



# Solar water heater near me

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Photovoltaic solar systems produce electricity by using solar cells that convert sunlight into direct current (DC) electricity. When photons in light hit the solar panel, they get absorbed by the panel's semi-conducting materials, causing negatively-charged electrons to be knocked loose from their atoms.

Due to the special chemical composition of solar cells, the knocked-off electrons are only allowed to move in a single direction, creating direct current (DC) electricity. The chemical bonds of the panel, often using silicon bonded with boron or phosphorus, are vital for this process to work effectively.

To make the electricity usable in homes, an inverter comes into play. The inverter converts the DC power produced by the solar panels into alternating current (AC), which is the standard form of electricity used in households.

Standalone systems are designed to stand independent of the power grid and use batteries to store energy. Standalone systems are usually used in remote locations away from the energy grid.

A active solar water heaters uses a pump that circulates water through the system. Solar water heaters will reduce water heating costs up to 100%. There are two types of active systems: direct circulation (open loop) and indirect circulation (closed loop).

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