

GOODWE TEC

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GOODWE TECHNOLOGIES CO., LTD.

GOODWE



GROUP PROFILE

GoodWe is a world-leading PV inverter and energy storage solutions manufacturer and is listed as a public limited company on the Shanghai Stock Exchange (Stock Code: 688390).

With an accumulative delivery of more than two million inverters and installation of 23GW in more than 100 countries and regions, GoodWe solar inverters have been used in residential and commercial rooftops, industrial and utility-scale systems and range from 0.7kW to 250kW. GoodWe has more than 3000 employees situated in 20 different countries and is regarded as the Global No.1 storage inverter by Wood Mackenzie in 2020. GoodWe has also ranked as one of the Top 10 inverter suppliers by IHS Markit and has achieved 6 consecutive TÜV Rheinland 'All Quality Matters' Awards.

Technological innovation is GoodWe's main core competence. With more than 500 employees in two R&D centers, GoodWe can offer a comprehensive portfolio of products and solutions for residential, commercial and utility-scale PV systems, ensuring that performance and quality go hand-in-hand across the entire range. GoodWe has set up an integrated service system for pre-sales, sales and after-sales and has established service centers worldwide, aiming to offer global support to all customers including project consulting, technical training, on-site support and after-sales service.

Inverter Global Ranking

Energy Storage Inverter
Global Ranking

Inverter Installations

Annual Electricity Production

Production Capacity

Floor Space

Applications

R&D Centers

R&D Staff



HISTORY AND DEVELOPMENT

Foundation of the company

Completed the company team and started product research and development

GW4000-SS inverter won PHOTON test double A certification, ranking top three in the world
GoodWe Solar Grid-connected Inverter Engineering Technology Research Centre approved in Suzhou

Won Innovation Award
Top 10 PV Inverter in China

ES series product launch
Approved as Jiangsu Renewable Energy Grid-connected Inverter Engineering Technology Research Center.

Listed on the NEEQ
Awarded "PCS Power Converter Manufacturer of the Year" at China International Energy Storage Plant Conference

Received TÜV Rheinland Laboratory accreditation
Signed Strategic Cooperation Agreement with Beijing Jiaotong University

Shenzhen R&D Center was established
Approved as "National Postdoctoral Research Station".
Groundbreaking of intelligent photovoltaic inverter industrialization project
Listed by the Ministry of Industry and Information Technology

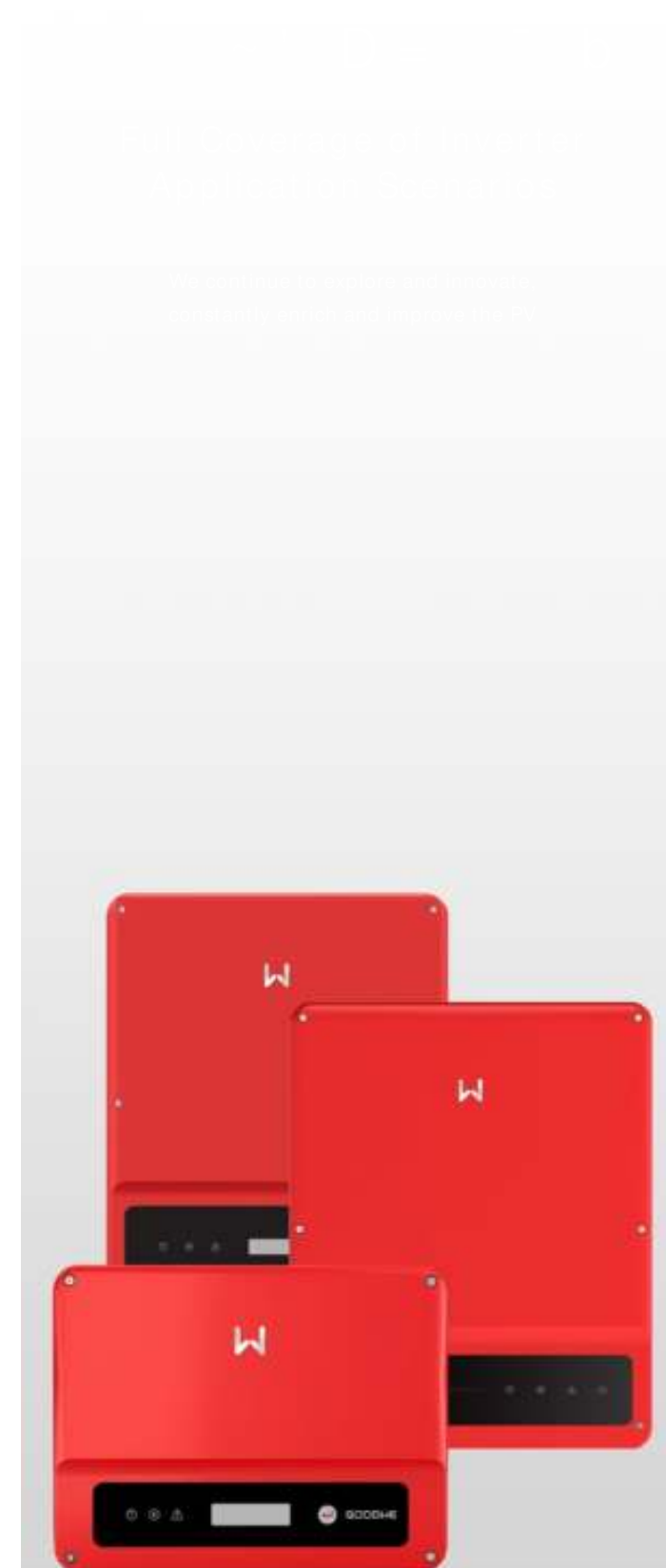
GoodWe Europe GmbH Was established in Munich, Germany
Ranked top 7 by Wood Mackenzie.

GoodWe was rewarded EuPD Top Brand for Australia
ET & DSS Series won TÜV Rheinland "All Quality Matters" Award
GoodWe Korea Co., Ltd was established in Seoul

GoodWe listed on Shanghai Stock Exchange (Stock Code: 688390)
GoodWe ranked as Global No. 1 Hybrid Inverter Supplier by Wood Mackenzie
PV Building Materials BU was Established

GoodWe American Subsidiary was Established
GoodWe Japan Subsidiary was Established
Became General Electric Authorized Partner
Beijing Centre was Established

Winner of the TÜV Rheinland "All Quality Matters" Award for Six Consecutive Years



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Being the sole forerunner that leaves its solid technical capabilities in power electronic technologies, GoodWe endeavours into PV building material market wishing to create a safe and smart applicable ecosystem for clean energy. We hope to equip our customers with a gateway to intelligent energy utilisation by providing fully privately owned energy generation, convention, storage, monitoring, communication, management and integrated control systems.

GoodWe PV Building Materials BU is dedicated to providing customers with integrated PV building solutions based on the comprehensive use of renewable energy through PV building materials and their applications.

TOP 10

Power Solution Specialists

PV BUILDING

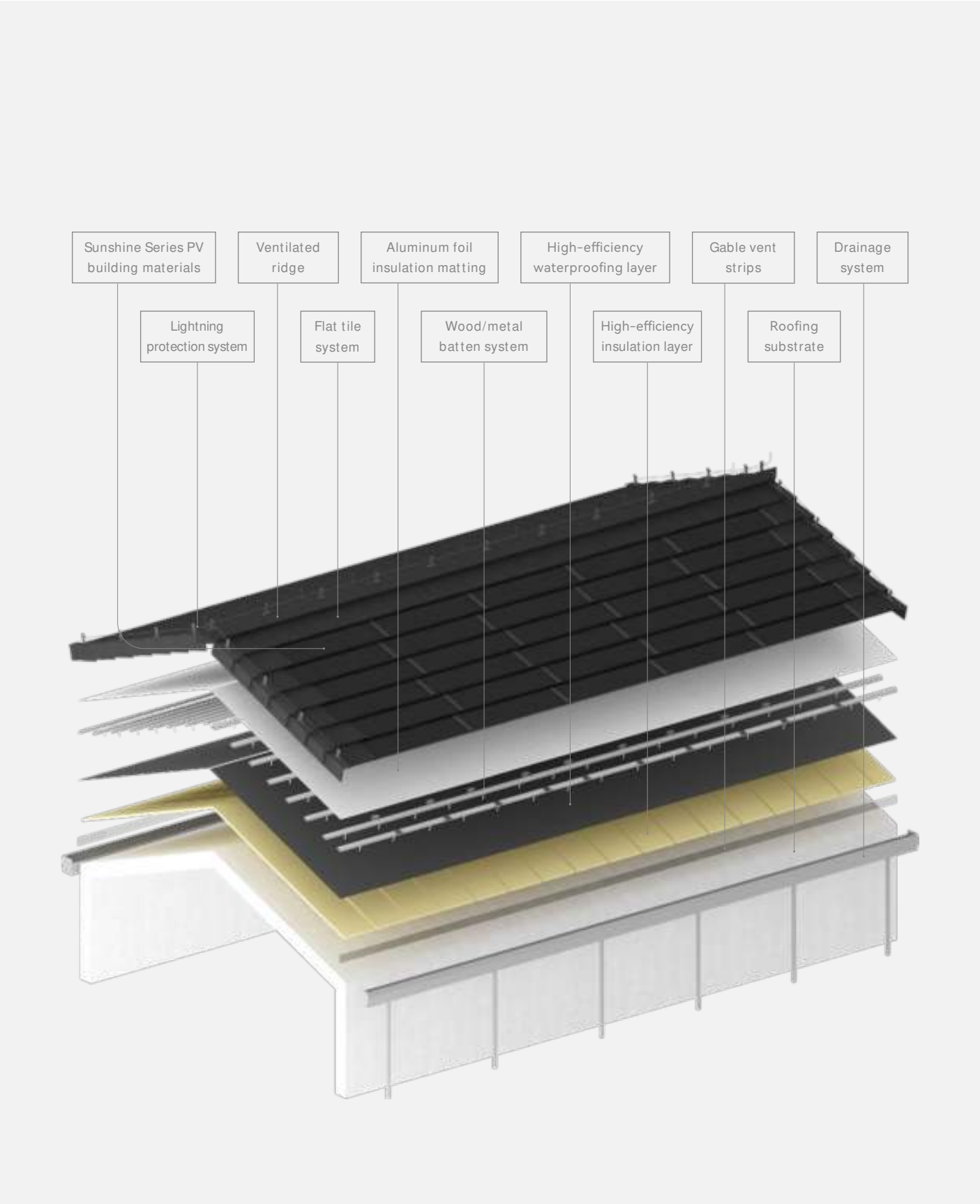
Solution Specialists

ELECTRICAL SAFETY

Application Specialists

SMART ENERGY

Control Specialists



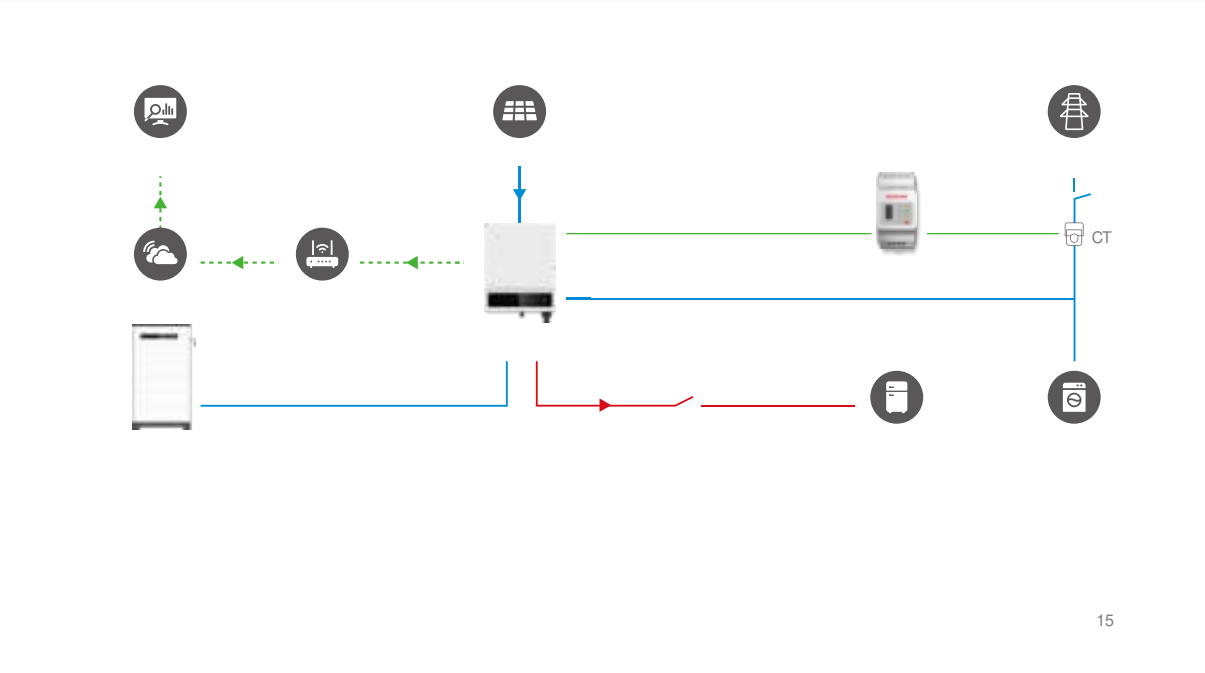
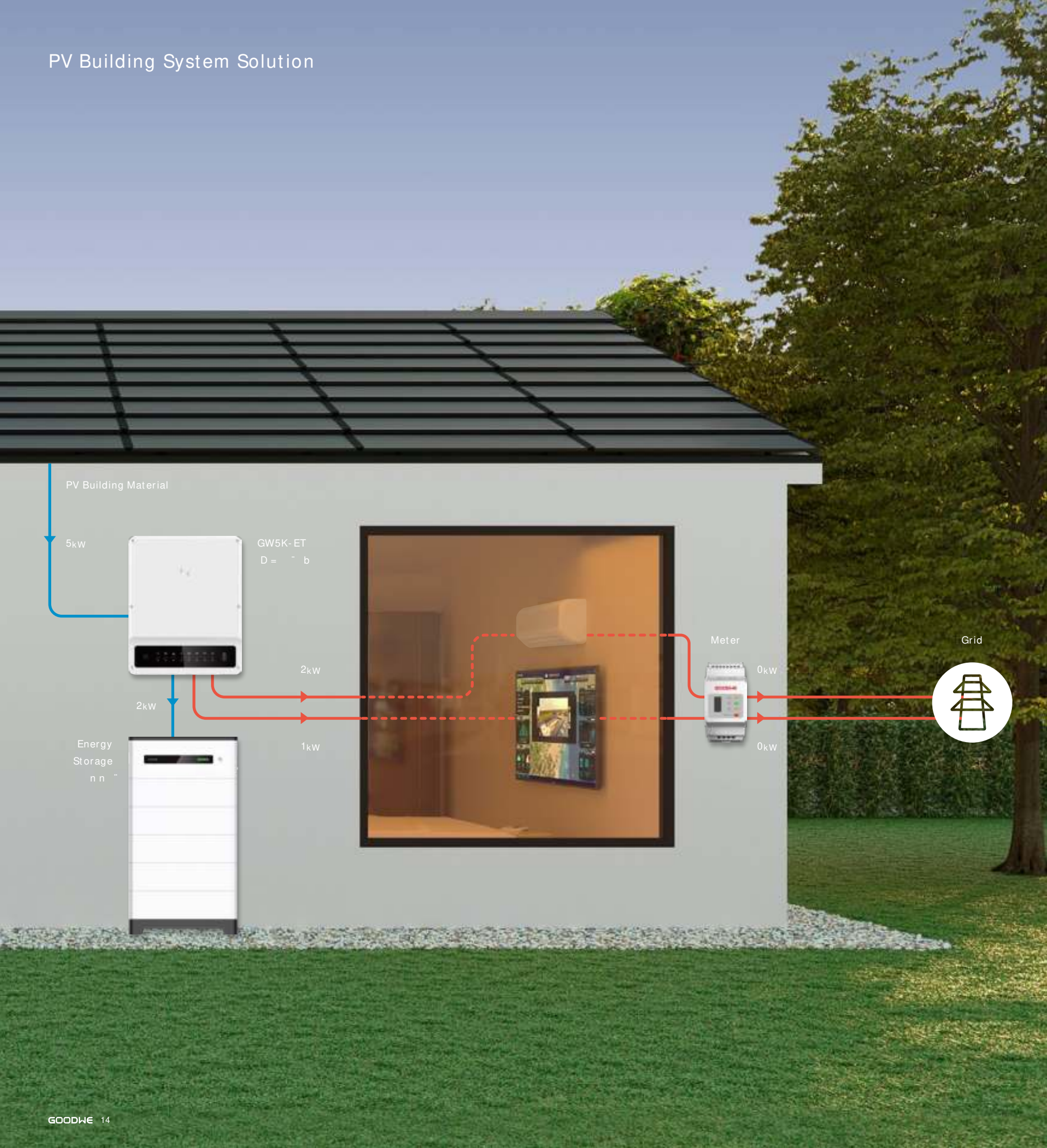
Modular Design to Accommodate Roof



Flexible design and easy installation to meet the needs of all roofing applications

- ✓ Flush seam layout solutions
- ✓ Staggered seam layout solutions
- ✓ Dense Roofing Technology

PV Building System Solution



Active Protection for Building Electrical Safety in Every Situation



The greatest advantage of the application of PV building materials is the guarantee of electrical safety in buildings by actively protecting your home in every situation.

Arc detection technology, intelligent control by AI algorithm, 0.5 second response time, 100% shutdown rate.

Adapted to the module-level rapid shutdown function to completely disconnect any of the generating units.

The DC and AC terminals are protected at system level with secondary lightning protection modules.

The internal circuitry of the GoodWe inverter is optimised to reduce the common mode voltage variation rate and suppress leakage currents.

String-level monitoring technology with O&M platform for 24/7 multi-terminal real-time alerts.

Extra Points for Green Building Rating

BREEAM®



CASBEE®



Compliance with green building assessment standards



Conforms to the building materials evaluation criteria

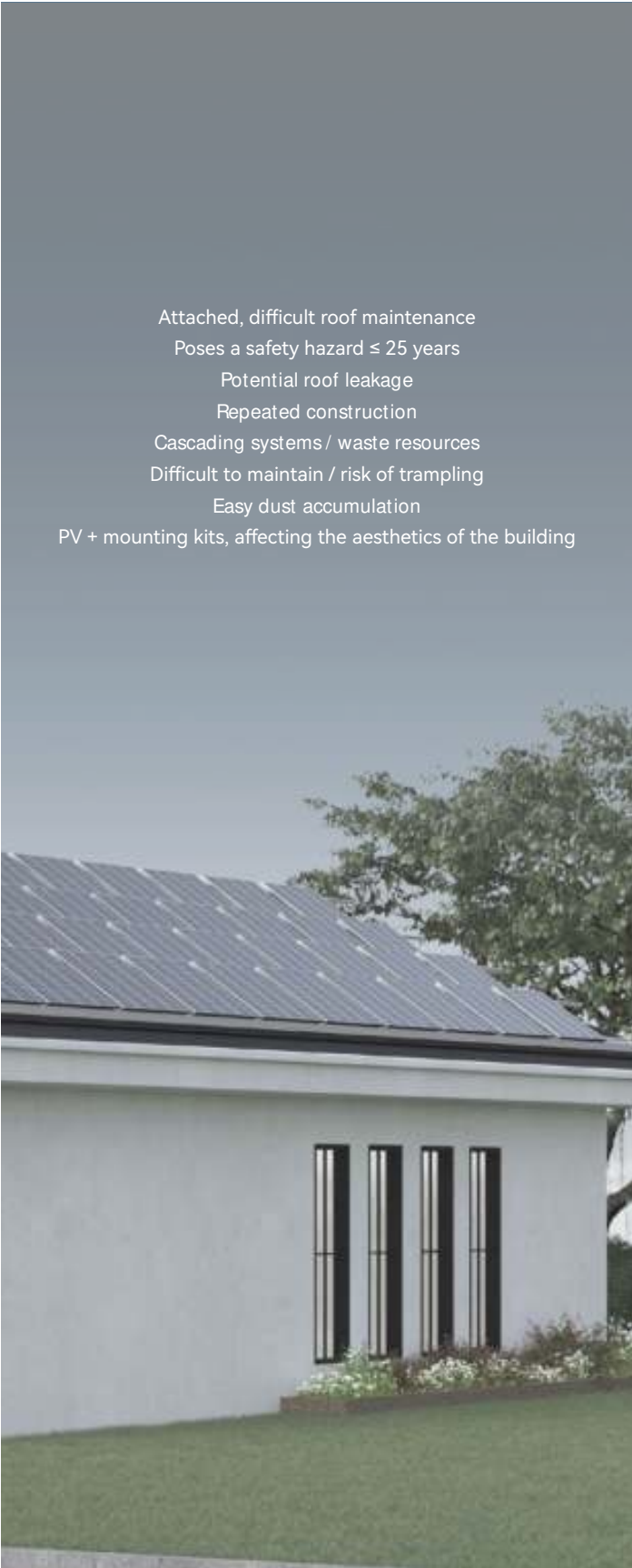


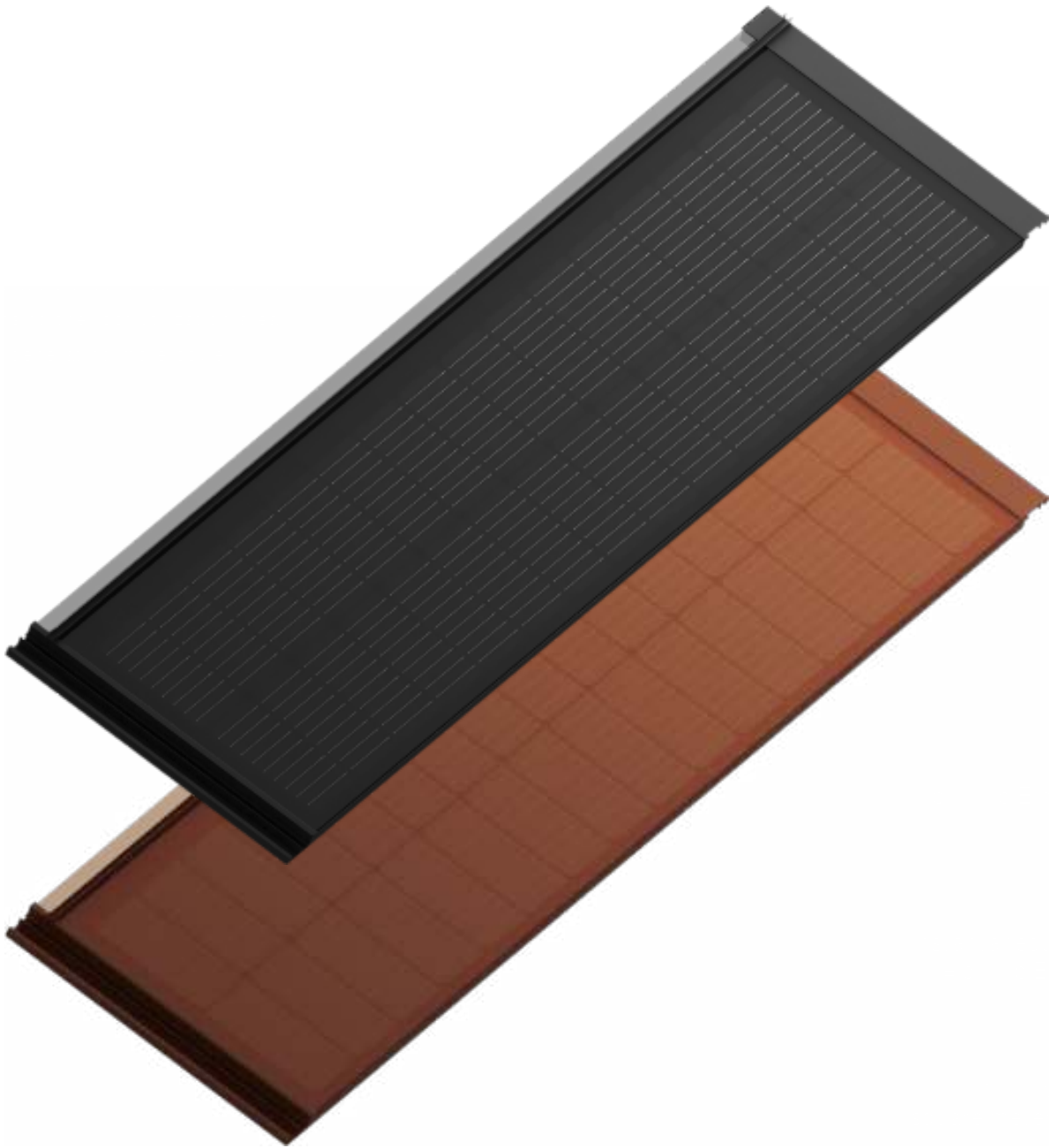
Efficient power generation of green energy



Carbon reduction in buildings entry to carbon trading

Empowering Architectural Aesthetics







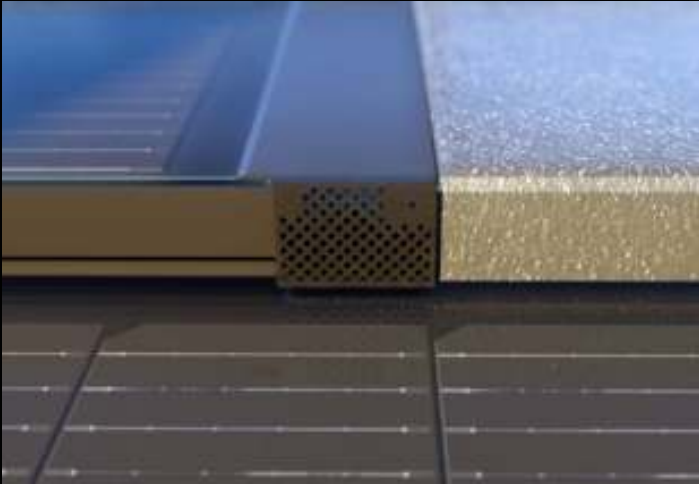
Impenetrable Waterproofing

System Level
Structural Drainage

Perfectly Compatible
to Traditional Roofing Systems

Dry-fix
Roofing System

Double Layer Elastic
Water Barrier



Class A
Fire Testing



14 Gusts Instantaneous
Wind Protection



3.2+3.2mm Double Toughened Glass
Construction
Higher Strength



System Thermal Design Reduces
Energy Consumption
Higher Power Generation



Toughened Double Glazing with
Hidden Edges
Self-Cleaning



Passed Rigorous Acoustic Test
Comfortable White Noise



GoodWe SEMS is a comprehensive energy management and O&M Platform that integrates multiple aspects in business architecture, including device layer, communication layer, information layer and application layer.

SEMS also uses advanced multi-dimensional technology to achieve intelligent management functions such as access, routing, scheduling and control of distributed and traditional energy sources such as solar energy, battery storage, etc. It also provides interfaces for future monitoring and management of other energy sources such as gas, water, heat and oil supply.



Power Station Health
Diagnosis & Analysis



Energy Efficiency Management
and Optimisation



Carbon
Management



Muti-terminal Management

Monitoring

Meeting the 'Smart Operation' standard for green buildings, enabling the monitoring of building energy consumption

- Power Generation Enquiry
- Large screen Monitoring
- Operating Curves
- Equipment Analysis
- Alarm Push Notifications

O&M

Platform-based centralised urban management for green building 'smart city' needs

- Diagnosis & Analysis
- Health Diagnosis
- Task Management
- Remote Control
- Online O&M

Asia

North America

South America

Africa

Oceania



Brazil

Typical Application Scenarios



Annual electricity
production 13,900kWh

Equivalent reduction
in CO² emissions

Equivalent trees
planted



Structural ventilation
and heat dissipation
Allowing more freedom
of space



Efficient and clean
energy
Better understanding of
electricity consumption



Active safety
Intelligent control



Innovative roofing
systems empowering
the roof

*The above figures are based on a 10kW public building roof solution. Average annual electricity generation may fluctuate due to weather and seasonal conditions and is for reference only.



Annual electricity
production 12,000kWh

Equivalent reduction
in CO² emissions

Equivalent trees
planted



Neumorphism
Green power comes
naturally



Eco-friendly, clean and
sustainable
Assist in energy revolution



Technological roofing
Empowering
architectural style



Back to the design essence
Balancing function and
aesthetics

*The above figures are based on a 8kW public building roof solution. Average annual electricity generation may fluctuate due to weather and seasonal conditions and is for reference only.

Typical Application Scenarios



Annual electricity
production 167,000kWh

Equivalent reduction
in CO² emissions

Equivalent trees
planted



Smart energy management
High percentage of green
power applications



Ancillary energy storage
systems
Emergency power
supply



Green power equipped
building
Energy consumption
reduction



CCER green power
trading, CCER takes
the lead in the market

*The above figures are based on a 120kW public building roof solution. Average annual electricity generation may fluctuate due to weather and seasonal conditions and is for reference only.



Annual electricity
production 139,000kWh

Equivalent reduction
in CO² emissions

Equivalent trees
planted



Continuous power
generation over 30
years



Professional solution
design



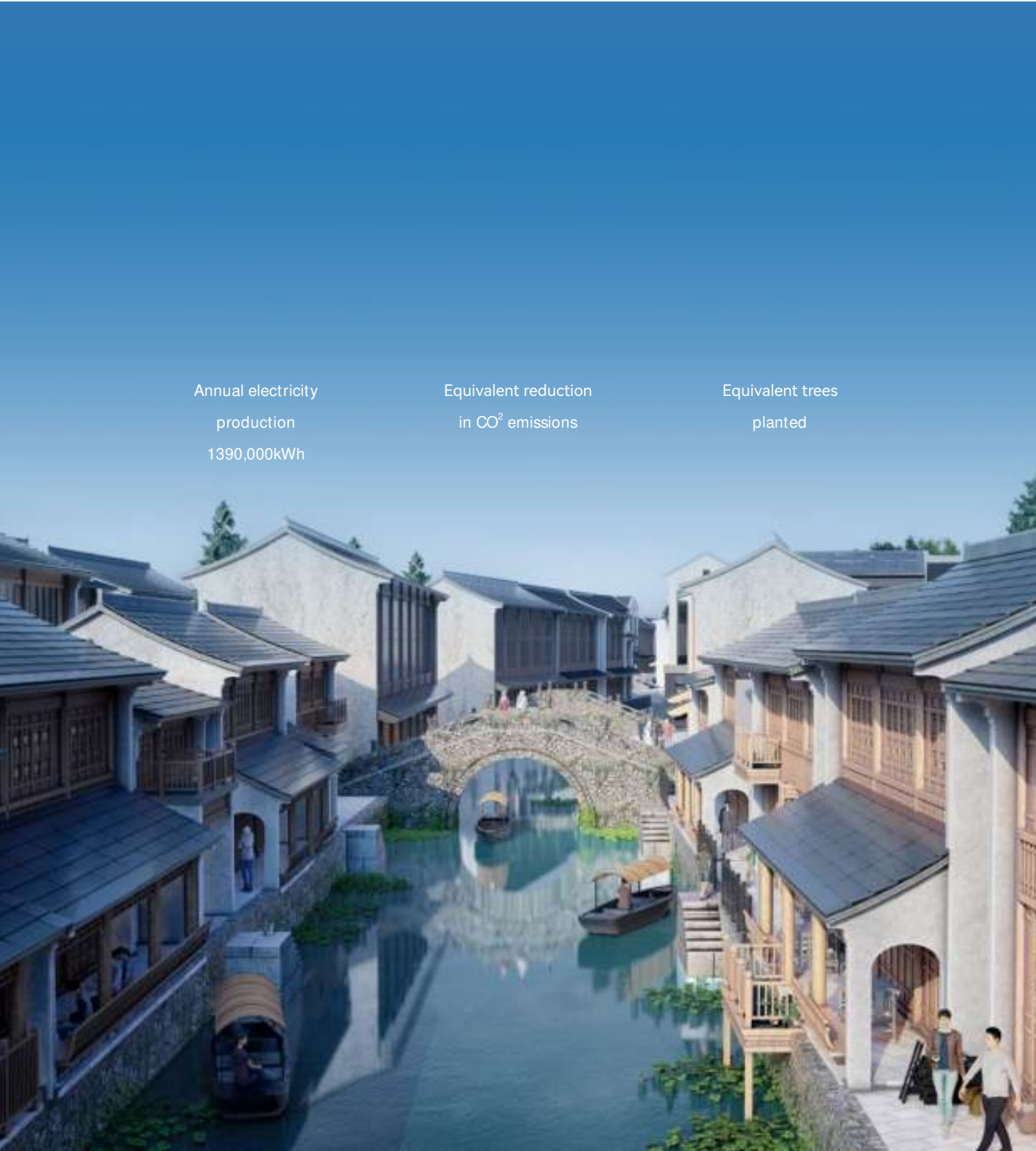
Fire and water
resistant
Safe and durable



Green power
sustainable
community

*The above figures are based on a 100kW public building roof solution. Average annual electricity generation may fluctuate due to weather and seasonal conditions and is for reference only.

Typical Application Scenarios



Annual electricity
production
1390,000kWh

Equivalent reduction
in CO² emissions

Equivalent trees
planted



Annual electricity
production 276,000kWh

Equivalent reduction
in CO² emissions

Equivalent trees
planted



Architectural photovoltaic
integration
Empowering architectural
styles



Simultaneous economical
and ecological development
Showcase cultural tourism



Clean energy town
Contributing to carbon
neutrality



Regional energy system
management
Demonstrat sustainable
innovation

*The above figures are based on a 1MW public building roof solution. Average annual electricity generation may fluctuate due to weather and seasonal conditions and is for reference only.



Net zero energy building
Achieving carbon
neutrality



UPS emergency power
Load electricity security



All-in-one design
Perfectly matching the
architectural style



Safe and reliable
Comparable to
building lifecycle

*The above figures are based on a 200kW public building roof solution. Average annual electricity generation may fluctuate due to weather and seasonal conditions and is for reference only.

