

PVH USA Calls for a New Standard in Solar: Designing Infrastructure for Decades, Not Just Deployment

With utility-scale projects expected to operate 30+ years, company's solutions improve reliability, reduce maintenance and protect long-term production

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-- The U.S. solar industry has made significant advances in technology, efficiency and cost, enabling utility-

scale projects to produce more energy at increasingly competitive prices. As that evolution continues, long-term reliability is becoming an even more important factor in ensuring those projects deliver the performance, energy production and financial returns expected over their

30-plus-year operating lives, according to PV Hardware USA ([PVH USA](#)), [a global provider of solar tracking and foundation solutions](#).

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*Rodolfo Bitar, vice president
of business development for
PVH USA*

For developers and asset owners, the equation extends well beyond bringing a project online. As the levelized cost of energy (LCOE) continues to decline and projects become increasingly optimized, maximizing energy production and system availability over the full operating life becomes essential to protecting project economics. Equipment that performs reliably year after year can help reduce downtime, limit maintenance costs and preserve energy yield – factors that directly influence the lifetime value of a

solar asset.

“Reliability has always been fundamental to solar, but its importance continues to grow as the industry advances,” said Rodolfo Bitar, vice president of business development for PVH USA.

“When energy costs are coming down and projects are being designed to operate for 30 years or more, there is less room for avoidable performance losses. Owners need confidence that their

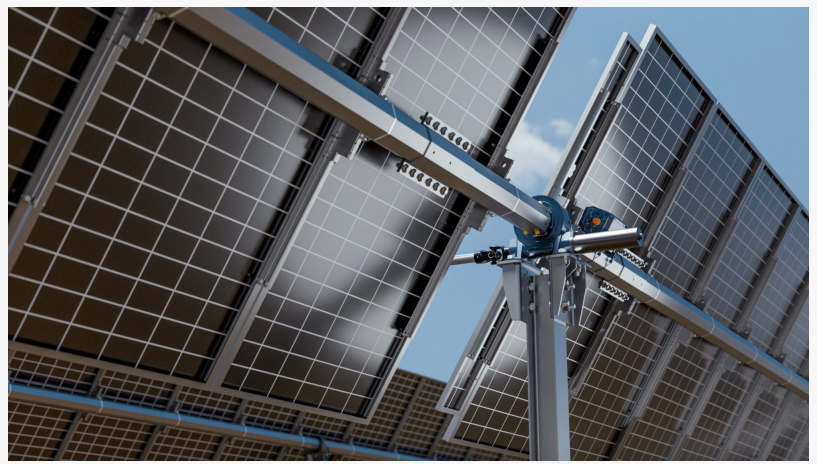


infrastructure will continue delivering the expected energy production throughout the life of the asset.”

A utility-scale solar project is a long-term investment, and its infrastructure must perform accordingly. Trackers, for example, are mission-critical mechanical systems that operate continuously throughout the life of a project, completing millions of movement cycles while exposed to wind, heat, cold, moisture, dust and other environmental stresses. The performance of a tracker therefore cannot be measured solely at commissioning. Long-term reliability must also be considered.

PVH USA designs its trackers and structural systems with this lifecycle perspective in mind. Structures, drive systems, bearings and controls are engineered for continuous operation and exposure to demanding environmental conditions. Before deployment, components undergo accelerated cycling and environmental testing designed to validate performance under demanding operating conditions. Once installed, real-time monitoring can help identify anomalies early, supporting predictive maintenance strategies that reduce the potential for unexpected downtime and help maintain system availability.

This focus on lifecycle performance is particularly important as the economics of solar continue to evolve. Improvements in module efficiency, tracker technology, project design and manufacturing have contributed to lower LCOE and increasingly competitive solar energy. At the same time, those advances raise the importance of ensuring that gains in efficiency are not undermined by equipment failures, reduced availability or unnecessary maintenance. Several factors are reinforcing the industry's



PV Hardware manufactures innovative solar tracking solutions for the US solar energy market.



focus on long-term performance:

- Lower energy costs: As LCOE continues to decline, maximizing every opportunity for energy production and minimizing avoidable losses becomes increasingly important to project economics.

- Mission-critical tracking infrastructure: Trackers must operate reliably through millions of cycles while maintaining the positioning accuracy necessary to optimize energy production.



- Increasing environmental demands: Extreme weather and challenging site conditions require equipment capable of performing reliably through wind, hail, snow, flooding, temperature extremes and other stresses.

- Lifecycle operating costs: With operations and maintenance representing a significant component of lifetime project costs, reliable equipment can help reduce maintenance requirements and unplanned downtime.

- Greater visibility into performance: Advanced monitoring and controls give owners more insight into asset health, enabling earlier identification of potential issues and more proactive maintenance.

“Solar is becoming a more sophisticated and mature industry, and technology continues to advance across every part of the value chain,” Bitar said. “The objective is not simply to make equipment more advanced. It is to ensure those advances translate into dependable performance in the field, year after year. The value of a solar asset ultimately depends on how well it performs across its entire operating life.”

PVH incorporates this long-term approach throughout its engineering and manufacturing processes. The company’s trackers and structures feature technologies designed for extended operation, while sensitive system components are pre-assembled within controlled manufacturing environments to support consistency and quality. PVH also engineers select designs and products with a design life of up to 40 years, reflecting the company’s focus on long-term asset performance.

For more information or to schedule an interview, please contact Heidi Bethel at 775-338-8420 or heidi@themaverickpr.com.

About PV Hardware

At PV Hardware (PVH), we provide cutting-edge solar tracking solutions designed to maximize performance and adaptability. Our portfolio includes single-axis trackers in single-row and dual-row configurations, seamlessly integrated with advanced control systems to optimize efficiency and minimize energy loss across a wide range of solar projects.

As a fully integrated manufacturer, we design, produce, and supply our own trackers, ensuring complete control over the value chain. This allows us to tailor solutions to the specific needs of any project, adapting to diverse terrains, soil conditions, and climates while providing fast, reliable service without third-party dependencies.

With over 50 GW of solar trackers supplied worldwide, PVH operates from advanced manufacturing facilities in Spain, Saudi Arabia, and the USA. Our new manufacturing headquarters in the USA further strengthens our ability to meet the growing demand for locally sourced solutions with unmatched efficiency. Committed to innovation, quality, and sustainability, PVH continues to drive the global transition to renewable energy.

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