

The application is for the connection of a micro-embedded generation facility ($\leq 10\text{kW}$) to the Tillsonburg Hydro's distribution system in accordance with the Distribution System Code Section 6.2.6 and the Distributed Energy Resources Connection Procedure Section 5.3.1

1. Process

- Preliminary Consultation Information Request – submit to THI
- Preliminary Consultation Report (15 days) – available capacity check by THI
- Application and supporting documents – submit to THI
 - Micro-Embedded Generation Facility Connection Application
 - Single Line Diagram
 - Generator information
- Application reviewed and available capacity checked – completed by THI
- Site Assessment – completed by THI
- Offer to Connect, include connection costs – provided by THI
 - 15 Days for existing customer and no Site Assessment required
 - 30 Days for existing customer and Site Assessment required
 - 60 Days for new project and Site Assessment required
- Execute Offer to Connect and provide payment (30 days) – submit to THI
- Micro-Embedded Generation Facility Connection Agreement – submit to THI
- Electrical Safety Authority – Inspection and Authorization to Connect
- Metering Upgrades – completed by THI
- Authorization to Generate or connection for new project (5 days) – provided to applicant

2. Requirements

Applicants preparing to connect a Micro-Embedded Generation Facility to THI's distribution system must comply with the following rules, codes and regulations:

- THI – DER - Technical Interconnection Requirements
- Hydro One Technical Interconnection Requirements for Distributed Generation - Micro Generation & Small Generation, 3-phase, less than 30 kW
- Ontario Electrical Safety Code – Administered by the Electrical Safety Authority
- Canadian Standards Association – product compliance
- Contact local municipal offices for municipal applications, permits, bylaws and Building Codes

3. Application Submission Checklist

- ☐ Micro-Embedded Generation Facility Connection Application
- ☐ Single Line Diagram
- ☐ Generator Information

4.6 Owner (Mandatory)

Company/Person: _____

Contact Person: _____

Mailing Address: _____

City/Province/Postal Code: _____

Telephone: _____ Cell: _____

Email: _____

4.7 Consultant (Optional)

Company/Person: _____

Contact Person: _____

Mailing Address: _____

City/Province/Postal Code: _____

Telephone: _____ Cell: _____

Email: _____

4.8 Generation Information

Number of Generating Units: _____ (AC Connection)

AC Power Output of Each Unit: _____ kW AC Voltage of Each Unit: _____ V

Total Proposed Nameplate Capacity: _____ kW Generator Type: _____
(Inverter, Asynchronous, Synchronous, other)

1) Manufacturer: _____ Model Number: _____

2) Manufacturer: _____ Model Number: _____

3) Manufacturer: _____ Model Number: _____

Number of Phases: ☐ Single Phase ☐ Three Phase

Generators shall implement requirements of the IESO Market Rule Appendix 4.3 (Off-Normal Frequency Operation, Speed/Frequency Regulation and Voltage Ride-Through specified in Appendix 4.2) at the DER facility. All inverters shall comply with the following standards:

☐ UL1741SB or UL1741SA 2016 (or subsequent revision)

or

☐ C22.3 No. 9-2020 (or subsequent revision)

and

☐ Inverter marked "Grid Support Utility Interactive" or equivalent

☐ CSA 22.2 No 107.1

By submitting a Micro-Embedded Generation Facility Connection Application Form, the Applicant authorizes the collection by Tillsonburg Hydro Inc. of the information set out in the Form and otherwise collected in accordance with the terms hereof, the terms of Tillsonburg Hydro's Conditions of Service and the requirements of the Distribution System Code and the use of such information for the purposes of the connection of the generation facility to Tillsonburg Hydro's distribution system.

Customer Name (Print)

Signature

Date (mm/dd/yyyy)

4.9 Capacity Check – Completed by Tillsonburg Hydro Inc.

Transformer/Distribution Station: _____

Station Bus: _____ Feeder Number: _____

THI Connection Voltage: _____ THI PCC: _____

Switch #: _____ Transformer #: _____

Capacity Available: ☐ Yes ☐ No as of _____ (mm/dd/yyyy)

Comments:
