

What is a 'linear generator'?

(Credit: Mainspring Energy) Over the past decade, Mainspring Energy has been at work on a novel 'linear generator' that it says can provide on-site electricity with lower emissions than fossil-fueled engines and microturbines, and greater flexibility than fuel cells.

Can a Stirling engine make a solar-powered generator?

This is an important parameter for the design of the Stirling engine and the start-up characteristics of the generator. Thrust force obtained from finite element calculation. This study develops a novel linear generator that can be combined with a Stirling engine to form a solar-powered generator.

Could solar power be part of a microgrid?

Solar and batteries on their own cost too much to reliably provide megawatts of power for days at a time, but they could be part of a microgrid centered on generators that can move from fossil to low- or zero-carbon substitute fuels over time, she said.

Can a parabolic generator generate electricity from solar energy?

Abstract An alternative way to generate electricity from solar energy is through the use of generators comprising Stirling engines with a parabolic collector. This study describes a parabolic colle...

How to produce electricity using concentrated solar power?

Electricity production using concentrated solar power is based on the heat-mechanic-electric energy conversion process. Parabolic trough, the dish/engine, the chimney, and the power tower can be listed as thermal power technologies [2]. The parabolic collector and Stirling engine and generator is a good candidate for investigation.

Which force is acceptable for generating energy from solar?

Thrust force is acceptable for initial starting. The generator is suitable for generating energy from solar using the free piston Stirling engine. Serdal Arslan: Conceptualization; Data curation; Formal analysis; Investigation; Methodology; Software; Validation; Visualization; Writing--original draft; Writing--review & editing.

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Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

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