

Minutes of the Revenue Metering Standing Committee (RMSC)

Meeting date: Thursday June 22, 2023

Meeting time: 10:00 a.m.

Meeting type/location: In Person

Chair/Sponsor: Victoria Falvo, Sr. Manager, Meter Data Management

Chair and Facilitator: Daniel Maikawa, Technical Analyst, Meter Data Management

Objective

Review, inform, and discuss with Metered Market Participants (MMP) and Metering Service Providers (MSP) changes and updates with regards to revenue metering in the IESO-administered markets.

All meeting material is available on the IESO website at: [IESO Revenue Metering Standing Committee](#)

Agenda Item 1: Welcome Remarks (Presented by Victoria Falvo)

1. V. Falvo welcomed everyone back in person after 3.5 years of virtual RMSC meetings. MSP's overall performance has been positive over the past year. Topics to be covered throughout today's RMSC would include subjects such as the updates to the market rule amendments, settlement systems go-live and an overview of how it works, round table, and a formal survey for feedback.

Agenda Item 2: Administrative Items (Presented by Tiberiu Abid)

1. T. Abid reviewed previous meeting's action items. Refer to action item summary below for updates.

Agenda Item 3: Settlements Overview (Presented by Victoria Falvo)

1. Settlement Components
 - a. V. Falvo provided brief overview of the Settlements department structure and objectives. The Meter Data Management (MDM) team falls under the Settlements department, and the objective of MDM is to produce settlement ready delivery point data in accordance with the Market Rules.
 - b. V. Falvo provided 2022 Settlements results. (See presentation for details)

- c. V. Falvo emphasized that all data MSPs are responsible for is used for settlement calculations, and errors in metering data can have significant settlement impact.
- 2. Settlements at a Glance
 - a. V. Falvo presented a high level summary of 2022 statistics related to metering and market settlements. (See presentation for details)
- 3. Makeup of the Settlements Team
 - a. V. Falvo provided an overview of the Settlements team structure.
 - b. Settlements is comprised of two teams, MDM and Market Settlements. MDM Analysts, who communicate with MSPs on a regular basis, fall under the MDM team, supervised by Zahir Gohgari.
 - c. Revenue Metering (RM), supervised by Tiberiu Abid, is responsible for meter registration and conducts the metering field audits.
 - d. Customer Billing, supervised by Allison Ng, manages the settlement statements.
 - e. Analysis and Integration, supervised by Karan Ujla, manages the systems and tools used to develop settlements statements.

Agenda Item 4: IESO's Metering Updates (Presented by Zahir Gohgari, Daniel Maikawa, Tiberiu Abid)

- 1. Staff Updates
 - a. Z. Gohgari provided an overview of MDM's and RM's responsibilities, along with updates to the team changes within MDM.
 - b. RM's team focuses on metering registrations, physical meter audits, and development and maintenance of standards.
 - c. MDM's team focuses on the collection of measurement data, the VEE processing of meter data, the MTR process, supporting physical metering replacements, MTR hotline, and support tasks related to these processes. The ultimate goal is to create timely and accurate "delivery point settlement ready meter data".
 - d. Z. Gohgari outlined the staffing updates within MDM. Since the last RMSC, Ria Kalirai has joined the team as a student coop until August 2024. Ria has been on the team for a month and is working through concepts such as Power Outages and Main Vs Alts. MSPs will soon begin to interact with her.
 - e. Other transitions since the last RMSC include Moeed Khaqan, who has pursued other opportunities outside of the IESO, and Patricia Hillis, who is currently on a leave of absence.
- 2. Metering Installations by the numbers
 - a. Z. Gohgari presented the RMSC with an update to metering installations regarding physical, virtual installations and telephone line to TCP/IP conversions.
 - b. Out of the 2200 physical metering installations, 1851 (84%) are registered under the Declaration of Compliance, and 349 (16%) are registered under the Alternative Metering Installation Standard (AMIS)
 - c. There are currently 290 virtual metering installations, with 116 represented as station service, unmetered or allocated between MMPs, and 174 represent embedded

generation for the purpose of transmission tariff.

3. Metering Communications

- a. Z. Gohgari provided insights on metering communications
- b. Earlier this year MDM has upgraded MV90 to Version 7.
- c. There are a total of 4422 meters interrogated on a daily, with 99% of the metering population TCPIP, and 1% communicated with through phone lines.

4. Meter Trouble Reports Overview

- a. Z. Gohgari noted that many factors influence the number of MTRs. This includes storms, communication provider outages, etc.
- b. From November 2022 to May 2023, there have been 1270 communication MTRs, 1739 validation MTRs and 8 EITRP MTRs submitted.
- c. The volume of communication MTRs have dropped to the lowest in the past 2 performance cycles.

5. MSP Performance Metrics and Registration Updates

- a. Overall MSP Performance Summary
 - i. D. Maikawa summarized the purpose of the MSP performance report.
 - ii. On a monthly basis, 94% of metering installations do not experience communication MTRs
 - iii. On a monthly basis, 95% of metering installations do not experience validation MTRs
 - iv. D. Maikawa mentioned overall positive results in MTR responses and most of the Registration activity.
 - v. The Timely Submissions of Commissioning Reports (measure 11) has shown lower performance.
- b. MSP Performance Breakdown
 - i. D. Maikawa provided an analysis of MSP performance over the past 12 months, explaining the graph in detail.
 - ii. D. Maikawa outlined that that majority of the categories remain positive or exceed expectations, which includes the MTR process, Registration EURs/ SRR approvals and meter communications.
 - iii. D. Maikawa outlined that the Timely Submission of Commissioning Reports dropped below the targeted goals and performance dropped when compared to the previous 12 months.
- c. MSP Performance Monthly Breakdown
 - i. MSP performance with meter communications on first attempts vary from month to month, but have consistently exceeded targets.
 - ii. Validation MTRs issued, resolved and number of metering installations without validation MTRs have positive results and met targets.
 - iii. Registration performance in EURs and SRRs have had great performance, are approve within timelines, and have shown positive results.

- iv. D. Maikawa emphasized that commissioning reports are not consistent, and should be an area for MSPs to improve upon. The IESO recommends using commissioning report templates that can be found online. An MSP representative questioned when verification and test reports are due, and if extensions can be requested.

IESO outlined that both verification and test reports are due within 90 days of the approval date of the Engineering Unit Report. Verification reports cannot be extended, but test reports can be extended indefinitely as long as a valid reason is provided (i.e. insufficient load to perform test)

- v. An MSP representative questioned: since the IESO target is zero communication MTRs per month, can IESO exclude MTRs for circuits that are powered down for maintenance or load transfers.

IESO responded that in the case where there are planned outages and load transfers, MSPs can proactively submit outage MTRs to suppress communication MTRs.

A follow up question from an MSP representative asked what to do if the MSP is unaware that the customer will have an outage the day of.

IESO responded that as long as the outage MTR is submitted the day of, or before, then the communication MTR can be suppressed.

- vi. An MSP representative questioned if the IESO will attempt to call the meters on different ports.

IESO responded that this falls under troubleshooting between the IESO and MSPs. IESO does not attempt to call on alternate ports upon receipt of failed calls and/or VEEs. Any attempt to call a meter on different ports will be established through troubleshooting attempts between MSP and IESO hotline staff.

- vii. D. Maikawa noted the number of meter registry errors and non-conformance incidents remained zero.

d. PSS/FSS Performance Overview

- i. Unresolved MTRs after Preliminary Settlement Statement (PSS) and Final Settlement Statement (FSS) have decreased when compared to May 2021 – April 2022.
- ii. Number of PSS/FSS trade dates impacted by unresolved MTRs have decreased when compared to May 2021 – April 2022.

e. Meter Registration Hotline Activities

- i. 2023 hotline activities share similar behaviours as previous year trends. The year starts with lower levels of registration activity, and slowly ramps up as mid-year approaches.

- ii. 210 meter registrations have been completed so far in 2023, most of which are like for like updates.
- iii. D. Maikawa mentioned the positive collaboration between field technicians and our registration hotline desk to ensure the successful meter registration process.
- iv. An MSP representative asked if the MSP has an outage that ends in a week, what are IESO's recommendations on submitting an Outage MTR.

IESO encouraged MSPs to submit an outage MTR for any planned outages, and provide expected end date within the MTR summary.

6. Market Rule Amendments Due to RSS Project

- a. T. Abid provided updates regarding the market rule amendments due to the RSS project. Details of the rule amendments were captured on the market rule amendment proposal. The [document](#) is available under the market rules web site. Chapter 6 contains information for metering.
- b. Rule amendments were approved by March 8, 2023 and effective as of May 1, 2023, and RSS 1.0 was in service as of May 1, 2023.

Agenda Item 5: Modernization of the Electricity & Gas Inspection Act (Tiberiu Abid)

- 1. T. Abid noted that for the past 40 years, there have been no significant changes surrounding the laws governing trade measurement.
- 2. The purpose of this presentation was to create awareness among the RMSC members on the modernization of the Electricity and Gas Inspection Act (EGIA)

Agenda Item 6: Round Table (All Members)

- 1. An MSP representative asked if MSP performs spot check on an installation that was selected for audit prior to the audit date, will the IESO issue a non compliance (NC) if the cadence has not been up kept?

IESO responded that if a spot check has been performed prior to the audit, the MSP will not be issued a NC.

- 2. An MSP representative raised the topic of load transfers and expressed the difficulty in providing granularity in MTR responses under certain scenarios IE: when load is transferred from one place to multiple places, or from a lightly loaded feeder to a heavily loaded feeder. The representative also expressed that there may be cases where detailed load transfer information is not available from their system operations staff. MSP asked if IESO would consider these various scenarios when reviewing and responding to MTRs.

IESOs responded with emphasis on the importance of MSPs verifying that all transferred load is being properly captured by a registered meter installation, and any load that is not being

metered is being estimated via a market rule approved method. IESO expects that through the MTR process the MSP will do their due diligence to verify this. IESO agrees that under certain circumstances load transfers may be difficult to track in the data and is working with the team to take this into account when responding to MTRs and accepting MSP's MTR resolutions.

3. An MSP representative inquired about the conforming meter framework. MSP mentioned that the Schneider's ION 9000 was submitted for review, and asked if there were any other manufacturers who submitted.

IESO responded that we always welcome other meter manufactures to certify and register their meters as wholesale revenue meters. Although IESO was approached by some meter manufactures to discuss the requirements to register their meters with the IESO, nothing has yet materialized. In addition, the IESO has yet to receive a submission of the ION 9000 to be added onto the Conforming Meter List.

4. An MSP representative asked if there are alternate processes to manage the time sync with the settling process with different meters and applications. MSP mentioned that satellites have been used in the industry to synchronize meters. MSP also mentioned that an IRIG configuration can be configured with ION meters outside of the seal.

IESO responded that they appreciate the feedback but requires additional review and insights from the MSPs (understand the need/challenge) before considering alternatives to synchronize meter clocks.

5. An MSP representative raised concerns surrounding Measurement Canada's meter requirements and the leniency behind the enforcements of these requirements. MSPs mentioned that the supply and demand issues are impacting MSPs performance and suggested a temporary meter manufacturer while these issues remain. It was mentioned that the wholesale market is small compared to the retail market, and manufacturers do not see much value in pursuing the path of manufacturing meters for the wholesale market, when the requirements are so strict.
6. An MSP representative inquired about the development of the MSP Training Plan.

IESO noted that the development of the training materials has been delayed, but is currently on the list of action items to complete, with plans to begin the creation of training materials next year.

7. IESO advised that if members would like further discussion on the topics raised, to please reach out to them.

Agenda Item 7: Closing Remarks (Victoria Falvo)

1. V. Falvo closed out the RMSC meeting of June 22, 2023.
2. MSP Representatives were asked to complete a survey.

Action Item Summary

Item	Date	Action	Status	Comments
1	Jun 2022	IESO to invite committee members to continue discussion relating to meter phase rotation and remedial plan.	In Progress	June 23/22: Status quo – still waiting for Measurement Canada (MC) revisions Dec 7/22: Status quo – still waiting for MC revisions Dec 9/21: Follow up meeting conducted on Sep 15/21. The meeting did not yield any changes to the initial remediation plan. Based on IESO's discussions with Measurement Canada, it has been recognized the need to revise the current Measurement Canada S-E-08 to ensure clarity regarding this issue. MC plans to revise the SE-08 by Q3-2022. Until then, IESO will pause the enforcement of the current remediation plan. There is no action required by the MSPs until S-E-08 specifications are clarified/revised by Measurement Canada. The action item will stay open. Jun 24/21: The IESO will schedule a follow up meeting with the MSPs to discuss this further.

2	Dec 2022	IESO to consider options for creating a working group to further discuss evaluation methodology for commissioning report submissions.	In Progress	June 22/23: IESO is in process of analyzing commissioning reports to determine reasons and trends for rejecting metering commissioning reports. Based on the analysis results, the IESO will decide on the scope and framework of the working group
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