



PowerTrack™ EMS Solution

Get your assets online faster. Ensure compliance. Maximize revenue.

- Fast deployment - Reduce commissioning time by 32%
- Maximum uptime - 99.99% controller reliability keeps you earning
- Full control – advanced control modes for grid services and revenue optimization
- Future-ready - Add storage to existing solar with minimal to no hardware changes



Complete Control from Site to Cloud

PowerTrack Energy Management System (EMS) connects your on-site equipment with cloud intelligence. Monitor and control your entire portfolio from anywhere, with real-time data and instant command response.

What you get:

- Real-time monitoring and control
- Industry-standard protocols (DNP3, Modbus, OPC-UA, IEC 61850, IEC 60870)
- Transparent software - no vendor lock-in
- Proven hardware including Advantech and SEL

Maximize Your Revenue Throughout the Project Lifecycle

Development



Fast Deployment

Cut commissioning time through automated tuning and remote setup. Get to revenue faster with standardized integration.



Smart Integration

Work with most major battery or PCS supplier. Choose the best equipment without software restrictions.

Operation



Multiple Revenue Streams

Earn from frequency response, voltage support, and energy trading simultaneously. Our advanced controls handle the complexity.



Reliable Performance

99.99% uptime means consistent revenue. Real-time optimization prevents costly outages.

Expansion



Easy Hybridization

Add storage to existing solar sites with minimal to no hardware changes. Maximize your existing investments.



Portfolio Growth

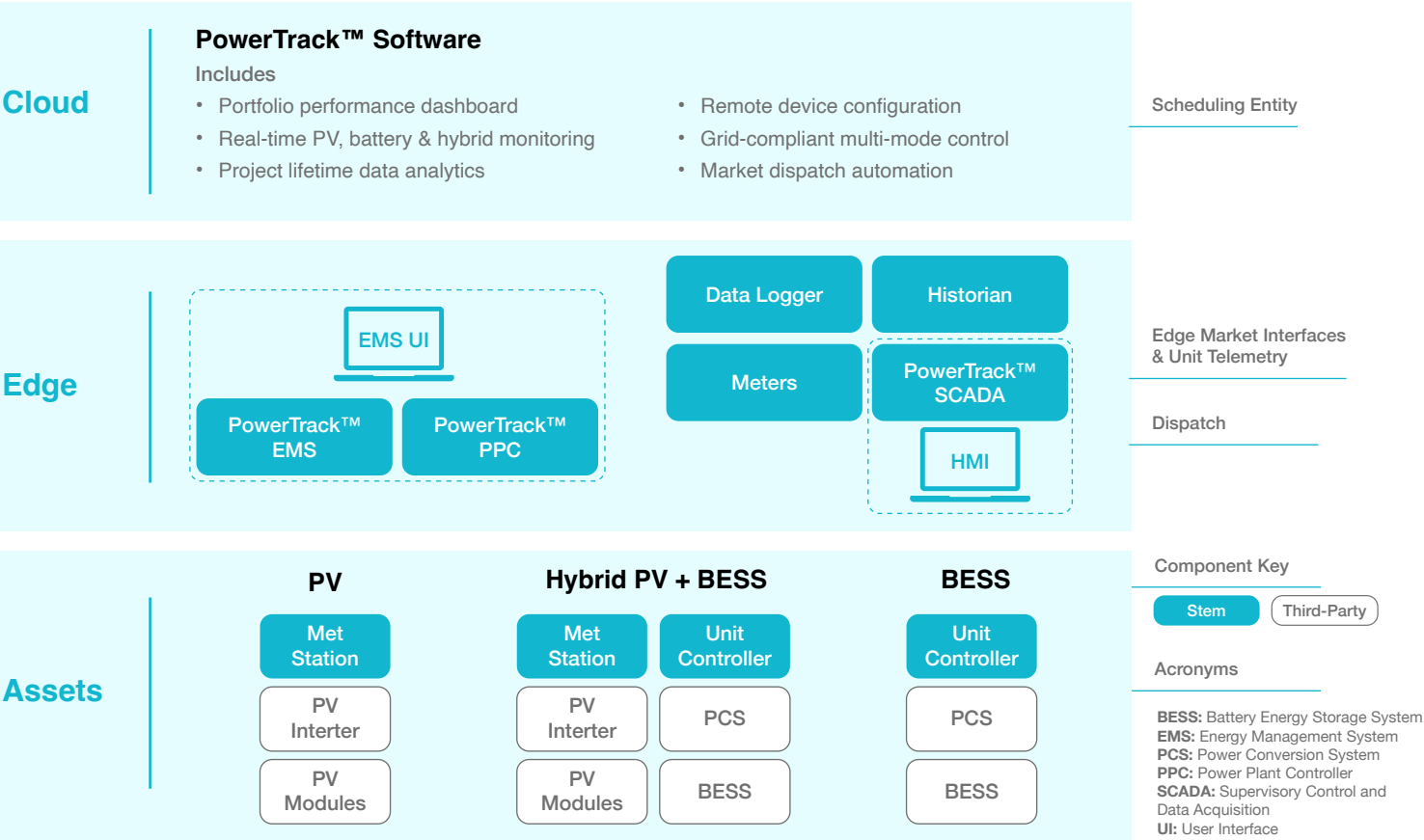
Scale from single sites to entire portfolios with unified management and full visibility.



Technical Architecture

PowerTrack EMS delivers complete asset control by combining proven on-site hardware with intelligent cloud software. The system starts with our unified computing platform that integrates PowerTrack EMS and PPC functionality, along with data logging and communication interfaces for comprehensive monitoring.

This foundation connects to our cloud platform, where PowerTrack Software enables portfolio management, real-time analytics, and remote configuration across your entire fleet. Built on industry-standard protocols and designed to work with any major equipment supplier, the architecture scales seamlessly from individual assets to enterprise portfolios while maintaining built-in redundancy for maximum reliability.



Hybrid Projects Made Simple

PowerTrack EMS makes hybridization easy:



Future Hybrid Capability

Install solar with EMS that enables seamless transition to hybrid operations when storage is added



Solar-to-Hybrid Transformation

Convert existing solar installations to integrated hybrid systems leveraging current infrastructure and Stem's EMS solution



Complete Hybrid Control

Deploy new hybrid sites with unified controls, delivering maximum performance from day one

Why Stem

Stem remains the leader in the management of solar, hybrid, and storage assets and portfolios. Together with our customers, we are leading the clean energy transition towards a more resilient energy future.

Industry Expertise

Managing 30+ GW of solar and nearly 2 GWh of storage assets with deep understanding of complex hybrid energy systems across diverse markets.

Innovative Technology

State-of-the-art control systems and analytics providing real-time visibility and command precision with industry-leading uptime.

Dedicated Support

Expert team delivering specialized assistance in utility-scale operations, grid integration, and regulatory compliance.



About Stem, Inc.

Stem (NYSE: STEM), is a global leader reimagining technology to support the energy transition. Turning complexity into clarity, and potential into performance.

Helping asset owners, operators and stakeholders benefit from the full value of their energy portfolio by enabling the intelligent development, deployment, and operation of clean energy assets. Stem's integrated software suite, PowerTrack, is the industry-standard and best-in-class for asset monitoring, supported by professional and managed services, under one roof. Meant to tackle challenges as seamlessly as possible, Stem shows you the information you need clearly and accurately and help you harness raw data to inform actionable insight. With global projects managed in over 55 countries, 16,000 customers have relied on Stem for nearly 20 years to maximize the value of their clean energy projects.

Driven by human intelligence, business intelligence, and artificial intelligence – Stem is unlocking energy intelligence. Learn more at stem.com.

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