



ALL TERRAIN TRACKER

BECAUSE THE WORLD IS NOT FLAT

Nevados is the premier solar tracker company for PV power plants built on sloped and rolling terrain. We offer innovative all-terrain trackers paired with a comprehensive software suite in an integrated technology platform that optimizes solar performance, improves plant reliability and respects the natural landscape.

SLOPE CHANGE AT EVERY PILE

BEARING TYPE	SLOPE CHANGE (%)
Straight-Through	± 4.4
Articulating	± 26

1 FOLLOW THE LAND

- Industry's first and most capable terrain following tracker
- Eliminates civil grading & eases permitting
- Reduced pile length saves steel

3 MANAGE EXTREME WEATHER RISK

- Extensive wind tunnel studies on variable terrain
- 75° hail stow
- Integrated friction dampers for unparallelled wind performance

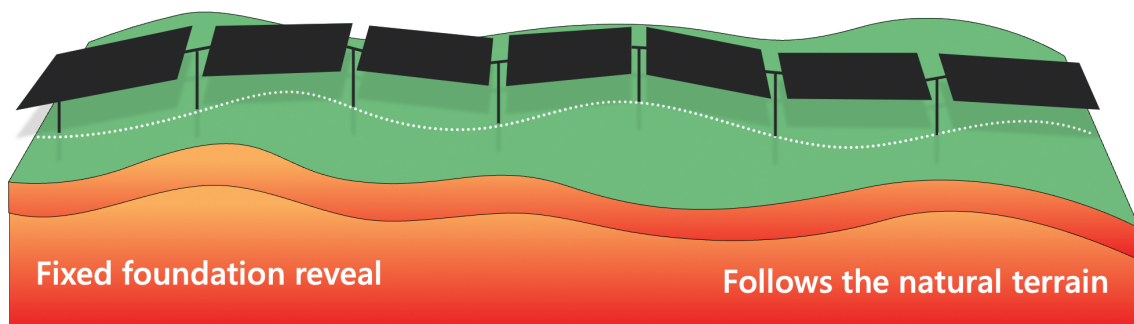
2 INCREASE SITE OPTIONS

- Convert sites from fixed tilt to tracker
- Revisit sites previously disqualified due to grading
- Build on sites with differential settlement risk
- Fastest installation, zero custom tools or jigs

4 OPTIMIZE SITE DESIGN AND PERFORMANCE

- Proprietary TRACE Terrain-Aware Backtracking schedules for zero shading & increased energy yield
- Unique software for site design optimization
- Off-azimuth, variable GCR, variable tilt schedules

Nevados All Terrain Tracker (ATT)



ROW CONFIGURATION	<ul style="list-style-type: none"> • Up to 96 modules per row • 5 to 8 modules per bay
TRACKING ANGLE CAPABILITIES	<ul style="list-style-type: none"> • $\pm 60^\circ$ tracking expandable to $\pm 75^\circ$ tracking • Single row actuation with 24VDC slew drive
TERRAIN FOLLOWING	<ul style="list-style-type: none"> • Straight Through bearing: $\pm 3.5\%$ slope change at each foundation • Articulating bearing: $\pm 26\%$ slope change at each foundation • 37% max N-S and E-W slope
FOUNDATION	<ul style="list-style-type: none"> • I-Beam or ground screw foundations installed at consistent reveal throughout site
GROUND COVERAGE RATIO	<ul style="list-style-type: none"> • Configurable, typically greater than or equal to 28%
DESIGN LOADS	<ul style="list-style-type: none"> • Designed to applicable ASCE • Configurable to any wind speeds • Configurable to 50+ PSF snow load • Loads studied in wind tunnels for variable terrain; no external dampers required for wind dynamics
INCLUDED SERVICES	<ul style="list-style-type: none"> • Preliminary layouts and site design optimization • Structural calculations, IFC package and foundation design • TRACE Terrain-Aware Backtracking or True Tracking
OPERATING TEMPERATURE	<ul style="list-style-type: none"> • $-20^\circ\text{C} - 55^\circ\text{C}$
MODULE CONNECTION/GROUNDING:	<ul style="list-style-type: none"> • Self-grounding module brackets • UL2703 and UL3703
TOLERANCES	<ul style="list-style-type: none"> • Reveal height: +4" / -0", N-S: $\pm 1.5"$ (expandable), 2° vertical plumb, 9° twist • Flat-land: $\pm 12"$ vertical & E-W at each pile, may change based on neighboring foundations
CONTROLS	<ul style="list-style-type: none"> • Web-based dashboard for monitoring & operation with row-level control • SCADA integration via Modbus TCP/IP for monitoring & operation with row-level control • Wireless, self-powered row controllers and weather stations • AC-powered Zone Controllers
WARRANTY	<ul style="list-style-type: none"> • 10-year structural, 5-year drive & controls warranty

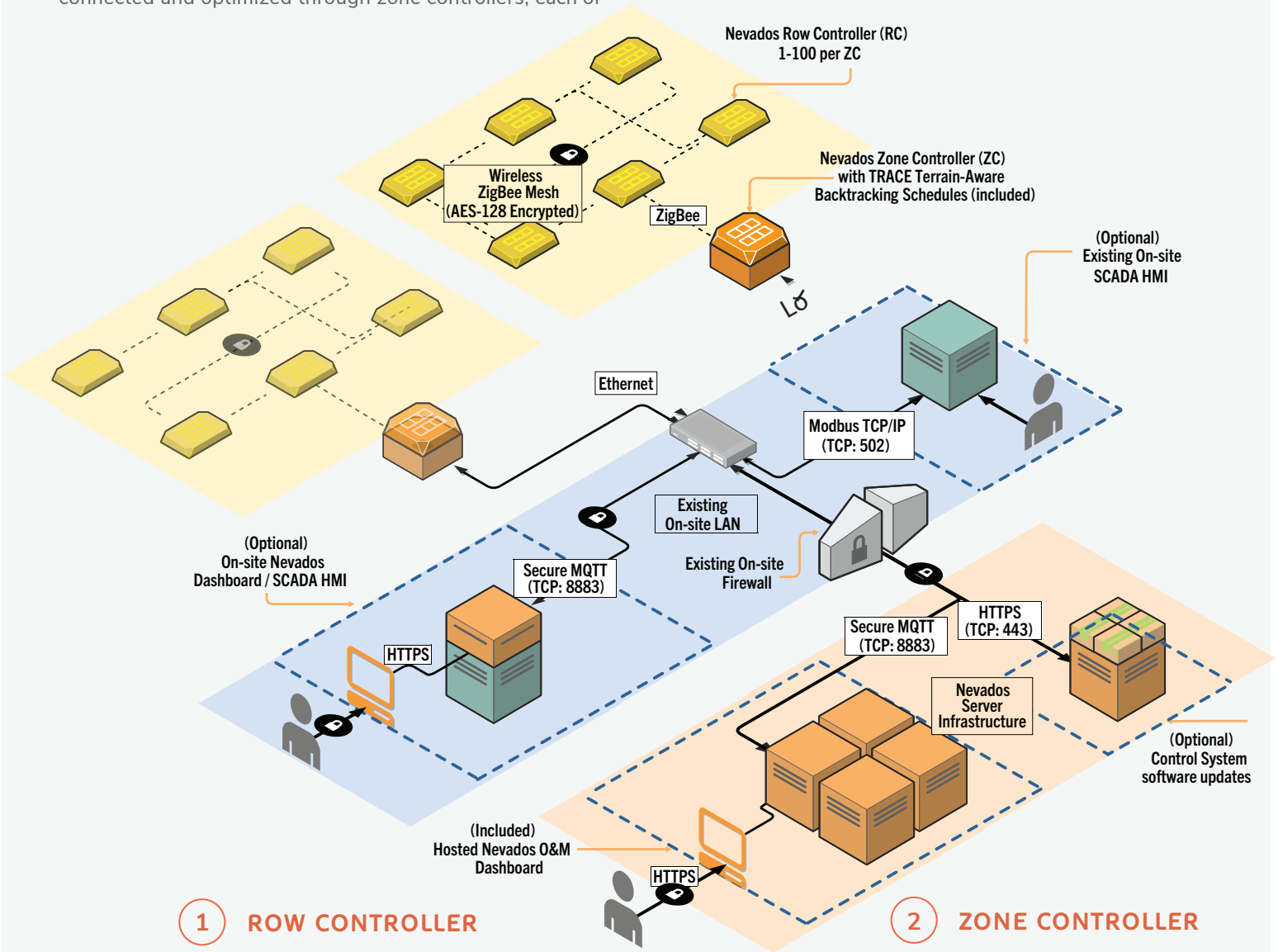


SOLAR TRACKER CONTROLS

FOR ALL TERRAIN ENVIRONMENTS

The Nevados control system is designed to optimize power generation from your project site and account for variable shadow fall on flat, sloped, and rolling terrain. Each row is monitored by a single row controller. Row controllers are connected and optimized through zone controllers, each of

which can manage up to 100 row controllers. The system provides detailed operational information from each row, which can be utilized to increase row-to-row efficiency and maximize output.



- 1 ROW CONTROLLER**
- Configurable for most environments
 - IP65

- 2 ZONE CONTROLLER**
- O&M reporting
 - IP65

COMMUNICATIONS	ROW CONTROLLER	ZONE CONTROLLER
WIRELESS	<ul style="list-style-type: none"> Zigbee 	<ul style="list-style-type: none"> Zigbee communication to RC
WIRED	<ul style="list-style-type: none"> 8P8C or SFP between ZC and site network Optional RS 485 communication link 	<ul style="list-style-type: none"> Manage with SCADA over Modbus Reporting to cloud-hosted monitoring & control dashboard Cat5/6 between ZC and SCADA
ENCLOSURE		
SIZE (LxWxD)	<ul style="list-style-type: none"> 10" x 12" x 3.5" – max external dimension of enclosure (not including mounting tabs) 	<ul style="list-style-type: none"> 12" x 10" x 6"
DESIGN	<ul style="list-style-type: none"> IP65, Plastic (injection molded), Membrane vent 	<ul style="list-style-type: none"> IP65, Polycarbonate
SERVICE/ACCESS	<ul style="list-style-type: none"> Access battery field serviceable 	<ul style="list-style-type: none"> Access for configuration
MOUNTING	<ul style="list-style-type: none"> Direct mount RC to torque tube 	<ul style="list-style-type: none"> Mounted near or on inverter skid, or other ethernet and power access point.
POWER	<ul style="list-style-type: none"> Auxiliary solar module, 40+W and 30V, approx 645mm x 345mm x 25mm 	<ul style="list-style-type: none"> 120V, 277V AC wired to enclosure
BATTERY	<ul style="list-style-type: none"> 150+Wh LiFePO4 battery with optional cold weather package 	
INPUTS	<ul style="list-style-type: none"> RS485 port for string current sensor E-Stop Built-in keypad with status LEDs Auxiliary module power cables 	<ul style="list-style-type: none"> 120V, 277V AC Ethernet or fiber (SFP)
OUTPUTS	<ul style="list-style-type: none"> Motor Cable Antenna 	<ul style="list-style-type: none"> Antenna
BOARD COMPONENTS	<ul style="list-style-type: none"> Zigbee radio Motor over-current monitoring and protection Accelerometer Cell-level battery monitoring and charge management 	