



Solar inverter Risk Analysis Report





Overview

kWh Analytics has released the seventh edition of its “Solar Risk Assessment” (SRA) report, which presents a view of the evolving risks associated with solar and battery energy storage systems (BESS). As we reflect on the past year, it's clear that our industry's ability to collaborate and innovate remains one of our greatest. The generation resource mix across the Western Interconnection continues to rapidly transition to increasing levels of renewable energy resources, predominantly inverter-based resource (IBR) technologies such as wind, solar photovoltaic (PV), battery energy storage (BESS), and hybrid plants. Electricity is a key component of the fabric of modern society and the Electric Reliability Organization (ERO) Enterprise serves to strengthen that fabric. The vision for the ERO Enterprise, which is comprised of NERC and the six Regional Entities, is a highly reliable, resilient, and secure North. NREL is a national laboratory of the U.S. New research by Forescout Research's Vedere Labs exposed vulnerabilities in solar power systems after analyzing six major solar inverter manufacturers, including Huawei, Sungrow, Ginlong Solis, Growatt, GoodWe, and SMA Solar Technology. The SUN:DOWN research revealed that Sungrow, SMA, and Growatt.



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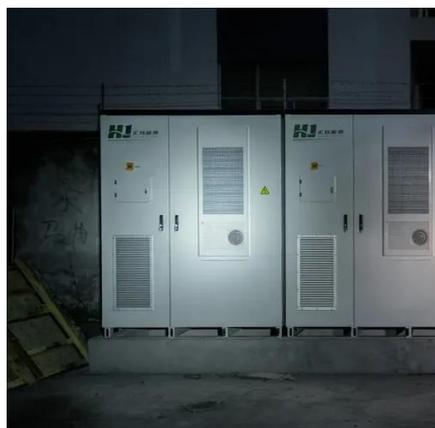


Photovoltaic Inverter Reliability Assessment

This report provides a detailed description of PV inverter reliability as it impacts inverter lifetime today and possible ways to predict inverter lifetime in the future.

Inverter-Based Resource Risk Assessment

This analysis highlights that collectively the industry may be struggling to implement risk mitigation measures and solutions in a timely manner that keeps up with the exponential ...



[Cybersecurity for Smart Inverters: Guidelines for Residential and ...](#)

Smart inverters provide two critical functions to a small-scale solar energy system; they convert the direct current (DC) produced by solar panels to the alternating current (AC) used on the electric grid, ...

[Forescout SUN:DOWN research uncovers critical vulnerabilities in solar](#)

New research by Forescout Research's Vedere Labs exposed vulnerabilities in solar power systems after analyzing six major solar inverter manufacturers, including Huawei, Sungrow, ...



[Quantification of Technical Risks in PV Power systems](#)

The general setting of Task 13 provides a common platform to summarize and report on technical aspects affecting the quality, performance, reliability and lifetime of PV systems in a wide variety of ...

Inverter-Based Resource Performance Issues Report

This report documents key findings and recommendations based on the assessment NERC conducted after the alert. The report provides aggregate information and details the extent of condition of ...



Raptor Maps

Raptor Maps studies the performance and risk profiles of solar assets around the world in order to distill industry trends and to highlight opportunities for the rapidly growing solar industry. This report is a ...



[2025 Solar Risk Assessment finds](#)



enhanced cybersecurity measures

kWh Analytics released its 7th annual Solar Risk Assessment (SRA), a comprehensive report designed to provide an objective, data-driven evaluation of solar and battery energy storage ...

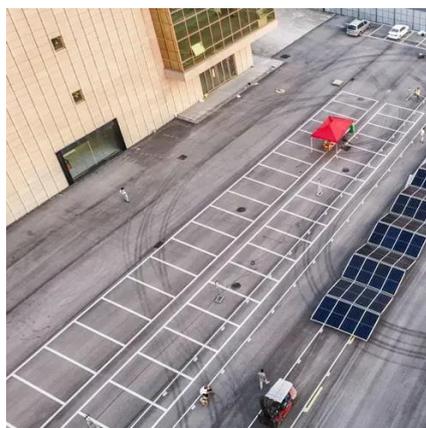


Solar risks in 2025: report flags BESS and PV operational gaps

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SOLAR RISK ASSESSMENT

The sixth annual Solar Risk Assessment highlights the remarkable progress and resilience of the solar industry in the face of rapidly evolving risk management challenges.





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