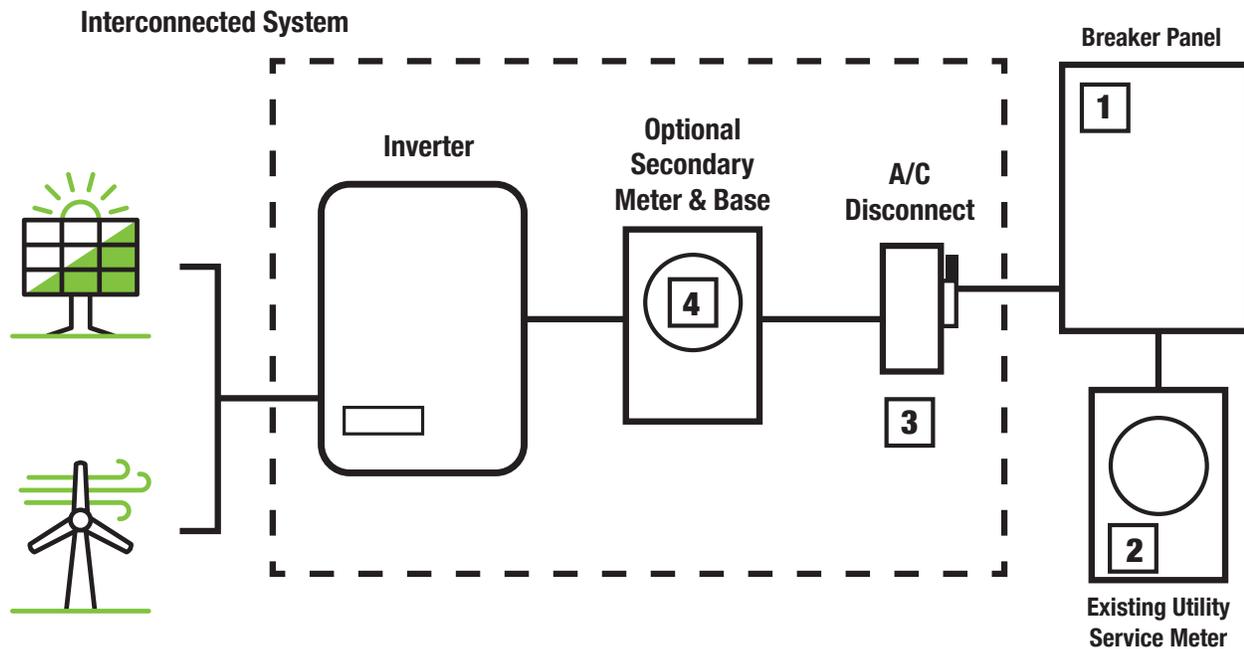


# Member-Owned Renewable Energy Systems Sample One-Line Diagram

This diagram describes the basic detail for interconnecting a typical renewable energy system (25 KW AC and below) to your EnerStar service panel.



- 1. MAIN BREAKER** – The main distribution point for electrical circuits in your home.
- 2. EXISTING UTILITY SERVICE** – Location of your existing service point and the coop meter. EnerStar will change out the existing meter to a bi-directional meter to register both the electricity purchased from the cooperative and the net generation received by the co-op.
- 3. AC DISCONNECT SWITCH**– All renewable energy systems must install an AC disconnect switch. It must be visible, lockable, and located with 10 feet of the MAIN BREAKER (1).
- 4. OPTIONAL SECOND METER AND BASE** – The secondary meter and base are optional and may be installed by the solar vendor. It records ALL generation output by the renewable energy system, which may be consumed or delivered to the cooperative.

## THINGS TO KNOW:

- If installing a ground mount system, solar panels may not be installed within 10 feet of any primary underground electric service.
- No additional equipment shall be added to EnerStar poles. Any other support structure such as a metering rack (H-Fixture) must be at least 2 feet from any EnerStar poles.
- All systems must be installed per the most current National Electric Code guidelines.
- This document is a pictorial view and does not include details of bonding and other NEC requirements. Equivalent methods of accomplishing what is pictured here may be possible but require written approval from EnerStar before they can be connected to EnerStar's distribution system.

## CONTACT US:



EnerStar Electric Cooperative  
11597 IL Highway 1, Paris, IL 61944  
Telephone: 800-635-4145

power@enerstar.com  
www.enerstar.com  
Office Hours: Monday - Friday, 7:30 am to 4:30 pm