

Clean power for all

SUNGROW



Corporate Culture



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

Key Milestones

1997
Establishment
of the Company

2002
Township
Electrification
Program

2003
The first
grid-
connected
inverter

2009
The first PV
concession
project in
China

2011
Listed on the
Shenzhen
Stock
Exchange

2016
Chinese
President Xi
Jinping inspected
Sungrow's smart
energy power
generation
system

2017
Upgraded
the mission
to "Clean
power for
all"

2018
Indian factory
commenced
production

2019
Awarded
National
Industrial
Design
Center

2021
Ranked first
among
"China's Top
500 ESG
Excellent
Enterprises"

2022
Successfully developed
the world's first 35kV
solid state transformer
(SST) based PV
inverter

Global Presence



3 Manufacturing Bases
Hefei, Bangalore, Chonburi



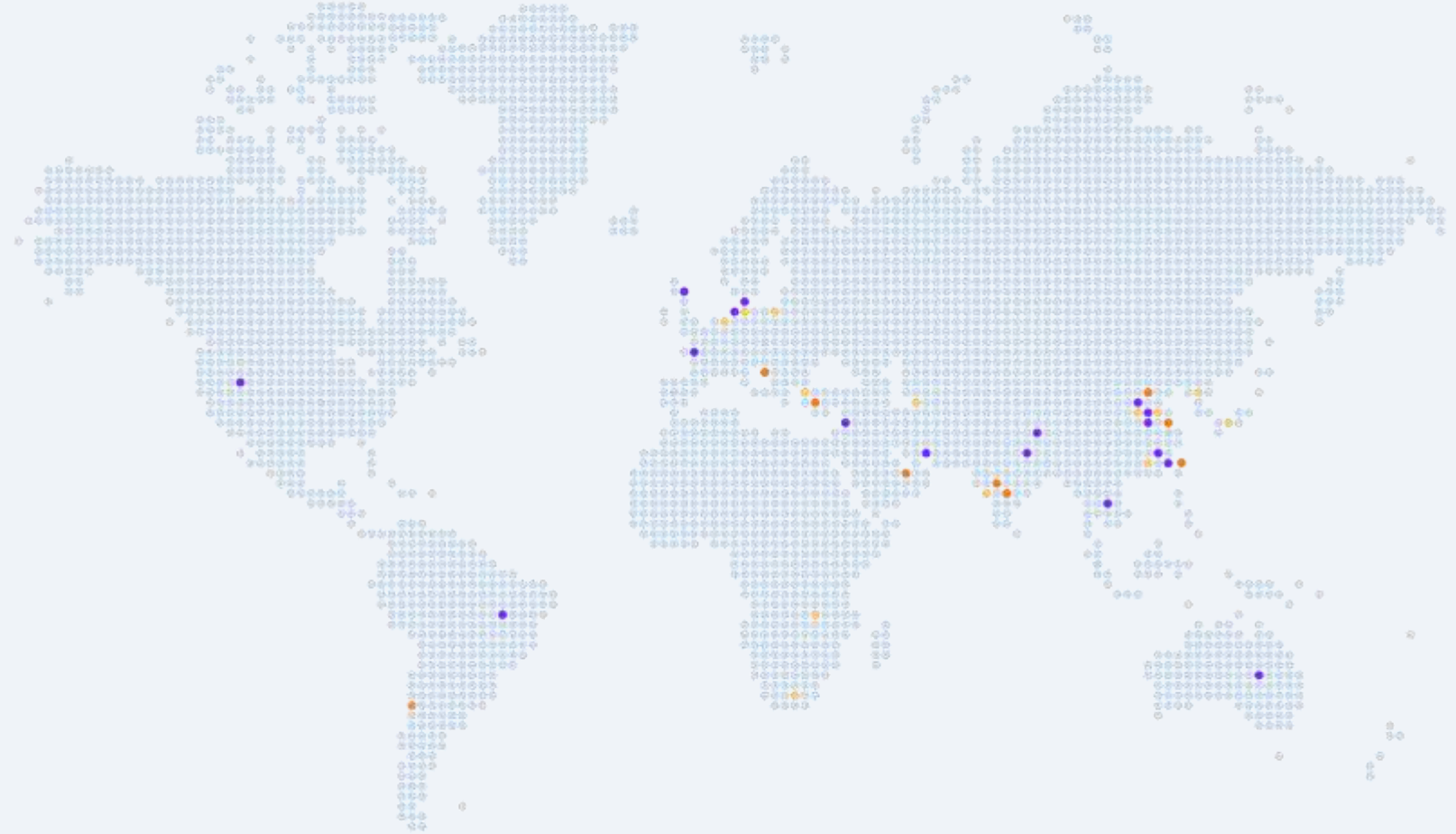
6 R&D Centers
Hefei, Shanghai, Nanjing,
Shenzhen, Munich, Delft



20+
International Subsidiaries

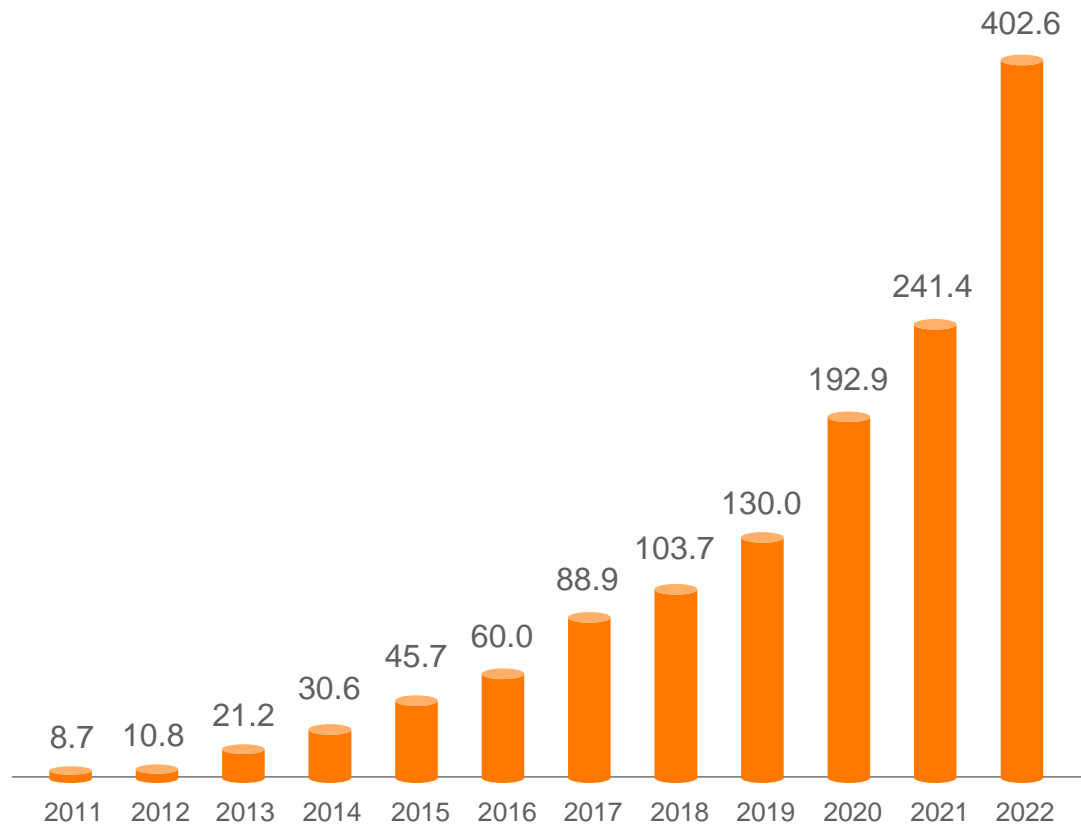


150+
Countries in Operation

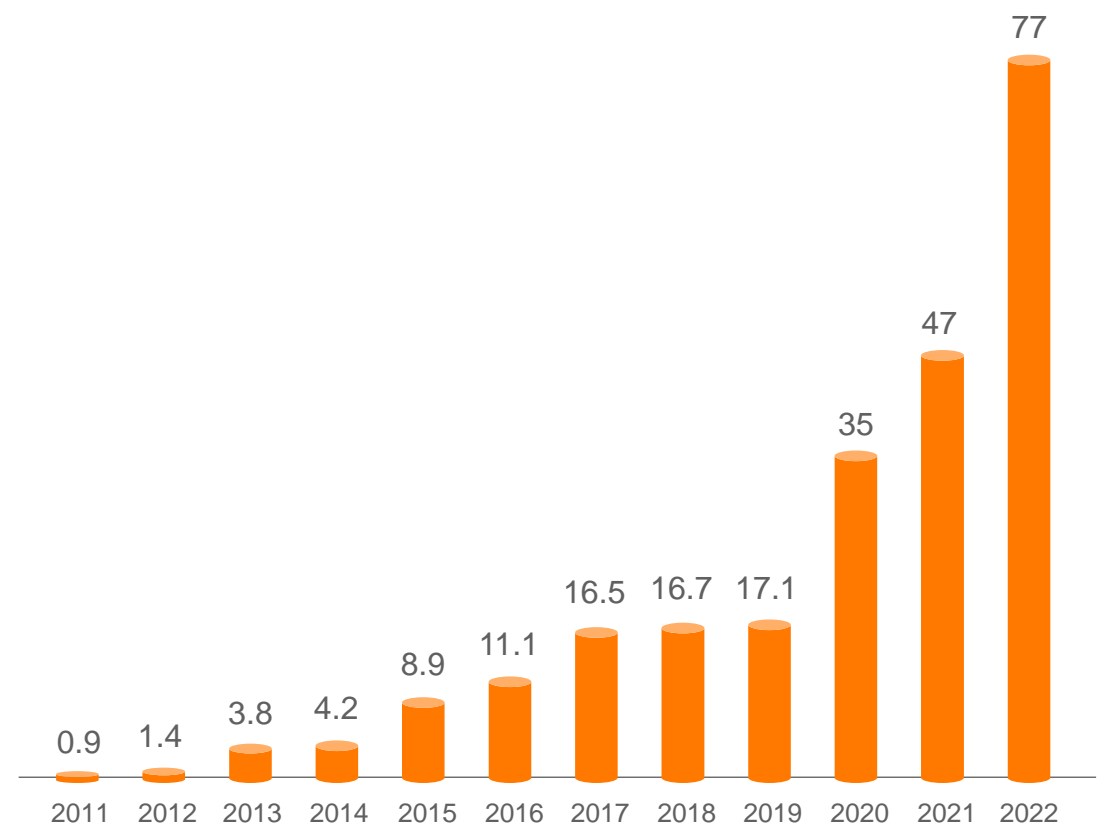


Business Performance

Operating Income
(in CNY 100M)



Shipments of PV inverters
(in GW)



Business Layout



PV Inverter

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

Global PV Inverter shipment in 2022
77GW

Global PV Inverter shipment
No.1

Data source: IHS Markit



1+X Modular Inverter



String Inverter



Residential Inverter



Energy Storage System

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



Utility ESS



Global ESS shipment in 2022

7.7GWh

Global ESS shipments among Chinese companies for 7 consecutive years

No.1

Data source: China Energy Storage Alliance



C&I ESS



Residential ESS



Renewable Energy Investment and Development

Generate more power in a friendlier way, build more renewable energy power stations that are highly efficient, integrated, and friendly

TOP 1

Global PV power plant developer Data source: S&P Global



Centralized PV power station



Industrial & commercial PV power station



Residential PV



Wind farm

Wind Power Converter

Become a world-class wind power technology and equipment provider, continuously provide value-added services to customers

Shipments in 2022
23GW



Doubly-fed converter



Full power wind power converter



Pitch driver and pitch control system



Inverter and Charger-converter for NEV

Offer high value electric drive and charger-converter solutions for new energy passenger vehicles and commercial vehicles



Charger-converter



Dual inverter for HEV



Silicon carbide inverter



Integrated controller

FPV System

Create eco-friendly, reliable and efficient FPV system, provide one-stop system solutions suitable for various water areas



Subsidence zone

- Unstable settlement solution
- Fishery PV complementary solution
- Water governance solution



Global market share ranking for five consecutive years

NO.1

Data source: IHS Markit



- Deep water construction solution
- Large water level variation anchoring solution
- Hydro-PV complementary solution



Reservoir



Offshore

- Water break solution
- Typhoon-resistant solution
- Corrosion-proof solution



Smart Operation & Maintenance

Follow the service concept of “Building Trust with Technology” to provide one-stop asset management services for solar, wind, energy storage and other new energy power plants



Smart O&M

- Guaranteed power generation
- Stretched power generation



Technical renovation

- Benefit-based solution
- Production-based solution
- Safety-based solution



Professional services

- Digital op&m platform
- Power station testing & inspection
- Drone inspection
- Training of op&m personnel

Charging Equipment

Build reliable, efficient, and intelligent EV charging equipment products, provide integrated intelligent charging solutions



Intelligent Robotic PV Cleaning

Offer full-scenarios cleaning solutions for PV power stations



PV railed cleaning robot



Semi-autonomous PV cleaning robot



Intelligent PV robot shuttle



Trackless PV cleaning robot



注Note: PV intelligent cleaning is offered by a Sungrow ecosystem partner

R&D Innovation

Continuously increase R&D investment

1700million
(CNY)
R&D
investment

40%
R&D
personnel

60+
PhDs

2000+
Masters

Steadily improve R&D capabilities

3000+
Cumulative
patents awarded

50+
Major domestic
and international
standards

20+
National key science
and technology
programs



National Enterprise
Technology Center



National Industrial
Design Center



State-local Joint
Engineering Research
Center



State-level Post-doctoral
Research Workstation



CNAS Certified



85+
service outlets



280+
authorized
service providers



340GW
cumulative power
plant capacity

Quick Response

- Quick response and problem-solving: 24 hours in China, 48 hours overseas
- Global service platform
- Three-level technical support system

Guaranteed Resources

- Service outlets
- Authorized service providers
- Training centers

All-around Service

- Pre-sales service
- In-sales services
- Post-sales service

Sustainable Development

Green Mission, Better Life

RE100

Use 100% renewable
electricity by 2028

EP100

Increase energy productivity
by at least 35% by 2028 than
that of 2018



Join UNGC and support
the UNGC initiatives



Contribute to the UN
Sustainable
Development Goals

Market & Performance/Application References

SUNGROW



Market & Performance/Application References

Inverters applied to utility PV plants in Pakistan



300MW utility PV plant in Bahawalpur Punjab



18MW PV plant of Harappa Solar Punjab



17.5MW PV plant of Fauji cement punjab



50MW Gharao Solar PV plant in Thatta, Sindh

Market & Performance/Application References

Capacity	Site	COD time
300MW	Punjab Bahawalpur	2016
100MW	Punjab, Layyah	2021
100MW	Punjab	2022
50MW	Sindh Thatta	2019
34MW	Punjab	2022
25MW	Sindh	2022
10MW	Sindh, Bhit	2019
15MW	KPK	2021

More than **2GW** Closed by the start of 2022

Market & Performance/Application References



1MW project President House PV plant in Islamabad

5.3MW project PV plant in Kasur Punjab



10MW project PV plant in Dadu Sindh

Residential PV plant in Peshawar KPK

Thank You



2027

- A globally renowned brand
- Remain the first ranks in all businesses, with products seen everywhere around the world
- Become a competent, trusted, and large scale global leader in the new energy section

2023

- A world renowned new energy business
- Maintain global leads in inverters, energy storage, and other core businesses

