Improve your Plant Yield by 2-4%/O&M Efficiency by 15%

Asset Management for Solar (and Storage) based on Digital Twins

You need a platform to monitor your fast-growing portfolio in 1-Place with 1-Source of Truth. Why not the platform which will improve it by 2-4% at the same time?

We first build a detailed, personalized, digital replica of your plant. This bottom-up addition of yield expectations for each and every instrumented device, gives you the most accurate estimate of generation capacity.

Next our **Data Based Performance Digital Twins** for identifying and quan-tifying shading, soiling, insulation, long term degra-dation, due diligence help us get you there. We do this by moving from reactive to proactive management. Alongside outages and alerts, our AI sees early warnings and signals, automatically issuing revenue-prioritized tickets. Adding those to O&M moves you from rote Preventative Maintenance to Proactive Maintenance which will improve your plants while monitoring.

〜 Digital Twin based CMMS

RealTime Monitoring for alerts & outages? Yes.
Reporting and Visualization across portfolio? Yes!
1-Source of Truth with Centralized Cloud Data Platform?
Of course!
Built with Digital Twin AI at its core, insight from Built-In Predic-tive Analytics is our Added Value.

Along with alerts you get:
Revenue Quantified, Predictive, Automatic tickets for detailed insight, proactively into what will happen, not only, what just what happened. As you continuously maintain based on what will impact your bottom line most, your asset's quality will continue to improve. Your performance management teams can go as deep as they want, into analysis, but they don't have to, as our system does that...automatically. This is what Action-able Intelligence built into a Monitoring platform looks like.
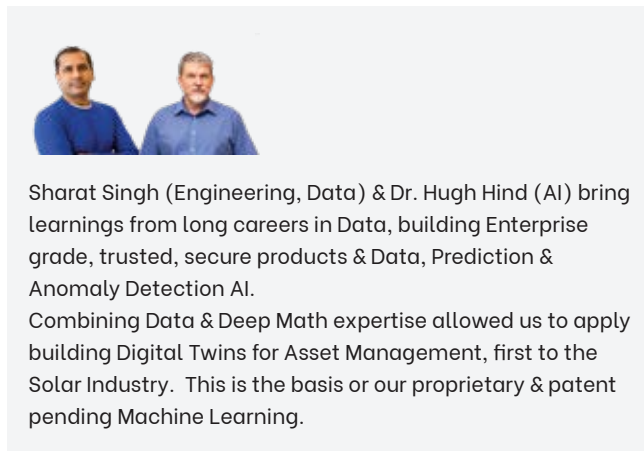
⌁ Snap-On Advanced Analytics

If your basic CMMS (Monitoring) makes you happy…no problem. Our advanced Actionable Intelligence 'snaps-on' and works alongside.

You still get what we're known for – the ability to deliver real dollar value by driving performance, not only just centralizing your data.

- Actionable Automated Revenue Prioritized Ticketing
- More accurate Needle-in-Haystack findings
- Advanced data analytics

Sharat Singh (Engineering, Data) & Dr. Hugh Hind (AI) bring learnings from long careers in Data, building Enterprise grade, trusted, secure products & Data, Prediction & Anomaly Detection AI.
Combining Data & Deep Math expertise allowed us to apply building Digital Twins for Asset Management, first to the Solar Industry. This is the basis or our proprietary & patent pending Machine Learning.

Onboarding 25 plants in 45 days, impressed with Quadrical's ability to fully own data quality and connectivity. We're already seeing benefits, with insights to identify performance issues and possible breakdowns proactively, with real time monitoring. I am now confident that this platform has potential to transform, the way we do O&M.
Ramesh Kumar Modalavalasa
Business Head – O&M, Vikram Solar

Quadrical Ai's Digital Twin approach was instrumental in setting realistic expectations and then pinpointing areas of under perfor-mance that focused our teams' efforts.
James Abraham
Founder and Director, SolarArise

⚙ Remote Operations (ROC)

 Let us manage your ROC, including Triaging Issues, Coordinating Execution & Post-Fix Follow Up.

⌁ Forecasting

Forecasting Future Generation with >98.4% Accuracy*
Higher accuracy with ensemble of multiple weather sources, optimized with databases for every location

Give us 2 hours of time + 6 months of data
▦ Plant Audit
Actionable Results in 48 hours

Performance check showing historical & current losses with granular loss buckets for DC, Inverter & AC sides.

- Issue Identification & Trend Analysis
- Revenue Prioritized Actionables
- No risk, no disturbance to your current systems

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Deployed on 2600MW Solar + 595MW / 2380 MWh Storage