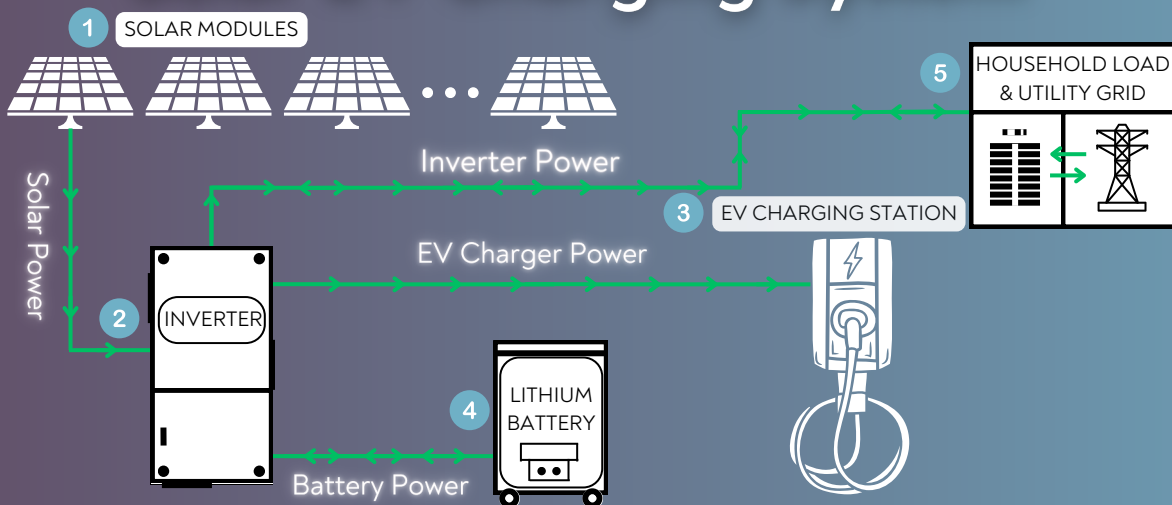


# Solar EV Charging System

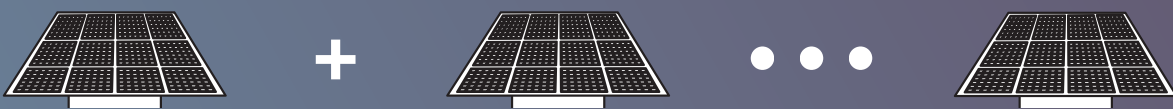


\*Solar EV Charging Systems are very configurable: solar-only, solar+grid, boost limited supply, export limited, and zero solar export are all possible design considerations. A Solar Application Engineer can help you design a system for your needs.

## Benefits of Solar Powered EV Charging

- Offset/eliminate cost of vehicle use
- Charge vehicle with Grid outage
- Eliminate fossil fuel consumption
- Sell excess energy to The Grid
- Off-grid EV charging with battery storage
- Offset home energy use

### 1 SOLAR MODULES

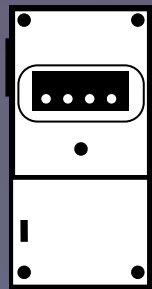


Solar modules (panels) convert solar energy into EV charging power. The amount of energy needed will determine how many modules are required.

### 2 INVERTER

The Inverter channels solar power to:

- EV Charger
- Household Loads
- Battery Storage
- (Excess) The Grid\*

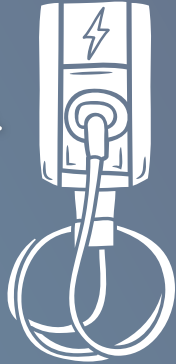


\*Inverter can be configured for limited or zero grid export for relevant applications, in certain cases, eliminating the need for an interconnection agreement.

### 3 EV CHARGING STATION

The EV Charging Station:

- Supplies power to the vehicle.
- Dynamically controls the EV charging load.



**"Solar Only"** = ONLY solar power to be used.

**"Solar+Grid"** = allows solar AND Grid power to be used.

**"Boost Limited Supply"** = solar power is used to boost the limited electrical supply and maximize charging power.

### 4 BATTERY STORAGE (OPTIONAL)

Batteries allow you to store excess solar energy so it can be used later.\*



This allows you to charge the vehicle in any situation without The Grid.



Energy stored in the batteries will go back through the inverter to the electrical panel and/or the EV charger.



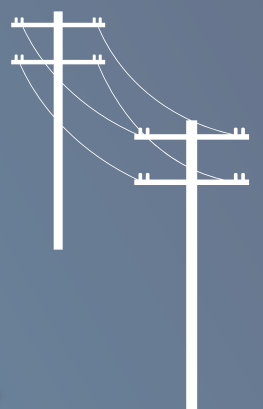
The battery size will be determined by the amount of energy needed for the type of vehicle and distance commuted.

\*Battery storage options are available that can hold between 45-190 miles of range. If more is needed, contact our team for a custom design.

### 5 HOUSEHOLD LOADS | THE GRID

- Excess energy will offset household loads.
- With battery storage, the system can backup the home, and provide off-grid EV charging.
- If your system is grid-tied, you can "sell back" your excess solar energy to The Grid\*

\*Not all municipalities allow energy export. Systems can be designed for zero export.



## QUESTIONS?

Chat with our team today!