

# SOLAR PANELS

## PHOTOVOLTAIC (PV)

What are they?

Solar photovoltaic panels capture and convert sunlight into electricity.

Why install?

Reduce your bills

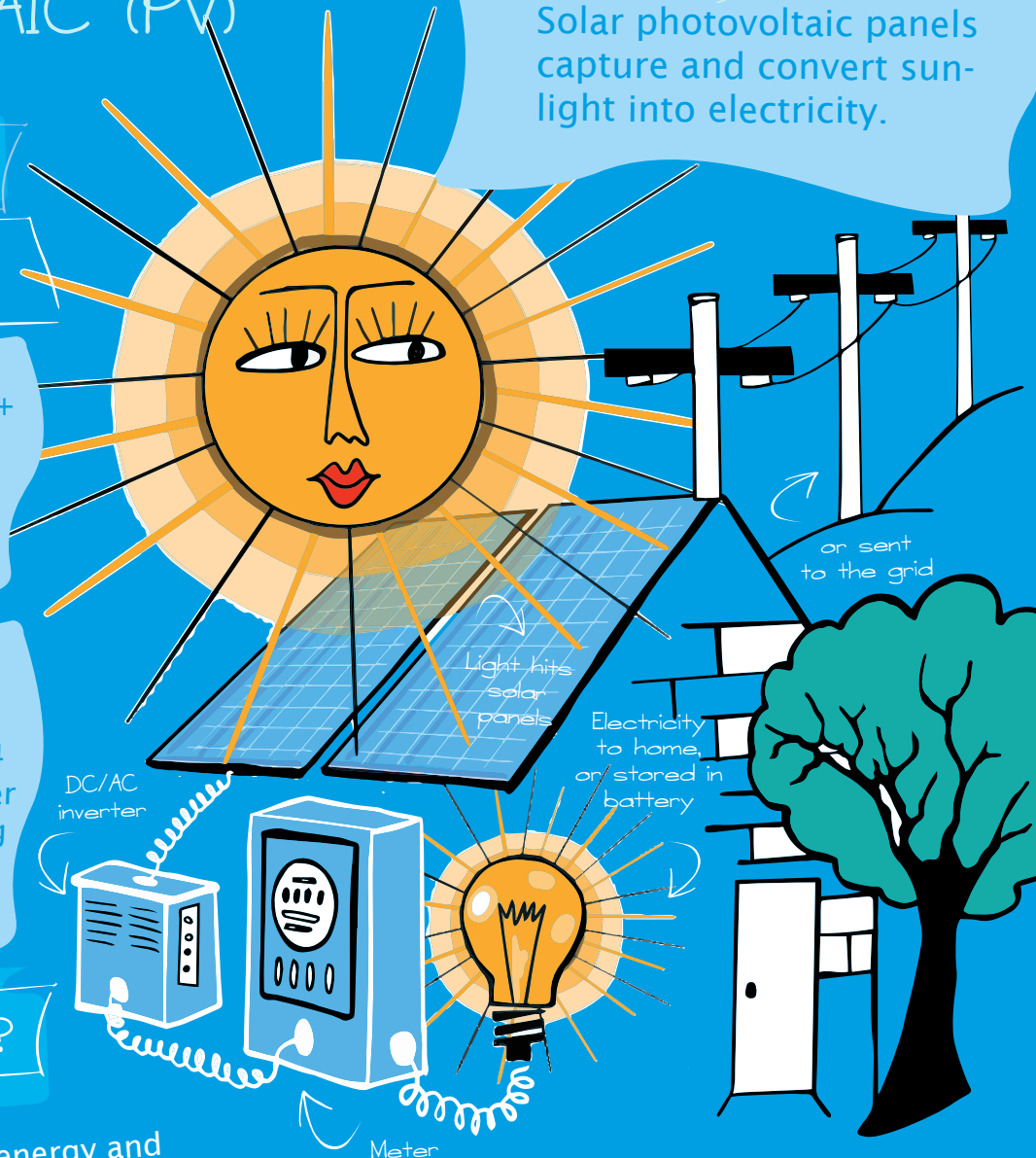
Generate free power for 25+ years and protect against rising energy costs.

Environmentally friendly

A typical residential PV system will eliminate 3 to 4 tons of carbon emissions per year - equivalent to planting over 100 trees annually.

How do they work?

1. PV cells absorb the sun's energy and convert it to DC electricity.
2. The solar inverter converts DC electricity from your solar modules to AC electricity, which is used by most home appliances.
3. Electricity flows through your home via a meter.
4. Excess electricity produced by your solar panels is fed to the electric grid or stored in a battery.



Worth noting:

Solar PV panels produce electricity, whereas Solar Thermal panels heat hot water.

You do not need direct sun light to generate electricity however the amount of energy generated by your panels will depend on a range of factors including the hardware chosen, size of system, the geographical location and the direction in which the panels are installed.

Check list:

Make sure your site is suitable.

Check if there are any grants available.



Northern Periphery and Arctic Programme  
2014-2020



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