Feedback Form

Technical Requirements for Large Computational Loads Connecting to the Ontario Power System – May 1st, 2026

Feedback Provided by:

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Date: May 20, 2026

To promote transparency, feedback submitted will be posted on this engagement page unless otherwise requested by the sender.

- ☐ **Yes – there is confidential information, do not post**
- x **No – comfortable to publish to the IESO web page**

Following the posting of Technical Requirements for Large Computational Loads Connecting to the Ontario Power System, the Independent Electricity System Operator (IESO) is seeking feedback from stakeholders on the requirements. The stakeholders can request one-on-one sessions with the IESO for clarification and discussion if needed before submitting feedback. Please submit the meeting request to engagement@ieso.ca.

Please submit feedback to engagement@ieso.ca **by May 28th, 2026.**

General Comments/Feedback

1. To confirm the process outlined by the IESO in the document, the following steps will occur:
    a. Proponent provides benchmarked PSSE model with UDM & composite model AND EMT model (with OEM EMT UPS)
    b. IESO performs review of the models and performs analysis.
    c. IESO recommends changes (i.e. BESS, STATCOM)
    d. Would capacity be reserved and ability to proceed with CCRA at this point (comfort letter, draft SIA)? Or would proponent need to provide updated benchmarked PSSE model with the updated EMT model including the BESS/STATCOM changes? It should be noted in most cases the proponent would be far from selecting a final UPS & dynamic equipment vendors, and primarily need capacity reserved prior to proceeding with significant costs.
2. Has any consideration been given to adjusting the interconnection process to a staged review to provide proponents with certainty of connection capacity prior to significant spend on modeling efforts like other jurisdictions? For example, in Alberta DTS/STS are established via preliminary PSSE models with detailed engineering models (PSSE & PSCAD) submitted during additional stage gates prior to interconnection. This allows proponents to perform procurement activities and selections prior to significant modelling efforts & cost. The expectation of some of the data requested in #5 Project Data Requirement is detailed and requires selection of specific vendors to complete which is likely to result in SIA resubmissions when procurement inevitably changes product selection.
3. It is currently difficult to obtain OEM EMT models (currently) for UPS systems as vendors are currently developing them with Manitoba Hydro (or other PSCAD model providers). Has the IESO considered adjusting its SIA processes to allow future submissions to use generic models first, followed by (i.e. during detailed design - after procurement activities but prior to energization) OEM models later? The question relates to #2 and confirming load availability prior to engaging in significant modelling effort.
4. Data Centres typically transfer between grid & generators using automatic transfer switching (with breaker pairs or purpose-built Automatic Transfer Switches). While UPS/IT loads could be controlled to ramp during re-connection, mechanical loads would generally occur as switching events. The linear provision in 6.6 Load Ramping could be interpreted as not permitting this standard form of load transfer.
5. Will changes to BESS & UPS equipment selection impact capacity reservation? Given the early stage of the SIA submissions, it's likely most proponents will need the ability to

change based on market (cost & availability) of equipment after initial SIA and CCRA payments.

6. As part of A.9, is the IESO willing to discuss additional grid-interconnected behind-the-meter generation (gas turbines, etc.) at the proponent facility to solve possible load availability challenges (i.e. non-export)?