



# Performance Analytics for Operating Solar Photovoltaic Facilities

## Solar's Hidden Problem

kWh Analytics found that large-scale solar power plants underperformed their initial energy production expectations by 6.3% in 2020. Production uncertainty makes solar assets appear riskier to investors, resulting in higher costs of capital, a major hidden “soft cost” slowing solar deployment.

## The PRISM Solution

PRISM® creates a **digital twin** of the solar facility to benchmark performance while accounting for actual weather conditions on site. PRISM applies advanced analytics to standard monitoring data to quantify losses from various operational issues, such as inverter and DC zone outages, snow and soiling losses, curtailment, and model error. PRISM delivers **insight** into solar facility performance and **actionable recommendations** to maximize production and revenue.

## PRISM Value Proposition



**Maximize asset revenue** by identifying addressable issues and reducing O&M troubleshooting effort



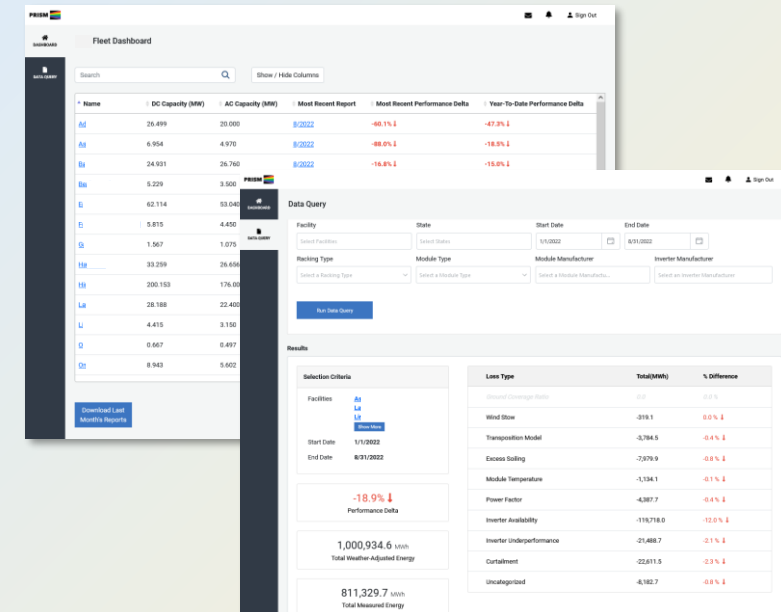
Assess operating fleet performance to **inform accurate project valuations** for refinancing and acquisitions



**Reduce performance risk** on new projects by improving production modeling and revenue forecast accuracy

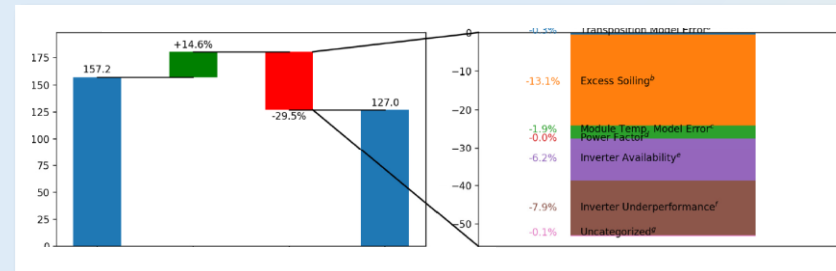
## PRISM Cloud Platform

- Retrieve and run performance reports
- Analyze fleet-wide performance metrics
- Access output data products via API

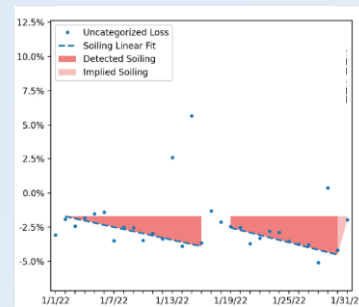


## PRISM Features

### Detailed Performance Breakdowns



### Snow & Soiling Detection



### DC Outage Detection



Developed by



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