

PM Surya Ghar: Muft Bijli Yojana is a government scheme that aims to provide free electricity to households in India. The scheme was launched by Prime Minister Narendra Modi on February 15, 2024. Under the scheme, households will be provided with a subsidy to install solar panels on their roofs.

This paper proposes a model called X-LSTM-EO, which integrates explainable artificial intelligence (XAI), long short-term memory (LSTM), and equilibrium optimizer (EO) to reliably forecast solar power ...

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Abstract Distributed solar generation (DSG) has been growing over the previous years because of its numerous advantages of being sustainable, flexible, reliable, and increasingly affordable. ... and L. Tesfatsion. 2007. "Dynamic testing of wholesale power market designs: An open-source agent-based framework." *Comput. Econ.* 30 (3): 291-327 ...

How do free solar panel schemes work? "Free" solar panel schemes, also known as rent-a-roof schemes, used to be commonplace a few years ago. These were run by companies eager to cash in on the feed-in tariff (FIT). This guarantees payment in return for electricity generated using renewable technologies, including solar power.

This paper proposes a model called X-LSTM-EO, which integrates explainable artificial intelligence (XAI), long short-term memory (LSTM), and equilibrium optimizer (EO) to reliably forecast solar power generation. The LSTM component forecasts power generation rates based on environmental conditions, while the EO component optimizes the LSTM model's ...

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Hybrid agent-based simulation for policy evaluation of solar power generation systems. Author links open overlay ... stands out as one of the most promising ones since solar irradiation is clean, free, widely spread and less subjected to location constraints, and solar power generation systems has minimal environmental impact



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(e.g. noise ...

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Renewable energy sources such as PV solar or wind power are intermittent and non-dispatchable. Massive integration of these resources into the electric mix poses some challenges to meeting power generation with demand. Hence, improving power generation forecasting has raised much interest. This work assesses the market value of enhanced PV ...

This work assesses the market value of enhanced PV solar power generation forecasting. Then, we analyse the different agents present in the electricity system. We link the studied agents to the ...

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