Micro Embedded Generation Facility Connection Guide
Up to and including 10kW (June 2025)

Thank you for your inquiry regarding connecting a Micro Embedded Generation Facility. These facilities are typically eligible to participate in the Net Metering program which is governed by Ontario Regulation 541/05 (the "Regulation") made under the Ontario Energy Board Act, 1998. Any generation facility that is electrically connected to the ENWIN system must follow this procedure to apply and be approved for connection prior to connecting to the electrical grid.

Installations up to and including 10 kW are referred to as "Micro Embedded Generation Facilities". If the application meets ENWIN Utilities Ltd.'s ("ENWIN") requirements, the requirements of the Net Metering Regulation (if applicable) and there is capacity in the electrical system to accept your generator (this will depend on the capacity of the Hydro One transformer station and the distribution system to accept additional generation), ENWIN will grant you an Offer to Connect.

ENWIN follows the rules of the Ontario Energy Board's ("OEB") Distribution System Code and Distributed Energy Resources Connection Procedures ("DERCP") for Generator connections. Please refer to the OEB's website for the latest version of these documents:

- Distribution System Code

https://www.oeb.ca/regulatory-rules-and-documents/rules-codes-and-requirements/distribution-system-code-dsc

- Distributed Energy Resources Connection Procedures V2

https://www.oeb.ca/sites/default/files/DER_Connection_Procedures_V2.pdf

The generator connection process is fully described in the DERCP. For Micro Embedded Generation Facilities, the process can be summarized into 4 steps:

Step 1 – Submit an Online Embedded Generator (EG) Application to ENWIN
Step 2 – ENWIN Offer to Connect
Step 3 – Customer Contacts ENWIN for a Service Spot
Step 4 – Electrical Safety Authority (ESA) Inspection

Please also refer to DERCP Figure 2 for a flowchart of timelines and responsibilities for Micro Embedded Generation Facility connections.

STEP 1 – SUBMIT AN ONLINE EG APPLICATION TO ENWIN

ENWIN Micro Embedded Generation Facility Applications are completed online using the following link:
https://forms.office.com/r/bhVHg3q0MR

The Application will require the following information:

1. Applicant Contact Information / Mailing Address
2. Service Address of Connection Point & Account No. (Host Facility)
3. Engineering Consultant/Electrician/Developer Information
4. Project Type
5. Project Description
6. Single Line Diagram ("SLD")
7. Metering Connection Type (This is N/A for Net Metering)
8. Other Relevant Information (Inverter Datasheet, Building Permit)

Note: An Inverter Datasheet and a Single Line Diagram (SLD) are required attachments.

A Single Line Diagram must be provided and show the installation from ENWIN's connection point to the generator. This must include all electrical components required to perform the installation including but not limited to PV panels, inverters, disconnect switch, and meter socket.

The drawing should also include the:

- Location address;
- Output voltage;
- Solar array rating (kW);
- Inverter rating (kW); and
- Nameplate capacity (kW).

STEP 2 – ENWIN OFFER TO CONNECT

ENWIN will review the application and ensure all the required information has been received and that it meets requirements. ENWIN will then confirm that capacity exists in the electrical system to accept the new generator. If any concerns are found, ENWIN will contact the applicant to communicate this information.

STEP 3 – CUSTOMER CONTACTS ENWIN TO ARRANGE A SERVICE SPOT

The Customer must contact ENWIN's Technical Services Department at **519-251-7303** to arrange a Service Spot.

ENWIN staff will meet your contractor at the proposed project location and will advise on a meter and disconnect location. The Service Spot will allow ENWIN to prepare a cost estimate for the connection. Included in Appendix A for your consideration is a breakdown of typical charges to connect a Micro Embedded Generation Facility or Net Metering project.

ENWIN will then send a letter with an estimate and a blank Micro Embedded Generation Facility Connection Agreement. A copy of the Micro Embedded Generation Facility Connection Agreement is also available on ENWIN's website.

ENWIN will then wait to receive the following documents from the Customer:

1. The original letter returned and signed acknowledging that the customer will pay actual cost;
2. A completed and signed Micro Embedded Generation Facility Connection Agreement;
3. A cheque in the amount of the estimate to be used as a deposit; and
4. A building permit (or City of Windsor Letter of Exception) for any Rooftop Solar Installation

The Customer can now proceed with the installation of the generator.

STEP 4 – ELECTRICAL SAFETY AUTHORITY (ESA) INSPECTION

After the generator has been installed, the Customer must arrange a safety inspection with the ESA. The ESA will then directly notify ENWIN that the inspection has passed. The Customer must call ENWIN*'s* Technical Services Department at **519-251-7303** to schedule a date to install the new meter. The meter will then be installed on that date assuming all the documents outlined in Step 3 have been received and that ESA Inspection has passed.

If you have any questions, please call ENWIN's Technical Services Department at (519) 251-7303 during regular business hours (8:00 am to 4:00 pm, Monday to Friday) or e-mail us at tsd@enwin.com.

Appendix A
Typical Costs and Charges

Each Micro Embedded Generation Facility or Net Metering project will be subject to applicable costs and billing charges. All costs are based on cost-recovery principles established by the Ontario Energy Board. The information below is not meant to be an exhaustive list and other costs and charges may be applied according to the OEB's rules. The amounts quoted below are approximate values based on June 2025 rates and are subject to change.

INITIAL COST

Bi-Directional Meter (approximately $300 + tax)
This cost covers the material and installation cost of the meter that will measure both your load and generation. This will allow ENWIN to provide credit if the generation exceeds the load in accordance with Ontario Regulation 541/05.

Connection Costs ($ Varies)
Most Net Metering connections do not require any additional work. However, in some cases, ENWIN may need to expand its distribution network, install a dedicated overhead to underground service (for standalone projects), or install SCADA remote control infrastructure if connection is to a 3-phase system (this applies to some small commercial customers).

Note: The bi-directional meter and connection cost estimates above are subject to true up once the project is connected and actual costs are known.