Solar low-altitude power generation

This work arose from a Bachelor"s degree capstone project at Hong Kong Polytechnic University to modify a 2-metre wingspan remote-controlled UAV available in the consumer market to be powered ...

A steady and uninterrupted electrical power supply is required for these applications, this can be achieved through power generation in situ (i.e., onboard an airship or aerostat), either by ...

A balloon-integrated photovoltaic system is proposed for low-altitude deployment.

Researchers in China have created a balloon-integrated photovoltaic system that reportedly represents a feasible solution for emergency PV power generation in mid-to-high latitudes.

paper describes the method of designing such a system and suggests strategies for overcoming these challenges. The issue of non-uniform illumination has been tackled by maximum power point tracking ...

The procedure described in this paper can be used for obtaining the optimum power generation capability of a solar photovoltaic array mounted on a lighter than air platform of a given volume and ...

Use of lighter than air platforms (aerostats and airships) for reconnaissance and surveillance over long periods can be facilitated by generation of power on-board through solar photovoltaic arrays.

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