify in writing the NGCP of the lifting of suspension, and the NGCP shall then no longer execute the disconnection.	If the Notice of Disconnection issued by the <i>Market Operator</i> was lifted within the five (5) day period prior to the scheduled disconnection date, the <i>Market Operator</i> shall immediately notify in writing the <b><u>Network Service Provider NGCP</u></b> of the lifting of suspension, and the <b><u>NGCP Network Service Provider</u></b> shall then no longer execute the disconnection.
Clause 2.9.4.1	<b><u>xxx</u></b>	<b><u>xxx</u></b>

	<p>b) Recalled Notice of Disconnection by the requesting person or entity as a result of a Special Payment Agreement or Restructuring Agreement entered into by the contracting parties five (5) days prior to the scheduled disconnection date. The requesting party shall immediately inform the Market Operator of the recall using the pro-forma Request for Disconnection Recall in Appendix [*] prior to the scheduled disconnection date in order for the NGCP to defer the execution of such disconnection;</p> <p><b>XXX</b></p> <p>d) In the case of the <i>Market Operator as the requesting party</i>, the disconnected <i>Customer</i> has remedied the default event, or satisfied the margin call or has complied with the membership criteria or requirement that gave rise to its suspension. The <i>Market Operator</i>, as the requesting party shall immediately inform NGCP of the registration of such person or entity to the WESM using the pro-forma Request for Disconnection Recall in Appendix [*] prior to the scheduled disconnection date in order for the NGCP to defer the execution of such disconnection.</p>	<p>b) Recalled Notice of Disconnection by the requesting person or entity as a result of a Special Payment Agreement or Restructuring Agreement entered into by the contracting parties five (5) days prior to the scheduled disconnection date. The requesting party shall immediately inform the Market Operator of the recall using the pro-forma Request for Disconnection Recall in Appendix [*] prior to the scheduled disconnection date in order for the <b><u>Network Service Provider NGCP</u></b> to defer the execution of such disconnection;</p> <p><b>XXX</b></p> <p>d) In the case of the <i>Market Operator as the requesting party</i>, the disconnected <i>Customer</i> has remedied the default event, or satisfied the margin call or has complied with the membership criteria or requirement that gave rise to its suspension. The <i>Market Operator</i>, as the requesting party shall immediately inform <b><u>the NGCP Network Service Provider</u></b> of the registration of such person or entity to the WESM using the pro-forma Request for Disconnection Recall in Appendix [*] prior to the scheduled disconnection date in order for the <b><u>NGCP Network Service Provider</u></b> to defer the execution of such disconnection.</p>
Clause 2.9.5.2	<p>Within two (2) days after the receipt of the Notice of Reconnection from the Market Operator, the NGCP shall execute the Reconnection of service. The Market Operator in coordination with the NGCP shall issue Market advisory for such reconnection.</p>	<p>Within two (2) days after the receipt of the Notice of Reconnection from the Market Operator, the <b><u>NGCP Network Service Provider</u></b> shall execute the Reconnection of service. The Market Operator in coordination with the <b><u>NGCP Network Service Provider</u></b> shall issue Market advisory for such reconnection.</p>
Clause 2.9.5.6	<p>In all instances, a reconnection fee</p>	<p>In all instances, a reconnection fee</p>

	shall be paid by the disconnected <i>Customer</i> to the NGCP prior to reconnection.	shall be paid by the disconnected <i>Customer</i> to the <b>NGCP Network Service Provider</b> prior to reconnection.
Clause 3.14.11.4	If the default event results in the failure of a <i>Customer</i> to comply with its required financial obligations to the <i>Generation Company</i> , Independent Power Producer or Wholesale Aggregators, as provided under their existing bilateral contracts, the concerned <i>Generation Company</i> , Independent Power Producer or Wholesale Aggregators may initiate disconnection of the <i>Customer</i> in accordance with clause 2.9. This remedy shall be available to the affected <i>Generation Company</i> , Independent Power Producer or Wholesale Aggregators notwithstanding the inaction of the <i>Market Operator</i> to initiate disconnection under clause 3.14.11.2(b) and 3.14.11.3(c).	If the default event results in the failure of a <i>Customer</i> to comply with its required financial obligations to the <i>Generation Company</i> , <b>Independent Power Producer Suppliers</b> or Wholesale Aggregators, as provided under their existing bilateral contracts, the concerned <i>Generation Company</i> , <b>Independent Power Producer Suppliers</b> or Wholesale Aggregators may initiate disconnection of the <i>Customer</i> in accordance with clause 2.9. This remedy shall be available to the affected <i>Generation Company</i> , <b>Independent Power Producer Suppliers</b> or Wholesale Aggregators notwithstanding the inaction of the <i>Market Operator</i> to initiate disconnection under clause 3.14.11.2(b) and 3.14.11.3(c).
Clause 2.9.1.1	The <i>Market Operator</i> may issue a Notice of Disconnection to a <i>Customer</i> , in case of suspension and deregistration of a <i>WESM member</i> under the WESM Rules.	The <i>Market Operator</i> may issue a Notice of Disconnection to a <i>Customer</i> , in case of suspension <b>and deregistration</b> of a <i>WESM member</i> under the WESM Rules.
Clause 2.9.1.3	A <i>Generation Company</i> , Independent Power Producer or Wholesale Aggregator may issue a Notice of Disconnection to a <i>Customer</i> in any of the following circumstances:  a) Failure of the <i>Customer</i> to comply with the required financial and technical to the <i>Generation Company</i> , Independent Power Producer or Wholesale Aggregators, as provided under their existing contracts; and  XXX	A <i>Generation Company</i> , <b>Independent Power Producer Supplier</b> or Wholesale Aggregator may issue a Notice of Disconnection to a <i>Customer</i> in any of the following circumstances:  a) Failure of the <i>Customer</i> to comply with the required financial <b>and technical</b> obligations to the <i>Generation Company</i> , <b>Independent Power Producer Supplier</b> or Wholesale Aggregators, as provided under their existing contracts; and

		XXX
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1  
2 On the suggested revision under Clause 2.9.2.1, Mr. Isidro Cacho raised that he will  
3 have to verify first the number of days within which MO shall notify the Network Service  
4 Provider regarding the disconnection. He likewise expressed that he shall consult with  
5 PEMC legal whether or not the MO shall be included as requesting party.

6  
7 The RCC confirmed its concurrence with the rest of the proposed amendments based on  
8 previous RCC discussions on the matter.

9  
10 Following the discussions above, the RCC approved the proposed amendments to the  
11 WESM Rules on the Disconnection Procedures as revised, subject to clarifications  
12 made by the MO and its endorsement to the PEM Board for its approval.

13  
14  
15 **b) Comments on the Proposed Amendments to the WESM Rules and WESM  
16 Manuals on Offer Price Cap and Price Dampener**

17  
18 ➤ **Comments from the DOE**

19  
20 Dr. Guevara requested Mr. Ferdinand B. Binondo to discuss the comments of the DOE  
21 on the subject proposal.

22  
23 Mr. Binondo discussed the comments, highlighting that the DOE does not have any  
24 objection to the proposal. However, he stated that the DOE opined that the offer cap  
25 should be incorporated in the Price Determination Methodology (PDM) and should be  
26 subject to the ERC's approval, since the PDM sets the pricing methodology in the  
27 WESM. Mr. Binondo added that as observed by the DOE, the proposed triggers did not  
28 consider the off-peak period intervals in the intervals considered as basis for the defined  
29 trigger event ("Trigger"), and thus suggested that the RCC further study the effect to  
30 WESM prices of including the same.

31  
32 Dr. Guevara inquired if it is possible for the Market Operator (MO) to conduct a  
33 simulation to address the DOE's comments on the Triggers. Mr. Cacho responded that a  
34 simulation may no longer be necessary as the WESM already has actual experience on  
35 this during the November-December 2013 period. This was duly noted by the RCC.

36  
37 ➤ **Comments from PEMC**

38  
39 Dr. Guevara noted that the comments received from PEMC relate to the compliance with  
40 the ERC which already issued a secondary price cap mechanism.

41  
42 Mr. Jose Ferlino Raymundo mentioned the on-going efforts of the Tripartite Committee,  
43 composed of the DOE, the ERC and PEMC, on the matter, including the public  
44 consultation that will be conducted by the ERC. Thus, he opined that it would be better to  
45 await the result of the action of the Tripartite Committee and the result of the public  
46 consultation.

47  
48 Relative to the Secondary Price Cap, Mr. Nelson Canlas stated that the triggers were  
49 computed based on the Load Weighted Average Price (LWAP). He noted that since the

*penchi*

1 computation is based on the load side, resulting values are relatively high. He  
2 commented that triggers, should be computed using Generator Weighted Average Price  
3 (GWAP). The comments were duly noted by the RCC.  
4

5 To provide the RCC with the relevant information about the ERC's Order on the  
6 Secondary Price Cap and to guide the RCC in its deliberations, PEMC was requested to  
7 already advance its presentation on the Secondary Price Cap at this stage of the RCC's  
8 discussion.  
9

10 Below are the discussions which transpired relative to the presentation of Mr. Cacho on the  
11 Secondary Price Cap.  
12

- 13 • Dr. Guevara inquired from the ERC on the logic for using the average price for the  
14 last four (4) years in computing the threshold level. Mr. Canlas responded that the  
15 amount was computed this way because the prices used for the period covered  
16 already reflect actual prices, based on historical prices for the summer months of  
17 April-June 2010-2013.  
18
- 19 • Mr. Canlas stated that the 45-day extension in the implementation of the secondary  
20 cap is due to the anticipated El Nino phenomenon and the low power supply until  
21 November 2014 (based on the power output provided by the DOE), among other  
22 things. He likewise mentioned that the ERC directed PEMC to conduct a study and  
23 come out with permanent mitigating measures. He noted that the effectivity of the  
24 secondary price cap is only until August 9, and will be subject to public consultation  
25 on July 23 to provide the stakeholders with an opportunity to comment on the matter.  
26 He then stated that the ERC will use as basis for its decision the result of the PEMC  
27 study and whatever can be solicited from stakeholders during the public consultation,  
28 on whether or not to continue with the mitigating measures.  
29
- 30 • Ms. Joselyn Carabuena inquired if the settlement for additional compensation is  
31 similar to that of the MRU. Mr. Cacho responded that the settlement for both is the  
32 same. Ms. Carabuena additionally raised why the computation of additional  
33 compensation is limited to the cost of fuel and variable Operating and Maintenance  
34 (O&M) only, stating that if fuel and O&M cost is less than the generation cost, the  
35 generator will be on the losing side. A similar concern was raised by Mr. Theo  
36 Sunico, who expressed that if oil-based plants will be compensated only for their fuel  
37 costs, then Generators will have no source of money for the repair of old plants that  
38 frequently break down, stating further that the capacity factor of oil-based plants is  
39 only 6-7% in a year. He added that while practices for other jurisdictions have been  
40 cited relative to the computation of additional compensation, it can be noted that  
41 these other jurisdictions have much higher price caps. He said that he acknowledges  
42 that price caps are supposed to mitigate prices to look out for the interest of  
43 Consumers, however, he commented that the entire industry's interests should be  
44 looked into as a whole, such that price caps imposed would allow the generation  
45 business to continue.  
46
- 47 • Mr. Sulpicio Lagarde raised his issues regarding line rental payments by the Electric  
48 Cooperatives (EC) that are covered by bilateral contracts, inquiring why their  
49 contracts were not considered in the computation of the price caps. Mr. Cacho, in  
50 response, opined that the regulator, when setting the secondary cap, looked at all  
51 sides, including consumers and their contracts. Mr. Lagarde further expressed his  
52 concerns about having under generation caused by Generators not offering at their  
53 maximum available capacity, which hits the Distribution Utilities (DUs) and Electric

1 Cooperatives (ECs). Relatively, Mr. Gilbert Pagobo inquired on how possibly the  
2 Customers can be fully protected such that only their market exposure would be  
3 subject to line rental. In response to the concerns raised, Mr. Canlas stated that as  
4 far as the line rental is concerned, the ERC looks only at the actual losses during the  
5 trading interval. He added that for DUs and ECs to be protected from line rental, they  
6 must ensure that their supply contracts should no longer include losses as payments  
7 on this , as this is already included in their WESM bill. He likewise suggested having  
8 their IPPs locate their meters at the load side. Mr. Canlas finally stated that if the DUs  
9 would consider the flowback amount, a huge chunk of which corresponds to line  
10 rental, they will note that the impact of line rental in their bill will be minimal.  
11

- 12 • Ms. Carabuena stated that the way she understood the price cap, is that it is aimed  
13 at protecting the Consumers. She then inquired on where the market will source the  
14 amount that will be paid to the Generators for the additional compensation. Mr.  
15 Cacho responded that the amount is recovered from the Consumers, and is applied  
16 on a pro-rated basis using MQ.  
17
- 18 • Ms. Rivera raised her concern regarding the real-time announcement of breaches,  
19 on whether it is something that is final or is still subject for adjustments. Mr. Cacho  
20 responded that the real-time breaches being referred to in the context of Secondary  
21 Price Caps are only potential or indicative, and are still subject for verification. Ms.  
22 Rivera expressed that Suppliers find it challenging to be as such because they are  
23 covered by contracts and sometimes they have triggers that are price and situation  
24 driven. She added that it is difficult explaining to Customers taking back what they  
25 have previously announced as a breach. She commented that while real-time  
26 breaches are just potential breaches that may be changed at the end of the billing  
27 month, damage has been done to either the Supplier or the Customer once the  
28 breach has been announced by the MO. She expressed that the matter will be raised  
29 by the Suppliers during the public consultation to be conducted by the ERC.  
30
- 31 • Dr. Guevara inquired from the MO on the level of accuracy of estimated prices when  
32 it announces a breach, as such would provide a certain level of confidence among  
33 Participants. Mr. Cacho responded that the accuracy is probably high, about 95%.  
34 However, he expressed that he will have to verify the number using actual data and  
35 provide the information to the RCC upon validation.  
36
- 37 • Mr. Raymundo inquired as to the price that will be applied during periods when  
38 congestion occurs, such as in the Dasmarinas substation, where negative prices are  
39 observed. As an initial answer, Mr. Cacho stated that the price substitution  
40 methodology (PSM) is applied, but again, he expressed that he would have to verify  
41 the information and provide the answer to the RCC later.  
42

43 Noting the comments on the Secondary Price Cap presentation by Mr. Cacho, the RCC  
44 proceeded with the discussion on the comments submitted on the subject proposal.  
45

#### 46 **Comments of CEBECO II**

47  
48 The comments of CEBECO II were noted by the RCC. Dr. Guevara likewise stated that  
49 on item 2 of the comments - on the recommendation for the separation of the Luzon and  
50 Visayas Grids-- the RCC may not be in the position to act on the suggestion of  
51 CEBECO II as such is not part of the functions of the RCC and may necessitate some  
52 policy directions from the DOE.  
53

**Comments of Dr. Peter Lee U**

The Secretariat clarified that the comments submitted by Dr. U were of his own and not that of the Market Surveillance Committee (MSC). The RCC noted the comments of Dr. U that the proposed Aboitiz dampener will result in higher prices than the ERC dampener but would probably result to lower simulated prices than actual historical prices. He added that it is not clear on how the secondary price cap of P6,245/MWh and the trigger of P8,186/MWh was arrived at.

**➤ PEMC's Presentation on the Secondary Price Cap**

Mr. Cacho gave a presentation on the Secondary Price Cap of the ERC upon the RCC's request. The presentation covered the background, conceptual framework, parameters, and the operational mechanisms of the Secondary Price Cap.

Following are the highlights of the presentation:

**✓ Background**

- ❖ Emanated from ERC Resolution No. 08 of 2014, issued on 06 May 2014, with effectivity on 11 May 2014
- ❖ Secondary Cap amounting to P6,245/MWh during supply months of May and June 2014
- ❖ Oil-based plants' entitlement to additional compensation
- ❖ A study on mitigating measures to be conducted by PEMC.

**✓ Methodology**

- ❖ Metered Quantity multiplied by Ex-post Clearing Price or Stand-by Capacity Price (pay as bid), whichever is higher
- ❖ 72-hour rolling average, updated every hour
- ❖ Implemented at a system level (considers Luzon and Visayas Generator prices)
- ❖ Secondary cap computed using ex-ante (RTD) prices
- ❖ Threshold level set at P8,186/MWh, monitored using GWAP, and computed using LWAP
- ❖ When the threshold is breached, the secondary cap is applied
- ❖ Imposition - The next immediate interval after determining a breach of the threshold.  
Lifting - Once imposed, hourly monitoring of 72-hour rolling average price shall be conducted for possible lifting of the secondary price cap
- ❖ Additional compensation allowed for oil-based plants equal to the remainder of the total cost of fuel and variable O&M cost, backed up by communication and proof for the processing performed by PEMC.

**✓ Operational Mechanisms**

- ❖ Monitoring using RTD prices (Rolling average on GWAP)
- ❖ Timing issues with pricing errors
  - Ex – Post (RTX) Results (if valid) occur an hour after
  - Market Re – Run: results available later than RTX
- ❖ To address bullet 2 above, estimation of RTD prices is implemented to facilitate the hourly monitoring
- ❖ RTD prices to be used only for signalling potential breach of Price Threshold to Participants

- ❖ Confirmation by Billing Month-End using corrected prices (recomputation using all valid prices)
- ❖ Requires availability of prices in real time.
- ❖ GWAP is valid for estimation purposes in the case of bad data
- ❖ When Threshold is breached, the MO may announce: a) "Possible imposition of Secondary Cap based on Estimate Rolling Average (price threshold breached), or b) Lifting of secondary cap based on Estimate Rolling Average

With reference to the presentation made by PEMC, Dr. Guevara gave additional comments that the ERC's computation of the Threshold level needs more explanation, particularly on the logic for using the average price for particular months in the years 2010 to 2013. She recognized that the ERC's framework for the four-year average as explained by the ERC was used as proxy in the absence of a better basis for the computation. She noted, however, that prices were changing during the periods used by the ERC for its computation.

Mr. Canlas explained that the ERC in its computation considered actual costs based on available data provided by the DUs in their power supply agreements. Based on this, the ERC arrived at a computation that tries to balance the benefits in investments and the consumer side.

At this point, the RCC proceeded with a review of the Proposed Amendments to the WESM Rules and WESM Manuals on Offer Price Cap and Customer Price Dampener.

Mr. Ambrocio R. Rosales opined that the proposal should be disapproved since the threshold level as proposed by Aboitiz is much higher than the one issued by the ERC.

Mr. Raymundo expressed that the RCC should either disapprove or defer the proposal since there is already an on-going effort at the Tripartite level. He added that PEMC can use the proposal in a parallel study that it is conducting regarding the mitigating measures. The opinion was seconded by Mr. Pagobo, stating that the RCC should wait for the result of the Tripartite Committee's decision on the matter.

Noting the comments and all the discussions regarding the matter, Dr. Guevara consulted the body on whether to approve or defer the RCC's action on the proposal. On motion duly made and seconded, based on its deliberations of the submitted comments and the RCC's own discussions on the merit of the proposal, the RCC, with 14 members present, unanimously voted for the disapproval of the Proposed Amendments to the WESM Rules and WESM Manuals on Offer Cap and Customer Price Dampener.

**c) Proposed Amendments to the WESM Rules on the Approval of the Alterations to the MNM Model--Comments of the DOE**

Mr. Binondo highlighted that the comments of the DOE on this proposal is for Trading Participants to be informed in any modality of the alterations made on the MNM for the purpose of transparency. He reiterated that the DOE does not have any objection to the proposal. It was clarified by Mr. Cacho that Trading Participants are informed of any change made to the MNM through the WESM website. In relation to the modality of publication, Mr. Binondo clarified that the usual publication method on the WESM website is deemed acceptable.

*Binondo*

1 The RCC then proceeded with a review of the proposal, as previously discussed.  
2 After discussing the DOE's comments, and after motion duly made and seconded,  
3 the RCC approved the Proposed Amendments to the WESM Rules on the Approval  
4 of Alterations to the MNM, as previously discussed, and agreed on its endorsement  
5 to the PEM Board for its approval.  
6  
7

8 **d) Proposed Amendments to the WESM Manual on the Management of Net**  
9 **Settlement Surplus (NSS)--Comments of MERALCO**

10  
11 Mr. Ciprinilo Meneses was requested to discuss the comments submitted by  
12 MERALCO on the proposal. He noted that PEMC no longer sets aside NSS given the  
13 flowback mechanism for such.  
14

15 The RCC noted the comments of MERALCO, and proceeded with a review of the  
16 proposal as previously discussed.  
17

18 On Section 2.3 on Interpretation, Dr. Guevara commented that the provision, as  
19 stated in the proposal, is confusing and implies that the Manual is not properly  
20 numbered and referenced the way this provision was stated under the Section. She  
21 then, suggested to delete the proposed provision.  
22

23 Mr. Cacho inquired from Atty. Maila de Castro whether its deletion will have any legal  
24 implications. Atty. De Castro responded that provisions on "Interpretation" are usually  
25 added to make references to stated provisions clearer. She commented however  
26 that the wording under the proposed section is not clear. She added that such  
27 provision is normally added in mother documents such as the WESM Rules, and may  
28 not necessarily have to be reflected in the Manuals.  
29

30 Ms. Geraldine Rodriguez informed the RCC that the Section on Interpretation is part  
31 of the new standard format for WESM Manuals being implemented by the PEMC. Mr.  
32 Cacho then expressed that if the concern of the RCC is the wording of the section,  
33 the RCC may instead consider rephrasing the provision to make it clearer rather than  
34 deleting the section. At this point, Ms. Rodriguez showed the wordings in a similar  
35 section in the Load Shedding Manual recently amended and approved by the RCC,  
36 to read as "Any reference to a section or clause in any Chapter of this *Market Manual*  
37 shall refer to the particular section or clause of the same Chapter in which the  
38 reference is made, unless otherwise specified or the context provides otherwise."  
39 Noting the similar section cited by the Secretariat, the RCC agreed to retain the  
40 section but lifting the wordings used in the Load Shedding Manual.  
41

42 Additional revisions to the proposed amendments were made by the RCC, as  
43 follows.  
44

45 Section 4.2: 1 a) DUs ~~which~~ **that**...  
46 d) Generation Companies ~~which~~ **that** are Direct WESM Members ..  
47 g) Other Parties ~~which~~ **that** have paid line loss and congestion  
48 charges ..  
49

50 On Section 4.2: 1 c) and d) - insert a semi-colon between 4.2: 1 c) and d)  
51

1 Following the discussions above, the RCC approved the Proposed Amendments to  
 2 the WESM Manual on the Management of Net Settlement Surplus, and its  
 3 endorsement to the PEM Board for approval of the proposal.  
 4  
 5

6 **4. New Business**

7  
 8 **a) Technical Committee's (TC) Proposed Amendments to the Metering Manual**

9  
 10 Dr. Jordan Rel Orrilaza, Jr. TC Chairman, together with TC Member Engr. Jaime  
 11 Mendoza presented to the RCC the TC's Proposed Changes to the WESM Rules  
 12 and WESM Metering Manual.  
 13

14 Below are the highlights of the TC's presentation.

15  
 16 ✓ Objective

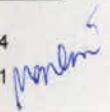
- 17 ❖ To align certain provisions and terminologies with the Philippine Electrical  
 18 Code (PEC) and the Philippine Grid Code (PGC), including the current  
 19 amendments to the PGC
- 20 ❖ To revise the diagrams showing the location and arrangement of instrument  
 21 transformers; Changes were also reflected in the provisions on the location  
 22 and arrangement of instrument transformer
- 23 ❖ To include new sections and diagrams for grounding system
- 24 ❖ To amend provisions under section 9 on Site Specific Loss Adjustment  
 25 (SSLA) to make the section systematic and comprehensive.  
 26

27 ✓ Baground

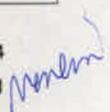
- 28 ❖ Part of the Metering Arrangement Review
- 29 ❖ WESM Rules Clause 1.7.2 (d) on the TC's discretion to propose necessary  
 30 and appropriate amendments to the WESM Rules in relation to Technical  
 31 Matters in accordance with Chapter 8 of the WESM Rules.  
 32

33 ✓ Summary of Proposed Amendments

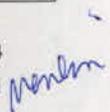
Proposal	Rationale	RCC Discussion
<u>Meter: A device, which measures and records the consumption or production of electricity. This refers to the Revenue Meter unless specified otherwise.</u>	To clarify that <i>Meter</i> refers to <i>Revenue Meter</i> unless specified otherwise.	Dr. Orillaza stated that the purpose of the Metering Manual is to make sure that the Revenue Meter is working well.
<u>Metering Equipment: The apparatus necessary for measuring electrical real and reactive power and energy, inclusive of a multi-function meter and the necessary instrument potential, current and phase shifting transformers and all wiring and communication devices as provided.</u>	Adopted from PGC	Dr. Orillaza stated the Metering Equipment already includes other devices.
<u>Metering Point: The point of physical connection of the device measuring the current in the power conductor. Location where the Metering Equipment is installed.</u>	To specify that the <i>Metering Equipment</i> is installed at the <i>Metering Point</i> .  Other than current,	• Mr. Meneses commented that the Metering Point in the proposal did not specify/qualify whether it is physical or electrical location, but he presumed



	<p>other power parameters can also be measured as may be programmed.</p>	<p>that physical location is being referred to in the subject provision.</p> <ul style="list-style-type: none"> <li>• Engr. Jaime Mendoza stated that the Metering Point measures not only the current, and considers both the high side and the low side.</li> </ul>
<p><del>TRANSCO: The corporation that assumed the authority and responsibility of planning, maintaining, constructing, and centrally operating the high-voltage Transmission System, including the construction of Grid interconnections and the provision of Ancillary Services. The government-owned and controlled corporation created pursuant to RA 9136 to acquire all transmission assets of the NPC.</del></p>	<p>Consistent with the recent working draft to the PGC Amendment 2</p>	<ul style="list-style-type: none"> <li>• The RCC noted that the proposal is based on the working draft of proposed amendments to the PGC instead of the existing approved version of the documents. The RCC raised the concern that there is no assurance yet that the proposed PGC amendments will be approved. Dr. Guevara then inquired if the proposed amendments by the TC is consistent with the Law (EPIRA).</li> <li>• Mr. Binondo suggested that the TC's rationale be changed to point out consistency with the Law rather than the PGC amendment, which was duly noted.</li> </ul>
<p><del>WESM Participants: All Generation Companies, Distribution Utilities, Suppliers, Aggregators, End-Users, the TRANSCO or its Buyer or Concessionaire, IPP Administrators and other entities authorized by the ERC to participate in the WESM in accordance with the Act.</del></p>		<ul style="list-style-type: none"> <li>• The RCC inquired on the rationale for deleting the "<b>Buyer or Concessionaire</b>" in the provision. Mr. Meneses commented that the TRANSCO is just a passive participant being an owner of the Grid. Thus, it was commented that it should be the <b>TRANSCO</b> that should be stricken out in the provision rather than the "<b>Buyer or Concessionaire.</b>"</li> <li>• The comments were duly noted by Dr. Orillaza.</li> </ul>
<p><u>Active Energy: As defined in the Philippine Grid Code.</u></p>	<p>Adopted from the PGC Def: The integral of the Active Power with respect to time, measured in Watt-hour (Wh) or</p>	



	<p>multiples thereof. Unless otherwise qualified, the term "Energy" refers to Active Energy.</p>	
<p><b><u>Reactive Energy:</u> As defined in the Philippine Grid Code.</b></p>	<p>Adopted from the PGC Def: The integral of the reactive power with respect to time, measured in VARh or multiples thereof</p>	
<p><b><u>Grid Operator:</u> The party that is responsible for maintaining adequate Grid capacity in accordance with the provisions of the Grid Code.</b></p>	<p>Consistent with the recent working draft of the PGC Amendment 2</p>	<ul style="list-style-type: none"> <li>• Engr. Mendoza explained that the revision aims to separate the grid operator from the grid owner, which is also part of the proposed revision in the Grid and Distribution Codes.</li> </ul>
<p><b>2.2 Location of the Metering Point</b></p> <p>The <del>location of the</del> Metering Point <del>is ideally shall be located</del> at the Market Trading Node and shall be in accordance with the WESM Rules, the Grid Code and the Distribution Code, <b><u>unless the installation of the Metering Equipment is physically difficult, uneconomical or not practical.</u></b></p> <p>If the Metering Point is not located at the Market Trading Node, an agreed Site Specific Loss Adjustment (SSLA) shall be applied to the meter data representing the energy supplied by the Generator or consumed by the Customer at that Metering Point for determining the quantities to be settled in the WESM.</p>	<p>To require the Metering Point and Market Trading Node to be at the same location unless the installation of the metering equipment is physically difficult, uneconomical or impractical.</p>	<ul style="list-style-type: none"> <li>• Dr. Orillaza noted that some of the metering points are not exactly in the location of the trading node, thus the additional line in the provisions regarding installation.</li> </ul>
<p>This standard applies to the following metering equipment, devices and accessories:</p> <ol style="list-style-type: none"> <li>Meters;</li> <li><b><u>Instrument transformers Current transformer (CT);</u></b></li> <li><b><u>Voltage transformer (VT);</u></b></li> <li><b><u>Data Logger;</u></b></li> <li>Meter Enclosure;</li> <li>Meter Test Switch/Block;</li> <li>Secondary Cabling <del>for Instrument Transformers Metering;</del></li> <li>Grounding <b><u>System;</u></b></li> <li><b><u>Rigid Metal</u></b> Conduit System;</li> <li>Communication Link</li> <li><b><u>Meter Seals and Padlock Facility to seal and secure the meter;</u></b></li> <li><b><u>Other components for checking the</u></b></li> </ol>	<p>To include all components of the metering installation.</p> <p>Consistent with the requirements provided in Sec. 4.5.1 (g) and (h) of the Metering Manual, <i>data logger</i> is also included.</p>	<ul style="list-style-type: none"> <li>• Mr. Pagobo commented that item a) should be changed to Revenue Meters to be consistent with the proposed definition previously shown, which was duly noted.</li> </ul>





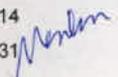
<p><u>voltage and current; and</u> m. Metering Perimeter</p> <p>---XXX---</p>		
<p><u>Safety Requirements and Grounding System</u> <u>2.5.6 General Requirements for Grounding System</u></p>	<p>There is no section regarding grounding system for metering installation. Generic principles in grounding were lifted from PEC Part 1 2009 Article 2.50.1.4 (a)1 - 5.</p>	
<p><u>2.5.6.1. The installation shall be in accordance but not limited to the following provisions of the Philippine Electrical Code (PEC):</u></p> <p>a. <u>Philippine Electrical Code; and</u></p> <p>a. <u>Electrical system that are grounded shall be connected to earth in a manner that will limit the voltage imposed by lightning, line surges, or unintentional contact with higher voltages and that will stabilize the voltage to earth during normal operation.</u></p> <p>b. <u>Normally non-current carrying conductive materials enclosing electrical conductors or equipment, or forming part of such equipment, shall be connected to earth so as to limit the voltage to ground on these materials.</u></p> <p>c. <u>Normally non-current carrying conductive materials enclosing electrical conductors or equipment, or forming part of such equipment, shall be connected together and to the electrical supply source in a manner that established an effective ground-fault current path.</u></p> <p>d. <u>Normally non-current carrying conductive materials that are likely to become energized shall be connected together and to the electrical supply source in a manner that establishes an effective ground-fault current path.</u></p> <p>e. <u>Electrical equipment, wiring, and other electrically conductive material likely to become energized shall be installed in a manner that creates a low-impedance circuit facilitating the operation of the overcurrent device. It shall be capable of safely carrying the maximum ground fault-current likely to be imposed on it from any point on the wiring system where a ground fault occurs to the electrical supply source. The earth shall</u></p>	<p>There is no section regarding grounding system for metering installation. Generic principles in grounding were lifted from PEC Part 1 2009 Article 2.50.1.4 (a)1 - 5.</p>	<ul style="list-style-type: none"> <li>• Mr. Raymundo raised that by lifting the articles of the PEC in the the Rules, the latter will have to be amended if revisions are made in the PEC. Engr. Mendoza responded that the PEC will not change because the provisions in the PEC reflects basic principles only. Dr. Guevara stated that in case there are changes in the documents with which the Proposed WESM Rules ar referenced, then the RCC will just have to propose corresponding proposed changes to the WESM Rules or Manuals.</li> <li>• Engr. Mendoza emphasized that the section is critical as it provides for personnel safety.</li> <li>• On the word "stabilize", Mr. Meneses comented that the same does not imply low grounding resistance. Thus, the phrase "stabilize the voltage" could also mean unsafe high voltage. He opined that the provision must explicitly say that grounding should be 5 ohms to clarify that the word "stabilize" must refer to a voltage that is safely low enough. Engr. Mendoza responded that there are varying acceptable levels from residential to sub-station, and for sub-station it was determined that the acceptable level was 5</li> </ul>

*mendoza*

<p><u>not be considered as an effective ground fault current path.</u></p> <p>f. <u>The minimum size of copper conductor to be used for metering grounding shall be 8 mm<sup>2</sup>.</u></p> <p>g. <u>Connections to all bonded parts shall be made in accordance to Article 2.50.1.8 of the Philippine Electrical Code 2009 Part 1.</u></p>		ohms. The explanation was duly noted by the RCC.
<p><b>2.5.6.2</b> <u>The installation shall likewise conform to The the IEC or ANSI/IEEE C57.13-1983 IEEE Guide for Grounding of Instrument Transformer Secondary Circuits and Cases and IEEE Std. 80-2000 or IEEE Guide for Safety in AC Substation Grounding</u></p>	Original provision revised to form part of the new subsection.	<ul style="list-style-type: none"> <li>• Dr. Guevara suggested revising the rationale based on the explanation given previously regarding ground resistance.</li> </ul>
<p><b>2.5.6.3</b> <u>The ground resistance of the metering grounding system shall not be more than five (5) ohms.</u></p>	To specify the ground resistance.	
<p><b>2.5.9.1. Location of Surge Arrester</b></p> <p><u>The surge arrester shall be located at the line side as close as possible to the instrument transformers in the Metering Point. Refer to Figure 2(a) and 2(b).</u></p>	<p>To specify the location of <i>surge arrester</i>.</p> <p>Surges come from the line side thus the <i>Surge Arrester</i> should be located before the instrument transformers for protection.</p>	<ul style="list-style-type: none"> <li>• Dr. Orillaza explained that the surge arrester in the illustration in the current manual is not properly located. He emphasized that the surge arrester should be on the line side.</li> </ul>
<p><b>Sec. 2.9.1.2 Conduit System</b></p> <p>All wiring from the instrument transformers' secondary terminal box to the meter installation enclosure (meter box) shall be placed in a <b>rigid metal</b> conduit <b>which is compliant with environmental requirements</b> to ensure that the connections to cabling are secure <b>and tamper proof more difficult to tamper and compliant with the MO Requirements</b>. Conduit joints (elbow, T-connector) shall be properly sealed and secured. No secondary cabling shall be exposed and accessible to unauthorized personnel. <b>Rigid metal conduit used for the instrument transformer shall be surface mounted.</b> See Figure 5.</p>	Only rigid metal conduit (RMC) is recommended to be used for conduit systems for metering. Installation of RMC should be surface-mounted to prevent possible tampering.	<ul style="list-style-type: none"> <li>• Dr. Guevara commented that the proposed Rules Changes have costs involved, and that any proposal should be feasible. She then inquired if all conduit systems for metering use the Rigid Metal Conduit (RMC), such that changing the Rules will not incur costs on the part of the providers. In response, Engr. Mendoza stated that the use of RMC is a standard practice among meter service providers. This was noted by the RCC.</li> <li>• Mr. Pagobo suggested changing the phrase "difficult to tamper" to "to discourage tampering," which was duly noted.</li> </ul>
<p><b>Sec. 9.4 Loss Factor</b></p> <p>There shall be a Site – Specific Loss Factor</p>	Revised for further clarification. SSLF is	

<p>(SSLF) <b>distinct</b> for every Metering Point, and <b>dynamic</b> for every Trading Interval, which represents the adjusted meter data of a Metering Point.</p> <p>The SSLF is a unit-less number that shall be multiplied to the original meter data <b>of its</b> corresponding <b>to the</b> Trading Interval. The <b>end-product</b> of the SSLF and the original meter data is the adjusted power or energy of the Trading Participant as seen from the MTN.</p>	<p>generally distinct for every Metering Point thus stating 'distinct' would be redundant.</p>	
<p><b><u>Sec. 9.6 WESM Members Involved in Performing SSLA</u></b></p> <p><b><u>The following entities shall be involved in performing Site Specific Loss Adjustment (SSLA):</u></b></p> <ol style="list-style-type: none"> <li>Network Service Provider in coordination with Trading Participants;</li> <li>Metering Services Provider (MSP); and</li> <li>Market Operator</li> </ol>		<ul style="list-style-type: none"> <li>• Dr. Guevara inquired if the subject section really meant "WESM Members" rather than "WESM Participants," recalling from the previous section the use of the latter. Dr. Guevara noted that WESM member has a wider scope, while WESM participants pertains only to the WESM members that trade in the market.</li> <li>• Dr. Orillaza responded that the proposed subject provision really meant WESM member to cover the MSP, which is not a trading participant.</li> </ul>
<p><b><u>Sec. 9.7.1.1.1 Conductor Data</u></b></p> <ol style="list-style-type: none"> <li>Conductor Size</li> <li><b><u>Conductor Type</u></b></li> <li>Number of conductors per circuit</li> <li>Line Length (km)</li> <li>Line Voltage</li> <li><b><u>Line Configuration</u></b></li> </ol>		
<p>9.7.1.1.2 Power Transformer Data</p> <ol style="list-style-type: none"> <li>Rated kVA</li> <li>Core Loss (Open Circuit Test result)</li> <li>Full-load Copper Loss (Short-Circuit Test result)</li> <li>Percent Impedance (% Z)</li> <li><math>\frac{x}{r}</math> <b><u>ratio</u></b></li> <li><del>Equivalent Transformer Resistance (Re)</del></li> <li><del>Equivalent Transformer Reactance (Xe)</del></li> <li><del>Equivalent Transformer Impedance (Ze)</del></li> <li><del>Transformer's Full-Load Output Active Power (kW)</del></li> <li><del>Transformer's Efficiency (%) at Full-Load Output Active Power</del></li> <li><del>Transformer's Maximum Efficiency (%)</del></li> </ol>	<p>Items (f) to (g) were not used in the equation for loss calculation and can just be derived given items (a) to (b), thus the proposed deletion. The inclusion of X/r ratio was proposed instead.</p>	<ul style="list-style-type: none"> <li>• The RCC requested providing a definition of "x/r"</li> </ul>

<b>I. Transformer's Output Active Power (kW) at Maximum Efficiency</b>		
9.7.4.2 Calculate the loss adjustment in accordance with this procedure <u>using a suitable computation tool Microsoft Excel.</u>	Minor revision.  Load flow analysis should be used instead	<ul style="list-style-type: none"> <li>• Mr. Meneses suggested the deletion of "using a suitable computation tool," which was noted.</li> </ul>
<b>Sec. 9.8 Site Specific Loss Factor Calculation</b>  <b>Site Specific Loss Factor Calculation</b>  <i>(Succeeding sections and subsections in section 9.8 are proposed to be deleted. Sample cases are to be included in the Appendix)</i>	Sample cases are not comprehensive.  To have a systematic way of presenting the cases, rules should be general and cases should be detailed in the Appendix.	<ul style="list-style-type: none"> <li>• Dr. Orillaza explained that the Section 9 of the Manual was revised to reflect a couple of articles that describe the process, by way of putting into words the equations that are currently in the Section 9, rather than merely providing computations and examples. He added that the calculations were put out into the Appendix of the Manual.</li> <li>• Mr. Raymundo inquired on the difference between SSLF and SSLA. Dr. Orillaza explained in response that SSLA refers to the procedure, while SSLF is one of the variables in the procedure being described in SSLA.</li> </ul>
<b>Sec. 9.8.1 Energy Aggregation</b>  <u>Active Energy and Reactive Energy 15-minute recordings shall be aggregated to be consistent with the one (1) hour Trading Interval.</u>  <u>In case the Trading Interval is shortened, the frequency of meter recording may have to be adjusted accordingly.</u>	In case the trading interval is shortened, the section will not have to be amended.	
<b>Sec. 9.8.2 Loss Calculation</b>  <u>Losses across power system components between the Revenue meter(s) and the Market Trading Nodes (MTN) shall be computed using suitable mathematical model for the components and applying basic circuit analysis principles.</u>  <u>This variable shall be referred to as <math>P_{Loss}</math>. Sample cases for calculating <math>P_{Loss}</math> are presented in the Appendix.</u>		<ul style="list-style-type: none"> <li>• Atty. De Castro commented that the use of the word "suitable" may pose a problem later on if there are differences in the way WESM members compute the loss, adding further that the proposal, as it is worded, may open up disputes. She suggested avoiding the use of the word "suitable" explaining that what is suitable to one party</li> </ul>



		<p>may not be suitable to another. She opined that it would be better to change it to something that is agreed upon by parties, or something that is already prescribed and acceptable to all participants, to make it more binding to all parties concerned. Dr. Orillaza expressed agreement with the suggestion of Atty. De Castro.</p> <ul style="list-style-type: none"><li>• Noting the comments, Dr. Orillaza inquired if it would perhaps be better to rephrase it to something that is "prescribed by the Market Operator as approved by the parties." He pointed out that somebody must have initiated the process, which is the MO, and if there will be changes to it, the MO may prescribe the changes upon consultation and approval of the parties. Dr. Guevara agreed to the suggestion of Dr. Orillaza.</li><li>• Mr. Cacho clarified that the MO did not specify the process and computations described in the Manual--it was agreed by the parties in the course of the development and approval of the Manual. He expressed that any changes in the computation would have impact in the settlement process.</li><li>• Noting the discussions, Dr. Guevara requested the TC and the MO to discuss the proper wording for this section to address the concerns raised.</li><li>• Mr. Lagarde opined that the the issue on SSLA should be permanently addressed, rather than addressing it through a bandaid solution. He suggested changing the Rules and allowing the provision for Capital Expenditure for the relocation of NGCP's</li></ul>
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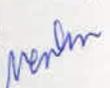
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		<p>meters in their proper areas. The opinion was seconded by Mr. Meneses, stating that Metering Points and Market Trading Nodes should be located in the same area. He suggested amending the Manual to compel NGCP to eventually convert all its mismatched connections within a prescribed period, maybe 5 or 6 years. Relative to the suggestion of the DUs, Engr. Mendoza commented that relocating the meters are physically difficult, uneconomical, and impractical. He stated that the design of the system is vertical, with a single owner. Because of the privatization, the sub-stations now have multiple owners, which restrains the relocation of meters in their proper areas. Mr. Cacho stated that the physical installation is the problem and not the meter. Mr. Pagobo likewise opined that putting a single meter in one node is not possible because of having multiple customers in a node.</p> <ul style="list-style-type: none"> <li>• Dr. Guevara noted all the comments of the body. Dr. Orillaza expressed that the TC will review and consider the comments given.</li> </ul>
<p><b>9.8.3 Site Specific Loss Factor</b>  <u>Site Specific Loss Factor (SSLF) shall be computed as follows:</u></p> $SSLF = 1 + \frac{P_{Loss}}{kW_{meter}}$ <p>Where,</p> <p><u>SSLF</u> : <u>Site Specific Loss Factor;</u></p> <p><u>P<sub>Loss</sub></u> : <u>Total Active Loss (kW) as defined in Section 9.8.2</u></p> <p><u>kW<sub>meter</sub></u> : <u>Metered Active Power</u></p>	<p>Variable for total active loss (<b>Total<sub>kW-Loss</sub></b>) for a metering point is changed to <b>P<sub>Loss</sub></b>.</p> <p>Proposed variable should be reflected in the Appendix for the sample cases.</p>	
<p><b>9.8.4. Adjusted Active Energy</b></p>	<p>The variable for</p>	

<p><b><u>Adjusted Active Energy shall be computed as follows:</u></b></p> $kW_{adjusted} = P_{loss} + kW_{meter}$ $kW_{adjusted} = SSLF \cdot kW_{meter}$	<p>adjusted (kW) active power (Adjusted<sub>kW</sub>) was changed to <math>kW_{adjusted}</math>.</p> <p>Proposed variable should be reflected in the Appendix for the sample cases.</p>	
<p><b>9.8.5. <u>Historical Load Share</u></b></p> <p><b><u>Historical Load Share (HLS) is the fraction or ratio of a metering point's total energy, against the total energy of all metering points under the same transformer. The HLS for the current billing month shall be based on the energy of the last twelve (12) billing months. (As approved by PEM Board Resolution No. 2010-76 dated 22 November 2010)</u></b></p>	<p>Lifted from Chapter 9.8.3 of the Manual.</p>	
<p><b>9.8.6. <u>Loss Sharing</u></b></p> <p><b><u>9.8.6.1. In cases where a single transformer supplies power to multiple metering points, the Transformer Load Loss and No-load Loss (e.g. Core loss) shall be shared by all meters proportionately according to:</u></b></p> <ol style="list-style-type: none"> <li><b><u>the energy consumed from each metering point, for the No-load Loss.</u></b></li> <li><b><u>the accumulated energy as each metering point reaches the Transformer, for the Load Loss.</u></b></li> </ol> <p><b><u>9.8.6.2. If a meter registers a zero value, Loss Share shall be based on the Historical Load Share.</u></b></p>		<ul style="list-style-type: none"> <li>• Mr. Pagobo inquired on the coverage of the Historical Load Share indicated under 9.8.6.2. Dr. Orillaza responded that it covers the last 12 billing months that have existing values.</li> <li>• Atty. De Castro inquired if "Historical Load Share" was used anywhere else in the Manual. If not, she suggested to include its definition in the same Section, which was noted.</li> </ul>
<p><b><u>9.8.6.3. In cases where a line is shared among multiple metering points, the losses across the line shall be shared by all meters proportionately according to the energy consumed from each metering point plus the accumulated losses of each metering point before the line being shared.</u></b></p>		

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Noting the presentation made by Dr. Orrillaza, the RCC approved the publication of the Proposed Amendments to the WESM Rules and Metering Manual, as submitted by TC, to solicit comments. The RCC likewise agreed that the body's comments on the proposal during the discussions shall be considered later on when the RCC deliberates on the matter once again.



1       **b) RCC Semestral Report for January to June 2014**  
2

3       The RCC noted the comments received from Mr. Rosales and Ms. Concepcion  
4       Tanglao on the Semestral Report drafted by the Secretariat. Dr. Guevara made  
5       additional revisions on the report.  
6

7       Upon agreement of the body on the content of the report, the RCC approved the  
8       January to June 2014 RCC Semestral Report, and its submission to the PEM Board.  
9

10  
11       **5. Other Matters**  
12

13       **a) Update on the Implementation of Approved Urgent Amendments (CVC and**  
14       **DPM)**  
15

16       With the anticipated expiry of the effectivity of the subject amendments, Mr. Cacho  
17       provided the RCC with updates on the Reserve Market. He stated that the  
18       amendments on the subject Manuals are hinged on the Commercial Operation of the  
19       Reserve Market, which was initially set on 26 March 2014, and later moved to 26  
20       May 2014. He added that the implementation is subject to the ERC's approval of the  
21       Price-Cost Recovery Mechanism (PCRM).  
22

23       It was noted however, that the Commercial Operation of the Reserve Market did not  
24       push through as indicated.  
25

26       Mr. Cacho informed the RCC that PEMC is awaiting directions from the DOE as to  
27       the way forward relative to the Reserve Market. He stated, nonetheless, that PEMC  
28       intends to re-submit the proposal, in relation to the CVC and DPM, to the RCC as  
29       general amendments before the expiry of the effectivity of the amendments in  
30       September 2014.  
31

32       Mr. Rosales indicated that the changes in the CVC priority levels are not only hinged  
33       on the reserve market but was revised so as to reflect the proper prioritization of  
34       CVCs in the Manual.  
35

36       The updates were duly noted by the RCC. Dr. Guevara requested PEMC to submit  
37       its proposal by August as the 6-month prescriptive period already includes the PEM  
38       Board approval of the general amendments, as re-submitted by the Proponent.  
39  
40

41       **b) Updates on the DOE's Action on the Proposed Amendments to the WESM**  
42       **Rules regarding PEN-MRR**  
43

44       As a background on the proposed amendments, Ms. Rodriguez informed the RCC  
45       that the proposed amendments to the WESM Manual on PEN-MRR was approved by  
46       the PEM Board in February 2014 and correspondingly, the proposed WESM Rules  
47       changes were endorsed to the DOE. However, in a letter received by PEMC from the  
48       DOE, which copy was provided to the RCC through email, said proposed changes to  
49       the WESM Rules were disapproved by the DOE. She then clarified with Mr. Binondo,  
50       whether the disapproval of the proposed changes to WESM Rules would effectively  
51       overrule the PEM Board's approval of the changes in the Manual.  
52

1 Mr. Binondo responded that logically, the corresponding changes to the Manual on  
2 PEN-MRR cannot be effected since these changes are aligned with the proposed  
3 changes to the WESM Rules which was disapproved by the DOE. The information  
4 was noted by the RCC.

5  
6 In relation to the discussions on PENs, Dr. Guevara inquired from the MO if the result  
7 of the study on the incorporation of the MERALCO network in the MNM is already  
8 available, and if the same can be presented to the RCC during the next meeting. Mr.  
9 Cacho stated that he will check the non-disclosure confidentiality agreement with  
10 MERALCO, to determine if the presentation will have any implications, otherwise, it is  
11 okay for PEMC to present the results to the RCC. Dr. Guevara clarified that what the  
12 RCC is requesting for is just the result of the study and not the data provided by  
13 MERALCO which is bound by the confidentiality clause.

14  
15 Dr. Guevara requested to include in the PEMC's presentation a comparison of the  
16 effect on PENs of a model that has and has no MERALCO network in the MO's  
17 model. The request was duly noted by Mr. Cacho.

### 18 19 c) Updates on the 2014 Work Plan

20  
21 The sector representatives in the RCC provided updates on the status of their  
22 respective commitments in the 2014 RCC Work Plan.

23  
24 The RCC Work Plan was updated, with the withdrawal of some items as previously  
25 committed by the sector representatives, and the adjustment in the timeline of  
26 submission of proposals to the RCC on some of the commitments of the sectors.

27  
28 Updates made in the Work Plan are as follows:

29

Item	Topics/Proposed Rules Change	Responsible Party	Status	Remarks
1	Administered Price Determination Methodology Manual in relation to Market Intervention and Suspension	Generation (SMC Global) Sector Representative	Ongoing	Receipt of Proposal from Vivant Corporation on 08 May 2014
2	Site Specific Loss Adjustment (SSLA)	DU Sector		For submission and presentation to RCC in August 2014
3	Proposed Amendment to WESM Rules and the Dispatch Protocol Manual in relation to Reserve Market	PEMC-MO / NGCP-SO	Done	PEM Board approved the proposal on 27 Feb 2014.
4	<i>Demand-side bidding presentation by the MO</i>	<i>PEMC-MO</i>	<i>Done</i>	PEMC made a presentation on the matter during the 83rd RCC Meeting held on 05 February 2014.
5	Disconnection Policy	Generation / Supply Sector Representatives	Ongoing	Approved for posting in the WESM website on 07 May 2014 during the 87th RCC Meeting for comments of Participants and interested parties  Comments received from RESA  Approved by the RCC, for submission to PEM Board, during its 89th meeting held on 02 July 2014



6	Must Run Unit Manual regarding Additional Compensation	Generation Sector Representative (SMC Global)		SMC Global request to defer to 3rd Quarter; Dependent on the MRU Proposal
7	Delineation on Responsibilities of IPP Administrator and IPP	Generation Sector Representative (SMC Global)	Withdrawn	SMC Global request to defer to 3rd Quarter
8	Revision in the Line Rental Formula for the Elimination of BCQ	DU Sector Representative		For submission and presentation to RCC in August 2014
9	Load Shedding: Manual Load Dropping with consideration to Bilateral Contracts in the Implementation of Manual Load Dropping; Corresponding Changes to the Confidentiality Manual	DU Sector Representative		For submission and presentation to RCC in Sept 2014
10	Revisions in WESM Rules Chapter 3 and the Price Determination Methodology Manual; Proposal for the Removal of Marginal Plant that sets the Market Clearing Price	NGCP-SO		For consolidation with DU proposal and submission to RCC in August 2014
11	VAT Issue – necessary changes to the Billing and Settlement Manual	Generation Sector Representative (PSALM)	Withdrawn	
12	Demand-side bidding	DU Sector Representative	Withdrawn	
13	Proposal for changes in the MNM for the inclusion of MERALCO Network Model	NGCP-SO		Awaiting result of PEMC-MO Simulation; Depends on Presentation -RCC requested PEMC to present the Result of simulation during the RCC meeting scheduled for August 2014.
14	Metering / MSP Review – define MSP accountability and consequence for not providing data to RES	Supply Sector Representative		For submission in September 2014
15	Malaya Issues on Pmin	PSALM	Withdrawn	Resolved through DOE Circular 2014-01-0003.
16	Review on the Must Offer Rule (as per PEM Board directive dated 27 April 2012)	PEMC		Carry-over from 2013; Awaiting DOE Directives on the matter.
17	Net Settlement Surplus (NSS)	PEMC	Ongoing	-PEMC submission of Proposal on 22 April 2014 Approved for posting in the WESM website on 07 May 2014 during 87th RCC Meeting; to be discussed again in July 2014 meeting

18	Deletion/Revision of provisions on "MDOM Performance Standards"	PEMC	For PEMC review	Carry-over from 2013; Submitted by PEMC on 21 May 2013 RCC, during its 75th Meeting held on 05 June 2013 concluded that proponent should instead develop the MDOM performance standards rather than propose to altogether delete the WESM Rules provision prescribing the publication of the same.
19	Revisit the rules change process (Amendments to Chapter 8, WESM Rules and Rules Change Manual)	PEMC		Carry-over from 2013 Put on hold to await result of PEMC TWG on the harmonization of rules and manuals (PEMC letter dated 11 March 2013).
20	Value of Load Loss (VoLL) Pricing	PEMC	Awaiting DOE comments on WDS	Carry-over from the 2012/2013; Included in the IES Study on Pmin and Associated Issues. Market Design Study Report submitted by PEMC to the DOE in January 2014. Awaiting DOE Directives on the matter.
21	Proposed Amendments to Metering Manual	PEMC		impending submission by PEMC
22	Provision of Renewable Energy Market in the WESM Rules	PEMC	Deferred	Carry-over from 2013; Necessary Rules Changes included in the WB Technical Assistance Study scheduled to be completed by 1Q 2014.  Proposed Rules Changes to be initiated by the PEMC pending directives from the Management.
23	Review of Prudential Requirement (Payment Default Procedure)	RCC / PEMC	Done	Approved by PEM Board on 05 February 2014.
24	Dispatch Protocol - Harmonization with Proposed Rules Changes on Market Intervention	PEMC	Withdrawn	Focused on the Market Intervention (MI) by PEMC in relation to the DOE Circular 2013-12-0028 Adopting an Interim Criteria for the Declaration of MI in the WESM.  Overtaken by secondary cap of ERC
25	Load Forecasting Manual, Load Shedding, Methodology for Determining Pricing Errors and Price Substitution due to Congestion, and WESM MNM Criteria and Procedures	PEMC	Done	Approval by PEM Board on 05 February 2014.
26	Incorporate policies on the reserves market in the WESM Rules	DOE/PEMC	Pending/Deferred	Carry-over from 2013; Awaiting approval/directives of the ERC on the PCRM for Reserves
27	Proposed Amendments to the WESM Manual on Criteria and Guidelines for the Issuance of Pricing Error Notices and Conduct of Market Re-Run	RCC	Done	Approved by the PEM Board



28	Proposed Amendments to the WESM Rules and the Manual on the Management of Must Run Units, with corresponding changes to the Dispatch Protocol Manual, Management Procedure on Excess Generation, System Security and Reliability Guidelines, and the Administered Price Determination Methodology Manual	RCC	Ongoing	Approved for posting in the WESM website on 07 May 2014 during 87th RCC Meeting.
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3 **d) Updates on the 95th PEM Board Meeting**  
4

5 Ms. Concepcion Tanglao and Mr. Cacho reported to the RCC the result of the  
6 presentation of the RCC's report to the PEM Board on its action on the Proposal on  
7 Stand-By Capacity.  
8

9 Mr. Cacho shared that per Secretary Jericho Petilla, he has further questions  
10 regarding the matter that he wanted to discuss with the Power Bureau.  
11

12 Dr. Guevara recalled that the proposal on Stand-by Capacity, which was submitted  
13 by the Generators, was elicited by the DOE. She stated that the Generators who  
14 proposed it thought that they will behave in a certain manner which will lower prices.  
15 During the RCC's deliberations, however, there are from the Committee who  
16 believed that it will not happen the way the Generators see it. At this point, Dr.  
17 Guevara inquired on what would be the way forward since the RCC is given the task  
18 to find alternatives to the proposal.  
19

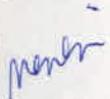
20 Mr. Lagarde opined that the best alternative would be the pay-as bid scheme. This  
21 was seconded by Mr. Rosales. Mr. Rosales expressed that he will make a  
22 presentation during the next RCC meeting on his proposal on the pay-as bid scheme,  
23 upon consultation with the EC's in the RCC.  
24  
25

26 **e) Proposed Amendments to the Manual on the Management Procedure for**  
27 **Excess Generation**  
28

29 Ms. Rodriguez explained that the Proposed Amendments to the subject Manual is  
30 aligned with the proposed changes to the WESM Rules and various Market Manuals  
31 relative to MRU. It was noted that the RCC inadvertently used the incorrect version of  
32 the Manual during the RCC's formulation of the proposal and subsequent  
33 deliberations on the matter. The Secretariat, thus, reflected the RCC's latest  
34 discussions in the correct version of the Manual. The proposal is being presented for  
35 the RCC's approval of its publication in the website, to solicit comments.  
36

37 The RCC noted the information. The RCC reviewed the proposal page by page, and  
38 made the following revisions as follows:  
39

Reference	Changes Made
Section 1.6	The WESM Rules require that the MO and SO, in consultation with <i>WESM Participants</i> , shall adopt <u>procedures regarding to</u> the management of all aspects of dispatch and pricing .....

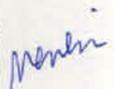


Section 5.1.3	Coordinate with MO for the imposition of over-riding constraint limit for a certain generating unit/s that would be required not to be shutdown since it will be still needed during the peak period in case possible excess generation exists during off-peak period.
Section 5.2.4	Prepare offer based on WESM Merit Order Table ( <b>WMOT</b> ) and submit to SO on an hourly basis. This will be the reference of SO issuance of dispatch instruction whenever the generating unit/s will be constrained-on or if necessary, the SO may opt to shutdown the generators during off-peak condition or whenever there's a loss of large loads that resulted in excess generation.
Section 6.1.4	Prior to the 1600H DAP run, the <i>Trading Participants</i> <b>will shall</b> consider the projected off-peak system condition and assess their market offers for the periods where imminent and <i>excess generation</i> conditions are indicated. Likewise, the <b>Trading Participants Generators</b> , in coordination with SO, may opt to conduct maintenance activities during the period where excess generation exists as identified by MO.
Section 6.2.1	<p>If excess generation is encountered in the real-time dispatch, then the SO shall issue Dispatch Instructions to generators to constrain-off their MW output based on the WESM Merit-Order Table (<b>WMOT</b>) provided by MO if the scheduled regulating reserve has been depleted (i.e. at Pmin) and the grid frequency breached the 60.3Hz. However, if over-frequency exists (i.e. grid frequency is greater than 60.6Hz), the following corrective actions, in the order of priority, shall be followed until the frequency returns to normal;</p> <p>a. "Constrained-off" generator/s with fast ramp rate.</p> <p>xxx</p> <p>f. Require generator/s to operate on <u>houseload</u> <b>house load</b>.</p>

Following the RCC's discussions above, the RCC approved the publication in the WESM website of the Proposed Amendments to the WESM Manual on the management Procedure for Excess Generation, to solicit comments of Participants and interested parties.

## 6. Next Meeting

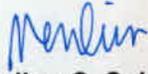
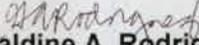
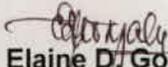
The RCC agreed to hold its next meeting on 06 August 2014. Before the meeting was adjourned the Secretariat announced that the PEM Board meeting is set on 24 July, 12:00 noon.

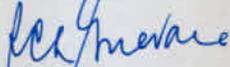
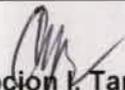
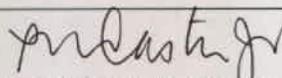
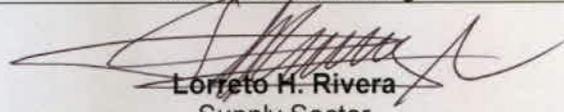
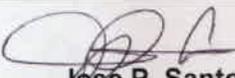
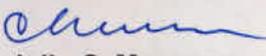
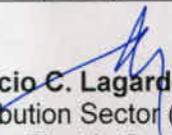
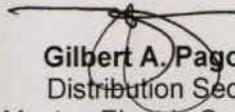
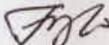
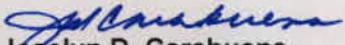
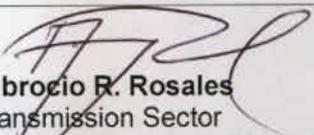
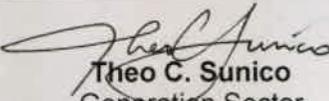
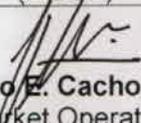


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1 **7. Adjournment**  
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 3 There being no other matter to be discussed, the meeting was adjourned at around  
 4 2:45 PM.

Prepared By:	Reviewed By:	Noted By:
 <b>Romellen C. Salazar</b>	 <b>Geraldine A. Rodriguez</b>	 <b>Elaine D. Gonzales</b>
<b>Analyst – Market Governance Administration Unit</b> <b>Market Assessment Group</b>	<b>Assistant Manager – Market Governance Administration Unit</b> <b>Market Assessment Group</b>	<b>Manager – Market Data and Analysis Division</b> <b>Market Assessment Group</b>

<p>Approved by: RULES CHANGE COMMITTEE</p>  <p><b>Rowena Cristina L. Guevara</b> Chairperson Independent University of the Philippines (UP)</p>	
<p>Members:</p>	
 <p><b>Concepcion I. Tanglao</b> Independent</p>	 <p><b>Francisco L.R. Castro, Jr.</b> Independent Tensaiken Consulting</p>
<p><b>Maila Lourdes G. de Castro</b> Independent</p>	 <p><b>Lorreto H. Rivera</b> Supply Sector TeaM (Philippines) Energy Corporation</p>
 <p><b>Jose P. Santos</b> Distribution Sector (EC) Ilocos Norte Electric Cooperative, Inc. (INEC)</p>	 <p><b>Ciprinilo C. Meneses</b> Distribution Sector (PDU) Manila Electric Company (MERALCO)</p>
 <p><b>Sulpicio C. Lagarde Jr.</b> Distribution Sector (EC) Central Negros Electric Cooperative, Inc. (CENECO)</p>	 <p><b>Gilbert A. Pagobo</b> Distribution Sector Mactan Electric Company (MECO)</p>
 <p><b>Jose Ferlino P. Raymundo</b> Generation Sector SMC Global</p>	 <p><b>Joselyn D. Carabuena</b> Generation Sector Power Sector Assets and Liabilities Management Corporation (PSALM)</p>
 <p><b>Ambrocio R. Rosales</b> Transmission Sector National Grid Corporation of the Philippines (NGCP)</p>	 <p><b>Theo C. Sunico</b> Generation Sector 1590 Energy Corporation</p>
 <p><b>Isidro E. Cacho, Jr.</b> Market Operator Philippine Electricity Market Corporation (PEMC)</p>	



Attachement/s:

Presentation on Interim Mitigating Measures in the WESM: Secondary Price Cap

A handwritten signature in blue ink, appearing to be 'M. M. M.', located at the bottom right of the page.

Interim Mitigating Measure  
in the

# WESM

*Secondary Price Cap Scheme*

9 MAY 2014

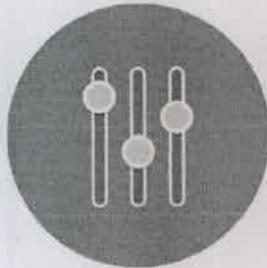
## Outline of Presentation



Background



Conceptual Framework



Parameters



Operational Mechanisms

*Minh*



## Background



## Background

ERC Resolution No. 08 of 2014

- An Urgent Resolution Setting an Interim Mitigating Measure in the WESM issued by the ERC on 6 May 2014
- To protect public welfare and thwart the replication of exorbitant and unreasonable high market prices like in Nov. and Dec. 2013, there is a need to mitigate sustained high prices in the WESM on an interim basis

*Mwaka*



## Background

### Summary of ERC'S Directives

1. Secondary cap amounting to PhP6,245/MWh is set during the supply months of May and June 2014 contingent upon certain conditions;
2. During the period at which secondary cap is in effect, oil-based plants are entitled to cover additional compensation;
3. PEMC is directed to process the claim for additional compensation by oil-based plants of not more than 30 days from receipt of supporting documents;



## Background

### Summary of ERC'S Directives

4. PEMC is directed to inform and educate the WESM Member Generation Companies of the operational mechanisms attendant to the implementation of secondary cap scheme;
5. PEMC is directed to immediately administer trial runs until the effectivity of the resolution; and
6. PEMC is directed to conduct studies on mitigating measures that may be applied to WESM to be submitted to ERC.

*Manila*



## Background

Summary of ERC'S Directives

- Date of publication of ERC Reso No. 8, series of 2014: **07 May 2014 (Daily Tribune)**
- Date of effectivity: **10 May 2014**



## Secondary Price Cap Methodology

*menem*



## Secondary Price Cap Methodology Parameters

**Monitoring Parameter:** 72-hour Rolling Average Price

**System**

**Ex - ante**

**Generator - Weighted Average Price**

**Threshold Level:** PhP 8,186/MWh



## Secondary Price Cap Level, Imposition, and Lifting

**Secondary Price Cap:** PhP 6,245/MWh

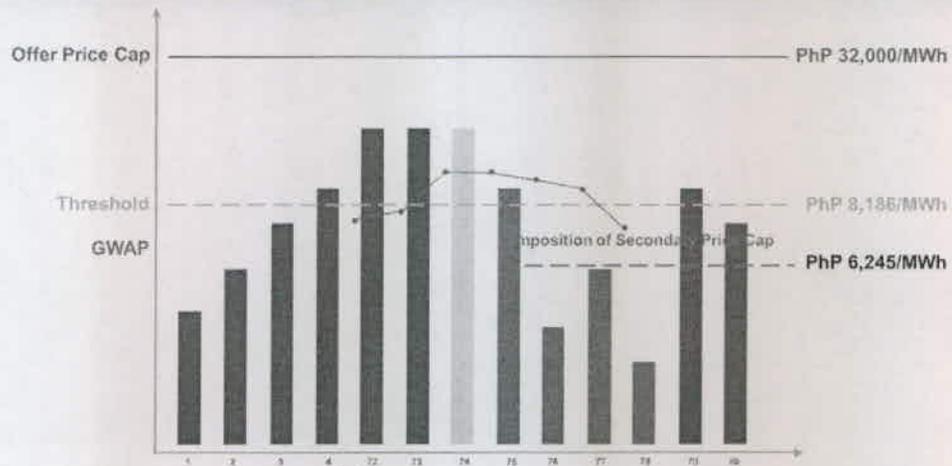
**Imposition:** The next immediate interval after determining a breach of the threshold.

**Lifting:** Once imposed, hourly monitoring of 72-hour rolling average price shall be conducted for possible lifting of the secondary price cap.

*Moenh*



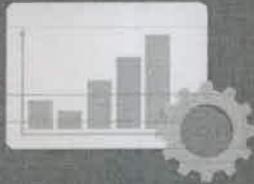
## Secondary Price Cap Methodology Overview



## Other Feature of the Scheme Additional Compensation

Oil-based plants are entitled to recover additional compensation equal to the remainder of the total cost of fuel and variable O&M cost.

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## Operational Mechanisms



## Hourly Computation of Rolling Average (Indicative)

PER ERC RESOLUTION NO. 8, SERIES OF 2014:

- Occurrence of sustained high prices monitored using RTD Prices (**Rolling Average on GWAP**)
- Timing Issue with Pricing Errors
  - Ex – Post (RTX) Results (if valid) occur an hour after
  - Market Re – Run: results available later than RTX
- Estimation of RTD prices to facilitate by the hour monitoring

*Mam*



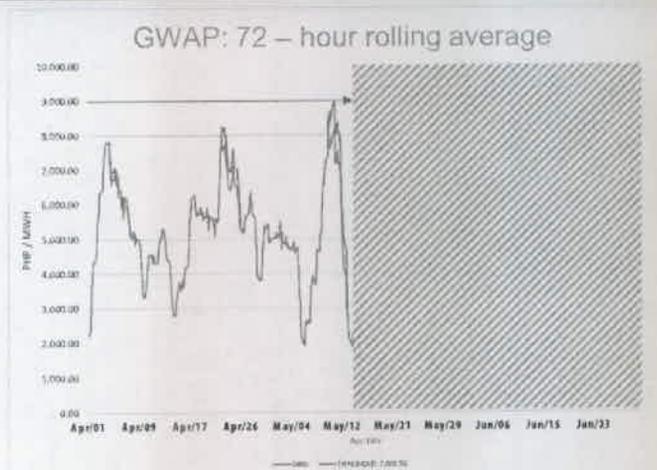
## Hourly Computation of Rolling Average (Indicative)

PER ERC RESOLUTION NO. 8, SERIES OF 2014:

- Would only be used for signalling potential breach of Price Threshold to participants
- Confirmation by Billing Month – End
  - Using Corrected Prices



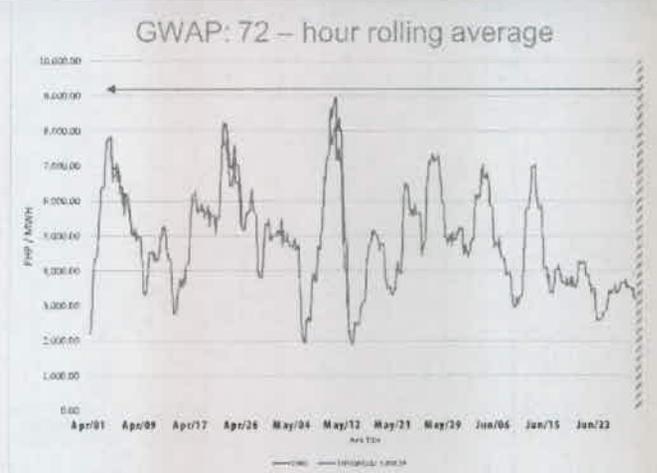
## Hourly Computation of Rolling Average (Indicative)



*manlin*



## Hourly Computation of Rolling Average (Indicative)



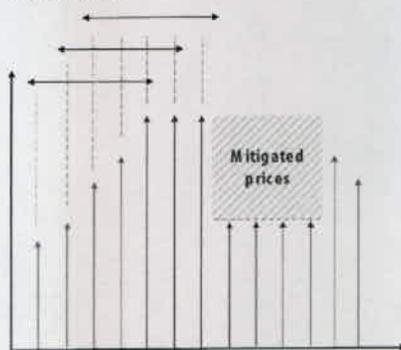
End – Month Confirmation of  
Secondary Cap Imposition  
USING CORRECTED PRICES



## Hourly Computation of Rolling Average (Indicative)

Requires availability of Prices in Real – time:

Market Clearing  
Price (PHP/MWH)



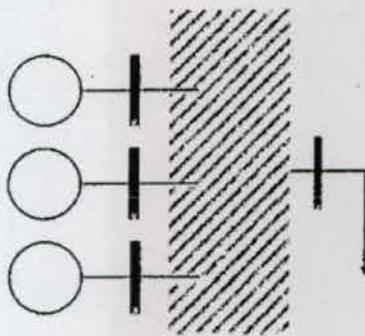
OK	- Prices Available
PEN	- Needs Estimate
PSM	- Prices Available
AP	- Prices Available

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## Estimation of RTD prices: UGEN / System – Wide VoLL

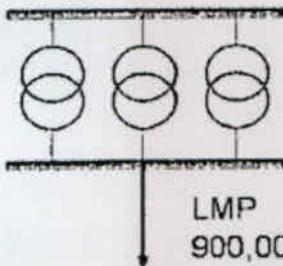
Supply < Demand (UGEN) or  
Load Curtailed



Estimate MRR Prices to be used:  
PhP 21,000.00 / MWh



## Estimation of RTD prices: Local (load – end) Pricing Errors



LMP = 600,000 or  
900,000

GWAP for interval not  
affected.

Can be:

1. Base Case (900,000 CVC)
2. Contingency (600,000 CVC)

*Handwritten signature*



## Estimation of RTD prices: Bad Data



(Snapshot Error,  
Sec. Limit, Etc.)

May not be detected (and corrected in Real – time)

> So long as prices are not reflective of CVCs (which are captured by other PENs), **GWAP is valid for estimation purposes.**



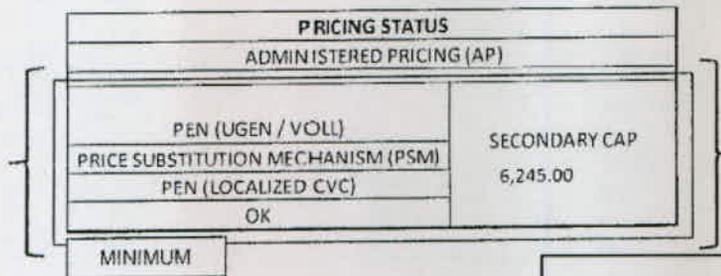
## Weighting of Administered Prices\* with Regular Price

RTD SCENARIOS			BASIS FOR GWAP (ROLLING AVERAGE)					
SECONDARY CAP IMPOSED?	LUZON	VISAYAS	AP IS EFFECTIVELY NOT GWAP (ONLY PRICE).					
NO	OK	OK	TO CORRECTLY COMPUTE FOR GWAP, AP HAS TO HAVE A WEIGHT I.E.					
NO	OK	PEN	<b>WEIGHT (REGION WITH AP) * AP PRICE</b>					
NO	OK	PSM	+					
NO	OK	AP	<b>WEIGHT (REGION WITH NO AP) * ITS GWAP</b>					
NO	PEN	OK	1. WEIGHT FOR LUZ: HISTORICAL DEMAND / SYSTEM DEMAND 2. WEIGHT FOR VIS: HISTORICAL DEMAND / SYSTEM DEMAND					
NO	PEN	PEN						
NO	PEN	PSM						
NO	PEN	AP						
NO	PSM	OK						
NO	PSM	PEN						
NO	PSM	PSM						
NO	PSM	AP						
NO	AP	OK				ADMIN PRICE	RTD	GWAP (L,V)
NO	AP	PEN				ADMIN PRICE	ESTIMATE	GWAP (L,V)
NO	AP	PSM				* Applicable to PEN (UGEN/ Voll) as well		
NO	AP	AP						

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## Hierarchy of Prices when Secondary Cap is in Effect:



Except for Intervals with Administered Pricing **Secondary Cap is imposed (for all intervals with GWAP > Secondary Cap)**

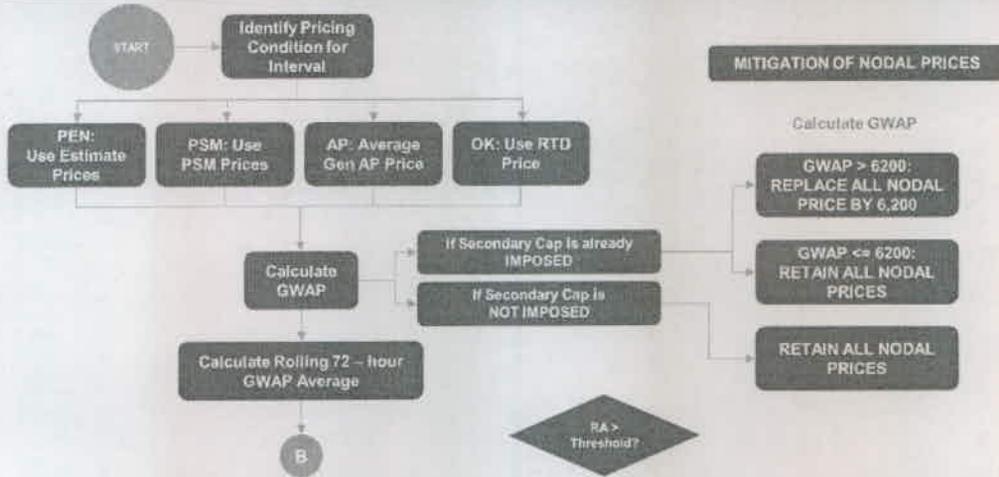


## Notice to Participants when Rolling Average is Breached:

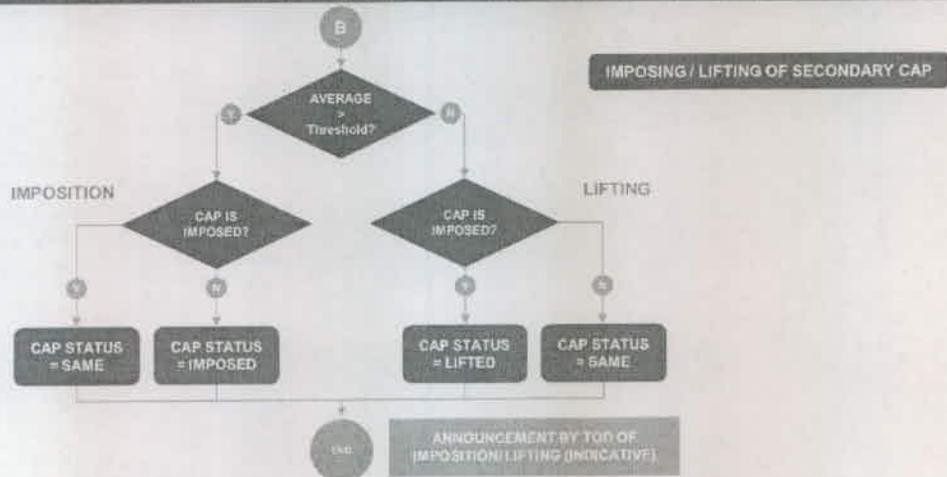
- When Threshold is Breached: the Market Operator may announce:
  - "Possible imposition of Secondary Cap based on Estimate Rolling Average (price threshold breached); or
  - **Lifting:** lifting of Secondary Cap based on Estimate Rolling Average.

*Nonen*

# Flowchart



# Flowchart



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Wholesale Electricity Spot Market

Wholesale Electricity Spot Market

ing Measure  
in the

**THANK YOU VERY MUCH**  
*WESM Works.*

*Secondary Price Cap Scheme*

9 MAY 2014

*Monchi*