

# Feedback Form

## Updates to IESO Monitoring Requirements: Phasor Data – November 19, 2020

### Feedback Provided by:

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Following the November 19, 2020 webinar to discuss the synchrophasor technology, the IESO is seeking feedback from participants on the revised implementation plan and proposed Market Rules and Draft Market Manual. The IESO will work to consider feedback and incorporate comments as appropriate and post responses on the engagement webpage.

The referenced presentation can be found under the November 19, 2020 entry on the [Updates to IESO Monitoring Requirements: Phasor Data webpage](#).

**Please provide feedback by December 10, 2020 to [engagement@ieso.ca](mailto:engagement@ieso.ca).** Please use subject: *Feedback: Phasor Data*. To promote transparency, this feedback will be posted on the [Updates to IESO Monitoring Requirements: Phasor Data webpage](#) unless otherwise requested by the sender.

Thank you for your time.

## Revised Implementation Plan

Topic	Feedback
Please specify any concerns with the revised implementation dates and steps.	For multiple “pre-market rule” facilities, the proposal is for the entity and the IESO to have a mutually agreed upon, staged implementation plan. This is acceptable, however is there a date to establish the staged implementation plan?

## Proposed Market Rules and Draft Market Manual

Topic	Feedback
Please specify any concerns with the Market Rule amendments.	<p><b>Item 1</b> Under the section on requirements for generators... Table 1 “Measured Quantities” (Required), states that Generators to provide 3-phase voltages/currents. Also, Figure 4 shows locations for synchrophaser data. Ownership and capital/OMA costs of primary instrument transformers providing AC quantities are to be borne by Generator. If the Generator approaches a Transmitter at a facility that has Generator and Transmitter owned assets seeking to utilize Transmitter assets to provide AC quantities, then some form of cost sharing should be applied... can this be addressed in the market rules somewhere?</p> <p><b>Item 2</b> Under the section on requirements for transmitters... Table 2 “Measurement Points and quantities” (Required), states that “Terminals of circuits defining Interconnection Reliability Operating Limits (IROL) and Interties.” Further clarity required on whether one terminal of an interface is sufficient or all terminals are required to be measured</p>



Please specify any concerns with the proposed specifications listed on phasor data requirements in the draft Market Manual.

**Item 1**

Under the section on requirements for transmitters...

Table 2 "Scan Rate" (Preferred), asks for sample rate of 10, 25, 50, 60 samples per second.

We suggest removing 25 and 50 samples/second wording as that applies to 50Hz system.

**Item 2**

Under the section on requirements for transmitters...

Table 2 "DC Supply Variations" (Required). Further clarification required. Is this indicating that the equipment measuring phasor data must be able to operate (measure phasor data accurately) even if subjected to DC supply voltage variations of +/-10%?

Does this specific requirement need to be listed in this table?

**Item 3**

Under the section on requirements for transmitters...

Table 2 "Data Storage" (Required). Further clarification required. This requirement should be removed as there may be potentially significant cost impacts associated with providing rolling storage of data.

**Item 4**

Under the section on requirements for transmitters...

Table 2 "Latency" (Preferred). Further clarification required. The latency is measured end-to-end from PMU to end-user application so the latency time spans across Gen-IESO and Transmitter-IESO interface and the Transmitter can only potentially address latency issues within the Transmitter facilities.

Topic	Feedback
	<p><b>Item 5</b>  Under the section on requirements for transmitters...  Table 2 "Bandwidth" (Required).  IESO should require a Quality of Service measure to clarify the actual requirement</p>

### General Comments/Feedback

1. There is a redundant paragraph that is repeated both above and below Figure 3 on page 5.
2. Table 1 makes reference to Figure 3, however it should be Figure 4