Spherical lens and solar power generation

Japanese technology initiatives are challenging the conventional flat solar panel architecture through the introduction of novel photovoltaic designs and strategic governmental ...

Light enters the generator, preferably first through a sealing window, and passes through a field lens, preferably in the form of a full sphere or ball lens centered on the paraboloid focus.

Herein, a new design is presented where a liquid spherical lens acts as a secondary optical element of the concentrating solar system, refracting the light beam while participating in ...

In order to obtain maximum energy from spherical lens, a microcontroller based spherical lens system has been developed that takes into account both solar azimuth and altitude angles. Thus, the sun ...

His simple but effective sphere design incorporates different materials into a striking installation that delivers solar-generated electricity, even ...

Solar energy collection has had some vast improvements over the last few years; however these new prototypes from German-born, Barcelona-based architect André Broessel are quite striking since his ...

The glass sphere is used to concentrate diffused sunlight into a small surface of tiny solar panels. The ball lens is able to concentrate and diffuse light on one small focal point, which means less material ...

The solar spheres we are talking about are called Rawlemon, a sphere-shaped lens that generates solar energy. It is 70% more efficient than ...

the spherical glass solar energy generator uses the advantageous strategy of implementing a ball lens and specific geometrical structure to ...

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