



# Shimiao Solar Power Generation Project

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Our lab's core product is an optimization-based toolbox focused on the diagnosis and mitigation of high-impact threats (e.g. blackouts) in power systems, enhancing resilience across all stages of grid ...

The Tarim Oilfield of China National Petroleum Corporation, China's leading oil and gas producer, has successfully connected a 600,000-kilowatt photovoltaic (PV) power generation project to the grid in ...

Shimiao Li. (2024) Exploiting sparse structures and synergy designs to advance situational awareness of electrical power grid. (Doctoral dissertation, Carnegie Mellon University).

The operational/applicant entity working on this project has decided to make the Project Design Document (PDD) publicly available directly on the UNFCCC CDM website.

My research interests include physics-informed machine learning, optimization and computational models, applied to anomaly/threat detection, estimation and other security analysis in the context of...

To address the challenges associated with grid integration costs and land consolidation in the site selection of large-scale PV power plants, this study proposes an innovative three-stage ...

My research interests span across optimization, AI, and power grid resilience. My group develops targeted fast-acting decision support tools to identify and mitigate high-impact threats and ...

growth and success in the solar photovoltaic power generation market. As the world's largest energy consumer, China's commitment to renewable energy and its pursuit of a more sustainable energy ...

The project will convert solar energy into thermal power during the day, enabling stable power generation for up to eight hours during nighttime.

Localizing failure: developed simulation method with infeasibility analysis capability to localize the dominant



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causes of failure for any power system that are found infeasible (i.e., in blackout) during ...

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