## SUN TO HOME How Solar energy makes i to your house

Imagine a ray of sunlight as a stream of tiny particles. These particles are called photons. Each time a photon hits a photovoltaic (PV) cell, it knocks an electron loose. As electrons collect, a transfomer converts them into a usable stream of energy. An inverter converts the direct current (DC) into alternating current (AC). Then the electricity is carried by power lines - a highway for electricity - into your home!







	This top layer of glass protects the silicon crystals inside from wind, rain, hail and snow.	The lay ref ens car
A thin screen of metal knocks the electrons loos and transfers them to the next layer.	The top layer of silicon is treated with phosphorus makign it electrically negative. The middle layer is an electrically charged junction, which allows electrons to flow through an external circuit, provideing power to the attached electrical system. Boron is added to the back layer making it electrically positive.	The cor elec this and spc and pho the

e anti-glare yer reduces flection and sures photons in pass through.



e circuit is mplete when ectrons return to s bottom layer d find "resting ots" in the electron or bottom layer, d wait for the next oton to shake em loose.

