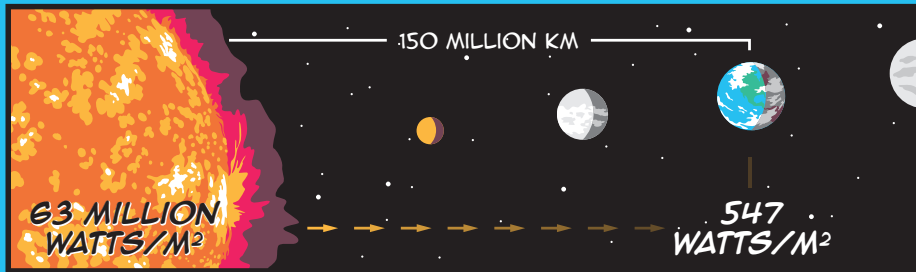
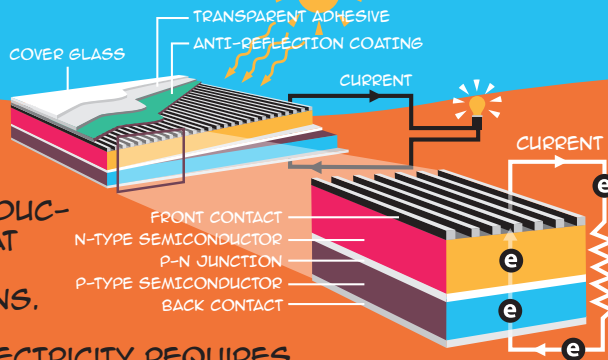


SOLAR

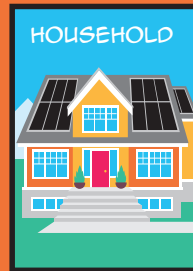
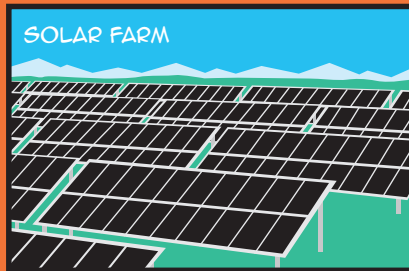
THE SUN CONSTANTLY EMITS AN INCREDIBLE 63,000,000 WATTS PER SQUARE METRE OF ENERGY, BUT MOST IS LOST ON THE 150 MILLION KILOMETRE JOURNEY TO EARTH.



ELECTRICITY IS GENERATED FROM SOLAR ENERGY THROUGH THE USE OF PHOTOVOLTAIC (PV) TECHNOLOGY, MADE OF SEMICONDUCTOR MATERIALS THAT ABSORB LIGHT AND RELEASE ELECTRONS.



GENERATION OF ELECTRICITY REQUIRES CURRENT AND VOLTAGE. IN A SOLAR CELL, THE FLOW OF ELECTRONS CREATES THE CURRENT AND THE ELECTRIC FIELD CAUSES VOLTAGE.



THE ELECTRICITY PRODUCED IN A PV PANEL IS DIRECT CURRENT (DC).

SINCE THE NORTH AMERICAN POWER GRID - AND MOST HOMES AND BUILDINGS - WORKS ON ALTERNATING CURRENT (AC), AN INVERTER IS REQUIRED TO CHANGE THE POWER FROM DC TO AC.

