



**How to Connect Your Generation Facility  
(<12 kW) To Enova's Distribution System**

**Last Revised: April 7, 2026**

**Revision #0**

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## General

This guide applies to the customers with micro-generation facility (nameplate rating of 12kW and below) to be connected to Enova's distribution system.

The customer shall contact Enova for more directions if the generation facility has a nameplate rating larger than 12kW. The complexity of the connection process varies depending on the generator size.

## Contact information

For customer inquiry and application submission, please contact Enova at:

Enova Power Corporation  
301 Victoria Street South  
Kitchener, Ontario, N2G 4L2

Email: [eclerk@enovapower.com](mailto:eclerk@enovapower.com)

Phone: 519-888-5552

## Responsibility of Enova

- The safety, reliability, and efficiency of its distribution system,
- Ensuring that the new generation connection does not adversely affect the distribution system or risk the hydro employees and the existing customers;
- Ensuring that the Distribution System Code and applicable standards are followed;
- Keep connection cost effective to promote renewable energy.

## Responsibility of the customer

- The safety, design, construction, operation, metering, protection and control, and maintenance of the generating facility.
- Contacting Enova early in the process.
- Contacting the various agencies involved before finalizing plans.

Ensuring all necessary submissions and agreements are completed and required payments are clear.

In addition to satisfy the requirements listed in this guideline, the customer is solely responsible to obtain regulatory approvals for installing and operating the micro-generation facility, which may include but not be limited to the following,

- Compliance with all municipal zoning and land use by-laws, Ontario Building Code, (renewable energy projects are exempt from municipal zoning and land use by-laws, but the building permit may be required, please contact City/Township's Planning Department).

- Renewable Energy Approval for renewable energy project or Certificate of Approval for non-renewable energy project (please consult Ministry of Environment and Ministry of Natural Resources)
- Connection Authorization by Electrical Safety Authority (ESA)

ESA approval will be required before the micro-generation facility is allowed to connect. The ESA can be contacted at 1-877-ESA-SAFE (1-877-372-7233). The ESA website is <http://www.esasafe.com/>. The ESA has published a booklet entitled 'Electrical Guidelines for Inverter-Based Micro-Generator Facility (12kW and Smaller)' which is helpful for the Customer.

File link:

[http://www.esasafe.com/pdf/Micro\\_Embedded\\_Generation\\_Facilities\\_Guidelines.pdf](http://www.esasafe.com/pdf/Micro_Embedded_Generation_Facilities_Guidelines.pdf)

## **Costs to be considered by the customer**

- Equipment and Installation.
- Inspection by ESA
- Permitting and other approvals
- Connection/Metering costs by Enova
- Monthly account charge by Enova
- Regular maintenance costs
- Legal and insurance costs
- Tax and accounting costs (municipal property tax may increase; income from generation is taxable.)

## **Connection Process**

Subject to all applicable laws, by-laws, regulation and codes, Enova will make all reasonable efforts to promptly connect a generation facility to its distribution system.

### **1. Request Information**

The Customer proposing the installation of a micro-generation facility ( $\leq 12\text{kW}$ ) contacts Enova and ESA separately for information.

### **2. Provide Information**

Enova provides a copy of this guideline to the Customer explaining the connection process and requirements including the application form and Connection Agreement template.

ESA provides information on electrical safety requirements.

### **3. Develop Plan and Register Project**

The Customer reviews relevant information from Enova and the Electrical Safety Authority regarding the proposed project and develops an installation plan.

A Customer interested in connecting a generation facility should also review the Centralized Capacity Information Map (CCIM) and the Restricted Feeders list available on the Enova website to determine whether the proposed connection point is located on a restricted feeder.

The CCIM and Restricted Feeders information is updated by Enova at least every three (3) months.

#### **4. Submit Hydro Application**

The Customer submits Enova a completed application form (Appendix A1) with all required information.

#### **5. Submit ESA Inspection Application**

The Customer submits ESA plans and specific information for inspection. This application runs in parallel with the Step 6).

#### **6. Review Hydro Application**

Enova reviews the connection application.

##### **6A) For Micro-Generation Facility at Existing Customer Connection**

After receipt of the completed application, Enova will issue the Customer an Offer to Connect or provide reasons for rejection.

The Offer to Connect will outline the technical requirements (metering and/or service upgrade), costs and timing to implement.

Typical requirement for micro generator 12kW and smaller is a new meter for parallel connection

Enova will not charge for the preparation of the Offer to Connect.

The Offer to Connect is valid for 30 calendar days from issuance. The Customer shall indicate his/her intent within this time frame.

##### **6B) For Micro-Generation Facility Not at Existing Customer Connection**

A new customer service connection shall be first established before the micro-generation facility can be connected. This may extend the time line in Step 8 since more connection work will be required.

#### **7. Install DG**

If the customer accepts the Offer to Connect and decides to proceed, the Customer will

- Make a payment to Enova for upgrades (metering) as indicated in the Offer to Connect;
- Start micro-generation facility installation;

- Work closely with Enova, the ESA and any other organizations from which work, inspections, approvals or licenses are required to prevent delays;
- Complete, sign and return of Connection Agreement (Appendix A1 pages 4 to 6) to Enova;
- Arrange electrical inspection with ESA.

## **8. Final Connection**

### **8A) For all Customers**

The Customer shall contact Enova after the ESA completes the inspection and issues an Connection Authorization. Enova will check the following Customer commitments before the final connection.

- Payment to Enova clear
- Connection Agreement Signed
- Connection Authorization received directly from ESA

Enova will make the final connection once all above Customer commitments have been satisfied.

Enova will start recording the generation once the final connection is made.

The payment for the generation will be issued in accordance with the current established billing period.

## Appendix B1: Metering Connection Option for Micro-Generation Facility

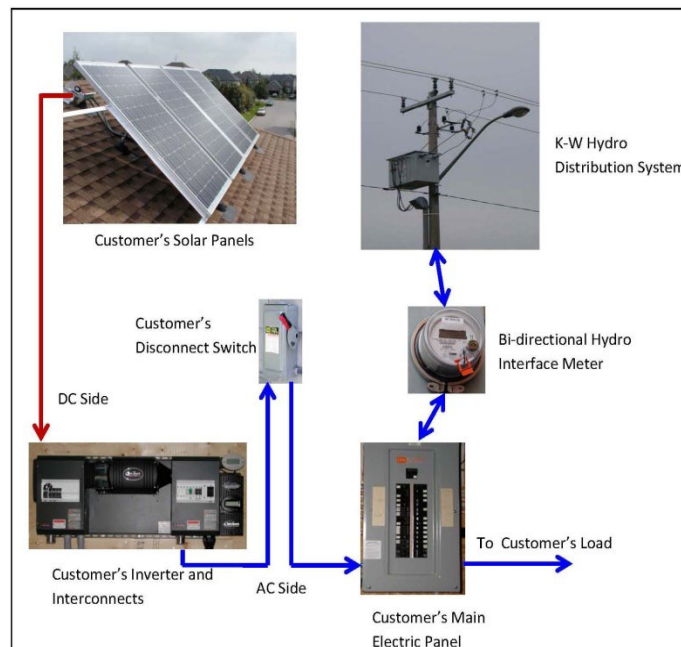
### A. Net Metering Program

Under the **Net Metering** program, Enova will replace the existing load service meter with a bi-directional service meter. The point of connection is at the replaced meter owned by Enova. The customer with the Net Metered generator has only one meter and one account thus incurs the monthly charge same as the regular load customer.

#### General

Fig. 1 illustrates the typical metering connection for 120/240 or 120/208 Volts single phase micro-generation facility under Net Metering Program, for information only. The metering configuration may vary depending on the connection voltage and phasing, the existing service connection and other site-specific details. All connected generators shall comply with the requirements in Section 3.5.4 of Enova's Conditions of Service. Each new meter configuration will be reviewed and approved by Enova on a case-by-case basis.

All connected generators under Net Metering program should have an isolation device behind the bi-directional meter in compliance with Section 84 of the Ontario Electrical Safety Code and agrees to allow the Distributor's staff to access to and operation of this isolation device as required for the maintenance and repair of Enova's Distribution System.



**Fig 1. Metering Illustration for Micro Generation Facilities (120/240 or 120/208 Volts Single-Phase)**

## Appendix f1: Net Metering

Enova keeps a Net Metering Policy in place to assist eligible customers to participate in the Net Metering program in compliance with [Ontario Regulation 541/05 - Net Metering](#), which became effective on February 10, 2006.

### 1. What is Net Metering?

Net Metering is a program applicable to the eligible customers with specific renewable generation facilities. Net metering measures the quantity of electricity the customer uses against the quantity of electricity the customer generates. This results in a "net" total from which the utility bill is calculated.

As a 'net metering' customer, if the generation is higher than the consumption, the customer can carry the generation credit to offset the current or future utility bill. The net metering customer will not receive payment for any excess generation sent back to the grids.

For more information also see [OEB website](#).

### 2. Who is Eligible to Net Metering?

Participation in the Net Metering Program is available to all Enova customers with a generator that meets all of the following conditions:

- (a) There is feeder capacity on Enova's distribution system;
- (b) The electricity is solely generated from one or more of the following renewable energy sources:
  - Wind
  - Drop in water elevation
  - Solar radiation
  - Agricultural bio-mass.
- (c) The electricity is generated primarily for the customer's own use;
- (d) The electricity generated is conveyed to the customer's own consumption point without reliance on the Enova's distribution system;

### 3. How is your hydro bill calculated under Net Metering?

Enova will read your meter just as we do now. The bill you see will reflect the difference between the value of the energy you consumed from the grid and the energy you exported to the grid. All of the regulated charges will only apply to your net consumption. If the portion of your energy bill is zero or a credit, you'll only see a fixed monthly account charge in your bill. If you have more credit than you can apply to one bill, you can carry the balance forward for up to 12 months to offset your future utility bill.

#### **4. How can I transfer Net Metering account from old to new owner?**

Net Metering participation is associated with the electricity account holder, not the generation equipment itself. When ownership of a property changes, the new owner must open a new electricity account with Enova.

If the generation facility remains installed at the property, the new owner must apply to participate in the Net Metering program with Enova and execute a new Net Metering agreement before continuing to receive Net Metering credits.

The new owner may be required to provide updated documentation such as:

- A completed Net Metering application form (Appendix A1)
- Updated contact and account information

For assistance with transferring or applying for Net Metering, customers should contact Enova's customer service team.

#### **5. Will my Ultra-Low Overnight (ULO) price plan change if I apply for Net Metering?**

No. Applying for Net Metering does not automatically change your electricity price plan.

Customers participating in Net Metering may remain on their existing pricing plan, including the Ultra-Low Overnight (ULO) time-of-use plan offered under Ontario electricity pricing programs.

#### **6. Can a Net Metering customer sell the extra electricity generated?**

A Net Metering customer cannot sell extra electricity to Enova.

#### **7. Can a Net Metering customer cancel the agreement?**

Yes, all you need is to provide Enova 90-day written notice.