

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. Application****4.1 Application Information**

Date of Application: \_\_\_\_\_ (mm/dd/yyyy)

Proposed In-Service Date: \_\_\_\_\_ (mm/dd/yyyy)

Proposed Project Name: \_\_\_\_\_

Project Size: \_\_\_\_\_ kW Generation Type: \_\_\_\_\_  
Nameplate rating (Wind/Solar/Water/Biomass)

Project Type:  Net Metering (Exporting)  Load Displacement (Non-Exporting)  Other

Comments: \_\_\_\_\_

**4.2 Project Location**

Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Lot Number(s): \_\_\_\_\_ Concession Number(s): \_\_\_\_\_

**4.3 Customer Status**

Existing Tillsonburg Hydro Customer:  Yes  No

If yes, existing THI Account Number: \_\_\_\_\_

Name of Account Holder: \_\_\_\_\_

**4.4 Existing Service Information**

Utility Supply Voltage: \_\_\_\_\_ V  Single Phase  Three Phase

Service Size: \_\_\_\_\_ A Meter Number(s): \_\_\_\_\_

**4.5 Contact Information**

Single Point of Contact: \_\_\_\_\_

**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.

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Customer Name (Print)

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Signature

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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:

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