

Your solar power system explained...

Using your new solar power system is straight forward with very little user intervention required in the day-to-day operation of the system. When there is adequate sunlight the solar panels will produce Direct Current (DC) energy from the sun. The Inverter will turn the DC energy into Alternating Current (AC) energy available for use within the home or export to the power grid. Your homes appliances will consume their immediate needs and any excess energy will be fed back to the grid, gaining you a credit with your electricity provider.

In normal operation, the green LED on the front of the Inverter will be on. There will be no LED's on when the sunlight level is low or at night time. The Inverter has a display on the front that shows the operation and output of the PV (photovoltaic) system.

WARNING: Always switch off the Solar Supply Main switch and the PV Array Isolator before removing any modules or working on the system.

When disconnecting the solar system (only necessary for electrical work on the switchboard or maintenance of the PV system) always disconnect the AC solar supply main switch in the switchboard first. The Inverter is powered by the solar panels (not the grid). This takes the load off the inverter which then allows it to be switched off from the solar panels without damaging the DC circuit breaker.

Note: Solar panels cannot be stopped from producing power as long as they are exposed to the sun. By isolating the inverter as described above, the power is not being converted to AC therefore the switchboard is safe to work on as no power is coming from the solar system.

To reconnect the inverter, turn the DC 'PV Array Isolator' beside the inverter, then the AC 'Solar Supply Main Switch' in the switchboard.

START UP PROCEDURE

1. Turn on the AC SOLAR SUPPLY MAIN SWITCH located in the switchboard or distribution board.
2. Turn on the DC PV ARRAY ISOLATOR located beside the inverter.

SHUTDOWN PROCEDURE

1. Turn off the AC SOLAR SUPPLY MAIN SWITCH located in the switchboard or distribution board.
2. Turn off the DC PV ARRAY ISOLATOR located beside the inverter.

Any electrical work carried out should be completed by a licensed electrician or clean energy council approved solar installer.