



System Impact Assessment Addendum Report

Final Addendum 2 Report - Public

CAA ID: 2024-795

Project: GBE TOR1 Data Center

Connection Applicant: GrandBridge Energy Inc.

February 4, 2026



Acknowledgement

The IESO wishes to acknowledge the assistance of Hydro One in completing this assessment.

Disclaimer

This report has been prepared solely for the purpose of assessing whether the connection applicant's proposed connection with the IESO-controlled grid would have an adverse impact on the reliability of the integrated power system and whether the IESO should issue a notice of conditional approval or disapproval of the proposed connection under Chapter 4, section 6 of the Market Rules.

Conditional approval of the project is based on information provided to the IESO by the connection applicant and Hydro One at the time the assessment was carried out. The IESO assumes no responsibility for the accuracy or completeness of such information, including the results of studies carried out by Hydro One at the request of the IESO. Furthermore, the conditional approval is subject to further consideration due to changes to this information, or to additional information that may become available after the conditional approval has been granted.

If the connection applicant has engaged a consultant to perform connection assessment studies, the connection applicant acknowledges that the IESO will be relying on such studies in conducting its assessment and that the IESO assumes no responsibility for the accuracy or completeness of such studies including, without limitation, any changes to IESO base case models made by the consultant. The IESO reserves the right to repeat any or all connection studies performed by the consultant if necessary to meet IESO requirements.

Conditional approval of the proposed connection means that there are no significant reliability issues or concerns that would prevent connection of the proposed project to the IESO-controlled grid. However, the conditional approval does not ensure that a project will meet all connection requirements. In addition, further issues or concerns may be identified by the transmitter(s) during the detailed design phase that may require changes to equipment characteristics and/or configuration to ensure compliance with physical or equipment limitations, or with the Transmission System Code, before connection can be made.

This report has not been prepared for any other purpose and should not be used or relied upon by any person for another purpose. This report has been prepared solely for use by the connection applicant and the IESO in accordance with Chapter 4, section 6 of the Market Rules. This report does not in any way constitute an endorsement of the proposed connection for the purposes of obtaining a contract with the IESO for the procurement of supply, generation, demand response, demand management or ancillary services.

The IESO assumes no responsibility to any third party for any use, which it makes of this report. Any liability which the IESO may have to the connection applicant in respect of this report is governed by Chapter 1, section 13 of the Market Rules. In the event that the IESO provides a draft of this report to the connection applicant, the connection applicant must be aware that the IESO may revise drafts of this report at any time in its sole discretion without notice to the connection applicant. Although the IESO will use its best efforts to advise you of any such changes, it is the responsibility of the connection applicant to ensure that the most recent version of this report is being used. The IESO provides no comment, representation or opinion, express or implied, with respect to who should bear the cost of IESO requirements for connection in this report and disclaims any liability in connection therewith.

Project Description

GrandBridge Energy Inc. (GBE, the “connection applicant” and “distributor”) previously proposed to connect a new embedded data center load, namely GBE TOR1 Data Center (the “project”) to their distribution systems supplied by the existing Preston TS and Energy+ MTS#1. Both existing stations are connected onto the 230 kV circuits M20D/M21D owned by Hydro One Networks Inc. (HONI, the “transmitter”).

The project will have an ultimate load of 80 MW with a power factor of 0.95 and the load profile will be flat all year around. The proposed in-service date for the project is Q2 2025 with an initial load of 16.4 MW, and the project will reach its ultimate load level in Q2 2026.

The IESO completed the System Impact Assessment (SIA) for the project (CAA ID 2024-795) and issued the final original SIA report and the Notification of Conditional Approval to connect on Oct. 17th, 2024.

After the final SIA report was issued, the connection applicant provided an updated load forecast for GBE owned stations that are connected to circuits M20D and M21D, i.e. Energy+ MTS#1, Preston TS, and Galt TS including the load at the project. The updated load forecast is based on advancing the in-service date of the planned new 115 kV load station, namely GBE MTS#2, from 2030 to 2028 as an alternative solution to eliminate the need of the new Remedial Action Scheme (RAS) identified in the original SIA.

The IESO completed the SIA study for the project (CAA ID 2024-795) and issued the final addendum SIA report (No. 1) and the Notification of Conditional Approval to connect on Jun. 30th, 2025.

Recently the connection applicant has updated load forecast again for GBE owned stations that are connected to circuits M20D and M21D, i.e. Energy+ MTS#1, Preston TS, and Galt TS including the load at the project. Table 1 of Appendix A (Confidential) shows the updated load forecast. As the updated total load is projected to exceed 400 MW during the study period, the connection applicant has proposed a mitigation measure of opening the low voltage (LV) tie breaker at Energy+ MTS #1 when the forecasted load exceeds 400 MW to address the post-contingency thermal overload issue identified in the original SIA. This addendum is to assess the updated load forecast with the proposed mitigation measure.

Notification of Conditional Approval

This assessment concludes that the proposed project is expected to have no material adverse impact on the reliability of the integrated power system, provided that all general requirements in the original SIA report are implemented. Therefore, the assessment supports the release of the Notification of Conditional Approval for connection of the project.

Assessment Findings

- (1) Based on the updated load forecast provided by the connection applicant with the mitigation measure of opening the LV tie breaker at Energy+ MTS #1, there will be no thermal violations during the study period.

IESO Requirements for Connection

Specific Requirements:

All specific requirements in the original SIA report, including the RAS requirement for both the connection applicant and the transmitter, are no longer applicable. The following specific requirement is added for the connection applicant:

- (1) The connection applicant shall ensure that the LV tie breaker at Energy+ MTS #1 remains open when the forecasted total peak load at Energy+ MTS#1, Preston TS, and Galt TS exceeds 400 MW during real-time operations.

General Requirements:

The same as the general requirements specified in the original SIA report.



Appendix A: Updated Load Forecast (Confidential)

Appendix B: Assessments (Confidential)

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