Novel solar power generation

Overview

In this episode of the Physics World Stories podcast, Andrew Glester explores two novel forms of renewable-energy generation, both with the potential to scale and not suffer from issues of intermittency. Space-based solar power: could beaming sunlight back to Earth meet. From stretchable or paint-infused solutions that can generate electricity from the Sun to ways for you to power your own electronics, the future of energy generation may be a very alien place to live in indeed. Some technologies may even, finally, enable us to drop our addiction to fossil fuels. A 16-year veteran and former Managing Editor of Chemical Engineering magazine, Suzanne now writes about a broad array of engineering and business topics related to the chemical, petroleum refining, pharmaceutical and related industries, for both corporate clients and technical trade magazines. The configurations consist of open Brayton, steam Rankine, and organic Rankine cycles.

Novel solar power generation

Green and novel: the future of energy generation

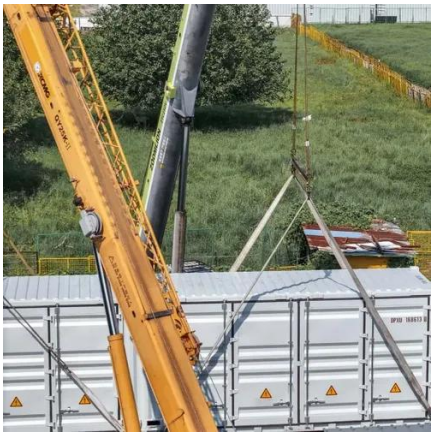
In this episode of the Physics World Stories podcast, Andrew Glester explores two novel forms of renewable-energy generation, both with the potential to scale and not suffer from issues of ...

A novel solar power generation hybrid system comprising evacuated U

This paper introduces a novel solar power generation hybrid system that merges an angle-independent evacuated U-tube solar collector (EUSC) with a thermally regenerating ...

A Novel Renewable Smart Grid Model to Sustain Solar Power Generation ...

As a result, the distributed grid model's dependable performance is intended for integrated wind energy, SPV arrays, and BE systems. This paper proposes a renewable intelligent ...



Artificial intelligence based hybrid solar energy systems with smart

A combination of AI, smart materials, adaptive solar cells, and blockchain power distribution provides a new solution towards weather-independent and autonomous solar power ...

Articles

In the present work, an organic Rankine flash cycle (ORFC) was implemented in a conventional solar power tower (SPT)-helium Brayton cycle (HBC) to generate extra power, ...

A Novel Solar PV Generation Forecasting Model for Standalone ...

In this paper an Artificial Intelligence (AI) system is used to predict the global solar irradiation level in the site and Artificial Neural Network (ANN) controller is used to monitor its performance based on the ...

A Novel Deep Learning-Based Data Analysis Model for Solar ...

Photovoltaic power generation forecasting is short term by considering climatic data such as solar irradiance, temperature, and humidity. Moreover, we have proposed a novel hybrid deep ...

Novel Power Generation Strategies

Today, the engineering community and many governments throughout the world are devoting considerable attention to encourage the commercial-scale deployment of promising alternative power ...

Novel Renewable Technologies That Could Power the Future

Other than the usual solar PV, solar thermal, micro-wind turbines, and ground or air heat pumps, you may ask, what other novel renewable power sources exist (or are in the pipeline)?

Thermodynamic analysis of a novel combined cycle based on solar ...

Rabbani et al. (2017) introduced a novel integrated solar energy unit utilizing a heliostat field for combined power and hot water generation. It was shown that for the suggested unit, the best ...

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