

**JUNE 22, 2023**

# Revenue Metering Standing Committee



# Welcome Remarks

Victoria Falvo | Sr. Manager, Meter Data Management



# Administrative Items

Tiberiu Abid | Engineering Supervisor, Revenue Metering

# Administrative Items - 1

- Review current meeting agenda
- Review and approval of last meeting minutes

# Administrative Items - Updates on action items

#	Date	Action	Status	Comments
1	Jun 2021	IESO to invite committee members to continue discussion relating to meter phase rotation and remedial plan.	Open	<p>June 22/23: Status quo – still awaiting for MC input and/or revisions</p> <p>Dec 7/22: Status quo – still awaiting for MC revisions</p> <p>Jun 23/22: Status quo – still awaiting for MC revisions</p> <p>Dec 9/21: Follow up meeting conducted on Sep 15/21. The meeting did not yield any changes to the initial remediation plan.</p> <p>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.</p> <p>Jun 24/21: The IESO will schedule a follow up meeting with the MSPs to discuss this further.</p>

# Administrative Items - Updates on action items – Cont'd

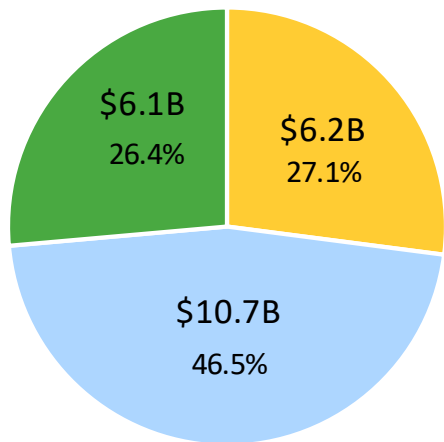
#	Date	Action	Status	Comments
2	Dec 2022	IESO to consider options for creating a working group to further discuss evaluation methodology for commissioning report submissions.	In Progress	June 22/23: IESO is in process of analyzing commissioning reports to determine reasons and trends for rejecting metering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



# Settlements Overview

Victoria Falvo | Sr. Manager, Meter Data Management

# 2022 Settlement Components



- Global Adjustments
- IESO Administered Markets
- Government Programs

- IESO Settlements calculated and reconciled more than **~\$23 billion** dollars in 2022 for the 596 market and program participants (including 59 local distribution companies) related to:
  - the supply, purchase, and transmission of electricity, and associated products in the IESO-Administered Markets;
  - Global Adjustment under legislation and regulations;
  - Other Ministry directed programs under legislation and regulations



# Settlements at a Glance (2022)

**2,207/4,414**

Number of *metering installations* and *connected meters* interrogated nightly for 5-minute interval data

**6,050**

Annual number of meter trouble reports opened and closed

**129**

Audits of metering installations completed

**\$23 billion**

Annual transactions settled by IESO wholesale markets, global adjustment and programs

**~350**

Charge Types used for market participant settlement and invoicing

**~100K**

Number of preliminary settlement statements published annually

# Makeup of the Settlements Team

## Settlements

Two groups working together oversee complete, accurate, and timely settlement in compliance with market rules, market manuals, legislation and regulation

**Lia Kotic, Director**

### Meter Data Management

20 staff of professional engineers and energy/utility sector professionals

**Victoria Falvo, Sr. Manager**

### Market Settlements

17 staff of engineers, accounting, business and IT professionals

**Richard Zaworski, Sr. Manager**

#### Meter Data Management

**Zahir Gohgari, Supervisor**

#### Revenue Metering

**Tiberiu Abid, Supervisor**

#### Customer Billing

**Allison Ng, Supervisor**

#### Analysis and Integration

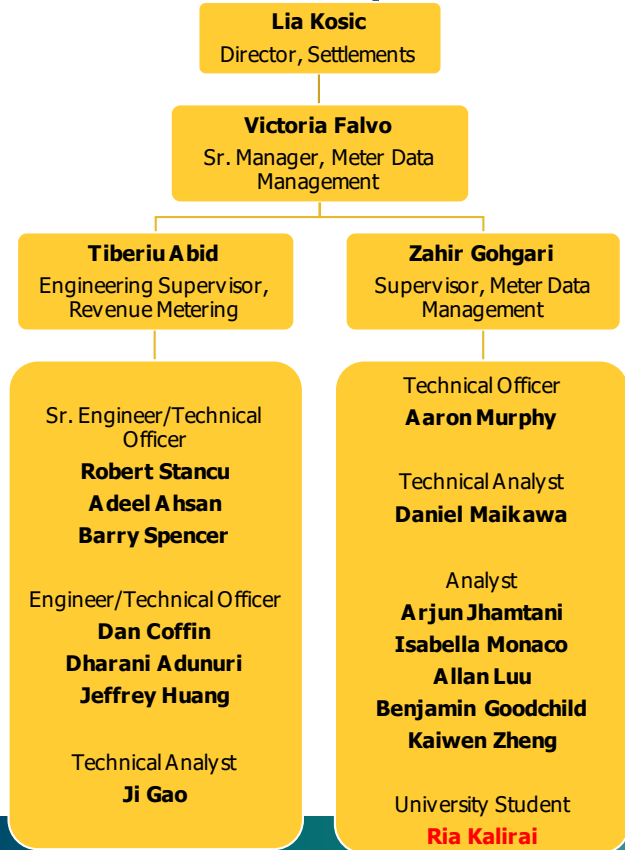
**Karan Ujla, Supervisor**



# Metering Updates

Zahir Gohgari | Supervisor, Meter Data Management

# IESO Staff Updates



## Changes:

- Ria Kalirai – University Student, MDM – started May 8, 2023
- Moeed Khaqan – Pursued an opportunity outside the IESO
- Patricia Hillis – On leave

# Metering Installations by the numbers - 1

Total of 2490 metering installations (2200 physical + 290 virtual) registered in IESO Administered Market (IAM)

## Physical Metering Installations

- 2200 physical metering installations
- 1851 registered under the Declaration of Compliance (DOC)
- 349 registered under the Alternative Metering Installation Standard (AMIS)

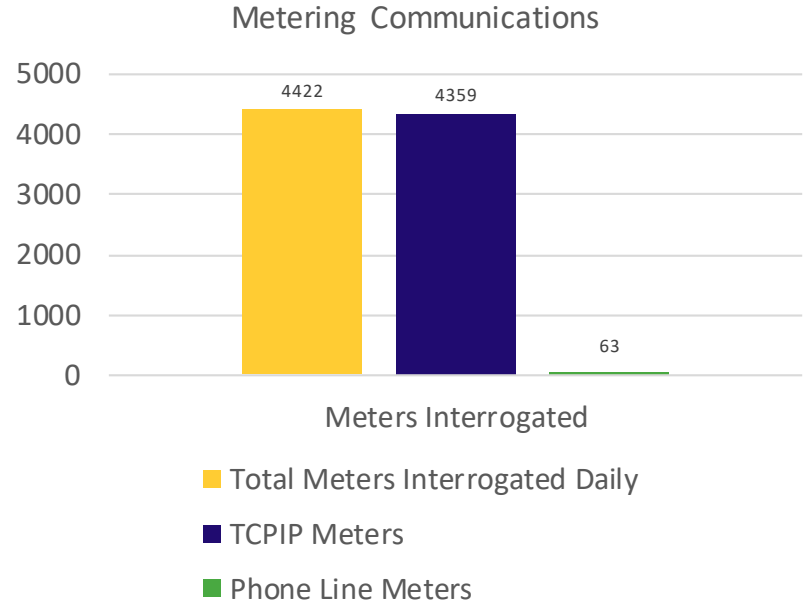
# Metering Installations by the numbers - 2

## Virtual Metering Installations

- 290 virtual metering installations
- 116 represent station service (unmetered or allocated between MMPs)
- 174 represent embedded generation for the purpose of transmission tariff (Form 1563)

# Metering Communications

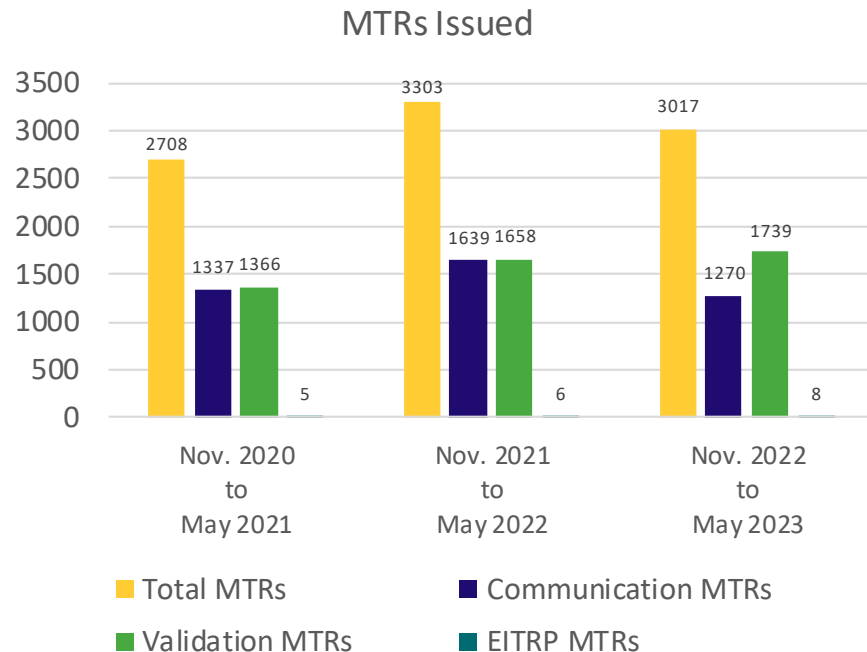
- 4422 Meters interrogated daily
- 4359 via TCPIP (99%)
- 63 via telephone lines (1%)



# Meter Trouble Reports (MTRs) Overview

From November 2022 – May 2023:

- 3017 MTRs issued
- 1270 Communication and 1739 Validation MTRs
- 8 EITRP MTRs







# MSP Performance Metrics and Registration Updates

Daniel Maikawa | Technical Analyst, Meter Data Management

# Overall MSP Performance Summary

- Positive MSP performance over the last 12 months (May 2022 – April 2023)
- Approximately 94% of the Meter Installations do not experience communication MTRs on a monthly basis (Measure 3)
- Approximately 95% of Meter Installations do not experience validation MTRs on a monthly basis (Measure 4)

# Overall MSP Performance Summary - 1

- MTR responses has shown positive results relating to:
  - MTRs Resolved Within 2 Business Days of Issuance (Measure 5)
  - Number of Unresolved MTRs by Preliminary Settlement Statement (Measure 6)
  - Number of Unresolved MTRs by Final Settlement Statement (Measure 7)

## Overall MSP Performance Summary - 2

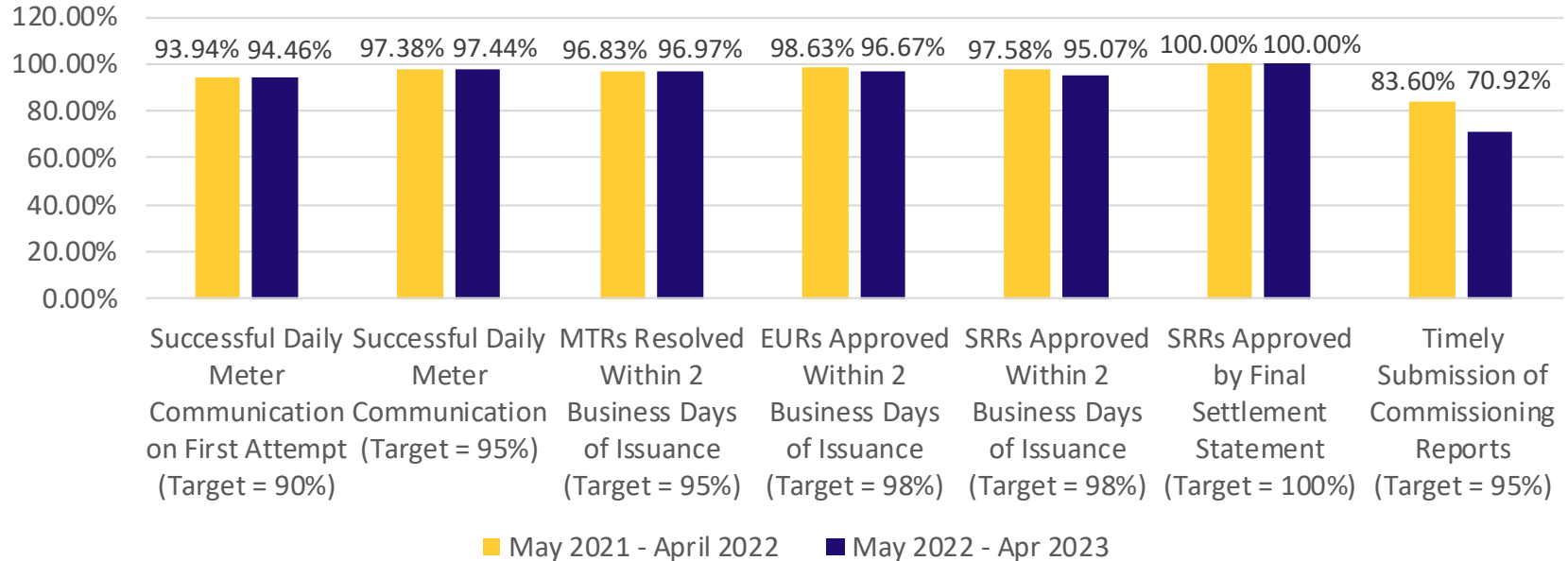
- Registration activity has shown positive results relating to:
  - EURs Approved Within 2 Business Days of Issuance (Measure 8)
  - SRRs Approved Within 2 Business Days of Issuance (Measure 9)
  - SRRs Approved By Final Settlement Statement (Measure 10)
- Registration activity has shown lower performance relating to:
  - Timely Submission of Commissioning Reports (Measure 11)

## Overall MSP Performance Summary - 3

- Measure 12, “Metering Registry Errors” have been 0 over the last couple of years
- Measure 13, “Non-conformance incidents” resulting from R&P audits will continue to be reported (seeing positive impact from R&P audits conducted to date)

# MSP Performance Breakdown

All MSPs 12 Month Performance  
(May 2021 – April 2022 vs. May 2022 – April 2023)



# MSP Performance Monthly Breakdown (May 2022 – April 2023)

Measure	Target	May 2022	Jun 2022	Jul 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023
1 - Successful Daily Meter Communication on First Attempt	90%	94.2	94.9	95.0	94.6	94.6	94.4	93.6	94.5	94.5	94.9	94.3	94.2
2 - Successful Daily Meter Communication	95%	97.3	98.0	97.8	97.5	97.7	97.3	96.4	97.4	98.2	97.7	97.2	96.9
3 - Communication Meter Trouble Reports Issued													
- Number of Communication MTRs Issued	0	202	166	157	170	204	234	236	191	128	153	180	200
- % of Meter Installations without communication MTRs issued	100%	92.9	94.1	94.4	94.2	93.4	91.8	91.9	93.4	95.7	94.5	93.9	92.6

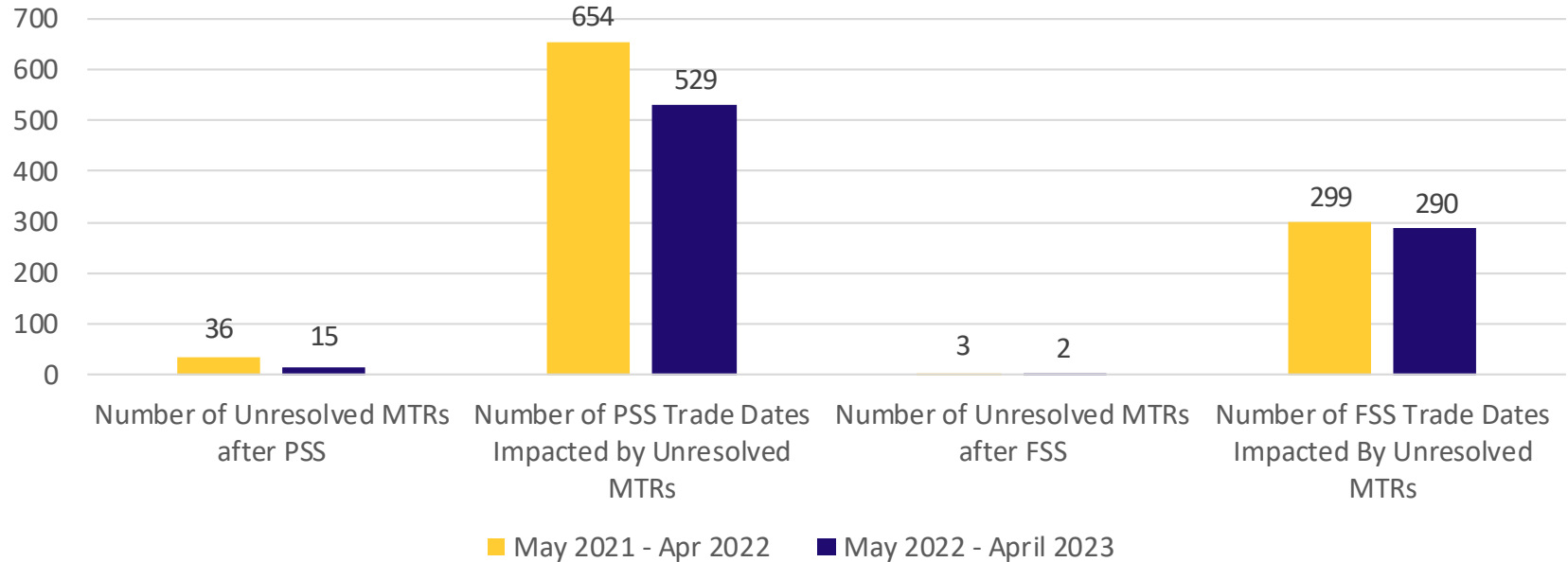
# MSP Performance Monthly Breakdown (May 2022 – April 2023)

Measure	Target	May 2022	Jun 2022	Jul 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023
4 – Validation Meter Trouble Reports Issued													
- Number of Validation MTRs issued	0	125	158	177	148	156	126	129	95	116	82	125	115
- % of Meter Installations without Validation MTRs issued	100%	95.4	94.7	93.9	95.0	94.5	95.3	95.2	96.5	95.9	96.9	95.5	95.9
5 – Meter Trouble Reports Resolved Within 2 Business Days of Issuance	95%	96.6	98.1	95.2	97.1	98.6	96.8	96.2	95.6	95.5	97.5	98.4	98.2



# PSS/FSS Performance Overview

All MSPs 12-Month Performance  
(May 2021 – April 2022 vs. May 2022 – April 2023)



# MSP Performance Monthly Breakdown - 1 (May 2022 – April 2023)

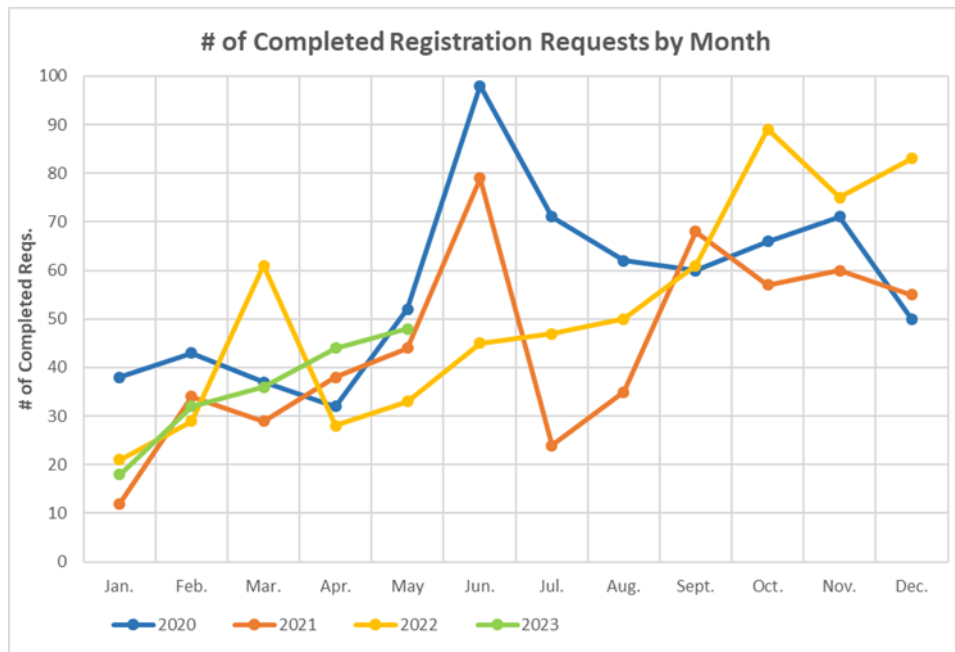
Measure	Target	May 2022	Jun 2022	Jul 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023
8 – Engineering Unit Reports Approved Within 2 Business Days of Issuance	98%	79.1	93.3	97.1	100	94.9	98.4	94.0	100	100	100	100	100
9 – Site Registration Reports Approved Within 2 Business of Issuance	98%	100	100	75.0	95.7	97.7	100	78.7	100	97.6	91.9	100	100
10 – Site Registration Reports Approved by Final Settlement Statement	100%	100	100	100	100	100	100	100	100	100	100	100	100

# MSP Performance Monthly Breakdown - 2 (May 2022 – April 2023)

Measure	Target	May 2022	Jun 2022	Jul 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023
11 – Timely Submission of Commissioning Reports	95%	30.0	23.8	64.3	83.3	75.6	60.0	86.1	80.6	83.9	100	66.7	50.0
12 - # of Metering Registry Errors	0	0	0	0	0	0	0	0	0	0	0	0	0
13 - # of Non Conformance Incident	0	0	0	0	0	0	0	0	0	0	0	0	0

# Meter Registration Hotline Activities

- 210 completed (Jan 2023 – May 2023)
- Register Metering Installation (4)
- Update Metering Installation (64)
- Like for Like Update (136)
- Deregister Metering Installation (6)





# Market Rule Amendments due to RSS Project

Tiberiu Abid | Engineering Supervisor, Revenue Metering

# Market Rule Amendments due to RSS Project - 1

- The market rule amendments due to the RSS project were approved as of March 8, 2023 with an **effective date of May 1, 2023**.
- Refer to [Market Rule Amendment Proposal](#) (detailed link also provided below) for details regarding the amendments to wholesale metering rules, i.e., Chapter 6 and Chapter 6: Appendices

<https://www.ieso.ca/-/media/Files/IESO/Document-Library/tp/2023/iesotp-20230309-mr-00475-rss-new-implementation-date-amendment-proposal.ashx> .

# Market Rule Amendments due to RSS Project – Cont'd

Wholesale Metering market rule amendments:

- **Chapter 6**

- Section 10.4 – Additional obligations for the market participant and the IESO with respect to identification and communication meter data errors. Define the ultimate limitation period to initiate a dispute.

- **Chapter 6 Appendices**

- Appendix 6.1, Section 1.3.2.3 – metering installation and meter point documentation review cycle and error reporting
- Appendix 6.3, Sections 1.4 and 1.5 – Adjusting testing periods to ensure that a test would fall within the new limitation period

## Market Rule Amendments due to RSS Project - 2

Instrument Transformer Checks and Metering Installation Routine Tests - transitioning from six/three years cycle to 18 months cycle

- The first instrument transformer check or first metering installation routine test after May 1, 2023 will be earlier of:
  - a) Six/three years after the last instrument transformer check or routine test; and
  - b) the date that is eighteen months after May 1, 2023





# Modernization of the Electricity & Gas Inspection Act

Tiberiu Abid | Engineering Supervisor, Revenue Metering

# Modernization of the Electricity & Gas Inspection Act - 1

- The laws governing trade measurement have not changed significantly in more than 40 years, and the gap between the legislative framework and innovation and fair competition continues to widen
- Measurement Canada (MC) propose the modernization of the Electricity and Gas Inspection Act (EGIA) to reduce barriers for business e.g., outcome based, protect consumers, and help ensure that services are delivered effectively, e.g., agile and technology-neutral
- Electricity Canada(EC)/Metering Technology Policy Committee (MTPC) formally commented on the proposal as part of MC's consultation process
- The MC consultation closed on March 8, 2023.

# Modernization of the Electricity & Gas Inspection Act – Cont'd

- EC/MTPC comments identified four key areas where the EGIA requires updates to properly address developments in the electricity marketplace and technologies:
  1. MC's mandate is to ensure accurate source measurement, and not to regulate what is done with a processed measurement
  2. MC must move from prescribed actions to a risk-based approach
  3. This modernization must start a cascading review of all existing MC documentation including regulations, approval documents, specifications etc.
  4. MC must use this legislation as a key piece of Canada's net-zero strategy and modernize the Weights and Measures Act and the Electricity and Gas Inspection Act accordingly

*Note: For more details refer to EC/MTPC response "RE: Consultation on the modernization of the Weights and Measures Act and the Electricity and Gas Inspection Act"*

## Modernization of the Electricity & Gas Inspection Act - 2

- Note ...EC/MTPC's previous reports already determined that the EGIA needed to be modernized in conjunction with its attendant regulations (the EGIR) to achieve comprehensive change in the following four key areas:
  - Revise the definition of "contractor"
  - Clarify the distinction between the retail and wholesale markets
  - Modernize the definition of "meter"
  - Revise the definition of Legal Units of Measurement (LUM)

Note: All of the above recommendations were include in the latest EC/MTPC comments

# Roundtable Discussion



# Member Survey

Survey Link: <https://www.surveymonkey.com/r/9JQGWY>



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# Thank You

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