

PVH USA Case Study Confirms Industry-Leading Tracker Resilience in U.S. Hurricane and Snow Belt Regions

Wind-tunnel-tested design, less than 2-minute storm-stow and AI-driven SCADA combine to protect solar assets in Florida and the Midwest

HOUSTON, TX, UNITED STATES, June 19, 2025 /EINPresswire.com/ -- PV Hardware USA (PVH USA), [a global provider of solar tracking and foundation solutions](#), today released a

new case study demonstrating how its single-axis trackers consistently withstand the nation's toughest weather – from Category 4 hurricane winds in Florida to blizzards, hailstorms and severe storms across the Midwest.



Our latest case study proves that PVH USA trackers deliver unmatched protection keeping plants online and safeguarding project economics even when hurricanes or blizzards strike.”

Rodolfo Bitar, VP of Business Development for PVH USA

Key findings show that PVH USA installations:

Survive wind loads up to 150 mph when stowed, thanks to reinforced steel structures and rapid (less than 2 minutes) wind-stow capability.

Shed heavy snow quickly and reduce hail impact with automated “snow” and “hail” stow modes.

Anticipate severe weather and pre-emptively stow rows, minimizing downtime using AI-powered DeepTrack™ SCADA and a site-wide sensor network.

Maintain long-term durability with advanced anti-corrosion coatings and U.S.-made components assembled at PVH USA's Houston manufacturing hub.

“Extreme weather is the new normal, and solar assets must be ready,” said Rodolfo Bitar, VP of Business Development for PVH USA. “Our latest case study proves that PVH USA trackers deliver

unmatched protection keeping plants online and safeguarding project economics even when hurricanes or blizzards strike.”

Standards-driven engineering

PVH USA trackers are wind-tunnel-tested to exceed ASCE 7-16 coastal wind-load requirements, certified to IEC 62817 and UL 3703/2703, and manufactured under rigorous U.S. quality controls. Optional snow sensors, flood detectors and LiDAR wind forecasting further boost site resilience.

Real-world results

The full report, “Resilience of PVH Solar Trackers in Extreme Weather: A U.S. Case Study,” is available for download [at this link](#). It demonstrates how PVH USA technology performed under extreme weather conditions, including:

Florida: PVH USA sites pre-stowed hours before recent hurricanes, emerging with only minor panel damage while neighboring fixed-tilt systems sustained structural failures.

Midwest: During 2024 winter storms and spring hail events, PVH USA rows shed snow in minutes, and hail-stow mode protected modules from golf-ball-size impacts, resulting in faster return to full generation and lower O&M costs.

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

About PV Hardware (PVH)

At PV Hardware (PVH), we provide cutting-edge solar tracking solutions designed to maximize



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



PVH USA engineers work hand-in-hand with manufacturing to highly optimize our production and create exact configurations, opening the way for a whole higher level of innovation.

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 32 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.

[PVHardware.com](https://www.pvhhardware.com).

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