

Title: Solar Power Generation Dong Hongming

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The integration of renewable energy into power systems poses significant challenges due to its inherent intermittency and volatility. Unlike conventional thermal units, wind and solar outputs ...

In this paper, we present a framework that aims to minimise power generation costs while satisfying carbon emission constraints. We then construct a carbon-abatement investment-option game...

In this paper, by exploiting the dynamic regulating ability of hydropower and energy intensive controllable load to reduce the power output uncertainties, an optimal wind-solar capacity allocation ...

Hongming Yang Director, Hunan Province Engineering Research Center of Electric Transportation and Smart Distribution Network; Vice Dean, School of Electrical and Information Engineering, Changsha ...

An accurate estimating solar power generation, with its high penetration to the modern grids, is a tricky task because of the unpredictable nature of factors such as environmental and weather conditions.

Hongming Yang, Wenjun Xu, Junhua Zhao, Dianhui Wang, Zhaoyang Dong: Predicting the probability of ice storm damages to electricity transmission facilities based on ELM and Copula function.

The comprehensive analysis demonstrates the superior adaptability of the proposed hybrid model compared with other prediction approaches, establishing its efficacy as a versatile and ...

She joined CSUST, Changsha, China, in 1997, where she is currently a Full Professor. Her research interests include renewable energy in powersystems and power markets.

With the increase in the proportion of photovoltaic (PV) generation capacity in power systems, the balance and stability of scheduled power become complicated.

The renewable-dominated power system has a high proportion of renewable generation, which promotes the



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achievement of the carbon peak and carbon neutrality objectives in the power industry.

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