



SOLAR LENS



- Description

Primary variables in improving solar energy absorption in solar panels: 1- Increased the effective area / 2-Increased radiation absorption power. The first factor needs to spend a lot amount of money but in the second factor different methods are followed :

- A) improving the type of polymer used
- B) improving the open circuit voltage
- C) improving the absorption of sunlight

In this project we have tried to increase the ability to absorb radiation through physical solutions and the phenomenon of resonance. Accordingly, the lens energy generator structure and its ability to focus on sunlight were used.

Structure of redesigned generator with a Lens :

Due to the enclosure of the site by surrounding buildings and the creation of shadows during most of the day, we were able to deploy a generator of energy at height, in addition to providing the height at the altitude for the generator, which is exposed to the air flow and thus The way from the unusual climb is to prevent the temperature of the panels exposed to lens radiation.

