

Revenue Metering Standing Committee & Metering Service Provider Users Group

Minutes of Meeting

Date: June 12, 2018	Time: 9:00
Location:	Crowne Plaza – Toronto Airport
Meeting Sponsor:	Richard Zaworski – Senior Manager, Meter Data Management
Meeting Chair and Facilitator:	Christopher Reali – Engineering Supervisor, Revenue Metering, Meter Data Management

Meeting Objectives: Review, inform, and discuss with Metered Market Participants and Metering Service Providers changes and updates with regards to revenue metering in the IESO-administered markets.

No.	Name	Company	RMSC/MSP	Attended?
1	Aaron Murphy	Erie Thames Powerlines	MSP	Y
2	Afsaneh Goudarzi	Hydro One	MSP	Y
3	Ai Uehira	Hydro One		N
4	Ali Ahmed	Hydro One	MSP	Y
5	Bill Luo	Horizon Utilities	MSP	Y
6	Bohdan Lunyys	Rodan Energy Solutions	MSP	Y
7	Charles Qi (Zhanyue)	Hydro One	MSP	Y
8	Dave Sharpe	PUI	MSP	Y
9	Faruq Remtulla	Hydro One	RMSC	Y
10	Gary Nunes	Rodan Energy Solutions		N
11	Hans Paris	Guelph Hydro	RMSC	Y
12	James Mann	Thunder Bay Hydro	MSP	Y
13	Jaspreet Nijjar	Hydro One	MSP	Y
14	Jermaine Stern	Toronto Hydro	MSP	Y

15	Jessie Bondy	EnWin Utilities	MSP	Y
16	JohnAnn Turner	Brookfield Renewable	MSP\RMSC	Y
17	Kevin Myers	Veridian		N
18	Kris McPherson	Hydro Ottawa	MSP	Y
19	Mark Passi	Glencore		N
20	Mark Pearce	EnWin Utilities	MSP	Y
21	Mike Kuntz	Waterloo North Hydro	MSP	Y
22	Mike Lenarduzzi	Rodan Energy Solutions		N
23	Miroslav Karlicic	Utilismart Corporation		N
24	Mohnish Bilimoria	Hydro One		N
25	Muhammad Ali	OPG	RMSC	Y
26	M. Vanderheide	Blue Water Power	MSP	Y
27	Nishant Gehani	Rodan Energy Solutions	MSP	Y
28	Paul Szymanski	Hydro One	MSP	Y
29	Philip Genovese	Horizon Utilities	MSP	Y
30	Rob Henschel	Horizon Utilities	MSP\RMSC	Y
31	Robert Cappadocia	Toronto Hydro	MSP\RMSC	Y
32	Robert Gudzak	Waterloo North Hydro		N
33	Robert Hnatejko	Rodan Energy Solutions	MSP	Y
34	Robert Rossel	Toronto Hydro	MSP\ RMSC	Y
35	Roger Ersil	OPUC	MSP\RMSC	Y
36	Tyler Gray	Bluewater Power	MSP\ RMSC	Y

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

RMSC Agenda Items/Minutes:

1. **Welcome**

2. **Meter Clock Drift/Time Synchronization (Zahir Gohgari)**

- 2.1. Several comments and suggestions were raised by the MSP community to identify other root causes of time synchronization issues
- 2.2. MSPs were encouraged to attempt independent investigations to further refine the analysis presented by the IESO. Some questions were raised related to the absence of one system time to which all meters can refer
- 2.3. Several members voiced concerns about the causes of meter clock drift. The IESO noted financial impact was minimal but there will be future conversations with meter manufacturers to deepen understanding and identify next steps

3. **Station Service MR Amendment and Process (Christopher Reali)**

- 3.1. Participants questioned which party is obligated to submit the station service estimate. The IESO noted that the obligations rests with the organization that registers the facility with the IESO
- 3.2. For facilities that are registered with the IESO, the IESO requires agreement of station service factors. The IESO will verify this agreement through demonstration that all totalization tables reflect a consistent station service factor, which is the same as the station service factor separately submitted by the MP who registered the facility, and all ratios on the totalization tables demonstrate the station service factor has been fully allocated

4. **Baseline Updates**

4.1. **Wholesale Revenue Metering Standard – Hardware Update (Christopher Reali)**

4.1.1. No questions were posed by the committee

4.2. **No Load Loss Enhancement for Disconnected Transformer (Adnan Jabbar)**

4.2.1. Some concerns were raised by committee members regarding the need to address scenarios where metering is on the other side of the switches and incorporating breaker or switch status

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4.2.2. The IESO noted that utilizing units of measurement that are not legal units of measure is not acceptable by the IESO. This includes breaker status or switch signals.

5. MSP Performance Measures Reporting – 12 month Review (Zahir Gohgari)

- 5.1. An overview of MSP performance was presented which provided aggregate results as per the performance measurement metrics.
- 5.2. Multiple members of the committee voiced concerns about the timeline to perform commissioning reports and the nature of the extensions provided by Online IESO
- 5.3. The IESO committed to review the performance and offer guidance

6. Form Automation (Neil Arcot)

- 6.1. No questions were posed by the committee

7. CVT – Manufacturer Recommendations (Fahad Rashid)

- 7.1. The IESO committed to providing operations and maintenance manuals from manufacturer (Trench)
- 7.2. The market rules state that the MSP is required to perform commissioning of the instrument transformers as per the instrument transformer's manufacturer's recommended maintenance. Instrument Transformer name plates in the form of pictures will be required as part of commissioning.

8. Energy Storage Facilities (Richard Zaworski)

- 8.1. The design of IESO's system model requires energy storage facilities to be represented by 2 energy delivery points; a load and a generator
- 8.2. Some MMPs requested guidance on whether their storage facilities will be affected by the UTR or if there will be differentiation based on type of facility. Transmission customers will need to contact the Transmitter to confirm requirements
- 8.3. The IESO reviewed recent amendments for Reg. 429/04 and referred stakeholders to the IESO's Embedded Generation, Energy Storage and Class A Data Submission requirements on the website for further details

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9. Initiatives (Jeffrey Huang & Fahad Rashid)

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- 9.1. Each plan for TCP/IP commissioning would be assessed individually for thoroughness and completeness.
- 9.2. The MIRT tool will be changed within the next 6 months to 1 year and if possible, will be incorporated into Online IESO along with Form 1488.

10. EUR process (Jeffrey Huang)

- 10.1. The IESO noted that bench injection test prior to meter replacement might be allowed to complete EUR test. However true load cross phase still needs to be performed available for IESO audit.
- 10.2. The timeframe for this change is within the next year, likely in Q4 of 2018

11. EITRP Other Measurement Plan Requirements (Christopher Reali)

- 11.1. No questions were posed from the committee

12. MV90 TIM and CML Updates (Jeffrey Huang)

- 12.1. No questions were posed from the committee

13. Walk in items & Meeting Wrap Up (Richard Zaworski)

- 13.1. The IESO noted that there were no plans to create a task to mainly upload commissioning reports. The recommendation is to continue to use the update EUR task with a previous EUR report submission

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Action Item Summary				
#	Date	Action	Status	Comments
2	June 12, 2018	IESO to review which server time is being synchronized with meters	New	
3	June 12, 2018	IESO to review performance of commissioning reports	New	
4	June 12, 2018	IESO to disseminate manuals from manufacturer of CVTs	New	
5	June 12, 2018	IESO to disseminate any information on energy storage treatment by type	New	

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