



Extreme Weather Resilience

Engineering for real-world solutions based on the ground truth

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About Nextpower

- Leading solar technology platform for utility-scale power plants
- #1 Global market share; #1 U.S.¹
- \$3.6 Billion revenue in FY26
- 160+ GW shipped since 2013 founding²
- 2000+ employees, nine global offices, HQ Silicon Valley
- 100+ manufacturing facilities
- 45+ countries served
- 1600+ patents issued and pending³
- Public company NASDAQ: NXT
- Investment-grade credit rating from Fitch

¹ Through 2025 based on GW trackers shipped – Wood Mackenzie Ltd., Global Solar PV Tracker Market Share 2026 and Wood Mackenzie Ltd.

² 160+ GW shipped as of FY26 year end

³ 1600+ issued patents (U.S. and international) as of January 2026

Nextpower Technology Platform

Structures

Trackers and Fixed-Tilt

- NX Horizon®
- NX Horizon-XTR™
- NX Horizon® Hail Pro™
- NX Horizon® Low Carbon
- AgriPV systems
- Gemini 2P tracker (Q4 '26)
- Fixed-tilt (Q4 '26)

Foundations

- NX Anchor™
- NX Earth Truss™
- Traditional Piles

eBOS

- Trunk bus full solutions with NX PowerMerge™
- Combiner box full solutions
- Full-scope wire harnesses, LBDs, kitting

Power Conversion

- Solar only inverters
- Hybrid solar and storage
- Storage only PCS

Energy Storage

- HD5™ AC
- HD5™ DC
- Hybrid Power Stabilizer (HPS)
- InsightOS™

Module Frames

- NX CoreFrame™ advanced steel frames

Controls

- TrueCapture®
- Tracker Controllers
- Network Controllers

Robotics and AI Services

- NX Vantage™ smoke and fire detection
- NX Ranger™ inspection
- NX Clario™ soiling monitoring
- Robotic panel cleaning

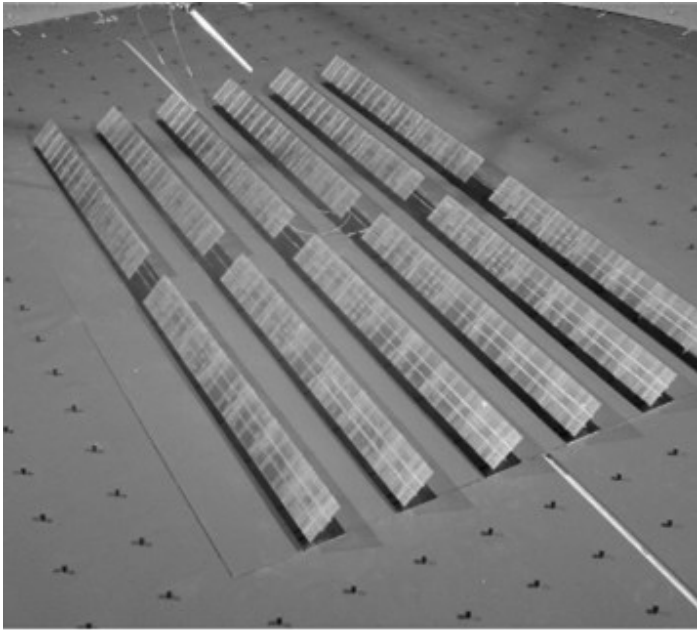
Software

- NX One™
- NX One Portal
- NX Navigator®
- NX Pulse™

Wind Test Comparisons

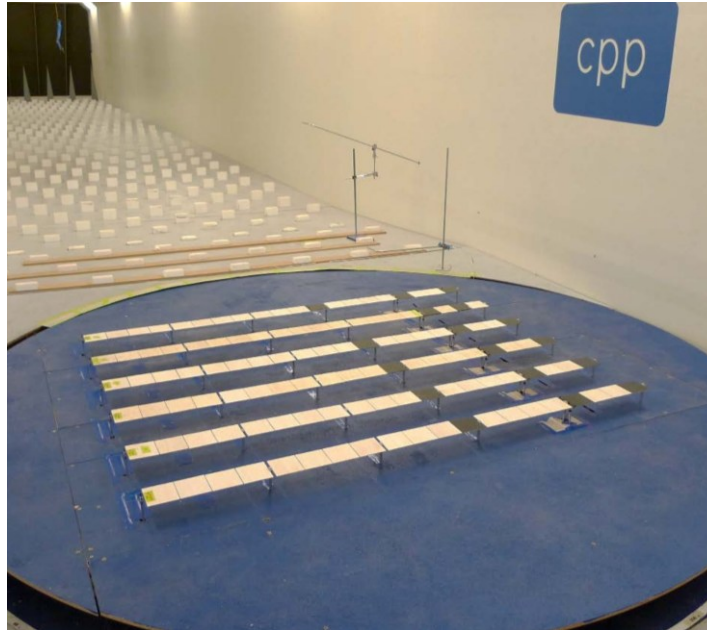
Not all wind tests are created equal. Complete Engineering includes multi-row full scale wind testing.

Static Tunnel Testing



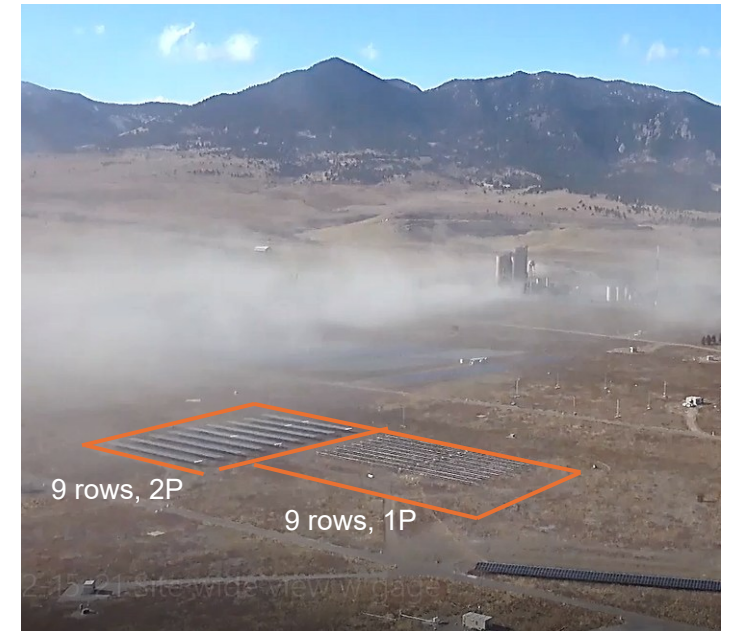
- ✓ Inexpensive
- ✓ Good for pressures
- ❑ Bad for flexible structures

Aeroelastic Tunnel Testing



- ✓ Moderately Expensive
- ✓ Good for dynamics
- ❑ Bad for pressures

Full Scale Testing



- ✓ Very Expensive
- ✓ Captures pressures and dynamics
- ✓ Can test entire system
- ✓ **The ground truth**

Full Scale Field Tests

NREL/NLR Flat Irons Campus for real world ground truth measurements



Wind Stow Strategy Comparison

WIND STOW / TWO TRACKER STRATEGIES

Starting position: +25° on both trackers • Facing west

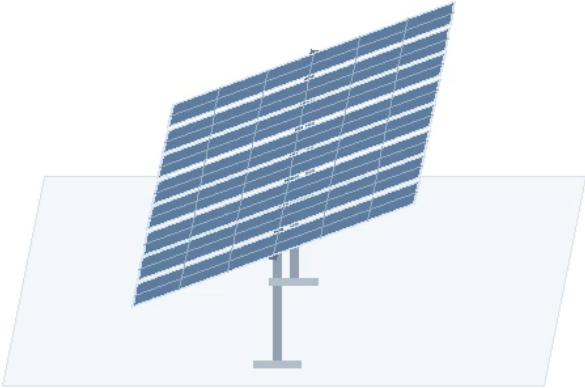
01 NORMAL TRACKING

WIND: WEST ← EAST

Tracker A

FRONT-WIND STOW

+25°



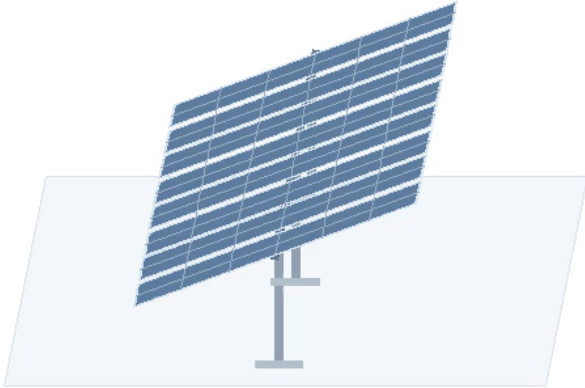
Facing west

Starting position: +25°

Tracker B

NEAREST STOW

+25°



Facing west

Starting position: +25°

Both trackers start at +25°, facing west.

Illustrative angles • East = negative • West = positive

01 / 05

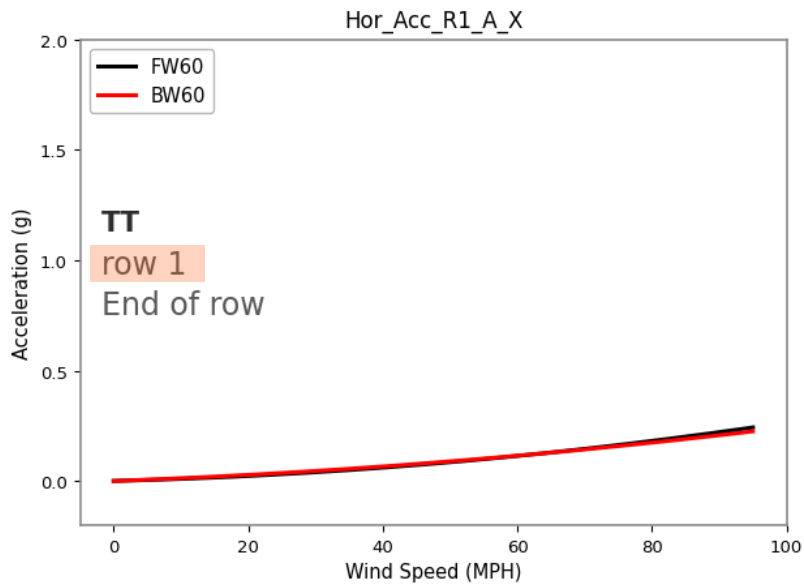
Full Scale Field Test Demo



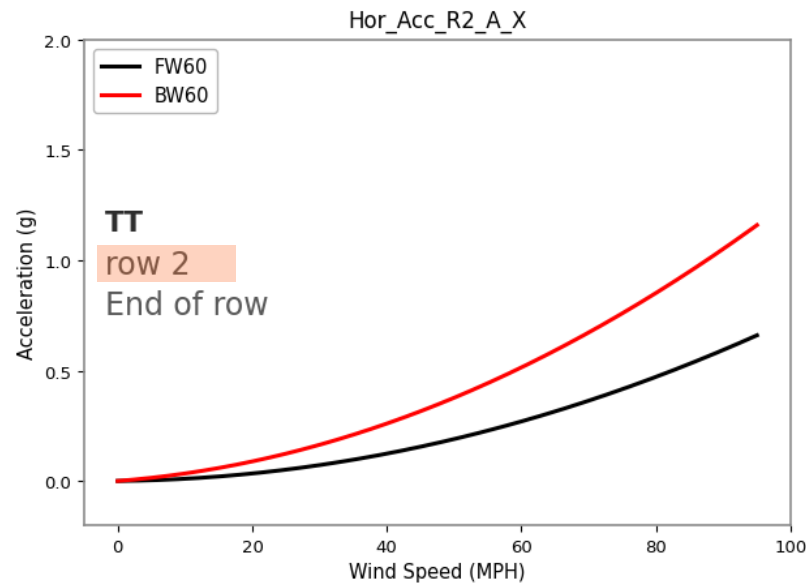
Trackers have energy

Acceleration on torque tubes due to dynamic heaving effects

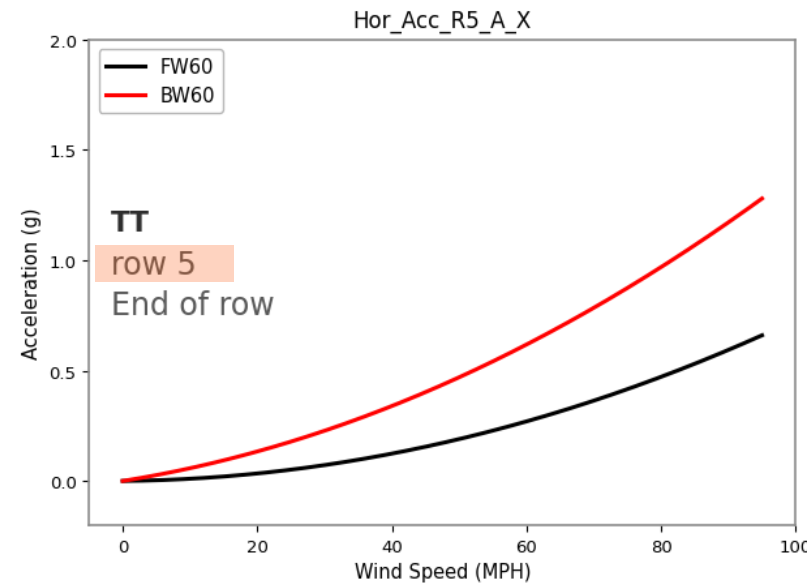
~2x acceleration in
backwind scenarios



Exterior Tracker



Exterior Tracker



Interior Tracker

Front Wind stow reduces accelerations and improves stability!

Module Lab Testing for Real World Loads

Engineering for more than the trackers, designing for full system stability



Panel Vibration



Frame Fatigue Failure

Fatigue Cracking in PV Modules

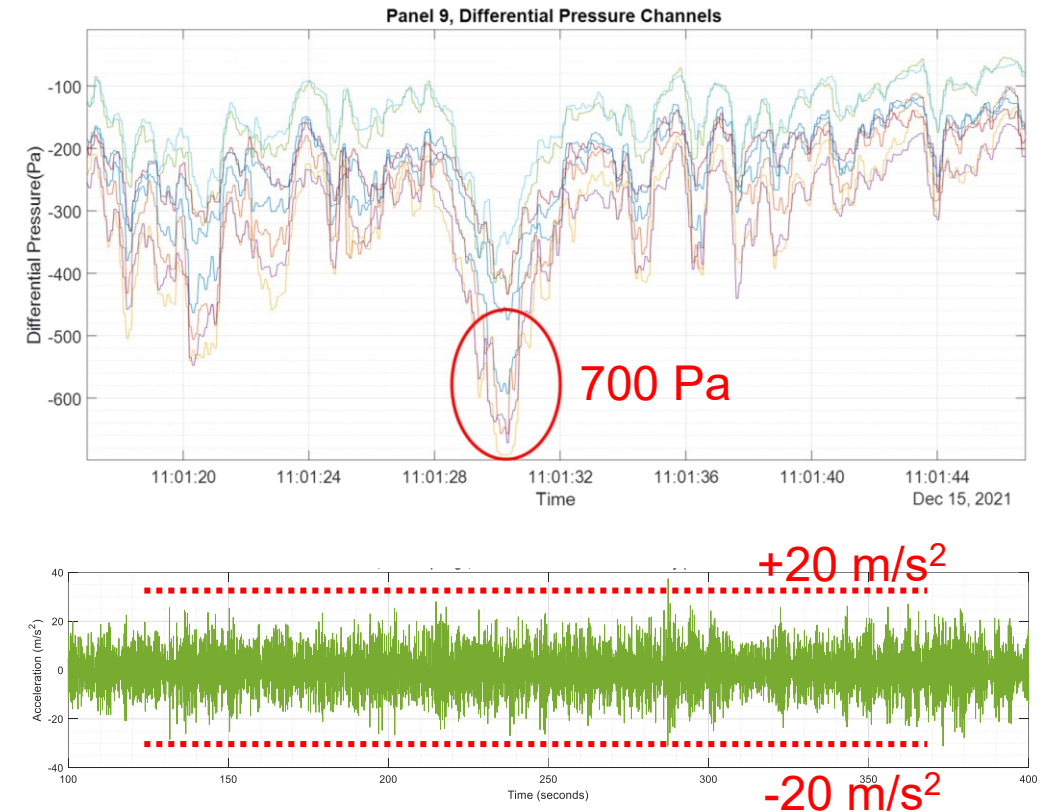
Its only called spontaneous when the data is missing. Static testing alone misses failure modes.

Static Load



PV Module "Capacity" $\approx$ **2400 Pa**

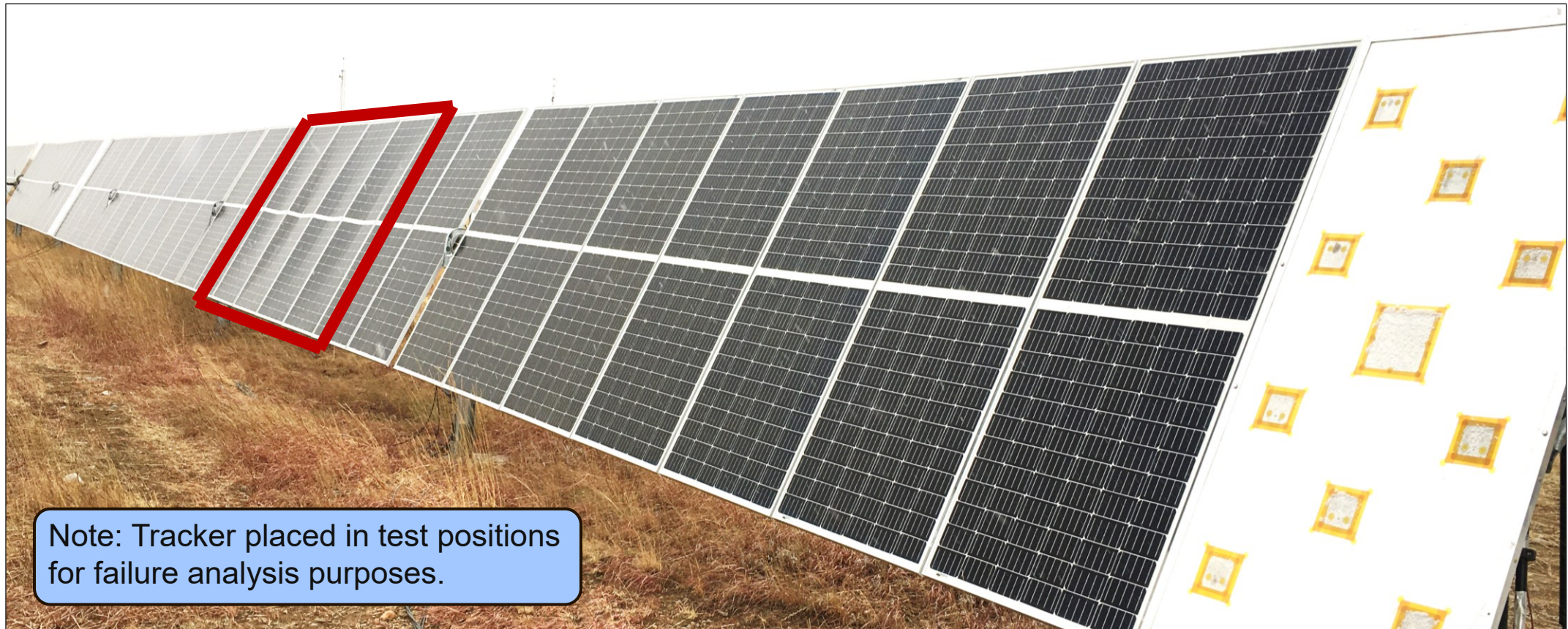
Dynamic Load



Acceleration of panels is **double** that of the tube

Field Test Observations

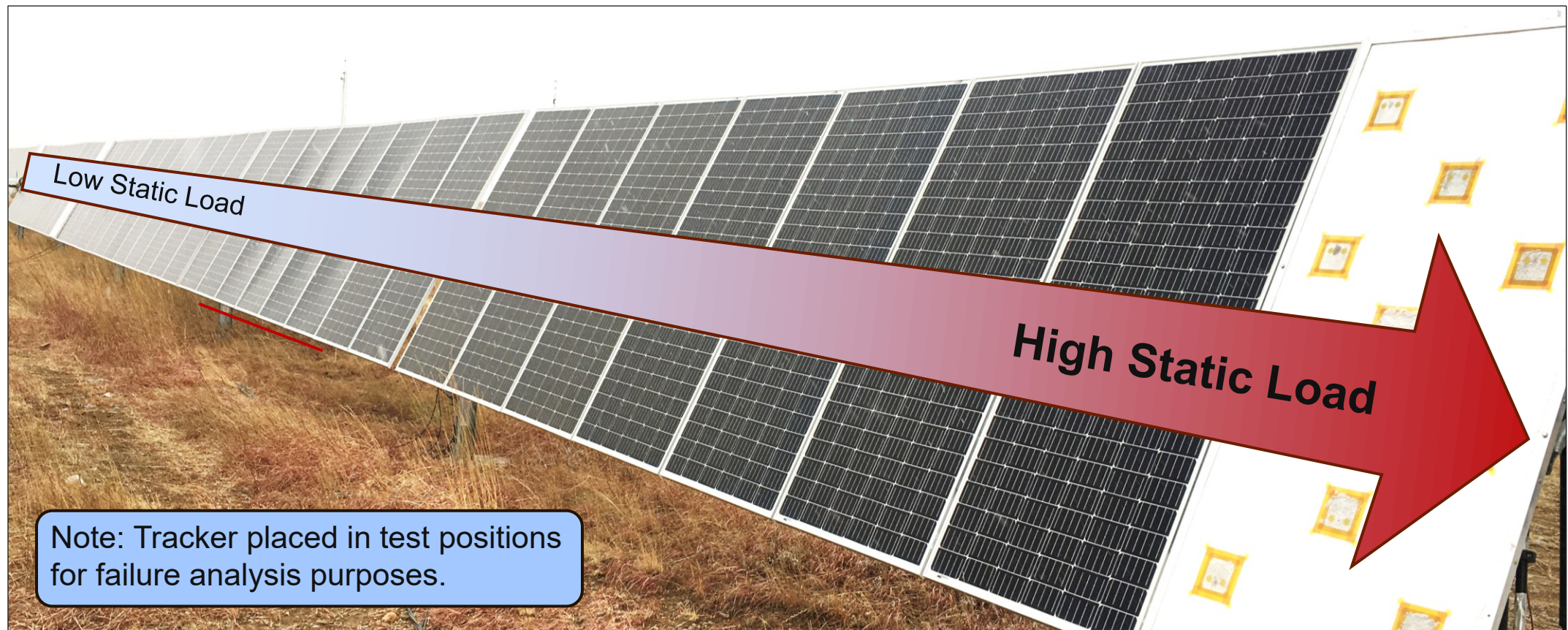
Why Static models fall short in a Dynamic world



Note: Tracker placed in test positions for failure analysis purposes.

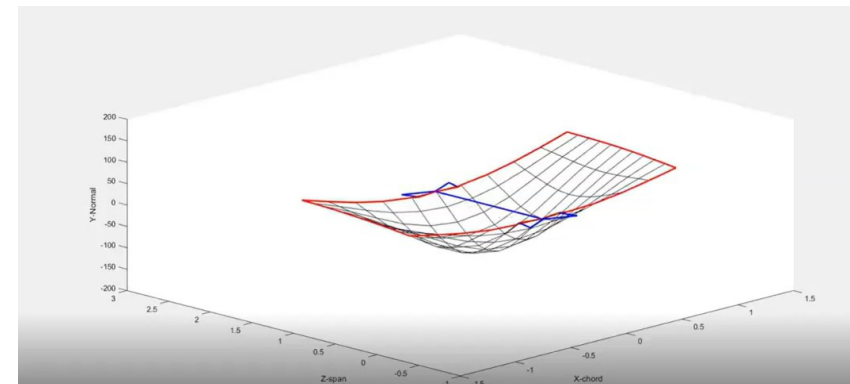
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Field Test Observations

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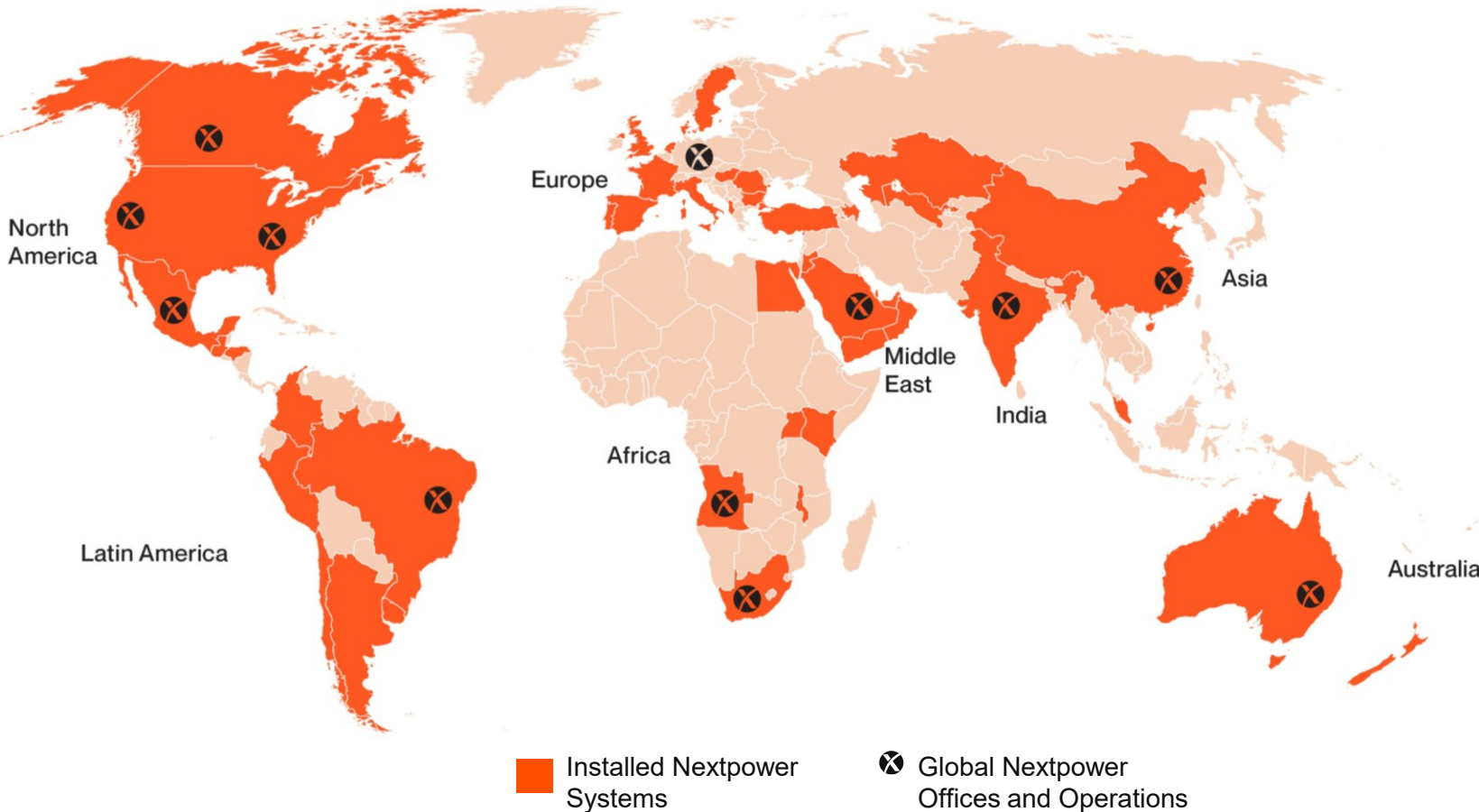
Wind Stow Strategy Matters

Data drives design, design drives resilience. Front Wind Stow leads to better long-term performance.



Global Resilience

Best in class performance at the largest scale in the solar industry





160GWs+ Global Fleet



<.01% Wind-related Failures



Best in Class Performance

