

Title: Dish solar air turbine power generation

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CSP dish engines, which provide high solar concentration and are in use globally, currently hold the world record for solar-to-electric system efficiency at 31.4%.

This chapter describes recent developments in dispatchable parabolic dish solar concentrator systems powering a micro gas turbine operated by a single dish that tracks the sun on two axes. System ...

The collected heat is typically utilized directly by a heat engine mounted on the receiver moving with the dish structure. Dish can attain extremely high temperatures, and holds promise for use in solar ...

In this work, various novel solar-dish parallel-flow Brayton cycles that make use of combinations of commercial radial turbochargers to form microturbine configurations are therefore ...

This chapter describes recent developments in dispatchable parabolic dish solar concentrator systems powering a micro gas turbine operated by a single dish that tracks the sun on ...

The dish/engine system is a concentrating solar power (CSP) technology that produces smaller amounts of electricity than other CSP technologies--typically in the range of 3 to 25 kilowatts--but is ...

This paper presents an innovative methodology to perform market analysis of a new solar power generation technology based on parabolic dish and micro gas turbine engines.

To date, the prime use case for CSP has been utility-scale electricity generation, with massive installations dedicated to generating heat to produce steam which then powers a turbine ...

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