

Webinar powered by JinkoSolar

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2 PM – 3 PM | CEST, Berlin
4 PM – 5 PM | GST, Dubai



Mark Hutchins
Editor | pv magazine



Tiling ribbon technology and the system implications of 500 W+ modules



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Nextracker-Jinko Bifacial Module Compatibility

Tracker + PV Technology Partners for Lower LCOE and Higher Energy Performance

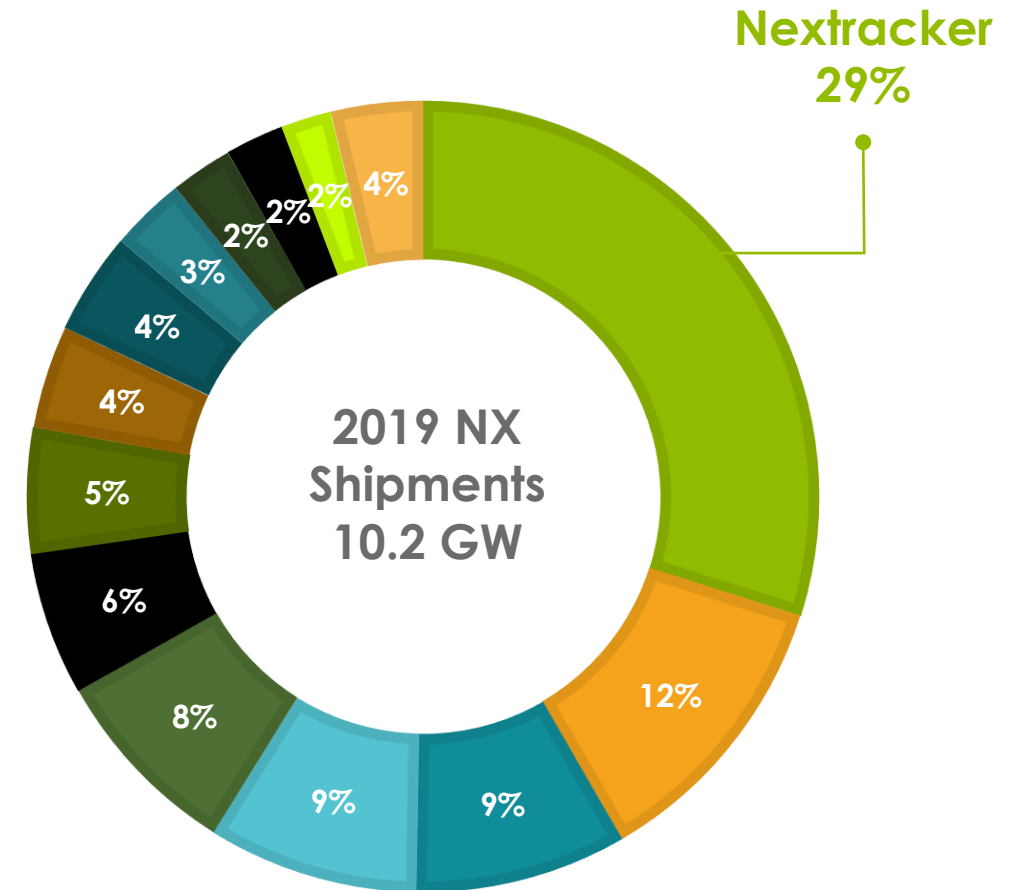
Hemanshu Sugandhi

Director Business Development,
Emerging Market

Company Background

#1 Global Market Leader in Solar Tracking Five Consecutive Years 2015-19

- 35 GW trackers in operation or under construction, 8.8GW bifacial operational or under construction, >5 GW in MEIAT
- Nextracker's Middle East market share grew YOY, skyrocketing from 10% in 2018 to 30% in 2019.
- Wholly-owned subsidiary of investment-grade company: Flex (NASDAQ "FLEX")
 - \$26Bn annual revenue, \$14Bn balance sheet
- 375 staff worldwide, 8 global offices
- Product lines: solar trackers, software and control monitoring
- Deep bench of PV and solar tracker experience: collective 300 years with utility-scale and distributed generation or C&I application experience



Source: WoodMackenzie Research & IHS Markit, 2020

Leading Developer Customers in the Middle East Indian Africa Turkey (MEIAT)

adani™

ACWA POWER
أكوا باور

ReNew
POWER

STERLING & WILSON

ENGIE

SUZLON
POWERING A GREENER TOMORROW

susten
By Mahindra



Scatec Solar
Improving our future™

edp renewables
powered by nature

Infosys

mustakbal.
clean tech

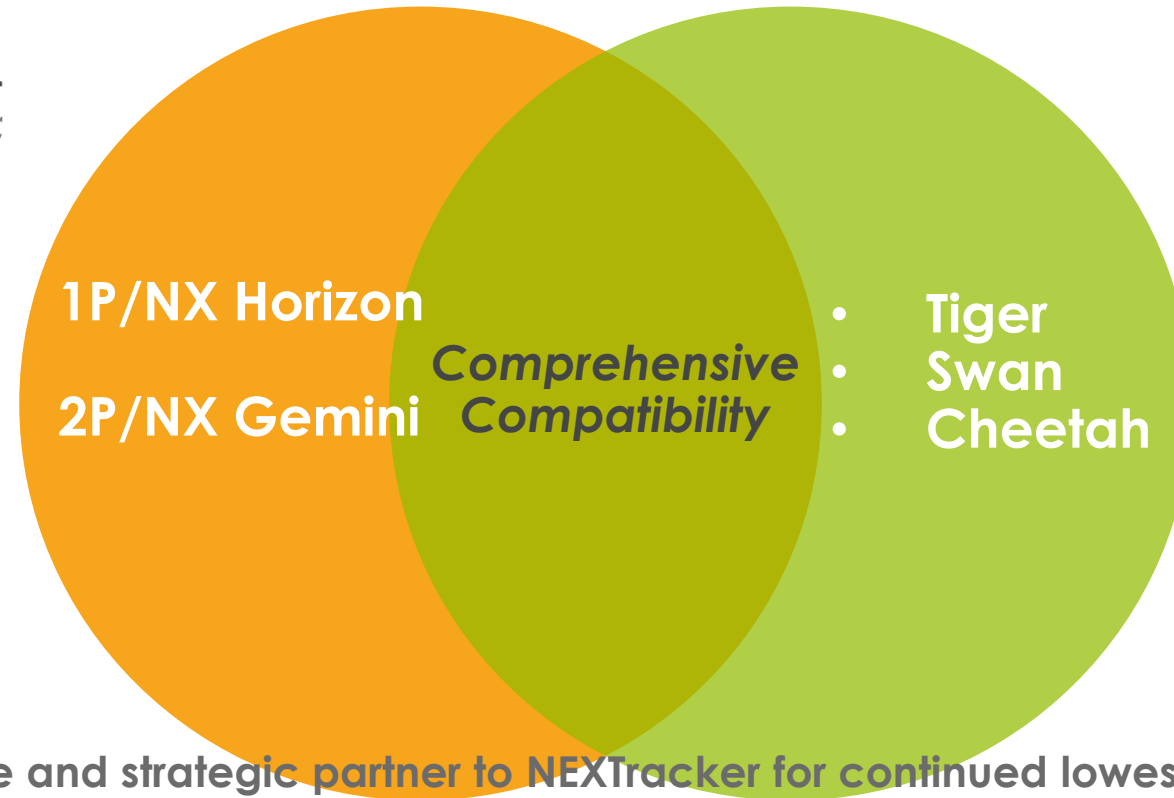
FRV
FOTOWATIO
RENEWABLE
VENTURES

elecnor

Azure Power

Comprehensive Compatibility with Jinko Solar Modules

Proud collaborative partners in research and product development since 2013

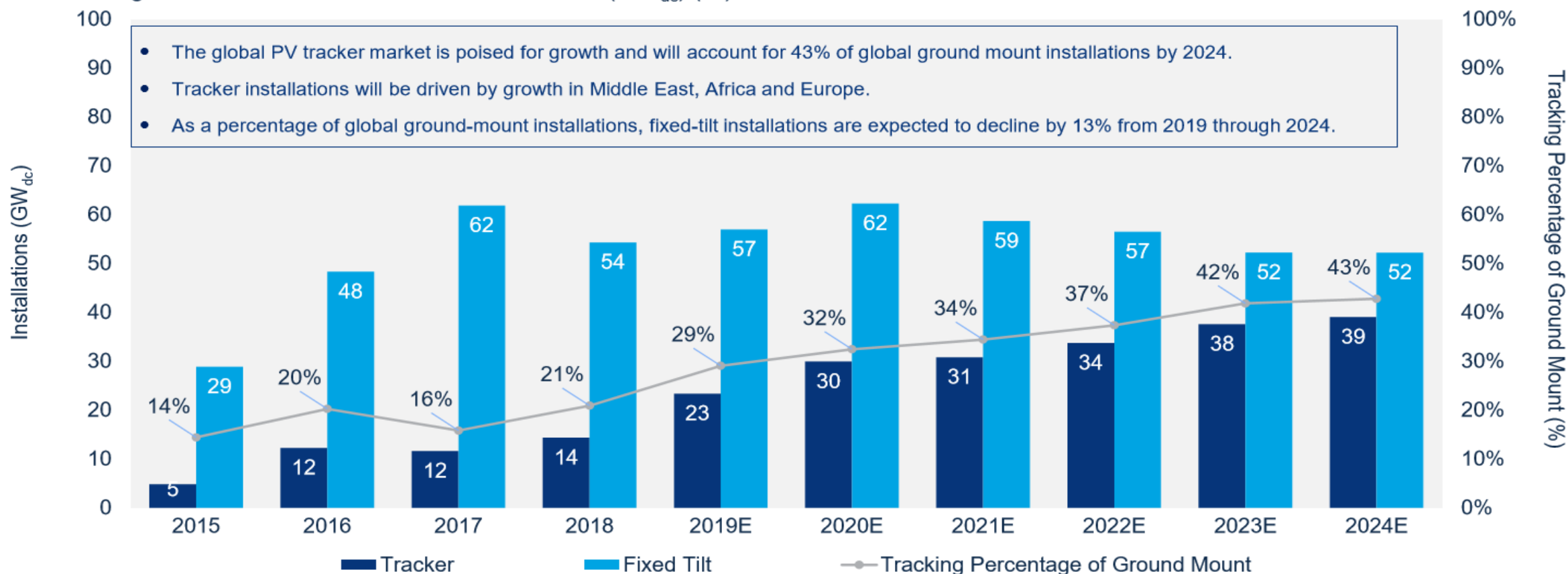


- Jinko Solar is a reliable and strategic partner to NEXTracker for continued lowest LCOE
- Tiger module improves tracker cost efficiency by increasing total watts/tracker, versus M2 wafer modules.

Solar tracker installations will grow on average by 11% annually from 2019-2024

2019 will see the largest uptick in tracker installations as the market experiences 62% YoY Growth

Global PV ground mount installations, 2015 – 2024E (GW_{dc}) (%)



Source: Wood Mackenzie, 2019

Nextracker Product & Services Ecosystem

SOLAR TRACKER PORTFOLIO



NX Horizon™ & NX Gemini™

Industry's Most Advanced Smart Solar Tracker Portfolio, optimized for range of tier one modules including monofacial, bifacial, and FSLR S6

SOFTWARE & CONTROLS



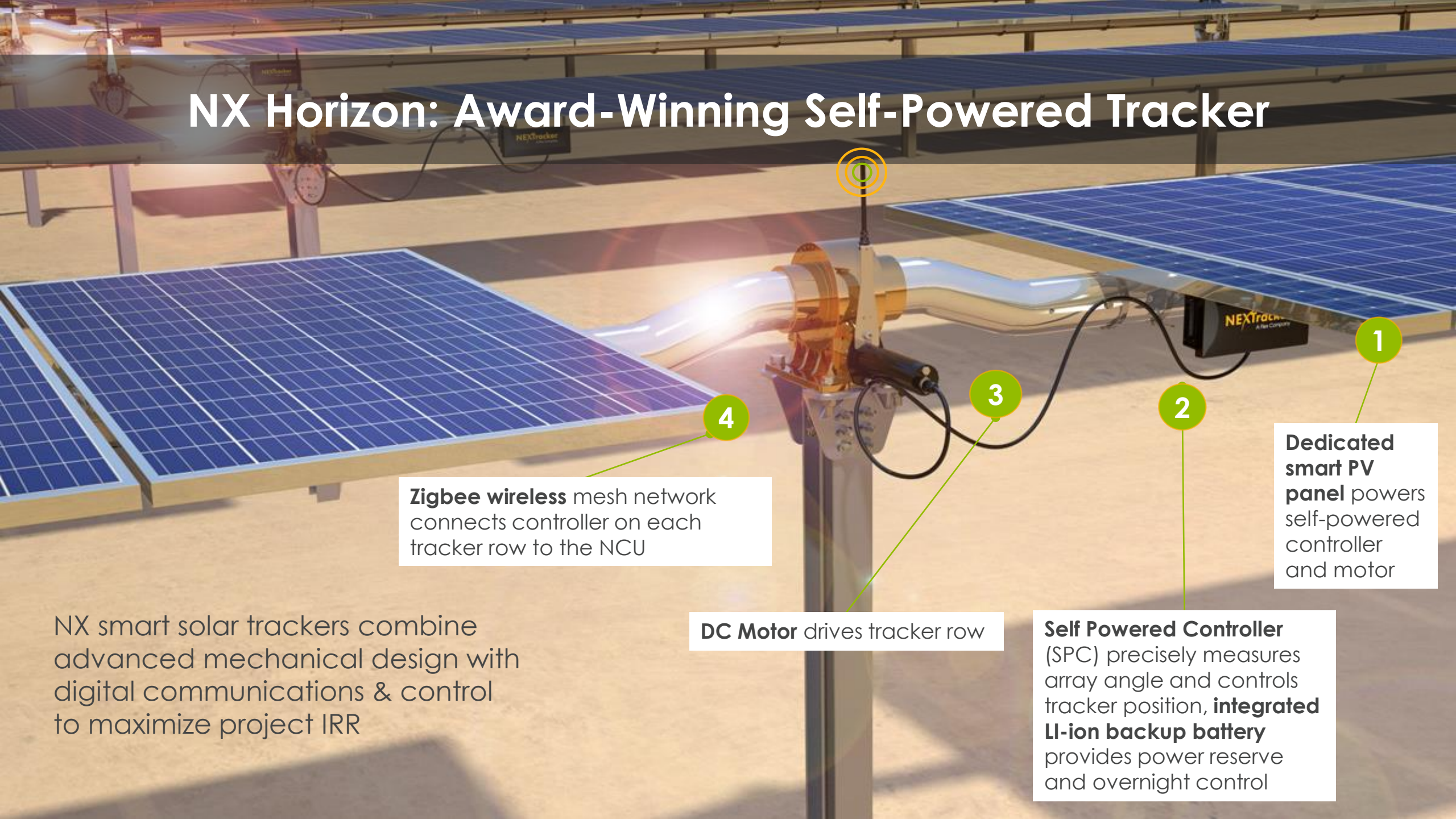
TrueCapture™ & NX Navigator™

Smart software and control platforms that improve monitoring precision and increase energy yield up to 6%

NX Data & Monitoring Control Services

Suite of advanced data and software-driven digital services that dramatically improve asset management efficiency and lower operating costs.

NX Horizon: Award-Winning Self-Powered Tracker



Zigbee wireless mesh network connects controller on each tracker row to the NCU

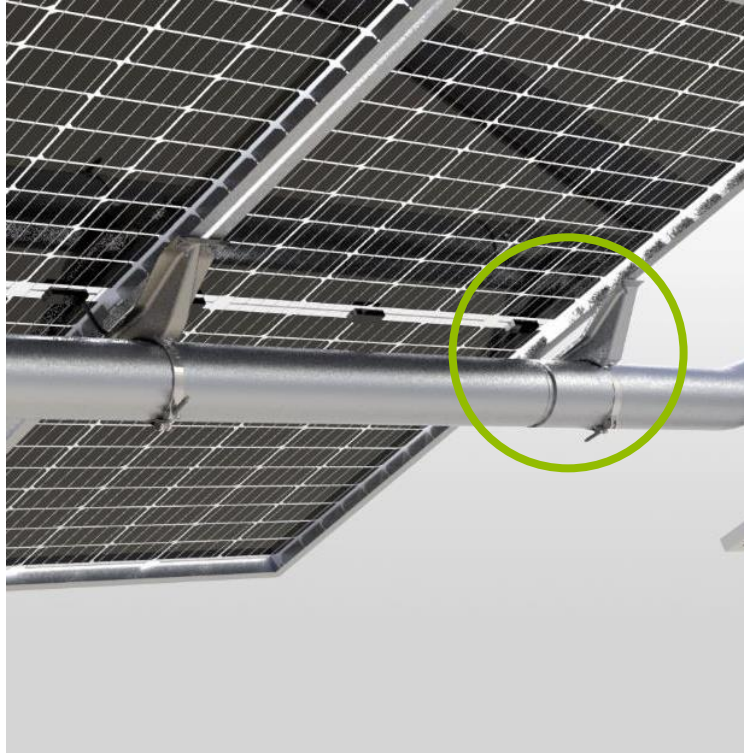
NX smart solar trackers combine advanced mechanical design with digital communications & control to maximize project IRR

DC Motor drives tracker row

Self Powered Controller (SPC) precisely measures array angle and controls tracker position, **integrated Li-ion backup battery** provides power reserve and overnight control

Dedicated smart PV panel powers self-powered controller and motor

NX Horizon Bifacial Enhancing Features



*"High-rise" Rails
90mm tube to cell*



*Bearing Gaps and piers designed to not
shade back side*



Drive System Gap

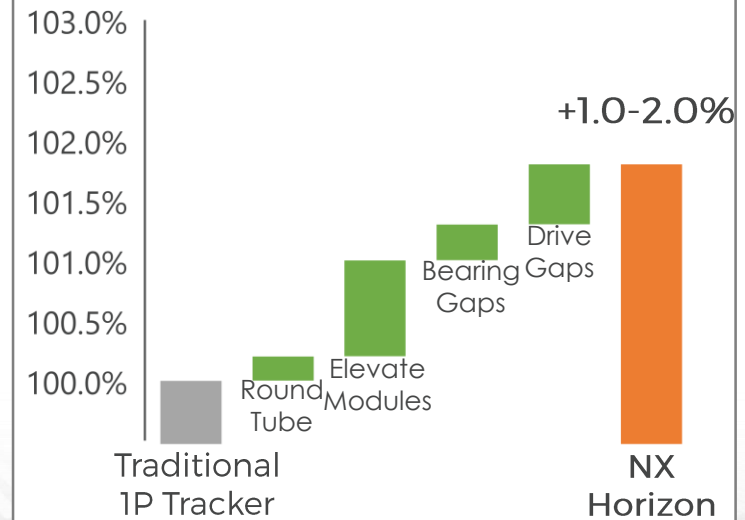
NX Horizon Bifacial Advantages vs. Traditional 1P Trackers

1.5- 2.0% Increased Annual Energy



1. Torque Tube Shape
2. Module Elevation
3. Bearing Gaps
4. Drive System Gap

Annual Energy Production





NX Gemini™: two -in portrait smart solar tracker

NX Gemini target applications



Hard soils



Undulating terrain



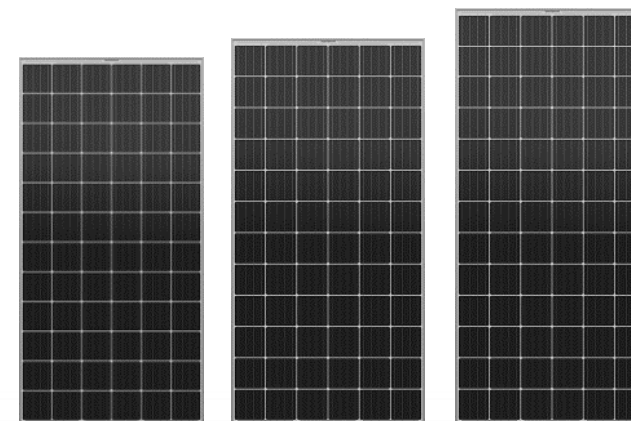
Irregular layouts



High winds



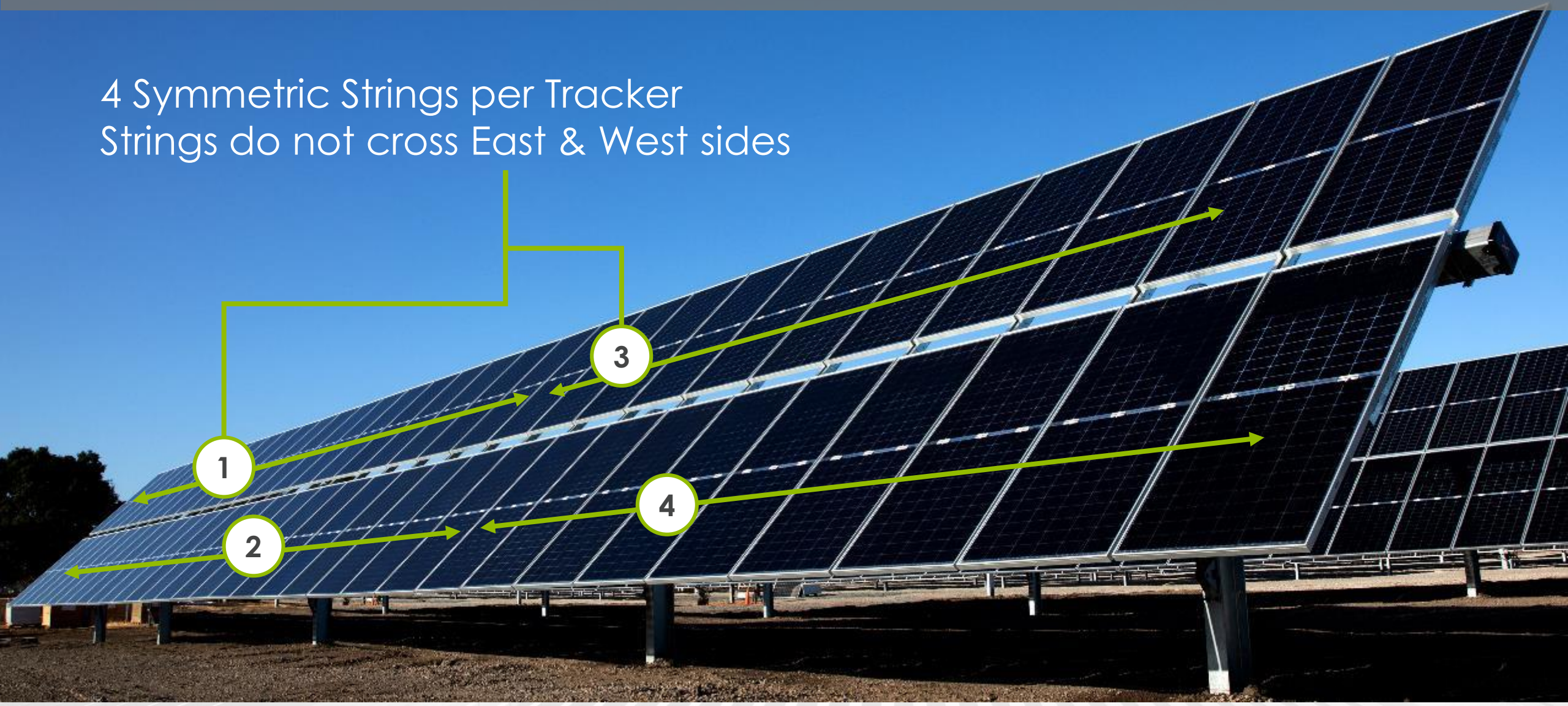
Robotic cleaning



Module flexibility

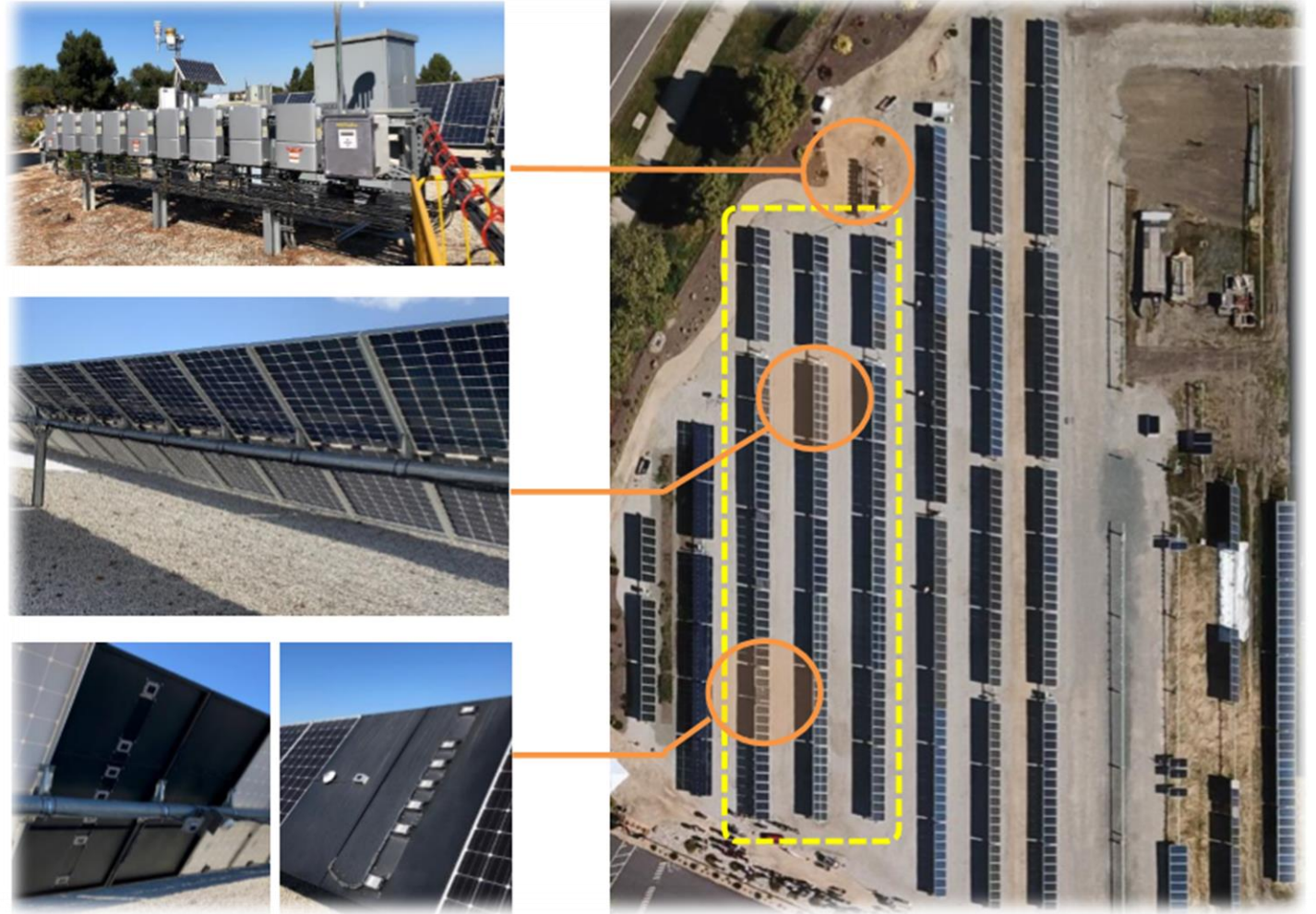
NX Gemini: Bifacial Performance

4 Symmetric Strings per Tracker
Strings do not cross East & West sides



More Power Gains from Jinko Bifacial Modules

- Fremont has a dry and warm summer then a wet and rainy winter.
- The project is located in the outdoor field test station of solar tracking firm Nextracker.
- The ground is light gray gravel and the measured albedo of the site is around 20%.
- Cumulative gains to date greater than 8%, which is in-line with PVSys modeled values



Bifacial test facility at Center for Solar Excellence, Fremont, CA.

Module Size Compatibility with Nextracker

NEXTracker can accommodate complete range of form-factors

- a. 1P Horizon: Cell sizes from 156 to 210mm
- b. 2P Gemini: Cell sizes from 156 to 210mm
- c. 72/144 and 78/156 cell modules

Cells/Mod	Typ. Cell Class	Typ. Cell Size (mm)	NX Horizon	NX Gemini
72 full 144 split	M2	156.75	v	v
	G1/FSQ	158.75	v	v
	Jinko Solar	163.75	v	v
	M6	166	v	v
78 full 156 split	M2	156.75	v	v
	G1/FSQ	158.75	v	v
	Jinko Solar	163.75	v	v
	M6	166	v	v
150 split	M12	210	v	v

Large module sizes (210mm) will be supported on both NX Horizon and Gemini

Thank you

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Emerging Markets

Nextracker

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NX India and
Dubai, serving
the MEIAT
region