



Solar rays feed the solar grid...



The grid feeds the inverter...



The inverter converts DC power to AC power...



The AC power gives us electricity...



Photovoltaic (PV) cells produce electricity directly from light at a quantum level with no moving parts or use of heat. In a PV cell photons of light knock electrons across a thin barrier to electrical flow that forms at the junction of certain materials. The excess electrons that build up on one side of the barrier are allowed to return to the other side by flowing through an electric circuit and providing electrical power.

PV cells produce direct current (DC). DC does not oscillate like the alternating current (AC) of conventional power used in our homes and businesses. To convert DC to AC requires an inverter. The inverter matches power produced by the photovoltaic array to power used in the school equipment and lights. If excess power is available it flows back out through the utility meter and offsets future bills.