



SUSTAINABLE SOLAR — EUROPE 2024

Session 7: ESG: Ensuring Long- Term Sustainability of Solar Assets

12 December 2024

Session 7: ESG: Ensuring Long-Term Sustainability of Solar Assets



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ESG: Ensuring Long-Term Sustainability of Solar Assets

12 December 2024

jinkosolar.eu

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SOLAR
EUROPE 2024

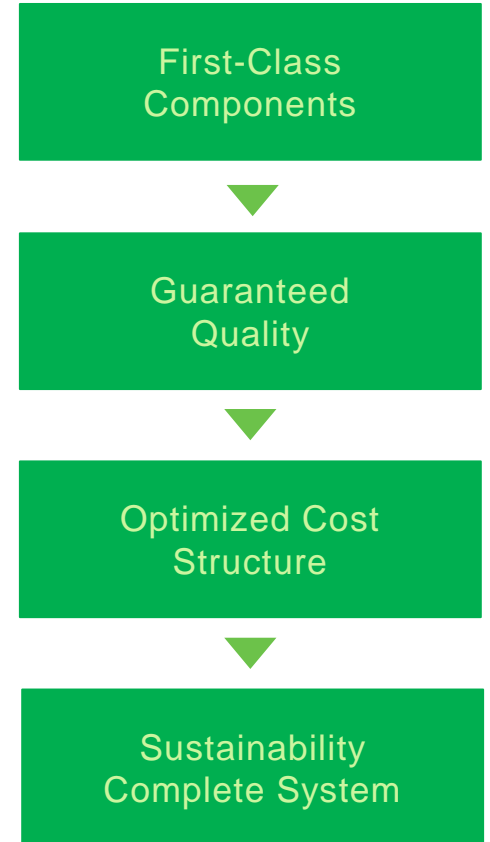
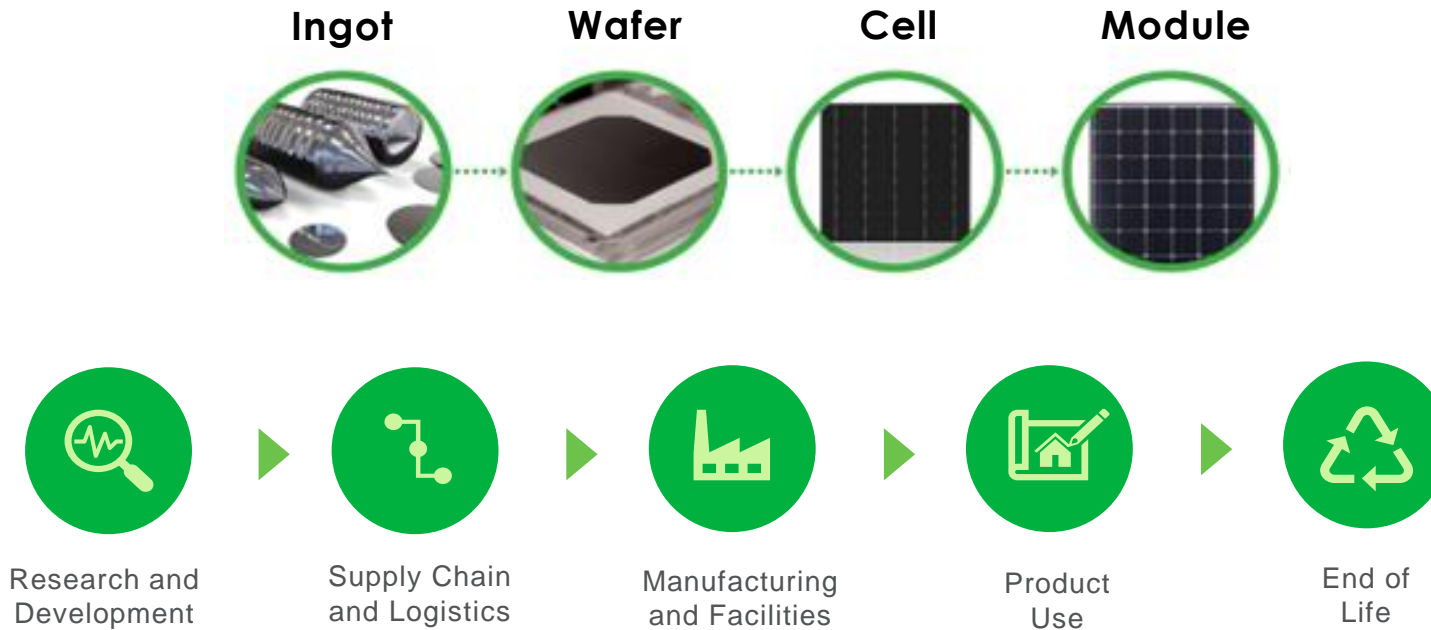


SolarPower
Europe



Globalized Strategic Layout Strategy

In our operations, JinkoSolar **champions a Vertical Integration model** that helps to maintain safe, healthy and welcoming environment, contributing to advancing R&D, to controlling of cost, to improving information interaction and to benefiting the local economies.



Globalized Strategy

Targets Setting

CLIMATE GROUP RE100

RE100 is the global corporate renewable energy initiative for accelerating change towards zero carbon grids at scale. JinkoSolar has **committed to go 100% renewable electricity.**

CLIMATE GROUP EP100

JinkoSolar has committed to implement an energy management system across all operations and **improve energy productivity 30%.**



JinkoSolar committed to SBTi in November 2021 and has been **approved Net-zero, Near-term and Long-term science-based emissions reduction targets** by SBTi in December 2023.

JinkoSolar is the **first Chinese PV company around the world with all targets validated.**

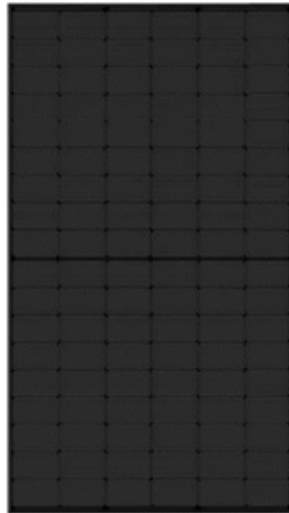
The overarching objective is to **limit the increase in global average temperature to 1.5°C** above pre-industrial levels, in alignment with the goals of the Paris Agreement.

Eight of JinkoSolar in-house manufacturing facilities (module – cell – wafer - ingot) acquired **Zero Carbon Factory certificate** from external 3rd party.

- ## Module Assembly

Climate strategy implemented into products

Neo Green series



Carbon Footprint certificates

JinkoSolar integrates considerations for sustainable development into the entire product lifecycle, ensuring that products have ecological advantages.

- **15 products+** underwent lifecycle assessments (14067)
- **9 products+** certified by Italian Environmental Product Declaration
- **10 products+** certified for carbon footprint by French Product Carbon Footprint certification







Nigel Sampaio

Key Account Manager,
Sungrow

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Bridge to a sustainable future



Key Facts about Sungrow

SUNGROW



1997

**Founded
Sungrow**



2011

**Listed on
SZSE**



13000+

**R&D Staff
40%**



Top 50

**Most Innovative
Companies
in Forbes China**

Corporate Culture

SUNGROW

Mission



Clean power for all

Vision



To be the global leader of clean energy conversion technology












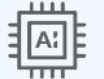























Values



Honest & Reliable, Excellent & Open-minded, Innovative & Respectful, Customer First

Group Strategic Ecosystem

SUNGROW

Business Focus	Key Equipment	Development and Integration	Platform and Service
 SOLAR	 Inverter	 Utility PV plant  Floating PV system  Distributed PV plant  Intelligent cleaning  Residential PV plant  PV trackers	 CLOUD PLATFORM  SMART O&M  AFTER-MARKET SERVICES  AI + ENERGY SERVICE  VIRTUAL POWER GENERATION  BLOCKCHAIN  ZERO CARBON SERVICE  INDUSTRIAL INVESTMENT
 WIND	 Wind Power Converter	 Wind farm	
 ENERGY STORAGE	 Energy Storage Converter	 Renewable generation smoothing  Utility ESS  Commercial & Industrial ESS  Residential ESS	
 ELECTRIC VEHICLE	 Charging pile  Electric drive control	 PV & ESS & Charging  V2G	
 HYDROGEN	 Hydrogen Production Power Supply  Electrolysis Equipment	 Hydrogen production from renewable energy  Hydrogen power generation	

Global Presence

SUNGROW



3

Manufacturing Bases

Hefei, Chonburi, Bangalore



6

R&D Centers & teams

Hefei, Shanghai, Nanjing,
Shenzhen, Munich, Amsterdam



20+

International Subsidiaries



170+

Countries in Operation



Global Manufacturing Capacity

SUNGROW



India Factory



China Factory - Headquarters



Thailand Factory

245 GW PV Inverter Current Production Capacity

25GW Overseas Capacity

25GW Overseas Capacity under Construction

55GWh ESS Current Production Capacity

45GWh Capacity under Construction

Our Presence in Europe

SUNGROW



500+ Local Employees
with more than 60 nationalities



22 Local Teams



3 Training Academies and
Technology Competence Centers



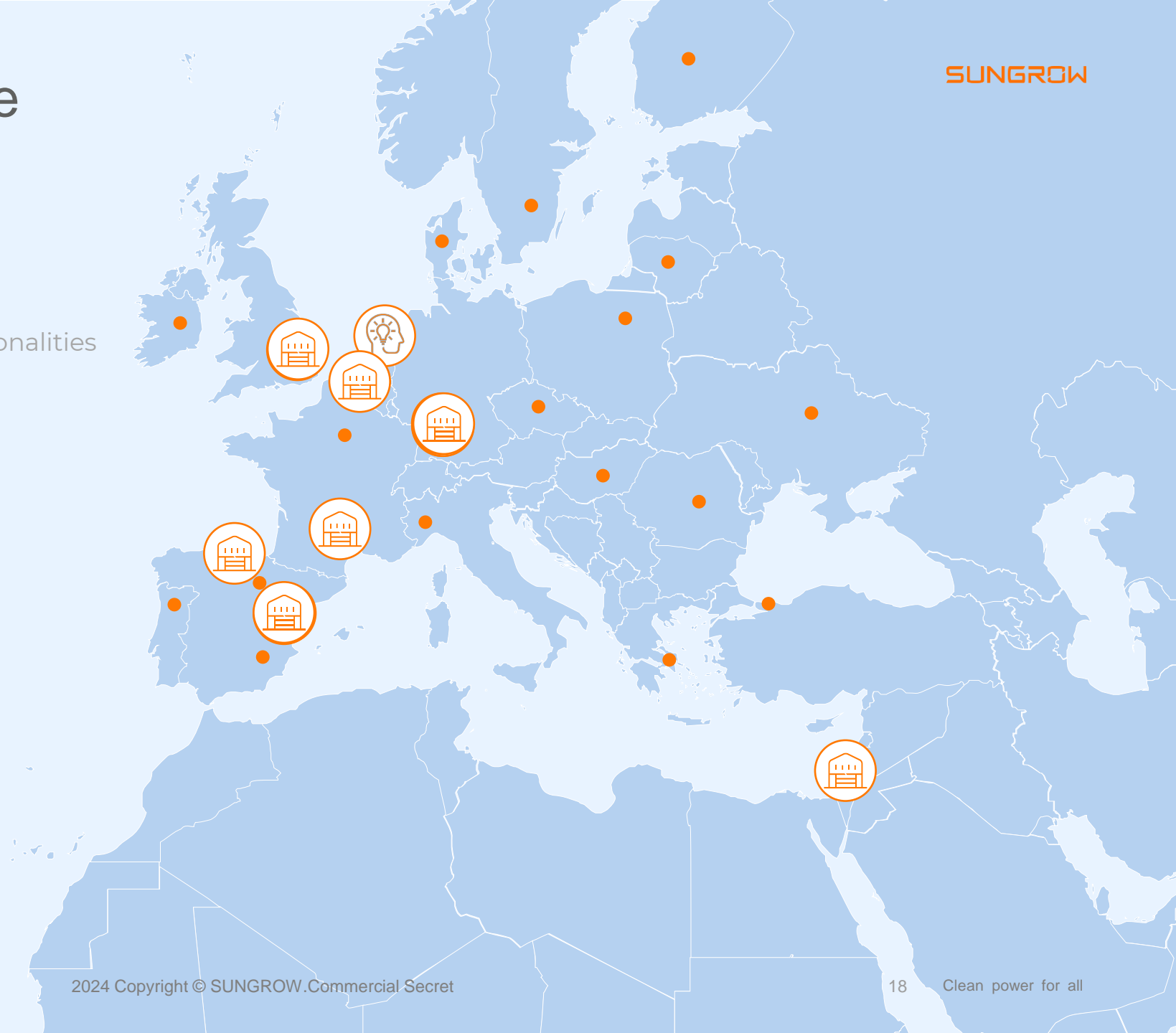
2 Research Teams



2 Service Centers



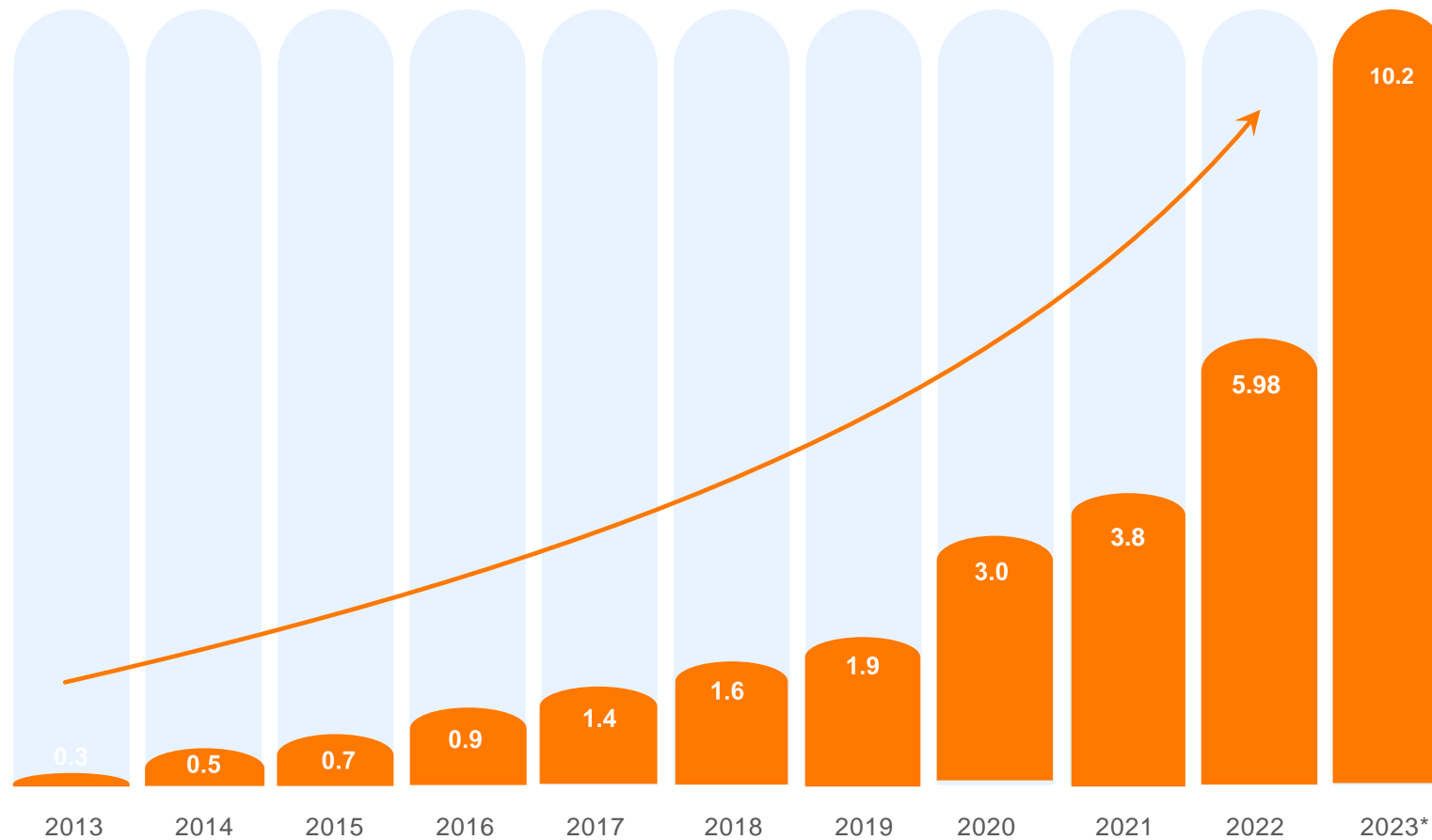
7 Local Warehouses



Business Performance

SUNGROW

Revenue
USD (billion)



Our Products

SUNGROW

PV



ESS



EVC



Hydrogen



Providing stable and reliable clean power through highly integrated power electronics with renewable energy generation and energy storage to build a zero-carbon world for all.

PV Inverter

SUNGROW

Provide efficient, intelligent, safe and reliable inverter solutions covering all scenarios, maximizing ROI

Global PV Inverter shipment in 2023

130GW

Global leader in PV Inverter technologies



1+X Modular Inverter



String Inverter



Residential Inverter



reddot winner 2023

Energy Storage System

SUNGROW

Integrate power electronics, electrochemistry, and grid support technologies to build a professional ESS



Utility ESS



Global ESS shipment in 2023

10.5GWh

Global leading ESS
Solution provider



C&I ESS



Residential ESS



Charging Equipment

SUNGROW

Provide reliable, low maintenance need and long service lifetime ultra-fast EV charging equipment to maximize ROI.



Residential Charging Equipment



Semi Public Charging Station



Public Charging Station



Integrated Solution of PV, ESS and EVC



reddot winner 2023

Hydrogen Equipment

We are specialized in hydrogen production by water electrolysis, and committed to providing “efficient, intelligent, safe” flexible green hydrogen production system solutions



**PWM Hydrogen
Production
Power Supply**



**ALK water
electrolyser**



**Gas-lye separation
& purification
equipment**



**PEM water
electrolyser**

Corporate Social Responsibility



Germany Tree Planting
& Social Engagement



Global Volunteer Week



Employee Engagement

SUNGROW



66% legal entities in Europe are Certified.

We are glad to announce that **SUNGROW** received the Most Wanted Employer 2024 Award by Zeit!
(17/1200 companies)

Climate Targets

SUNGROW



Achieving carbon neutrality on the
operational level by 2028

Scope 1+2 (CO₂ emissions)



Achieving carbon neutrality
across the supply chain by 2038

Scope 1+2+3 (CO₂ emissions)



Achieving net zero across the
supply chain by 2048

Scope 1+2+3 (all greenhouse gas emissions)*

Note: IPCC-Special Report on Global
Warming of 1.5°C

Sustainable Development

SUNGROW

Green Mission, Better Life

RE100

Use 100% renewable electricity for operation and production at all of our locations by 2028

EP100

Achieve a full coverage of energy management system by 2028 and improve energy productivity by 35% by 2028 with 2018 being the baseline year



Join UNGC and support the UNGC initiatives



Contribute to the UN Sustainable Development Goals

200MW/400MWh ESS in Chongzuo, Guangxi



Background

- Chongzuo has weak energy infrastructure, insufficient use of clean energy, and poor power transmission and distribution in remote areas

Solution

- 55*ST3440UX*2-SC3450UD-MV+
- 4*ST2752UX*2-SC2750UD-MV

Customer Value

- Relieve the problem of high load rate on 220 kV lines
- Effectively reduce coal usage and reduce harmful gas emissions such as CO, CmHn, NOx, SO2, etc

DORAL 66MW/253MWh ESS

SUNGROW



COD Time	2022年
Location	Israel
Solution	21*SG3125HV-MV 92*ST2752UX

USA KCE 470MW/900MWh ESS



COD Time	2022.9~12
Location	Texas & New York State
Solution	94*SC5000UD-MV-US ,311*ST2752UX-US
Feature	Adopting the solar power supply PowerTitan liquid cooled energy storage system, through liquid cooled temperature control technology and refined cluster level management, the goal of improving lifespan, increasing efficiency, and reducing losses has been achieved, and the LCOS has been reduced by over 20%. From battery cells to comprehensive system protection

Vilvoorde Project 880 MWh ESS Project - Belgium

Solution

- PowerTitan 2.0
- First Unit arriving in October 2024
- COD within 2025



Reuters – 7.8 GWh in Saudi Arabia



China's Sungrow signs deal with Saudi Arabia's Aljihaz for energy storage project

By Reuters

July 16, 2024 6:38 AM GMT+2 · Updated 3 months ago



Employees inspect newly-made solar panels on the roof of a Sungrow Power Supply Co., Ltd factory in Hefei, Anhui province December 8, 2010. REUTERS/Stringer/File photo [Purchase Licensing Rights](#)

Thanks!



Arttur Kulvik

SVP/Chairman,
Solnet Group

FUTURE PROOF SOLUTIONS

SOLNET

Panel discussion



Mario Quintana
ESG Manager Europe,
Jinko



Nigel Sampaio
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THANK YOU



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