

Meeting date: 23/June/2022
Meeting time: 9:30 a.m.
Meeting location: Virtual (MS Teams)

Sponsor: Victoria Falvo – Senior Manager, Meter Data Management
Chair and Facilitator: Jeffrey Huang – Technical Officer, Revenue Metering

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)

Victoria recognized MSP performance continues to be very positive as of this year. A formal survey for feedback will not be included in this RMSC meeting. However, engagement and input through discussion and the chat feature is strongly encouraged. Victoria mentioned this is the 5th virtual RMSC meeting and IESO will reach out to MSPs on feasibility of an in-person RMSC meeting for Dec 2022.

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

2.1 Meeting agenda was approved final.

Previous RMSC meeting minutes were approved by the committee without objection.

The action items were reviewed and the revised status and comments are documented in the action item summary shown below.

An MSP representative inquired whether internal clock setting was found to be a better method as compared to line frequency setting. IESO mentioned there are both advantages and drawbacks of each method, and our canvassing has showed no issues from this setting. It's up to the MSP to consider and decide which setting to use.

Agenda Item 3: IESO's Metering Updates (presented by Zahir Gohgari, Daniel Maikawa, and Daniel Coffin)

- 3.1 Zahir shared the updates to the IESO metering staff and the current organizational chart. Kaiwen Zheng, the new Analyst in MDM at IESO, introduced himself to the MSP community.
- 3.2 Key statistics relating to IESO-Administered Markets' metering population and MTRs were presented. Zahir explained some of the reasons behind the increase in MTR volume were due to the earlier storms in the year and Firewall/VPN issue. Highlighted we are continuing to see progress migrating phone line metering communications to TCPIP.
- 3.3 MSP performance over the last 12 months (May 2021 – April 2022) was presented. Overall MSP performance continues to be positive for metrics related to PSS, FSS, EURs, and SRRs.

However, it was noted that MSPs overall continues to perform below the target for Measure 11 "Timely Submission of Commissioning Reports".

Daniel M. noted that both SRRs Approved Within 2 Business Days and Timely Submission of Commissioning Reports performance have improved in comparison to the previous 12-month performance breakdown. PSS and FSS performance improvement can also be attributed to control measures such as the clean sweep support provided by IESO, however, it still remains MSP responsibility to monitor/resolve.

Hydro One MSP updated the RMSC attendees on the lower trends they experienced for measure #1 for communication success rate on first attempt. They have noticed positive trends after working through their issues with the IESO. Hydro One MSP offered to share their learnings with other MSPs that may be interested

- 3.4 Daniel M. commented on the meter registration activities with comparisons to the previous two years. Registration peaked in Summer 2021 and had a temporary increase in March 2022 (which could be attributed to MSPs meeting seal expiry dispensation deadlines due to COVID).
- 3.5 IESO has lifted the travel restrictions due to the pandemic and resumed province-wide metering installation audits.

An MSP representative asked if we planned to increase the number of audits in the future to take into consideration the location limitations due to COVID. IESO answered that the plan is to return back to the same number of audits pre COVID, and maintain that level going forward.

Replacement of the IESO Settlement System (RSS) project will result in market rule amendments including the mitigation of financial risk by changing the settlement limitation period to two years from the current 7 years. IESO recommended that both, the MMPs and MSPs, to review the proposed market rule amendments, mainly the amendments in Chapter 6 and Chapter 6, Appendices. For additional details regarding the proposed market rule amendments, reasons of the IESO Board in respect of an amendment to the market rules, resolution of the IESO Board of Directors, and OEB letter, please refer to the IESO website "[Proposed Market Rule Amendments](#)". Please refer to the [Market Rule Amendment Proposal](#) for details about these proposed market rule changes.

The market rule amendments will become effective November 1, 2022, in line with the RSS project schedule for the new settlements system in service date. Any changes to the RSS project schedule that may impact the in service and implicitly the market rule amendments effective date will be communicated to the RMSC members accordingly.

One of the market rule amendments requires the Instrument Transformer (IT) checks to be performed every eighteen-months, currently every six years. IESO noted that the new IT testing cycle requirements are based solely for the purpose of alignment with the new settlements limitation period.

An MSP representative asked about the potential ramifications of not performing the IT checks based on the new testing cycles. IESO stated this would be a breach of market rules.

An MSP representative asked about the need to submit to the IESO the IT test reports. The IESO indicated that the reports are not required to be submitted to the IESO on a regular basis.

Similar to the process today, the IESO will require to review these reports as part of the metering installation audit documentation. However, if the IT checks uncover any errors, the MSP shall report the errors to the IESO right away, as per the requirements described in the market rule amendments, Chapter 6, section 10.4.

An MSP representative inquired whether the new eighteen-months requirement is applicable to all metering installations, including for embedded resources. The IESO stated that the rule will apply to all metering installations regardless if the resources are directly grid connected or embedded in the distribution system.

An MSP representative asked what happens to the new eighteen-months IT check requirement if the metering installation is on extended outage which exceeds the eighteen-months period. IESO will review the inquiry and will provide clarifications.

Agenda Item 4: Commissioning Template (presented by Daniel Coffin)

- 4.1 Daniel stepped through the Commissioning Verification Report Template and Commissioning Test Report Template. Within Test Report template, Daniel went through various fields for the IT Spot Check and Cross-Phase Test.

An MSP representative also identified a few minor errors in the Test Report template, which IESO asked the MSP to send an email to Daniel and Metering Installation to review the errors.

An MSP representative inquired on the requirements and flexibility of the Pass/Fail Criteria for testing ITs and stated the added complexity of getting precise results during irregular load. Daniel clarified that IESO may accept reactive channels exceeding the 3% error and recommended MSPs to execute testing during more consistent load profiles. MSPs can reach out to IESO for support/insight for specific anomalous cases.

An MSP representative asked whether MSP can start using the draft commissioning templates, and Daniel answered that the MSP can start using the templates for commissioning submissions.

Agenda Item 5: IESO Other Updates (presented by Daniel Maikawa and Jeffrey Huang)

- 5.1 Daniel has also confirmed that all meters (in-service or in inventory) are no longer vulnerable to this unlocked module issue as all meters affected by the Schneider unlocked module vulnerability have either been resealed or super-user password has been implemented.

Alectra MSP provided additional insight into super-user password. It was found that MSP would have limitations to some of programming work and not be able to implement changes that they were accustomed to doing in the past because of this lockdown. IESO clarified that any of the two options can be utilized and if the super user password limited the MSPs ability to utilize other features of the meter then the reseat option can be used.

- 5.2 Daniel walked through the changes to Market Manual 3.2 specific to the revision of the commissioning requirement template. MSPs are provided additional clarity on the commissioning requirements when planning meter update requests.

- 5.3 Daniel discussed the current threshold requirement for the injected load tests in the Engineering Unit Reports and the acceptability to lower this requirement from 2.5 amps to 0.5 amps.
- 5.4 Jeffrey discussed IESO's studies comparing the line frequency setting versus internal clock. IESO observed that the internal clock setting was better at maintaining the clock accuracy and avoid time drift. Based on the studies and MSP feedback, the requirement for allowing internal clock has been added to the meter frameworks. The conforming Meter List containing the updated conforming meter frameworks can found in the IESO workspaces.
- Jeffrey stated that the new frameworks are effective July 1st, 2022 and both line frequency setting and internal clock setting will be allowed going forward.

Agenda Item 6: MSP Training Program (presented by Jeffrey Huang)

- 6.1 Jeffrey provided update on metering training program and covered topics for MSPs. Training plan will be in development starting later this year. IESO will develop the training plan in stages and post it to IESO Workspaces for MSP review and comment. Jeffrey also discussed the approaches of training and emphasized that the training plan serves only as a guideline and it remains MSP's responsibility to comply with the market rules or market manuals.
- An MSP representative asked for clarification on the timelines of the training program. IESO doesn't have an exact timeline as to when the materials will be available but that it will be provided in stages. Instructor led training would likely scheduled in 2023 based on demand and feedback received from the MSPs.

Agenda Item 7: Roundtable Discussion

- 7.1 An MSP representative asked if the IESO Market Renewal Program will have any impact on MSP or settlement functions.
- Zahir indicated that we shouldn't anticipate significant changes to the metering infrastructure, requirements and rules. Changes would be more specific to settlement processes such as the charge types and calculations. Zahir encouraged MSP to be part of the stakeholdering process and use the various MRP related communications and reporting venues to stay up to date with the settlements impact of MRP.
- 7.2 An MSP representative asked if RMSC members would be able to attend RMSC virtually once the RMSC meetings are back in-person.
- Victoria responded IESO is looking into the possibility of a hybrid meeting with the capability to join in-person or virtually especially if it will enable an increase in attendance participation.

Agenda Item 8: Closing Remarks (Victoria Falvo)

Victoria shared a summary review of today's RMSC meeting and expressed the intent to meet again at the next RMSC in Late 2022.

Victoria reiterated the positive MSP performance on the various metrics and asked MSPs to continue to provide feedback on the Commissioning template. MSPs were encouraged to view the market rules and market manual changes specific to metering as a result of the replacement of the settlement system project. MSPs were asked to provide any questions or clarifications related to the market manual changes and related to the future training program and materials.

Action Item Summary

	Date	Action	Status	Comments
1	Dec 2020	IESO to review and have a discussion internally to see how to best support MSPs with training requirements. MSPs are encouraged to provide their input via email which could result in an joint working group.	Closed	Jun 23/22: IESO Wholesale metering training plan was submitted to RMSC members. The action item was closed at the meeting. Dec 9/21: IESO conducted a survey on this topic. The survey details and next steps were discussed as part of the meeting. Starting in 2022 the IESO will engage with the MSPs to develop the training plan. The action item was closed at the meeting. Jun 24/21: IESO intends to develop a formal MSP Training Plan document to support the MSP's training needs in the future. The IESO will reach out to the MSPs with a survey to assess the MSP training needs and develop the training plan.

	Date	Action	Status	Comments
2	Jun 2021	IESO to invite committee members to continue discussion relating to meter phase rotation and remedial plan.	Open	June 23/22: 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 S-E-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.
3	Dec 2021	IESO to revise the appropriate rules to allow meter settings to crystal (internal) clock.	Closed	Jun 23/22: Conforming Meter Frameworks have been revised to allow crystal (internal) clock as time source setting. Conforming Meter List has been updated with the latest frameworks in Workspaces.

Invitees	Representing	Attendance Status Attended, Regrets, Teleconference
Philip Genovese	Alectra Utilities Corp.	Attended
Vito Genovese	Alectra Utilities Corp.	Attended
Rob Henschel	Alectra Utilities Corp.	Attended
Robert Hnatejko	Alectra Utilities Corp.	Attended
Gary MacIsaac	Alectra Utilities Corp.	Attended
Karen McCarthy	Alectra Utilities Corp.	Attended
Alice Roman	Alectra Utilities Corp.	Attended
Denis Tse	Alectra Utilities Corp.	Attended
Ted Villemaire	Alectra Utilities Corp.	Attended
Amelie Morissette	Brookfield Renewable	Attended
Joe Klassen	Erth (Holdings) Inc.	Attended
Ankit Patel	Erth (Holdings) Inc.	Attended
Tyler Gray	Electek Power Services Inc.	Attended
Mark Vanderheide	Electek Power Services Inc.	Attended
Jake Stavinga	Elexicon Energy	Attended
Jessie Bondy	Enwin Utilities Ltd.	Attended
Patrick Casey	Essex Energy Corp.	Attended
Jacek Kliber	Essex Energy Corp.	Attended

Invitees	Representing	Attendance Status Attended, Regrets, Teleconference
Zhenhan Luo	Hydro One Networks Inc.	Attended
Kimberly Maves	Hydro One Networks Inc.	Attended
Peter Mitskos	Hydro One Networks Inc.	Attended
Jaspreet Nijjar	Hydro One Networks Inc.	Attended
Nikola Tripic	Hydro One Networks Inc.	Attended
Chen Wei	Hydro One Networks Inc.	Attended
Ryan Toonders	Hydro Ottawa Ltd.	Attended
Terry McConnell	Meter Services Peterborough	Attended
David Sharpe	Meter Services Peterborough	Attended
Andrew Watts	Meter Services Peterborough	Attended
Nand Arora	N-Sci Technologies Inc.	Attended
James Mann	N-Sci Technologies Inc.	Attended
Alexander Morin	N-Sci Technologies Inc.	Attended
Rob Reid	N-Sci Technologies Inc.	Attended
Anusan Balachandran	Rodan Energy Solutions Inc.	Attended
Dave Belluz	Rodan Energy Solutions Inc.	Attended
Ahmed Haji	Rodan Energy Solutions Inc.	Attended
Ali Hassan	Rodan Energy Solutions Inc.	Attended

Invitees	Representing	Attendance Status Attended, Regrets, Teleconference
Bohdan Lunycz	Rodan Energy Solutions Inc.	Attended
Benie Mabondo	Rodan Energy Solutions Inc.	Attended
Farhad Samadi	Rodan Energy Solutions Inc.	Attended
Joshua Van Brenk	Rodan Energy Solutions Inc.	Attended
Daniel Dillon	Thunder Bay Hydro	Attended
Vinson Kan	Toronto Hydro Electric System Ltd.	Attended
Rob Gudzak	Waterloo North Hydro Inc.	Attended