

# Single Phase Solution for Three Phase Residential Sites

With support for the StorEdge™ backup solution

Connect SolarEdge's single phase inverters\* to a three phase site and enjoy:

- > Added energy production for reduced electricity bills
- > Superior safety features
- > Panel-level monitoring across all phases

\* A three phase inverter solution is also available from SolarEdge



## HOW DOES IT WORK?

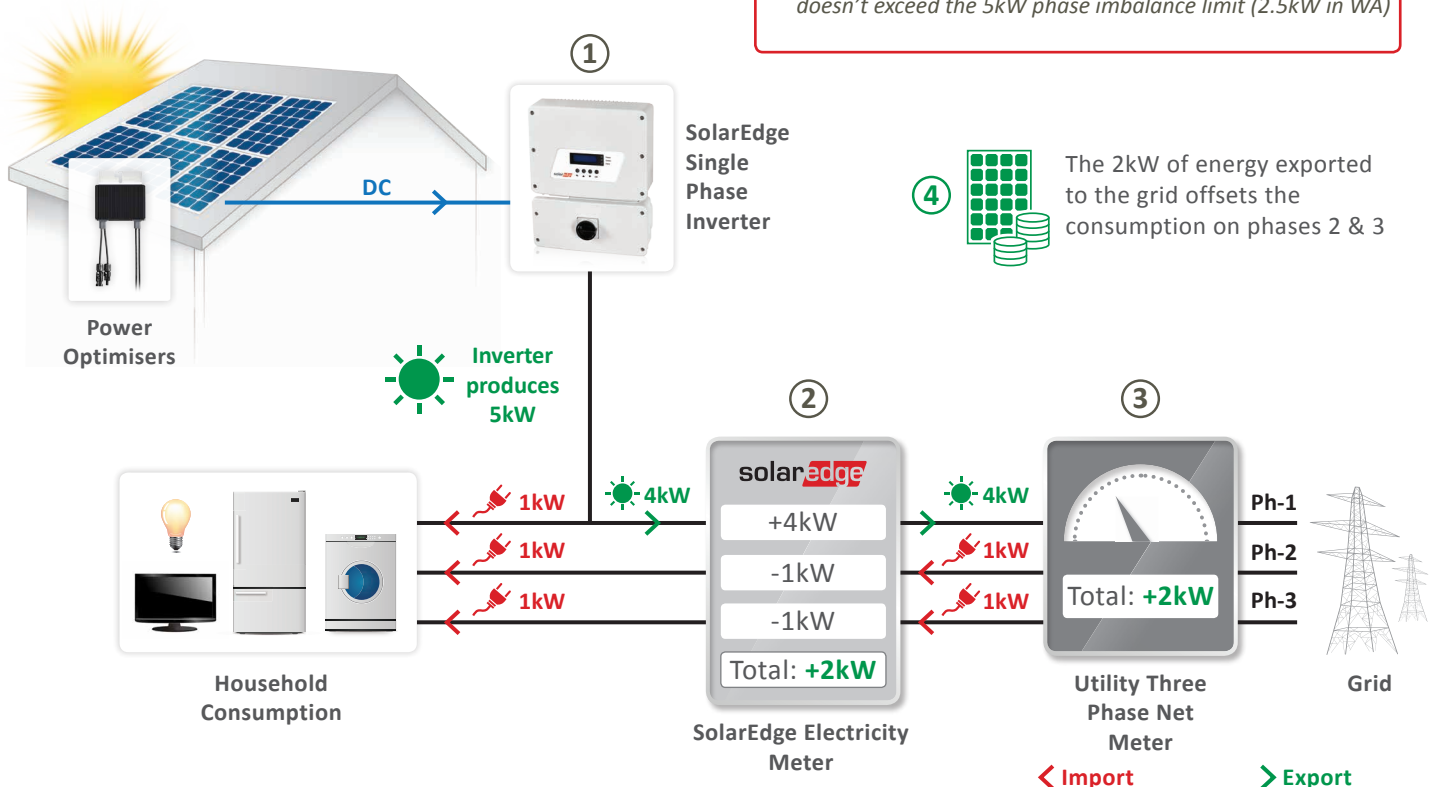
- ① One or more SolarEdge single phase inverters are connected to the residential three phase power supply, supplying loads to the connected phase
- ② SolarEdge's Electricity Meter is uniquely designed to monitor consumption across all three phases
- ③ Using the utility net meter, solar production on one phase offsets consumption on the additional phases
- ④ **Start enjoying lower electricity bills!**

### Net metering explained

Net metering enables reduced electricity bills by crediting any excess energy produced by the PV system and exported to the grid. The net meter records the imported grid energy consumed by the home as well as the excess energy exported back to the grid. You are paid a feed-in tariff for this excess energy, which helps to cut the electricity bill.

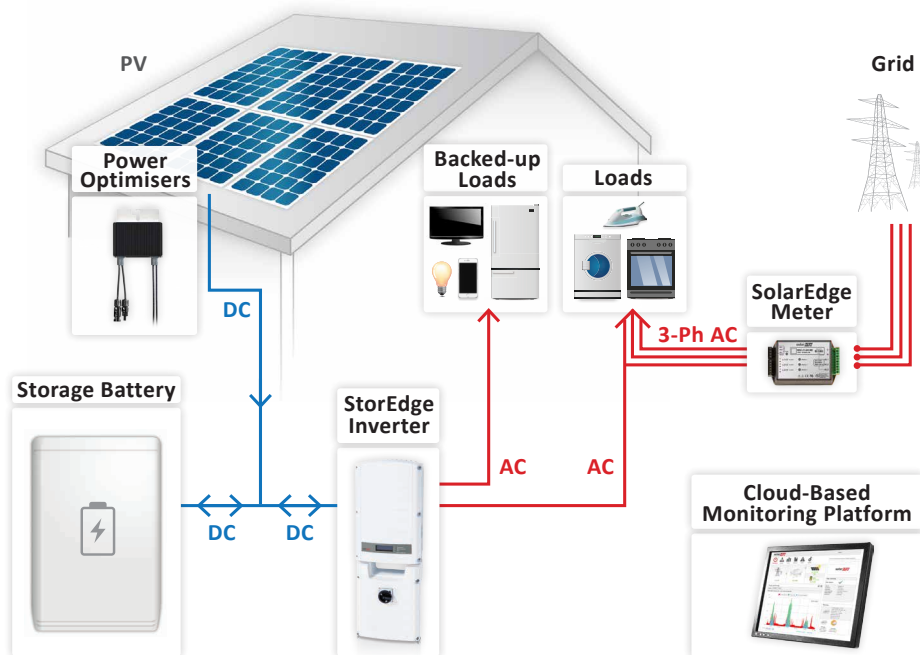
### Check with your installer that:

- > Your local energy utility currently supports net metering, across all three phases of your power supply
- > The size of the installed SolarEdge single phase inverter doesn't exceed the 5kW phase imbalance limit (2.5kW in WA)



## CONNECTING THE STOREDGE™ SOLUTION TO THREE PHASE HOMES

- > For new installations, connect the single phase StorEdge inverter for increased self-consumption and backup power
- > For existing installations with a third-party three phase inverter, connect the single phase SolarEdge AC coupled inverter



### Installing a SolarEdge System with StorEdge

- > The StorEdge inverter is connected to the first phase and supplies loads to that phase only, with loads to the other two phases supplied by the grid
- > The battery can also be discharged to meet the loads on all phases, in order to minimise energy imported from the grid
- > A SolarEdge meter is connected to all three phases and a three phase utility meter performs the net metering for each phase

## THE SOLAREEDGE SOLUTION



### POWER OPTIMISER

By connecting a SolarEdge power optimiser to a PV panel it becomes a smart panel:

- Enables more energy to be produced from each panel
- Provides constant feedback on the performance of each panel
- Designed to reduce each panel to safe 1V level for maximum safety in case of an emergency



### SINGLE PHASE INVERTER

A simple and reliable inverter:

- Responsible only for DC to AC conversion, as all other functions are handled separately for each panel by the power optimisers
- Extremely small, lightweight and easy to install
- Suitable for indoor and outdoor installations



### ELECTRICITY METER

Used for production, consumption or feed-in monitoring



### MONITORING PLATFORM

The monitoring platform enables:

- High level visibility of your system's performance
- Easy access via mobile devices
- Free monitoring for system lifetime