

Feedback Form

Technical Requirements for Large Computational Loads Connecting to the Ontario Power System – July 23rd, 2026

Feedback Provided by:

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Date: July 31, 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**
- ☐ **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 July 31st, 2026.

General Comments/Feedback

Energy Storage Canada (ESC) appreciates the opportunity to provide feedback on the IESO's July 23 session on Technical Requirements for Large Computational Loads (LCLs). As Ontario prepares for rapid growth in hyperscale data centres and AI compute facilities, ESC supports efforts to refine a reliability framework that reflects the unique characteristics of these emerging loads. The updates shared during the session generally align with operational realities and support clearer coordination between LCLs, UPS systems, and storage resources, particularly in hybrid configurations where storage can play a stabilizing and reliability-enhancing role. ESC offers the following focused comments on the revisions most relevant to storage participation and system performance.

- *Flexible early-stage connection assessments:* ESC supports a staged connection process that allows projects to advance when detailed engineering information is not yet available. This approach aligns with how storage projects typically finalize operational parameters later in development and will help hybrid LCL + storage facilities progress without unnecessary delays.
- *Voltage ride-through clarification for cooling/mechanical loads:* ESC supports clarifying that cooling and mechanical loads may disconnect under severe voltage conditions due to equipment limitations. This distinction is important for hybrid facilities, where storage can help maintain critical IT load continuity during voltage depressions and support coordinated restoration.
- *UPS switching permitted only during voltage depression:* ESC supports limiting UPS transfers to voltage-related events. Clear boundaries around UPS behaviour help ensure predictable coordination between UPS systems, backup generation, and storage resources in hybrid facilities.
- *Replacement of linear ramping with a step-load limit:* ESC supports replacing the linear ramping requirement with a step-load limit at the POI. This change better reflects how large facilities operate and aligns well with storage's ability to help manage sudden load changes and reduce POI volatility.
- *Revised oscillation assessment windows:* ESC supports introducing defined assessment windows to distinguish transient workload swings from sustained oscillations. Clearer monitoring expectations will help hybrid facilities assess load behaviour and leverage storage to stabilize fluctuations when needed.
- *Modelling and validation requirements:* ESC supports aligning LCL modelling expectations with existing storage modelling practices. Requiring EMT and composite models is consistent with how storage resources are already represented in system studies and will help ensure hybrid facilities are modelled accurately.

ESC appreciates the IESO's continued engagement and its willingness to refine technical requirements to reflect operational realities. The July 23 revisions align well with storage capabilities and hybrid facility needs. ESC looks forward to participating in the upcoming Market Rule and Market Manual consultations and continuing collaboration with the IESO to support both system reliability and Ontario's economic development objectives.