



**peco**<sup>SM</sup>

AN EXELON COMPANY

Interconnection

# Connecting private solar energy systems and net metering

Let PECO help you  
connect to the grid



# Connecting Private Solar Energy Systems and Net Metering

Now that you've decided to generate your own energy, PECO is here to help you safely connect to the electric system.

Here is some important information to help you get your private solar energy system operational so you can enjoy generating your own power.

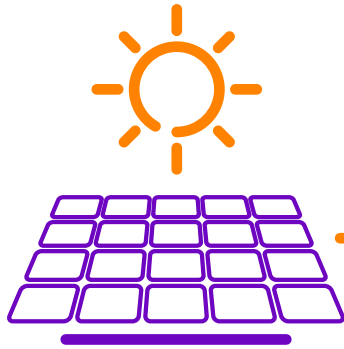
**Before submitting your application, please take a moment to read up on the following:**

- How Net Metering Works
- The Step-by-Step Interconnection Process
- Helpful tips to consider before getting started

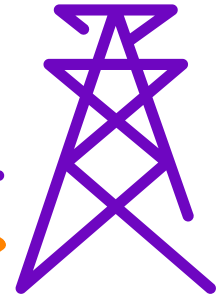


# How Net Metering Works

SOLAR PANELS convert sunlight into energy



The SMART METER measures the amount of energy FROM the smart grid and excess energy TO the smart grid



SMART GRID

The INVERTER converts solar energy from direct current (DC) into alternating current (AC) to power your home or business



Excess energy sent TO the smart grid

Energy FROM the smart grid

## Net Metering Credit Examples

- Energy Produced is **LESS THAN** Energy Used
- Energy Produced **EQUALS** Energy Used
- Energy Produced **GREATER THAN** Energy Used

Total Energy USED by Customer	Energy PRODUCED by Solar Panels	Needed kWh FROM the Smart Grid	Excess kWh TO the Smart Grid
7 kWh	5 kWh	2 kWh	0 kWh
5 kWh	5 kWh	0 kWh	0 kWh
3 kWh	5 kWh	0 kWh	2 kWh

We're here to help you throughout the journey.

Visit [PECO.com/MyGPC](https://www.pECO.com/MyGPC)

# Roles & Responsibilities for a Successful Interconnection

## Customer & Solar Installer

**1** A PECO customer hires a solar installer who submits the interconnection application to PECO

## Solar Installer

**2** Along with their application, the solar installer provides PECO with specifications of the type of system they plan to install and the amount of power it will supply to the grid

## PECO

**3** Then PECO's engineers will analyze the local electric equipment, voltage, and other factors to offer the solar installer options if the capacity of the system causes any voltage issues

## Solar Installer & PECO

**4** After the solar installer selects a connection option, PECO will provide the installer a construction agreement with estimated costs (If required)

## Solar Installer & PECO

**5** When the solar installer signs the agreement and pays the construction costs (If required), PECO will plan and schedule its work. After the solar installer has met all requirements, PECO will issue an Approval to Install notice.

## Solar Installer

**6** **Before starting any work** on the customer's behalf, the solar installer must apply for – and receive – a construction permit from the local municipality. The solar installer also may need permission from homeowner associations or historical review boards

## Solar Installer

**7** The solar installer will have a third-party inspection service review their work. The inspectors issue an electrical inspection certificate that goes to PECO

## Solar Installer & PECO

**8** After the solar installer provides PECO with a certificate of work completion, a photo of the meter setup, and PECO confirms the inspection certificate, a PECO representative will schedule the bi-directional meter installation

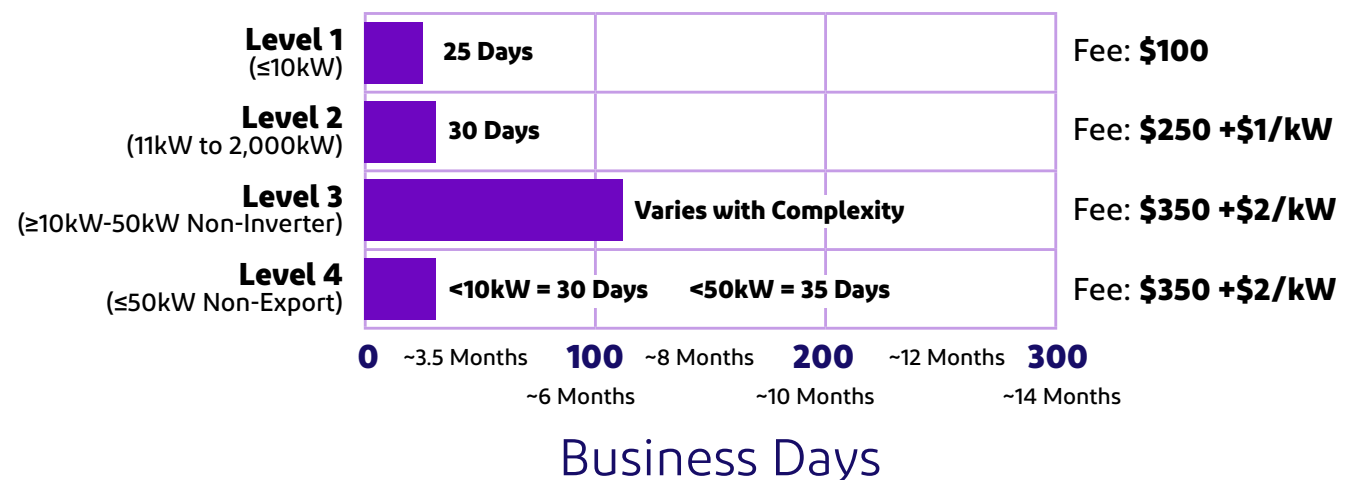
## PECO & Solar Installer

**9** When the bi-directional meter is installed, PECO will issue the customer a Permission to Operate letter. **Only then, may the solar installer activate the solar system**

\*Numbers and types of technical reviews may vary by interconnection level.

## The Interconnection Process – DURATION & FEES

Amounts listed are base fees, additional fees may apply



## How long is the interconnection process?

Interconnection applications and processing times are classified by the size and type of renewable energy system being installed. The time to review and approve applications varies by level of interconnection as seen in the chart above. In some cases, engineering studies may be needed to analyze the entire circuit to find a solution. This may add more time and costs to your project. Duration and fees apply to typical residential installations.



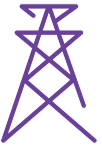
# Helpful Tips



- **Understand your energy use.** Work with your solar installer to appropriately size your solar energy system



- **The production of your private solar energy system can vary** – weather, tree cover and required maintenance can all affect how much energy you produce



- To ensure your private solar energy system is **safely and reliably connected to the smart grid** do not operate your system without approval from PECO and your municipality



- **Participate in net metering** and receive credits on your energy bill when you produce more energy than you need

Visit [PECO.com/My GPC](https://www.pECO.com/MyGPC) for additional information

Following PECO's 9-step process helps prevent dangerous conditions such as voltage rise or "back feed."

A solar power system shouldn't risk the safety of PECO's customers, employees, or equipment.





## **For Answers to Frequently Asked Questions**

Visit: [PECO.com/My GPC](https://peco.com/MyGPC) for additional information.

## **For Questions about Connection to our Smart Grid**

Email: [GPCTeam@peco.com](mailto:GPCTeam@peco.com)

Phone: 833-732-6334