Case Study

Solar Energy in Rural Sanitation

An Innovative Concept

- There are millions of Rural Toilets in India without any running water. Most of the toilets do not have lights also. This is a major problem of not only India but most of the developing countries.
- Recently an innovative concept has been tried in India to solve this problem.



A maternity home in a remote rural village



Water Body in front of the maternity home

- The toilets of the home did not have running water.
 Even pregnant women used to carry bucket of water to the toilet from the water body.
- Present situation:-



Micro Solar Pump House



Micro Solar Pump under operation



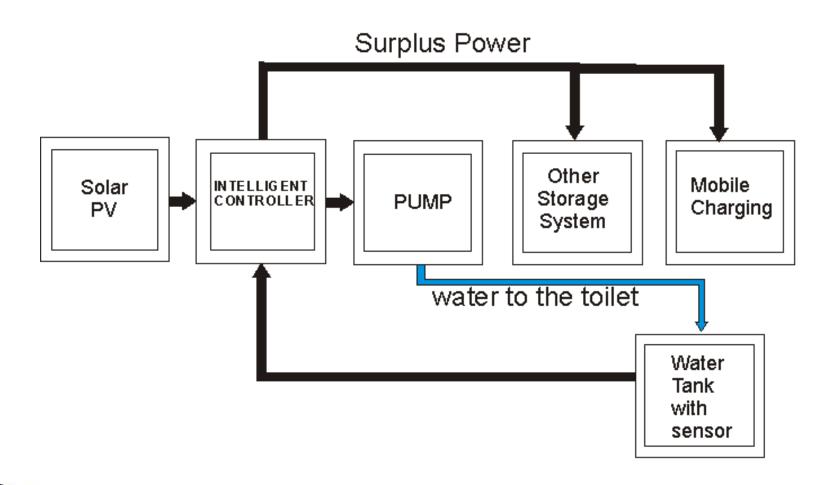
Water Tank with 5 days Storage

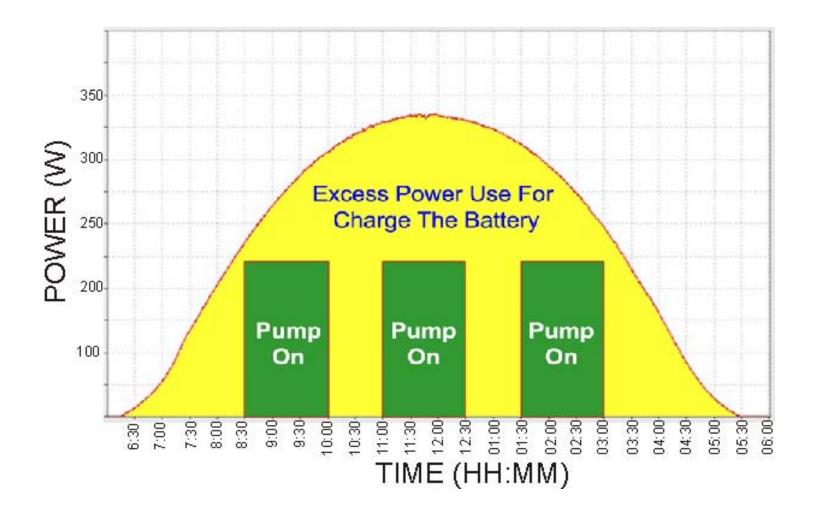


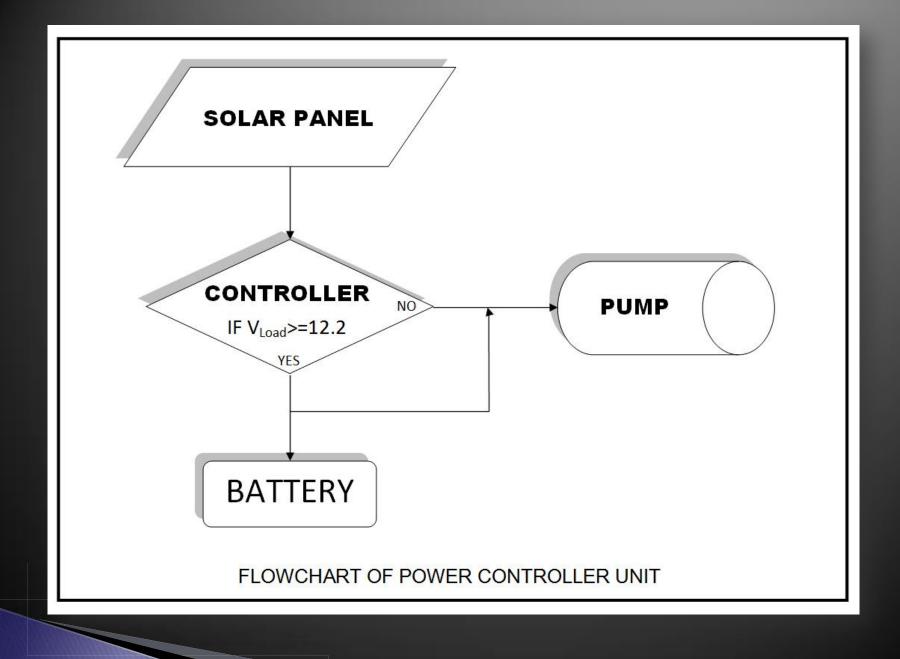
Running water in the toilet

Block diagram of the demonstration Project:

Diagram: 1







The Hospital did not have light. An intelligent Controller has been developed when the pump is not running (Tank is full) the Solar Power goes to lighting circuit to charge the battery.



Controller



Lights

We can all try such innovative ideas to popularize Solar Power.



THANK YOU