



Improve Plant Yield 2 – 4% + O&M Efficiency 15% Built into an Automated, RealTime Monitoring Platform

You need to monitor your fast-growing portfolio in 1-Place, with 1-Source of Truth.

Quadrical Provides value by...

Performance Improvement + O&M efficiency built right into your Asset Operations Monitoring & Management Platform for Solar, Storage & Wind. In RealTime, on the Cloud, hardware independent.

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Centralize – Clean, organize, systematize, & train data so it becomes useful.
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Monitor – Anomalies, outages 24/7. From whole portfolio down to every piece of equipment with sensors. Prescriptive + preventative + predictive maintenance.
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Analytics – Digital Twins + ML + Statistics + Physics Rules for predictive analytics. Easy No-Code Rule Additions. Automated performance analytics, Verifiable with Detailed dashboards for root cause analysis.
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Ticket – Automated flagging of Issues + tickets opened / closed easily. Shareable with vendor O&M teams.
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Communicate – Performance Managers + Asset Management + Operations + O&M Vendors + Leadership + Investors share 1-source of truthful information.
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Report – Fully automated, so assets almost report their own performance.



Predictive Analytics -
To go beyond outages & alarms



Rapid Onboarding -
1 GW Portfolio, on Platform in 45 Days



Prediction & Anomaly Detection AI -
Proprietary, Patent Pending & Built-In



Deployed on 3.5GW Solar + 5GWh Storage + 200MW Wind

Run your business operations on autopilot, so you can focus on all the new plants you're building. Integrate portfolio on platform in days and weeks, not months & years. Ultimately, the Quadrical team aims to be a partner in your digitalization, not just a software supplier.

Storage

Digital Twin based Advanced Battery Analytics Platform. True insight, which goes beyond BMS Alarms, so you get the most out of your storage asset.

Cloud Storage Platform with root-cause analysis and revenue-prioritized tickets for:

- Outages,
- Degradation,
- Anomalies, predictive maintenance
- Analytics for weak cell/module replacements

Transparency for relevant KPI'S

- Yield / Availability / Capacity
- Monitoring + Daily Generation Reports
- Fault + Liquidated Damage Analysis

Track real State of Charge (SoC) with an EMS so capacity utilization is maximized. Extensible Platform with No-Code Rules for expansion, Warranty compliance, OEM Liquidated Damages (LD's), Analytics.



e-STORAGE
A subsidiary of Canadian Solar

Frederic Rivollier
Managing Director, EES

"Quadrical's expertise in developing a sophisticated data analytics platform has empowered us to effectively optimize the performance of our utility-scale BESS projects. Quadrical's professionalism, attention to detail, & transparent communication made them invaluable."

SolarArise

James Abraham
Founder and Director

"Quadrical Ai's Digital Twin approach was instrumental in setting realistic expectations and then pinpointing areas of under performance that focused our teams' efforts."



Sharat Singh (Engineering, Data) & Dr. Hugh Hind (AI) bring learnings from long technology careers building enterprise grade, trusted, secure products. Combining deep math + data + prediction & anomaly detection AI helped us build the first Digital Twins for the solar industry.

Plant Audit

Give us 2 Hours of your time

Transparency + Actionable Results. No risk, no disturbance to your current systems.

Solar

In 48 Hours, you get:

Performance check showing historical + current losses in buckets by DC, Inverter & AC

- Issue identification. Trend Analysis
- Revenue Prioritized Actionable

Storage

In 10 Days, you get:

Current Availability + Capacity Report, Warranty + Safety Compliance Report

- Next Day Availability + Capacity Forecast to inform & optimize your dispatch strategy
- Revenue Prioritized Tickets to guide:
 - Battery Module Replacement.
 - Liquidated Damages (LD's)

