



Technical Committee 2024 Annual Report

January 2024 to December 2024

February 2025

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Philippine Electricity Market Corporation –
Market Assessment Group for the WESM Technical Committee

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1.0 INTRODUCTION

Pursuant to Section 3.3.1 of the Technical Committee (TC) Market Manual¹ Issue 3.0, this Report is submitted to the PEM Board to provide the Committee's accomplishment, pending issues, and activities for the period covering January to December 2024. This Report likewise include the work plan of the Committee for the year 2025.

2.0 TC RESPONSIBILITIES AND MEMBERSHIP

2.1 Responsibilities

The responsibilities of the TC are set out in the WESM Rules² as follows:

- i. Monitor technical matters relating to the operation of the spot market;
- ii. Provide a report to the PEM Board on any matter of a technical nature relating to any WESM member which in the reasonable opinion of the TC causes:
 - a. That WESM Participant to be unable to comply with the WESM Rules; or
 - b. Unintended or distortionary effects to the operation of the WESM;
- iii. Assist the PEM Board by providing expertise in relation to:
 - a. Information technology;
 - b. Metering technology and metering data; and
 - c. Any other matter of a technical nature relating to the spot market;
- iv. From time to time if the TC in its discretion deems necessary or appropriate, propose amendments to the WESM Rules in relation to technical matters, in accordance with chapter 8 with a view to:
 - a. Improving the efficiency and the effectiveness of the operation of the spot market; and
 - b. Improving or enhancing the prospects for the achievement of the WESM objectives; and
- v. Assist the Rules Change Committee in relation to its assessment of proposals of a technical nature to amend the WESM Rules under chapter 8.

In addition, the TC is also tasked to conduct technical reviews and studies pursuant to the guidelines³ set forth in the TC Market Manual.

¹ Section 3.3.1 of the Technical Committee Market Manual – The TC shall prepare an Annual Report to be submitted to the PEM Board not later than three (3) months from the end of the calendar year. The report shall cover the Committee's accomplishments and pending issues and activities for the stated period. It shall also include the work plan of the Committee for the succeeding calendar year.

² WESM Rules Clause 1.7.2. *Responsibilities of the Technical Committee*

³ WESM-TCMM-003 Section 4.3 *Procedures*

2.2 Membership

Pursuant to Section 8.1 of the WESM Manual on Guidelines Governing the Constitution of the WESM Governance Committees (Issue 5.0), the TC shall consist of seven (7) members:

Composition	PEM Board-Appointed Member/Representative	Date of Appointment
Three (3) Independent Members	Mario R. Pangilinan	<ul style="list-style-type: none"> March 2022 to present (as Chairperson) November 2021 to February 2022 (as Member)
	Jaime V. Mendoza	<ul style="list-style-type: none"> December 2022 to present
	Wilbert Rey D. Tarnate	<ul style="list-style-type: none"> March 2023 to present
One (1) Member representing the System Operator	Ermelindo R. Bugaoisan Jr.	<ul style="list-style-type: none"> August 2018 to present
One (1) Member representing the Market Operator	Edwin N. Mosa – Principal Member Cyril Recto S. Calub – Alternate Member	<ul style="list-style-type: none"> January 2023 to present
One (1) member representing the Generation Sector registered under the WESM Rules	Daniel H. Valeriano, Jr. – Principal Member Dennis L. Enciso – Alternate Member	<ul style="list-style-type: none"> May 2023 to present
One (1) member representing the Distribution Sector registered under the WESM Rules	Froilan J. Savet – Principal Member Danilo C. Bagtasos – Alternate Member	<ul style="list-style-type: none"> May 2023 to present

In performing its responsibilities, the TC conducts regular monthly meetings and special meetings, as necessary. For 2024, the TC conducted twelve (12) regular meetings in an alternate manner of either face-to-face or online (via MS Teams). The TC likewise participated in various external meetings, hearings, and events.

3.0 TC ACCOMPLISHMENTS FOR 2024

3.1 TC 2023 Annual Report and 2024 Work Plan

The TC submitted its 2023 Annual Report and 2024 Work Plan to the PEM Board on 25 March 2023 and the same were published in the PEMC website on 27 March 2024 in accordance with Sections 3.3.1 and 3.4.1 of the TC Market Manual (Issue 3.0).

3.2 Assessment of the Threshold for the Implementation of Price Substitution Methodology (PSM)

In compliance with the ERC directive based on ERC Case No. 2017-042 RC and WESM Manual on Price Determination Methodology (PDM) Issue 3.0, the PEMC, in consultation with the TC, submitted a report to the ERC dated 27 March 2024 covering the following:

- i. PEMC to assess the application of the price trigger and the results of the assessment shall be submitted to the WESM Technical Committee for evaluation and for determination as to whether a change in the value of the price trigger is warranted. The result of the review shall be submitted to the ERC for information and approval; and
- ii. During the transition period (commencing upon promulgation of the Decision), PEMC shall study the congestion issues experienced by the regions, taking into consideration the state of infrastructure of transmission and distribution facilities, and how these conditions affect the Price Trigger Factor (PTF) and the pricing of electricity, and shall submit pertinent recommendations relevant to the study.

Based on the result of the assessment, the following were recommended:

Threshold on the Application of Price Substitution Methodology (PSM)

1. Further review of the current methodology for the determination of new threshold to consider the following:
 - a. It is not advisable to add the threshold loss and threshold congestion component since the range of values are generally not comparable; and

- b. Explore specifying additional criteria for exclusion in the computation of the threshold loss and congestions component.

Congestion Issues Experienced by the Regions

1. Investigation and reconciliation of the apparent congestions and how it will affect the application of PSM in the WESM.
2. Further assessment on the application of PSM given that spring washer may be considered as a pricing error. If spring washer is considered as pricing error, explore if it can be addressed using network constraint relaxation or other methodology similar to the use of constraint violation coefficients (CVC) for automatic pricing re-run.

3.3 Assist in the Conduct of Activities for the Review of Metering Installations and Arrangements (RMIA)

In response to the request by the PEM Audit Committee (PAC), the TC submitted a report dated 23 February 2024 regarding TC's review of the 4th RMIA findings.

The general comments of the TC are as follows:

1. The overall risk and compliance assessment should be consistent with the risk and compliance framework as indicated in the Inception Report with minimal adjustments;
2. The risk and compliance assessment should be supported by evidence consistent with the definitions of risk rating and compliance rating as indicated in the Inception Report;
3. Avoid the use of "Compliance" levelling if it creates ambiguity in the audit assessment. Leverage on hard documents to establish non-compliance and give the auditee burden of proof otherwise;
4. Ensure consistent use of classifying the status of addressing each past audit finding as defined in the Inception Report; and
5. On the audit findings that were justified to be difficult to implement, consider reviewing the relevant Rules and/or Manuals on transitory period provisions and the relevant PGC provisions regarding request for derogation.

The TC likewise conducted two coordination meetings with PAC and APEX (Consultant) dated 07 and 15 February 2024.

3.4 Provide Comments to Various Call for Comments

The TC submitted various comments in response to various call for comments, as follows:

3.4.1 DOE Call for Comments on Causer Pays Mechanism (CPM)

The written comments of the TC was submitted to the DOE through the consolidated comments of PEMC dated 25 April 2024. The general comments of the TC are as follows:

- a. The CPM principle, as written in the draft circular, is inconsistent because (i) it predetermines cost recovery allocation among Transmission Network Provider (TNP) and grid users, not the actual causers; (ii) Forced Outage Rate (FOR) are averages instead of the actual Forced Outage (FO) per settlement interval; and (iii) the scheduling and actual use of AS should be based on measurable real-time information per settlement interval (no revenue meters like energy). Also, the proposals are not reflective of the actual causers and based only on predetermined allocations.
- b. The CPM, as written, seems to serve as a price mitigating measure in the Reserve Market. It might be better to show mathematically or conceptually, and give supporting examples, on how the CPM will mitigate spot price and how it will affect the settlement process in WESM. Also, how will the CPM affect the ERC-approved PDM?
- c. Aside from uncertainty that the proposal will reduce Ancillary Services (AS) rates to Distribution Utilities (DU), this will also not help in addressing reserve inadequacy. Perhaps, it would be better to first assess the overall impact of the AS market implementation including the possible lowering of spot energy prices in the WESM.
- d. In terms of classifying AS, the TC recommends the use of Regulating, Contingency, and Dispatchable Reserves as currently defined in the WESM Rules (as of 13 February 2024) since these are more transparent and easier to monitor/track, among others. Also, AS certification and offers in the Reserve Market are also based on this old classification. Moreover, the definitions of Primary, Secondary, and Tertiary Reserves as currently defined in this draft Circular and in the Philippine Grid Code (PGC) 2016 may need revisiting.

- e. What were the bases for the cost recovery mechanism as stated in Section 1 and for the percentage allocations as stated in Section 3? How was the allocation of the cost recovery of the Primary Reserve of 50% - GenCos, 25% - TNSP, and 25% - Customers arrived at? We suggest providing the bases for these.
- f. How will this Circular affect the prevailing Ancillary Service Cost Recovery Mechanism? Will this automatically supersede the Decision under ERC Case No. 2006-049 RC?

The TC likewise participated in various public consultations organized by the DOE regarding the subject draft Department Circular via online.

3.4.2 Rules Change Committee (RCC) Call for Comments to GNPk's Proposed Amendments regarding Must-Offer Rule

The written comments of the TC in response to the RCC Call for Comments on GNPk Kauswagan Ltd. Co.'s Proposed Amendments to the WESM Rules and WESM Manual on Dispatch Protocol regarding Must-Offer Rule (ORCP-WR-WM-24-02) was submitted to the RCC on 31 July 2024.

In its submitted comments, the TC expressed its differing opinion on the subject proposal noting that there are bigger issues that need to be addressed:

- a. One of the bigger issues is that the current design principle of the WESM on self-commitment, where trading participants are responsible for the management of their technical operations and unit commitment decisions and other market risks through submission of offers to the WESM, may be inconsistent with the gross pool concept of the market. Such inconsistencies may result in participants' manipulation of offers to achieve start-up/shutdown or stay above their minimum stable load (P_{min}).
- b. Furthermore, the proposal seeks to provide an exemption to the must-offer rule (MOR) which may encourage capacity withholding. These instances, even with the must-offer rule, is a systemic problem which has been observed since the beginning of the WESM. The TC previously raised these concerns as part of its submitted

comments on the proposed amendments regarding maximum available capacity dated 03 January 2023.

The TC representatives participated during the deliberation of the subject proposal last 16 August 2024 (234th RCC regular meeting) and 03 September 2024 (235th RCC caucus meeting).

3.4.3 RCC Call for Comments on IEMOP's Proposed Amendments to the WESM Rules and Various WESM Manuals regarding Energy Storage Systems (ESS) in view of the DOE DC2023-04-0008

The TC submitted its comments to the RCC dated 10 October 2024 which highlighted, among others, the TC's concern regarding operationalization of allowing the System Operator (SO) to own an ESS:

- If the SO is now allowed to own ESS, it will likely be a stand-alone ESS and if the intention is to help the grid, then it will grid-connected
- Since grid-connected, it will be registered in the WESM wherein a market trading node will be designated to an SO-owned ESS
- Having a market trading node, it is still unclear how it will function (i.e., can it trade in the WESM as gen/load?)
- Nonetheless, it seems that the policymaker and regulator already agree that the SO can own ESS

3.5 Request for Technical Study/Review

The TC completed the following requests for technical study and review:

3.5.1 Viability of RE as Embedded Generator

In response to the PEMC Office of the President's (OP) request for technical study on the viability and technical impact of renewable energy resources installation in the Electric Cooperative/Distribution Utility level, the TC submitted a report dated 20 December 2024 with the following highlights:

- a. The report examined the relevant policies and guidelines to serve as a guide for potential investors and stakeholders in developing Renewable Energy Embedded Generator (RE-EG) in the country. Based on review and documentary research, the viability of RE resources to connect and operate in the distribution system is generally influenced by various technical and financial factors.
- b. While it is important to note that there are existing RE resources in various distribution franchise areas, the TC is of the opinion that there are major issues and challenges that need to be addressed to facilitate the influx of RE-EG projects which include regulatory considerations and policy inconsistencies.

3.5.2 Market Intervention Event on 17 August 2024

The TC submitted its position paper to the PEM Board through a memo dated 07 November 2024 in line with the PEM Board's directive to the Market Surveillance Committee (MSC), in coordination with the TC, on the attribution of the Market Intervention (MI) event that occurred last 17 August 2024.

In its submitted report, the TC highlighted the following:

- The subject MI could not be considered as force majeure since the outage of the Calbayog Substation was a scheduled event and duly relayed by SO.
- The TC believes that failure of the Market Management System (MMS) particularly in the market dispatch optimization model (MDOM) is attributable to the MO
- Also, the TC is in the position that the MMS should still be able to produce feasible solutions even during islanding conditions, especially when the isolated portion is not significant (i.e., isolation of Calbayog substation)
- The isolation of Calbayog substation can be considered as a minor event, and it should not affect the market results of the entire Luzon-Visayas-Mindanao grids even for one interval.

3.6 TC Mandate Under DOE Circular No. 2023-04-0008 (TPSP)

On 04 October 2024, the TC submitted a letter to the PEM Board seeking guidance in relation to Section 11.1.1 of the DOE Circular No. 2023-04-0008 mandating the TC to facilitate and approve

the entry and participation of third-party service providers (TPSP) to conduct testing standards and procedures and accreditation of AS provider for SO-owned ESS, through an accreditation process duly approved by the ERC.

In its effort to comply with the said requirement, the TC is faced with the following implementation issues which may prevent the Committee from pursuing its mandate:

1. Limited time and resources – the TC is composed of seven members who meet at least once a month with the support of the secretariat provided by PEMC. The TPSP accreditation process will require a full-time organization but, currently, TC is already burdened with the IGMG functions. The TC also finds it inappropriate for the PEMB not to be part of the accreditation process when it provides all the technical and financial support to the TC.
2. Adopting test for ESS application – the TC is still awaiting the finalization of the AS rules and ESS rules, which are still undergoing public consultation. In addition, related documents such as the Philippine Grid Code (PGC), Philippine Distribution Code (PDC), Open Access Transmission Service (OATS) and WESM rules still need to be reviewed to ensure that ESS requirements are covered.
3. SO-owned ESS – the TC is of the opinion that ownership of ESS by SO will impact, if not disrupt, the competition in the energy and reserve market. The SO and Transmission Network Provider (TNP) are based on Return-on-Rate Base (RORB) and Performance-based Regulation (PBR) regulatory model while generators are market-based (i.e., bilateral and spot transactions). While the TC is aware that SO ownership may boost system stability and reliability, such policy should be carefully weighed and studied considering its possible impact on the electricity market.

In addition to the TC's letter to the PEM Board is the brief report on the position of the committee on the subject matter, including suggestions for the circular concerned. The TC likewise presented its position The TC likewise presented its position to the Board Review Committee (BRC) dated 15 October 2024 and to the PEM Board dated 23 October 2024 during the 77th Regular PEM Board Meeting

The TC is currently awaiting further instructions from the PEM Board on the subject matter.

3.7 Attendance to Various PEMC Meetings and Events

The TC attended and/or participated in various PEMC meetings and events, as follows:

1. Participation to PEMC-Castalia Meeting regarding Transmission Network Program Project

The TC participated in the kick-off meeting facilitated by Castalia (Consultant) last 15 March 2024 regarding the technical assistance provided by the USAID to the DOE through the project entitled “Transmission Network Program Project”.

2. Participation to PEMC-Elia Grid International Meeting

The TC participated in the meeting facilitated by Elia Grid International (EGI) last 13 March 2024 which intends to forge partnership and extend their expertise on the grid impact on the variable renewable energies in the Philippines.

3. Participation to NGCP’s Transmission Development Plan (TDP) Consultation

The TC participated in the NGCP’s TDP consultation with PEMC and IEMOP held last 30 July 2024 at the PEMC office. The said activity is part of NGCP’s consultation process to solicit comments and recommendations on the TDP 2024-2050.

4. PEMC Plant Visit to Caliraya Hydroelectric Power Plant (CHEPP)

One of the Independent TC Members participated in the PEMC plant visit to CHEPP last 25 March 2024.

3.8 Interim Grid Management Committee (IGMC) Activities

The ERC Resolution No. 04, Series of 2023, entitled *A Resolution Constituting an Interim Grid Management Committee (GMC) for a specific purpose and Perform Limited Functions Under the Philippine Grid Code*, promulgated on 03 May 2023 constituted the IGMC with the PEMC TC as its initial core members together with representatives from the ERC’s Regulatory Operations Service (ROS), and the Market Operations Service (MOS).

In the said resolution, the IGMC are mandated to perform the limited following limited functions as provided under the PGC:

1. Monitor the implementation of the PGC;
2. Monitor, evaluate, and make recommendations on Grid planning and Grid operations;
3. Review and recommend standards, procedures, and requirements for Grid connection, operation, maintenance, and development; and
4. Other tasks that the commission may specifically delegate other than the regulatory power of the Commission.

3.8.1 Investigation of Grid-related Significant Incidents

In compliance with the subject resolution issued by the Commission, the TC, as the IGMC, conducted assessment on the following grid-related significant events:

Report Title	IGMC Conclusion/Recommendations
<p>Review of Significant Incident Report regarding Panay Sub-grid Blackout last 02 January 2024</p> <p>Submitted by IGMC to ERC, copy-furnished the PEM Board of Directors, on 19 January 2024</p>	<p>Based on the IGMC’s review, the IGMC suspects that the blackout was caused by voltage instability in the Panay Sub-grid. With this, the IGMC provided recommendations to prompt the NGCP to undertake more decisive actions to prevent a repeat of the incident in Panay and Negros sub-grids. Particularly, the IGMC would like to suggest prioritizing and coordinating the actions of NGCP as follows:</p> <ol style="list-style-type: none">1. Complete the upgrade of Cebu-Negros-Panay backbone to 230-kV (delayed since 2023)2. Implement Under Voltage Load Shedding (UVLS) immediately in Negros and Panay sub-grids (studies completed; for implementation per NGCP)3. Upgrade 69-kV sub-transmission protection in coordination with UVLS implementations (work completed as per NGCP)

Report Title	IGMC Conclusion/Recommendations
	<ol style="list-style-type: none"> 4. Review of major power plant protection and control systems and performance (simple coordination may not be adequate; revisit plan) 5. Introduce zonal reserve allocation for Negros and Panay sub-grids in coordination with UVLS implementation (study completed; for implementation) 6. Apply P-V analysis in SO contingency planning and imposition of over-riding constraints in WESM (study completed; needs coordination with IEMOP) 7. Consider voltage stability in WESM security-constrained economic dispatch (study completed; needs coordination with IEMOP) <p>The IGMC further recommends the consideration of some key items for regulatory and policy making that will help in promoting transparency, compliance, and accountability among stakeholders in the long run and on a wider industry perspective.</p>
<p>Review of Significant Incident Report on 01 October 2023</p> <p>Submitted by IGMC to ERC copy-furnished the PEM Board of Directors on 02 April 2024</p>	<p>After reviewing the reports and related documents provided by NGCP, the IGMC believed that the occurrence of the single line-to-ground fault, resulting in the tripping of the Nagsaag – San Jose 500 KV Line 2 due to lightning, was attributed to the high ground resistance resulting in the flashover of the insulator due to the high discharge voltage between line and ground that developed when the discharge current was diverted to ground. This issue could have been mitigated if the system had been properly grounded and protected by a functioning lightning arrester.</p>

Report Title	IGMC Conclusion/Recommendations
	The IGMC, in its report, likewise raised additional questions for consideration of NGCP as part of its action plans, if not yet implemented, to prevent the recurrence of the same incident.
Review of Significant Incident Report regarding 01 March 2024 Panay Incident	Based on the disturbance analysis report (DAR) provided by the NGCP to the IGMC, the TC deemed that this issue is already resolved noting the completion of the 230 kV Cebu-Negros-Panay (CNP) Phase 3 project. The TC agreed not to conduct further investigation on the said incident.

3.8.2 Provide Comments and/or Proposed Amendments to Various Call for Comment

The IGMC submitted to ERC its official comments on 08 February 2024 regarding Philippine Independent Power Producers Association Inc.'s (PIPPA) Proposed Rules for the Reliability Performance and Equivalent Forced Outage Days Per Year of Generating Units (ERC Case No. 2023-001 RM).

3.8.3 Proposed SIR Reporting Protocol

The IGMC sent a letter to ERC dated 14 March 2024 seeking further directions from the Commission on how to proceed with its recommendations on the policy and regulatory improvements. Specifically, the IGMC is recommending an alternative communication protocol in lieu of the rules and procedures for SIR.

The IGMC provided a presentation to the ERC during the IGMC Meeting last 08 May 2024 upon the request of ERC through its letter dated 03 May 2024.

3.8.4 Other Reports or Studies, as may be directed by DOE or ERC

- a. Mindanao-Visayas Interconnection Project (MVIP) System Integrity Protection Scheme (SIPS)

The IGMC submitted its evaluation of the proposed MVIP SIPS to the ERC on 21 February 2024 in response to the ERC letter dated 16 January 2024.

b. Decommissioning of Davao-Toril-Matanao System Integrity Protection Scheme (SIPS)

The IGMC sent a letter to the ERC dated 06 March 2024 in compliance with the ERC's request to evaluate the decommissioned Davao-Toril-Matanao SIPS.

c. Therma Visayas Inc.'s (TVI) Request for Exemption from Grid Capacity Limit

The IGMC sent a letter to the ERC dated 11 July 2024 in response to the ERC's request for IGMC's recommendation on the subject.

3.8.5 Attendance/Participation in IGMC-related Tasks or Meetings

a. ERC Meetings and Hearings related to the Panay Blackout in January 2024

- The IGMC attended face-to-face meetings with ERC last 22 and 30 January 2024 related to the investigation of the Panay blackout incident. Also, the IGMC participated in various ERC hearings related to the Panay incident on 26 February 2024 and 21 March 2024. During the 21 March 2024 hearing, the ERC announced that they will release another ERC Order on the possible next step of the investigation.

b. NGCP 2024 Generators Conference

- The IGMC served as one of the resource speaker and presenter during the Luzon (June 13), Visayas (June 6), and Mindanao (June 20) legs of the NGCP 2024 Generators Conference with the topic "Grid Control and Protection". The NGCP invited the IGMC, through the ERC, to deliver the said presentation in its annual conference participated by generators and energy stakeholders which aims to foster collaboration and knowledge exchange among industry experts on critical topics related to generator operation, system stability, and renewable energy integration.

4.0 ONGOING ACTIVITY

4.1 Market Surveillance Committee Request for Study

The MSC, through a letter dated 21 November 2024, requested the TC to study the islanding situations in the WESM that led to market intervention events, and to provide possible recommendations to address the same. During the TC Regular Meeting last 04 December 2024, the TC agreed to proceed with the study request to be incorporated as part of the 2025 TC Work Plan.

5.0 2025 TC WORK PLAN

Annex A provide details of the TC's program of activities for 2025 consistent with the PEM Board-approved PEMC's Corporate Strategic Plan for 2024-2026.

Submitted by:

TECHNICAL COMMITTEE

[signed]

MARIO R. PANGILINAN
Chairperson, Independent

[signed]

JAIME V. MENDOZA
Member, Independent

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WILBERT REY D. TARNATE
Member, Independent

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EDWIN N. MOSA
Member, Market Operator
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Philippines (NGCP)

[signed]

DANIEL H. VALERIANO, JR.
Member, Generator Sector
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[signed]

FROILAN J. SAVET
Member, Distribution Sector
Manila Electric Company (MERALCO)

TECHNICAL COMMITTEE 2025 WORK PLAN

February 2025

The table below provides the TC's 2025 Work Plan consistent with the PEM Board-approved 2024-2026 Corporate Strategic Plan of PEMC and various directives from the Department of Energy (DOE) and the Energy Regulatory Commission (ERC).

No.	Activity	Output	Indicative Timeline	Considerations/ Remarks
1	TC 2024 Annual Report and 2025 Work Plan	Submission to the PEM Board and publication in the PEMC website	Within Q1	In accordance with Section 3.3.1 of the TC Market Manual (Issue 3.0)
2	Assist in the conduct of regular audits for the WESM: <ul style="list-style-type: none"> • Review of Metering Installations and Arrangements (RMIA) 	<ul style="list-style-type: none"> • Assist the PEM Audit Committee (PAC) in the conduct of activities for RMIA, as required • Submit comments/suggestions on the report, as required 	Subject to the audit timeline	Subject to the PAC's requirement and timeline for the TC
3	Submit comments to the following as requested or required within specified timelines: <ul style="list-style-type: none"> • RCC Rule Change Proposals • DOE Circulars • ERC Issuances 	Provide comments as necessary and/or applicable	As scheduled	As applicable

No.	Activity	Output	Indicative Timeline	Considerations/ Remarks
4	Submit proposed amendments to the RCC as a result of market studies or best practice recommendations	Submit TC-initiated proposed amendments to the RCC, as applicable	As scheduled	As applicable
5	Annual assessment of the threshold for the implementation of Price Substitution Methodology (PSM)	Evaluate the output of PEMC's assessment and determine as to whether a change in the threshold value is warranted	As scheduled	In accordance with Section 6.2.4 of the WESM Manual on Price Determination Methodology (PDM), assess the application of the price trigger and determine whether a change in the value is warranted
6	Conduct review and studies as requested through the TC request for study or review	Respond to the request for study/review	As scheduled	As applicable
7	Provide comments and/or inputs to various PEMC undertakings	Provide comments and/or inputs to various PEMC undertakings such as technical studies, research, and other related activities, as applicable	As scheduled	As applicable

No.	Activity	Output	Indicative Timeline	Considerations/ Remarks
8	Attend PEMC events and trainings	<p>Attendance in various PEMC events and trainings, as applicable:</p> <ul style="list-style-type: none"> • Annual General Membership Meeting (AGMM) • WESM Compliance Officer (WCO) Summit • Market Participants' Townhall (MPT) and Electricity Market Exchange (EMX) 	As scheduled	As applicable
9	Regular conduct of TC meetings (every 1 st Wednesday of the month, alternate face-to-face and online)	Participation in TC Meetings	As scheduled	As scheduled
10	Conduct of IGMC Meetings, as necessary	<ul style="list-style-type: none"> • Participation in IGMC Meetings, as necessary • Attendance/participation in IGMC-related tasks or meetings, as may be requested by ERC or DOE 	As scheduled	As applicable
11	Submit reports, comments, and/or proposed amendments, as required or as necessary	<p>Submit reports, comments, and/or proposed amendments, as required or as necessary:</p> <ul style="list-style-type: none"> • IGMC report on significant grid-related Incidents • Update/revisions to the PGC and PDC, as applicable 	As scheduled	As applicable

No.	Activity	Output	Indicative Timeline	Considerations/ Remarks
		<ul style="list-style-type: none"> • Proposed amendments to ERC resolutions and other issuances • Other reports or studies, as may be directed by DOE or ERC 		
12	Participate in the activities of Performance Assessment and Audit Team for the Operations of the Transmission Network Provider and System Operator (PAAT-TNPSO)	Provide inputs, as required	As scheduled	As required and subject to the project's timeline and instructions from the DOE and/or ERC