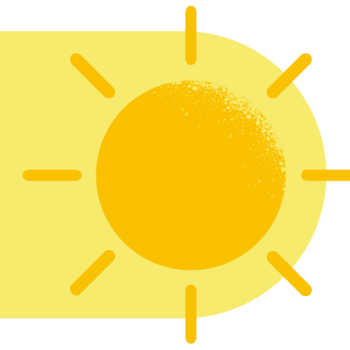


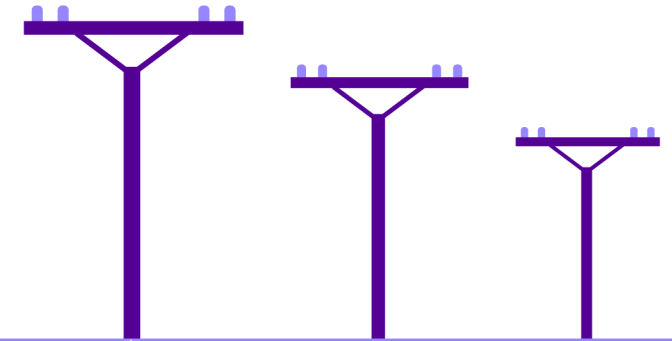
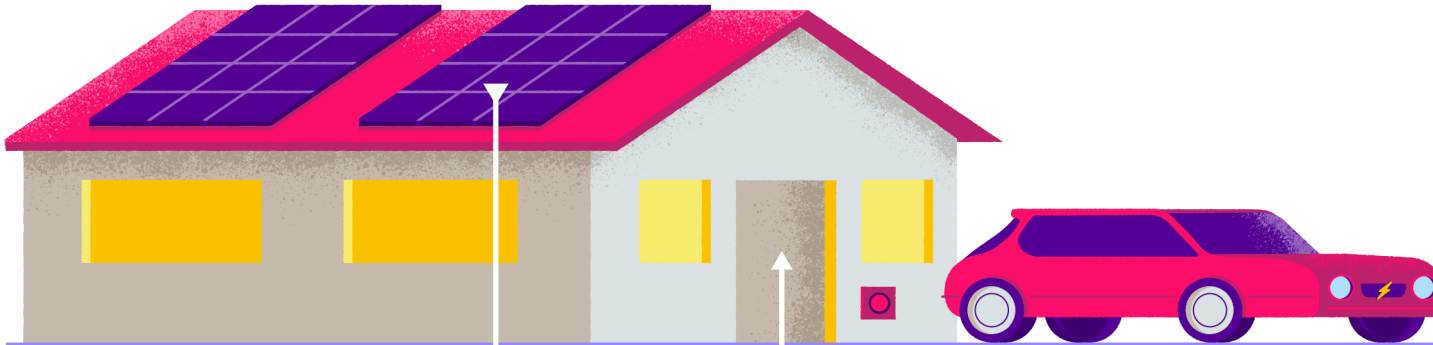
# How solar power is generated



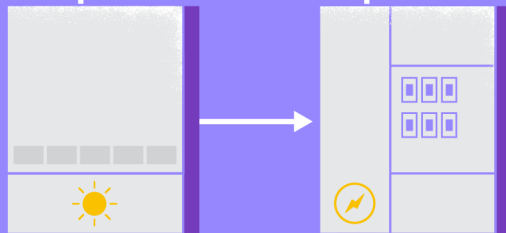
**1.** The energy from the sun that reaches the earth in one hour is enough to support the world's energy consumption for an entire year.

Sun emits photons of light that hit our solar panels.

**2.** These photons are absorbed by photovoltaic cells (PVs) that act as semiconductors of light. Electrons in these cells are excited and a charge of direct current (DC) electricity is generated.

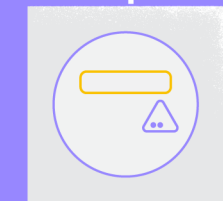


**3. SOLAR INVERTER**  
The DC is converted into alternating current (AC) by a solar inverter. AC power is required for useable electricity.



**4. DISTRIBUTION PANEL**  
Electricity generated powers the home or business' current use e.g. appliances and lighting.

**5. BATTERY**  
Energy is stored in a battery for use later on (such as night time when there's no new solar energy being collected by the panels).



**6. METER**  
If a battery is full and all current power needs are met, electricity generated can be fed back into the grid. You can sell your electricity back to your power company, usually for a credit on your power bill.