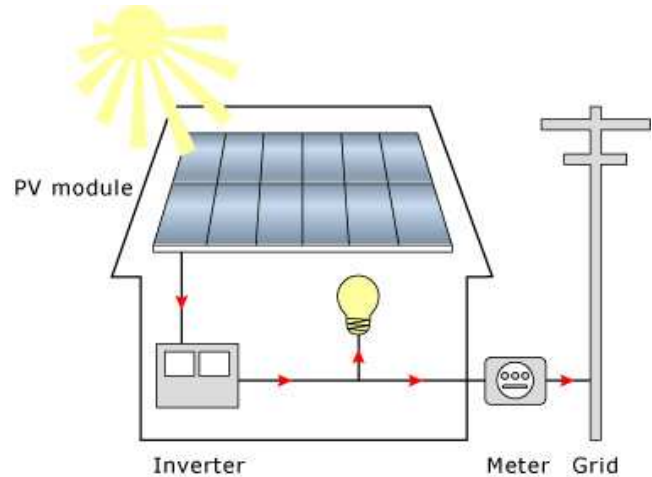


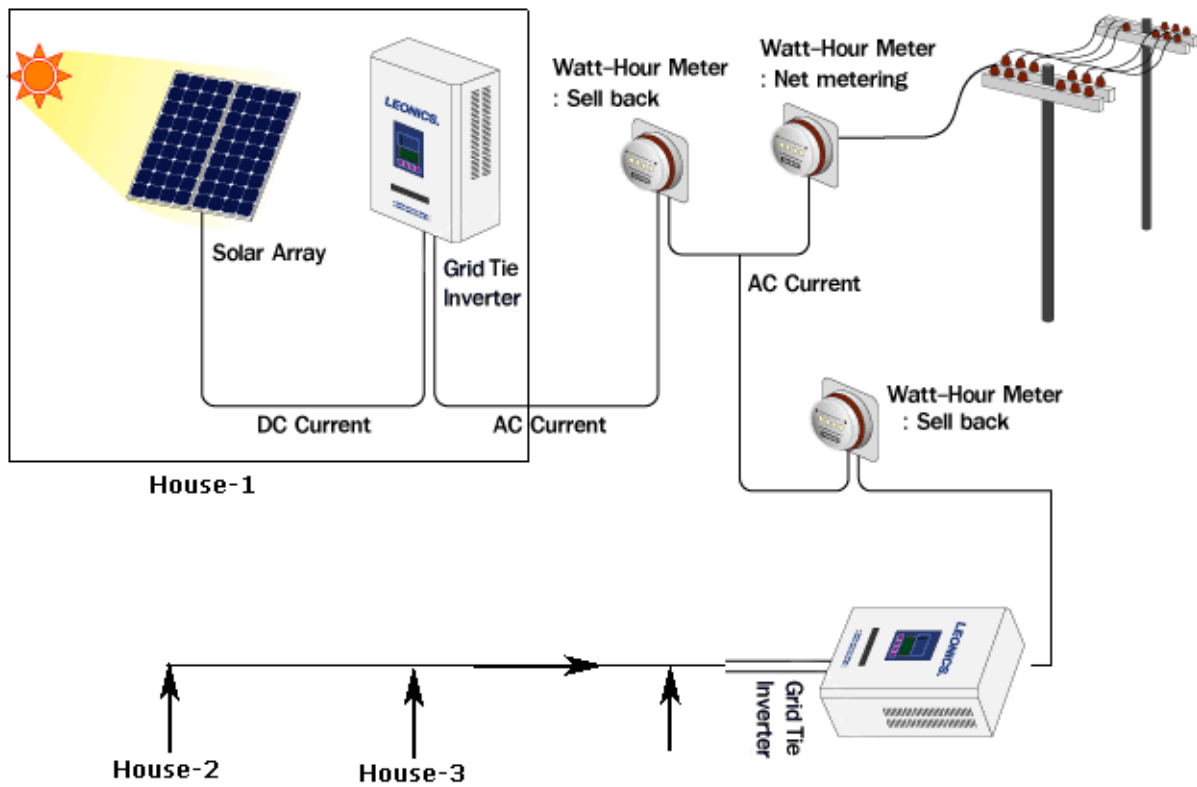
**15. Grid Tie solar PV for Buildings.**

- PV modules (solar panels) collect the Sun’s energy and convert it into direct current (DC) electricity.
- An inverter converts the DC electricity from the panels into the type of electricity we all use: alternating current (AC).
- When your solar system generates more electricity than you are using, your meter spins backwards, selling power back to the utility at the same rate you pay when you buy electricity from the utility.
- Any excess electricity generated by the solar system is, in effect, stored in the utility grid for future use.
- The system "knows" when to switch between utility power and solar power and does so with no interruption whatsoever. The solar electricity flows through and works with the same house wiring, lighting and appliances that you already have.



**15.1**

The picture below shows the community based solar power system



**15.2**