

Is a solar energy storage power generation system based on Isru?

A solar energy storage power generation system based on ISRU is established and analyzed. The linear Fresnel collector and lunar regolith thermal energy reservoir (TER) coupling with Stirling power generator are designed. The conversion performance analysis of the solar Stirling power generation system is carried out.

What is a solar thermal storage system based on lunar ISRU?

The lunar regolithsolar thermal storage power generation system based on lunar ISRU is a promising solution of energy supply challenge for long term lunar exploration. The average output power of the designed system can reach 6.5 kW, and the total photoelectric conversion efficiency of the system is 19.6%.

Are solar PV systems ready to power a sustainable future?

Real-time predictive capabilities and operational efficiency of solar PV systems can be investigated via the integration of real-time weather data. Data will be made available on request from the corresponding author, Sameer Al-Dahidi. Victoria, M. et al. Solar photovoltaics is ready to power a sustainable future. *Joule* 5, 1041-1056 (2021).

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