



**MAKE POWER
CLEANER AND SMARTER**



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YF V26.8

Fujian Yongfu Power Engineering Co., Ltd.

An aerial photograph of a dense forest with a winding asphalt road. The road is dark grey and curves through the green canopy of the trees. The trees are a mix of deciduous and coniferous, with varying shades of green. The lighting is soft, suggesting a slightly overcast day or early morning/late afternoon. The text is overlaid on the left side of the image, in a white, sans-serif font.

To Be An Internationally
Renowned Zero-Carbon Power Tech Company



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01

About Yongfu

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About Yongfu

Founded in 1994, Fujian Yongfu Power Engineering Co., Ltd. (Yongfu, stock code: 300712.SZ) strives to be an internationally renowned zero-carbon power tech company, with our mission "Make Power Cleaner and Smarter". Aligned with our new business strategy, we deliver exceptional power and energy solutions, products, and services that consistently create greater value for our clients.

Yongfu delivers full lifecycle services—from planning & consulting, investigation, survey, engineering design, EPC, smart operations to power trading. We provide integrated solutions across renewable energy, clean energy, energy storage and power grids, zero-carbon power systems, along with industry-leading distributed solar PV-energy storage products and digital & smart energy products. With over 1,800 employees, Yongfu operates in China and more than 20 countries worldwide.

Yongfu is a nationally recognized high-tech enterprise with top-tier qualifications across the entire power industry chain, including Class-A certifications in engineering design, investigation & survey, and power consulting. We've established key research platforms—Fujian Province Energy Transition and Sustainable Development Research Center, Fujian Province Electric Power Design Enterprise Engineering Technology Research Center, Postdoctoral Research Center and R&D Centers (i.e., Energy Research & Innovation Center, Energy Storage R&D Center, Offshore Wind Power R&D Center and Digital Technology R&D Center).

We develop cutting-edge technologies and products across offshore wind power, smart power grids, energy storage, digital & smart energy, distributed solar PV-energy storage and zero-carbon power systems, etc. Yongfu has contributed to over 80 national and industry standards and holds more than 380 invention and utility model patents. Yongfu has earned more than 300 national, provincial and ministerial-level awards in science, technology, and engineering—including the National Quality Project Award, the First Prize for the Fujian Science and Technology Progress Award. Our company has also been recognized as China's Excellent Survey and Design Enterprises, China's Top 10 Private Engineering Enterprises, Fujian Top 100 Innovative and Service-Oriented Private Enterprises, etc.

In this new era of green, sustainable, carbon-neutral development, Yongfu puts our clients' needs at the center of everything we do—delivering energy solutions and products that empower our clients' green development. Working together with our global partners—today and tomorrow—we drive innovation, build a smart zero-carbon ecosystem, and create a cleaner, smarter future.



China's First Power Survey and Design Enterprise Listed on A-Share Stock Exchange



China's Industry Leader Providing Power and Energy Solutions



China's Top Ten Private Engineering Design Enterprises



China's Outstanding Survey and Design Enterprises

VISION

To Be An Internationally Renowned Zero-Carbon Power Tech Company

MISSION

Make Power Cleaner and Smarter

CORE VALUES

Client First, Innovation,
Shared Success



Development Milestones



Global Presence

Our company is headquartered in Fuzhou, China, with subsidiaries and branches in both China and abroad.

5

Branches

10+

Main subsidiaries

20+

Joint stock companies

2

Marketing centers

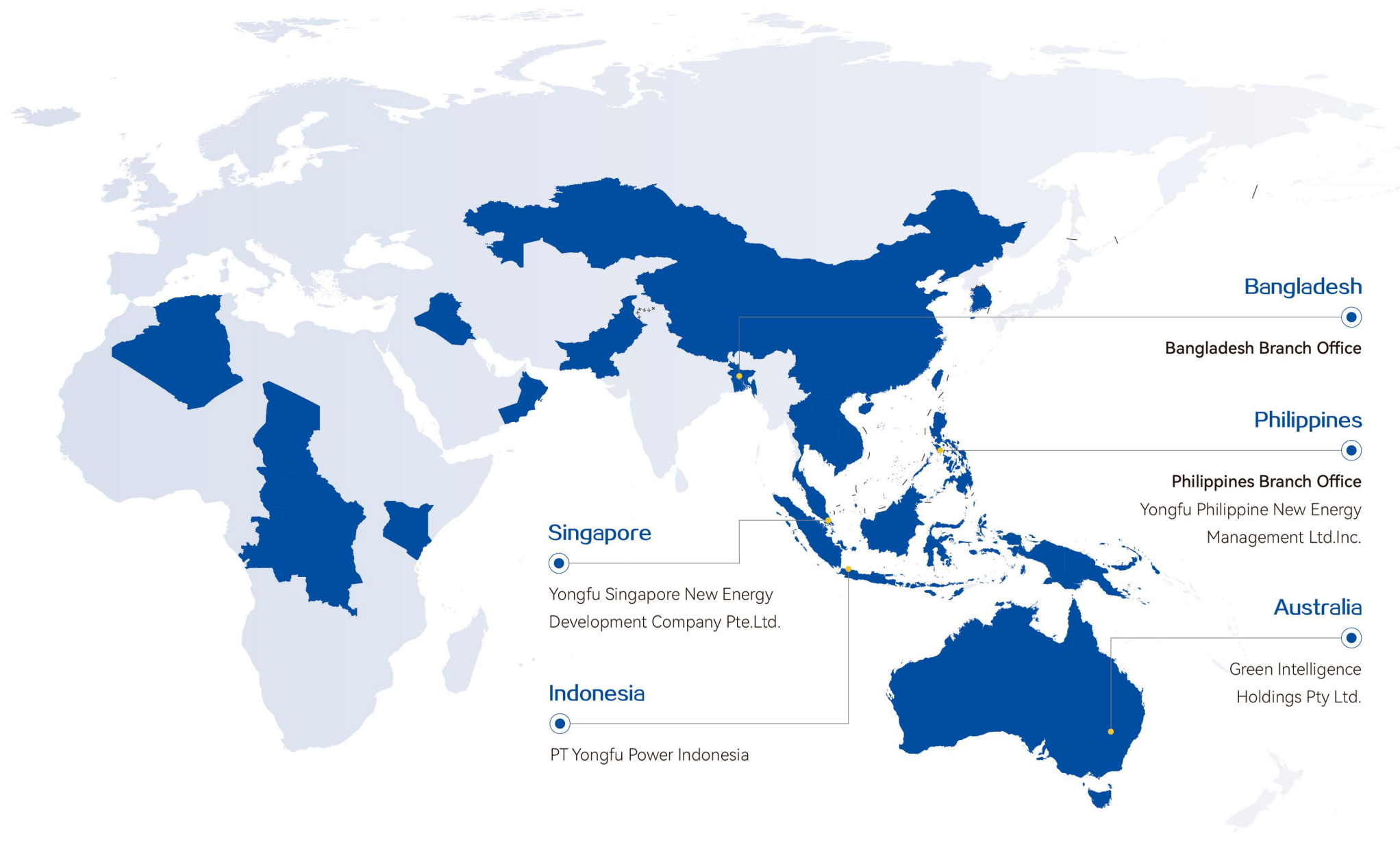
Our markets cover over 20 countries and regions worldwide.

Domestic

All provinces, municipalities, and autonomous regions in China except Hong Kong, Macau, and Taiwan.

Overseas

Malaysia	Korea	Singapore	Australia
Thailand	Philippines	Indonesia	Vietnam
Cambodia	Bangladesh	Pakistan	Central African Republic
Kazakhstan	Oman	Iraq	Papua New Guinea
Chad	Nepal	Kenya	DR Congo



Qualifications & Honors

Qualifications Covering Full Industry Chains in Power Sector

Class-A Engineering Qualification in Power Industry

Class-A Credit Standing of Engineering Consultants

Class-A Comprehensive Engineering Survey Qualification

Class-A Supervision Qualification for Electric Power Project

Class-B Qualification of General Contractor for Electric Power Project Construction

Qualification of Installation, Erection, Maintenance, Testing for Electronic Power Facilities

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Major Honors

China's Excellent Survey and Design Enterprises

National Survey and Design Industry Innovation-Oriented Enterprises

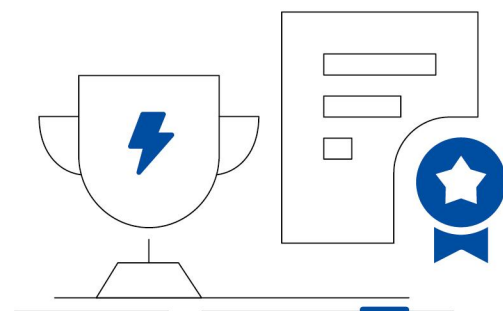
China's Top 10 Private Engineering Design Enterprises

May Day Labor Award of Fujian Province, China

Leading Enterprises with Offshore Wind Power Engineering Technology

Top 10 EMS Suppliers in China's Energy Storage Industry

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Class-A Engineering Qualification in Power Industry



Class-A Engineering Investigation/Survey Qualification



Certificate for China's Top-Tier Enterprise Accredited for Work-Safety Standardization



Class-A Supervision Qualification for Electric Power Project



Qualification of Installation, Erection, Maintenance, Testing for Electronic Power Facilities



Class-A Certificate of Credentials for Engineering Consulting



Special Equipment Production License (Pressure Pipeline Design)



Class-B Qualification of General Contractor for Electric Power Project Construction



ISO Management System Certification



China's Excellent Survey and Design Enterprises



National Survey and Design Industry Innovation-Oriented Enterprises



China's Top 10 Private Engineering Enterprises



China's Leading Enterprises with Offshore Wind Power Engineering Technology



Top 10 EMS Suppliers in China's Energy Storage Industry



National High-Tech Enterprises



Top 100 Innovative Private Enterprises in Fujian Province



Top 100 Private Enterprises in Service Industry of Fujian Province

R&D and Innovation

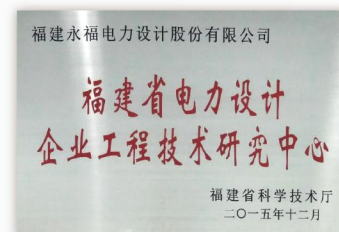
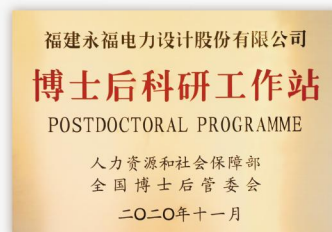
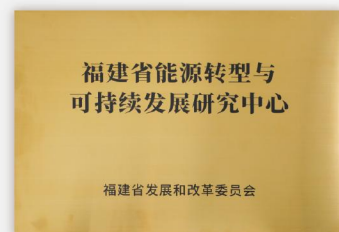
We have an R&D team comprising 450 engineers and research centers, including Fujian Energy Transition and Sustainable Development Research Center, Fujian Engineering Technology Research Center for Power Design Enterprises, Postdoctoral Scientific Research Workstation and R&D centers (e.g., Energy Research & Innovation Center, BESS R&D Center, Offshore Wind Power R&D Center, Digital Technology R&D Center).

We've been continuously developing cutting-edge technologies and products in fields such as offshore wind power, smart power grids, energy storage, digital and smart energy, distributed solar PV-BESS systems and zero carbon power systems. We've formulated or participated in the formulation of over 80 national and industry standards and we own more than 380 invention and utility model patents (including over 100 invention patents) and over 300 national and provincial/ministerial-level awards in science & technology and engineering design.

300+ National and Provincial-Level Science and Engineering Design Awards

First Prize of Fujian Provincial Science and Technology Progress Award
Gold Award of National Invention and Entrepreneurship Award
China Electric Power Quality Project Award
First Prize of China Electric Power Technology Innovation Award
Gold Award of National Quality Project Award
First Prize of "Golden Apple Award" for China Electric Power Science and Technology
First Prize of Excellent Engineering Design/Survey/Consulting in the Electric Power Industry
Gold Award of National BIM Technology Competition

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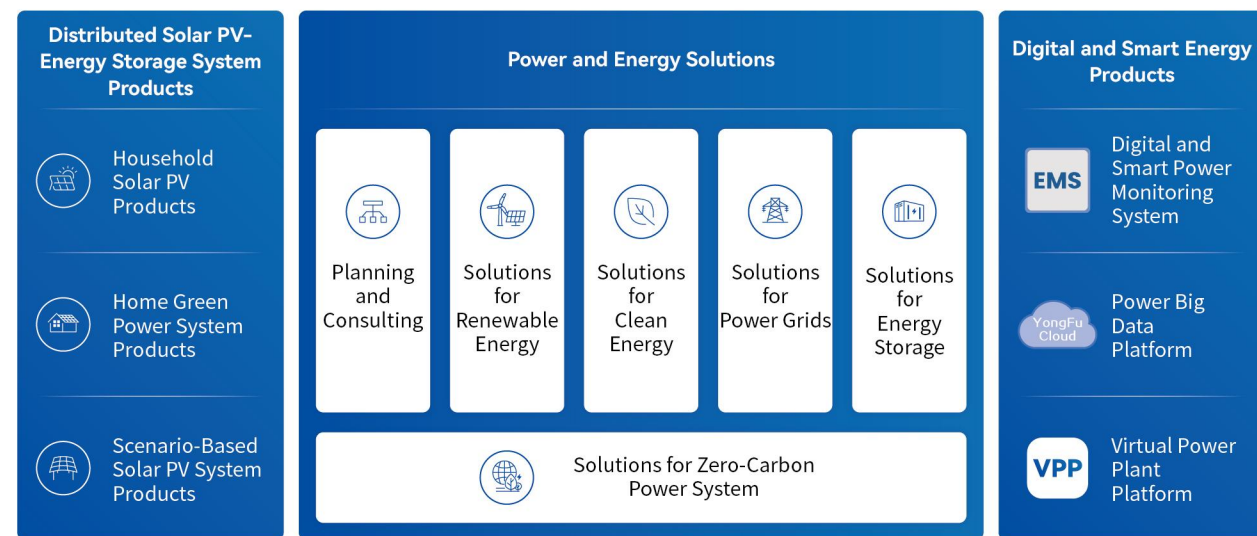
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Main Business

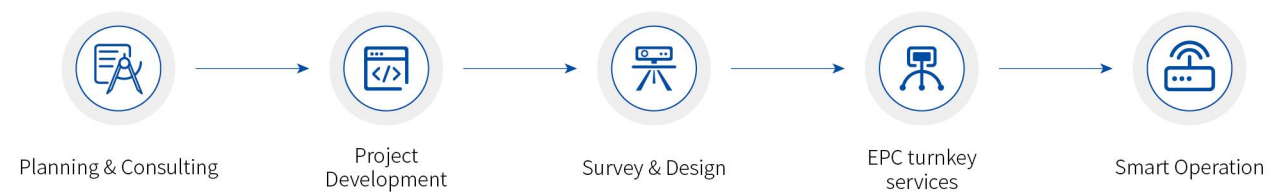
Our business portfolio covers Power Energy Solutions (for planning & consulting, renewable energy, clean energy, power grids, energy storage, and zero-carbon power system), Distributed Solar PV- Energy Storage System Products, Digital and Smart Energy Products, which develops a systematic zero-carbon power service capability that supports global green energy development, catering to clients' needs for zero-carbon power supply.



Business Capability

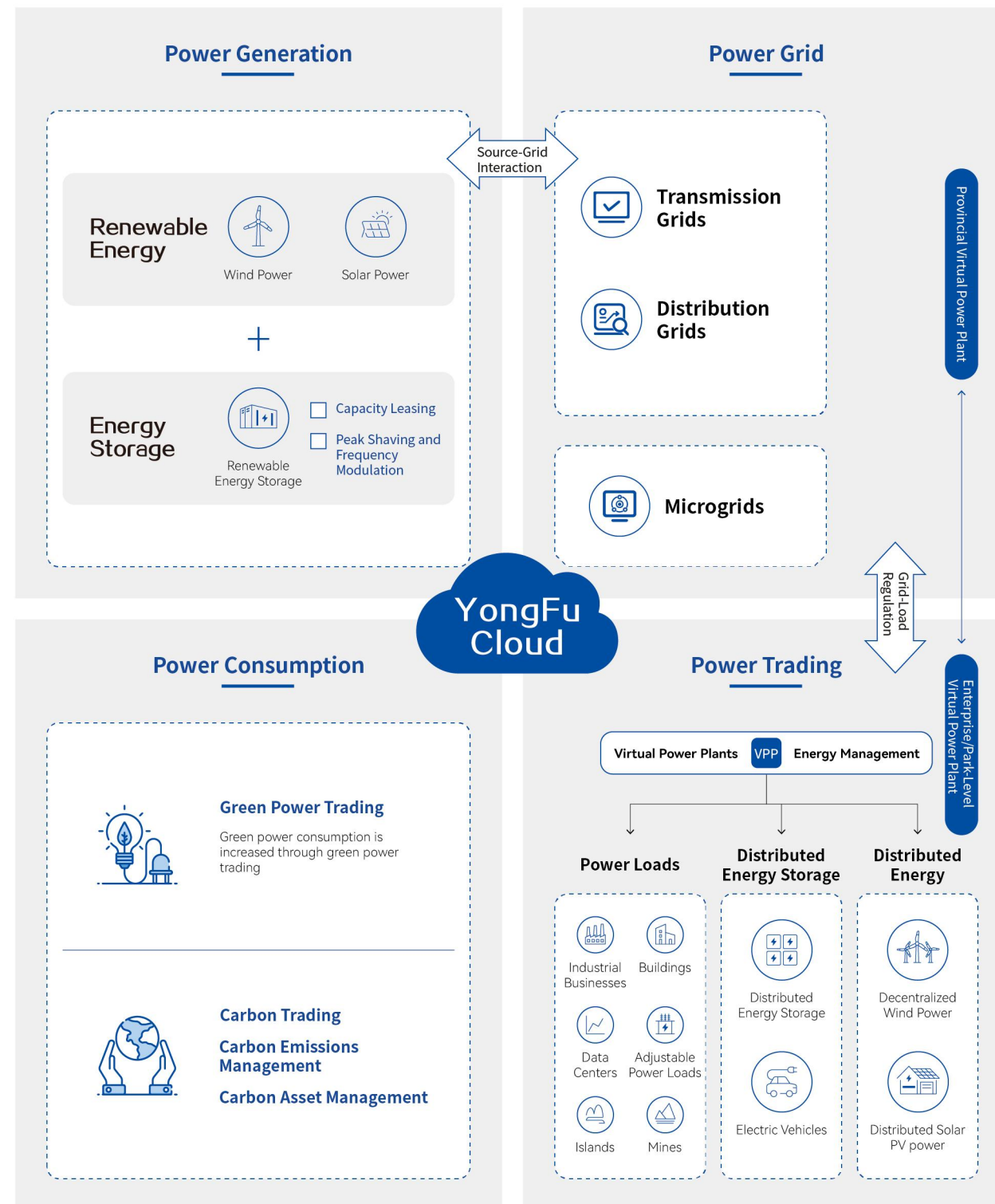
We possess the systematic service capabilities in zero-carbon power supply to underpin the green transition of the power and energy sector.

Full-cycle End-to-end, one-stop



All-scenario

Covering the new power system, digitally and intelligently connected for collaborative balance.



Power and Energy

Research & Consulting

Fujian Province Energy Transition and Sustainable Development Research Center established by Yongfu provides professional consulting services including industry research, development planning, and policy assessment, which is dedicated to supporting the development of a clean, low-carbon, safe, efficient and new energy system and to formulating and proposing strategies to governments, industries, and clients for their energy transition and sustainable development.



Research and consulting services on industry policies



Development planning for energy transition



Various development programmes

Government

Industry

Clients

Reference Projects

- › Development Plan for the Offshore Wind Power Industry in Fujian Province
- › Evaluation of Fujian Province's Time-of-Use Electricity Pricing Policy
- › Policy Consultation on Distributed Solar PV Development, Construction and Management in Fujian Province
- › Research on Development Foundation and Mechanism for New Electrochemical Energy Storage Stations
- › Analysis of New Energy Development and Consumption Trend
- › Construction Planning for Zero-Carbon Industrial Parks

Zero-Carbon Power System Planning

We deliver zero-carbon power system planning covering renewable energy, power grids, energy storage and smart operation for grid-tied and off-grid industrial parks and businesses, enabling high penetration of renewable energy and displacement of fossil energy, thereby holistically ensuring that we supply our clients with green, low-carbon energy that is safe, reliable, cost-optimal, smart and efficient.

Reference Projects

- › Zero-Carbon System Planning for the TFM Mining Area of CMOG in the Democratic Republic of Congo
- › Zero-Carbon System Planning for the Salim Group Data Center in Indonesia
- › Zero-Carbon System Planning for Tungkun in Indonesia
- › Planning of the Zero-Carbon Demonstration Project in Dalad Banner Industrial Park in China

Source-Grid-Load-Storage Project Planning

We provide our clients with one-stop professional planning and consulting services covering the entire process from submission of project proposals, preparation of planning documentation, handling matters related to authorizations, endorsements and certificates, feasibility study to pre-construction activities and we deliver comprehensive planning for diverse projects across renewable energy, energy storage, grid interconnection and SGLS integration, etc.

Reference Projects

- › Gansu Juhua Source-Grid-Load-Storage Integration Preliminary Consultation Services, China
- › Grid Planning Consultation on Sulawesi Island, Indonesia
- › Changle Offshore Wind Farm Cluster Planning and Preliminary Consultation Services, China
- › Gansu Juhua Yumen Nanshan 1GW Wind Farm Project Feasibility Study and Preliminary Consultation Services, China
- › Changle Smart Offshore Wind Power Innovation Demonstration Project Preliminary Development and Technical Consultation Services, China
- › Kamo-Kakula Microgrid Preliminary Consultation Services, DR Congo
- › Fuding B-2 Zone 700MW Offshore Wind Power Preliminary Technical Consultation Services, China

Solutions for Renewable Energy – Wind Power

We develop industry standards and have achieved multiple technology innovations

Yongfu has led the formulation of nearly 10 national and industrial standards, holds over 100 patents, and has also won the First Prize of the Fujian Provincial Science and Technology Progress Award.

We continuously innovate and have multiple advanced technologies

We own industry-leading fixed and floating foundation technologies, as well as advanced technologies for ultra-high concrete-steel towers, steel towers and truss towers.



Suction pile foundation



Suction anchor



Single pile foundation



Pile-type jacket foundation



Multi-pile cap foundation



Floating foundation



Offshore substation

We have a proven track record and multiple world records in offshore wind power projects

10⁺ GW

Onshore wind power installed capacity

6⁺ GW

Offshore wind power installed capacity

Reference Projects

1100MW Changle Offshore Wind Power Project (Zones ABC), Fujian, China

China's first offshore wind power project where large-scale suction bucket jacket foundations were adopted for the first time, setting multiple world records, i.e., the largest number of suction bucket foundations, the largest water depth, the highest foundation structure, the lowest steel consumption per unit and the fastest foundation penetration and installation speed



100MW Pingtan Offshore Wind Project, Fujian, China (EPC)

One of China's first batch of zero-subsidy offshore wind demonstration projects, innovatively applying suction bucket jacket technology to support the stable operation of the world's first 13MW wind turbine



Dongtou No.2 210MW Offshore Wind Power Project, Zhejiang, China (EPC)

Silt layer exceeds 60 meters, integrated solutions for four-pile jacket foundations were adopted



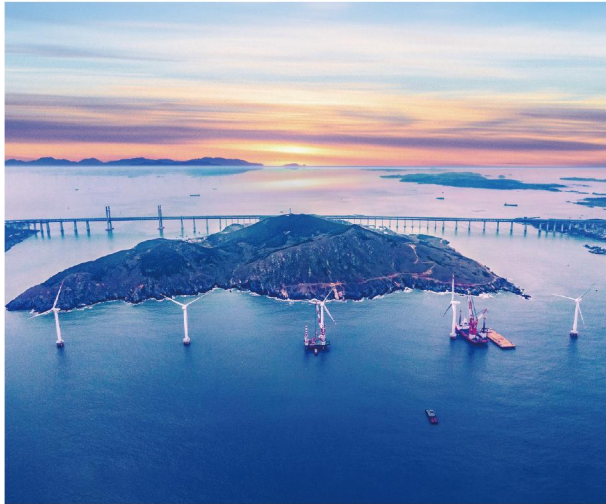
SAHA100MW/GOCHANG 76.2MW Offshore Wind Power Projects, Korea

Korea's first batch offshore wind power projects with adoption of China's suction bucket technology



CGN Dalian Offshore Wind Power Project, Fujian, China

The world's first offshore wind power project where monopiles were driven to 15 meters depth into highly weathered rock



33.5MW Pingtan Strait Offshore Wind Power Project, Fujian, China (EPC)

China's first distributed offshore wind power EPC project and the first "net-zero carbon" sea-crossing highway-railway bridge



Qingzhou Pilot Floating Offshore Wind Power Project (Phase IV), Guangdong, China

The world's largest floating wind turbine generator, with independently developed suction anchor technology receiving dual international DNV certification for design and construction



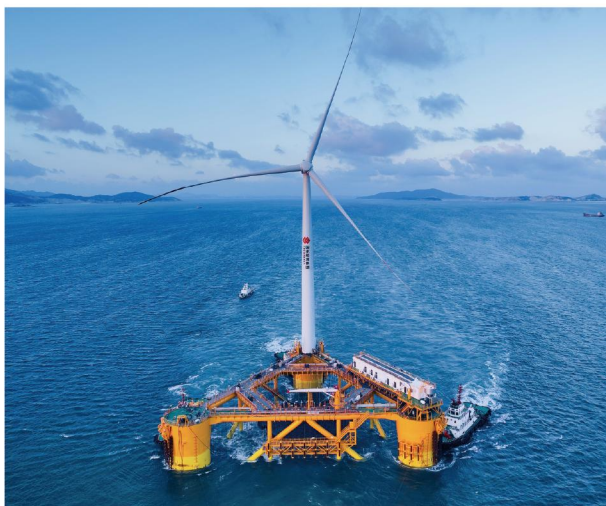
220kV Offshore Substation of Qingzhou IV Offshore Wind Power Project, Guangdong, China

Multi-disciplinary 3D digital design, achieving industry breakthroughs in compact layout and lightweight optimization for projects of comparable scale



CGE Jingxiang 210MW Onshore Wind Power Project, Shandong, China (EPC)

It is a key renewable energy project under Shandong's 14th Five-Year Plan, innovatively adopting a multi-turbine mix and 160-meter steel-concrete tower technology to maximize wind energy utilization efficiency



Longyuan Power (CHN Energy) Pilot Floating Offshore Wind Power & Fishery Hybrid Project, Fujian, China

The world's first floating offshore wind power and deep-sea aquaculture hybrid project



Zhangpu Offshore Wind Farm Met Mast, Fujian, China

Solution for globally leading recyclable suction pile mast is adopted for this project



CGE Fengxin County 100MW Wind Power Project, Jiangxi, China (EPC)

The customized low-wind-speed turbines and 160-meter high steel-concrete tower, significantly enhanced energy capture efficiency in low-wind-speed regions



70MW Gaoyushan Wind Farm Project, Fujian, China (EPC)

Fujian's first large-scale wind power project, overcame the constraints of the complex terrain in hilly areas, generation hours are at the top levels for China's mountainous wind farms

Solutions for Renewable Energy – Solar PV Power

Covering multiple scenarios



Ground Solar PV



Mountain Solar PV



Floating Solar PV



Distributed Solar PV



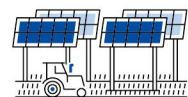
Offshore Solar PV

10⁺ GW

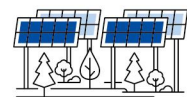
Installed Capacity

- Large-span flexible PV mounting system
- Highly corrosive floating solar PV project built in coal mining subsidence areas
- Solar PV project built in large slope mountainous land

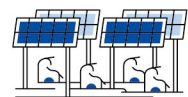
Hybrid Solar PV Generation



Agrivoltaics



Forest-photovoltaics



Pastoral-Photovoltaics



Fishery-Photovoltaics

Reference Projects



Mountain Solar PV

200MW Photovoltaic and 80MW/80MWh Energy Storage System in Morowali Industrial Park, Sulawesi, Indonesia (EPC)

The current largest solar PV and energy storage project in Indonesia



Ground Solar PV

50MWac Mymensingh Solar PV Project, Bangladesh (EPC)

The benchmark solar PV project in Bangladesh, receiving high recognition from the Government of Bangladesh



Ground Solar PV

Manah 500MW Solar PV Project, Oman

The first large-scale flat desert solar PV project in the Middle East, solved Oman's tough technical challenges, innovative solutions have reduced site grading works by 80%



Ground Solar PV

49MW Ham Kiem Solar PV Power Project, Binh Thuan, Vietnam (EPC)

It took only 126 days from construction commencement to grid connection, setting the record for the shortest construction period for solar PV project in Vietnam


 Ground Solar PV

20.69MW Ecopark Valenzuela Grid-Connected Solar PV Project, the Philippines (EPC)

The solar PV project that was built using Philippine standards to improve local residents' livelihoods


 Mountain Solar PV

Kuala Ketil 50MW Solar PV Project, Malaysia (EPC)

One of Malaysia's largest solar PV plants in the year of commercial operation and a model clean energy project under the "Belt and Road" Initiative


 Floating Solar PV

CGE Shiqiao Town, Taibai Lake New District 220MW Offshore Photovoltaic Project, Shandong, China (EPC)

China's largest fishery-solar PV hybrid project built in coal mining subsidence areas using flexible mounting systems


 Floating Solar PV

CGE Yanzhou 250MW Solar PV Project (Phase I), Shandong, China (EPC)

The largest floating solar PV project built in coal mining subsidence areas in Shandong Province, China


 Offshore Solar PV

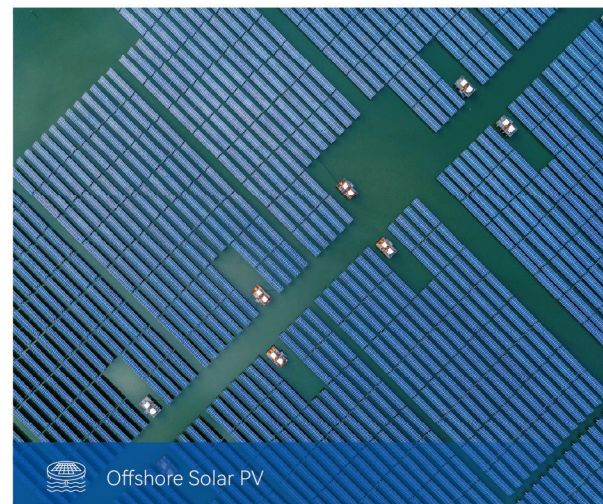
CTG's Dongshan Xingchen 180MW Offshore Solar PV Project, Fujian, China

China's first offshore solar PV demonstration project built in high-wind-speed sea area and the first offshore solar PV project built in Fujian Province


 Distributed Solar PV

Hengshen Group 43MW Distributed Solar PV Project, Fujian, China (EPC)

A low-carbon energy transition benchmark project built in a textile industrial park, innovatively using chemical anchor bolt mounting technology, ensuring safe and high capacity arrangement of rooftop solar PV panels


 Offshore Solar PV

Huadian Group Lianjiang Kemen Development Zone (Western Zone) Flood Detention Area 200MW Offshore Solar PV Project, Fujian, China (EPC)

The largest offshore solar PV project built in Fujian Province, China


 Distributed Solar PV

CHN ENERGY Ningdong Thermal Plant Mine 5.1MW Distributed Floating Solar PV Project, Ningxia, China (EPC)

The first distributed floating solar PV project built in mine in Ningxia, China

Solutions for Clean Energy

- › Gas power plant with gas turbines from light aero-derivative gas turbine to Class E/F/H/J heavy gas turbines.
- › Engineering design for the fourth-generation conventional nuclear power islands in China and abroad.
- › Top technology for integrated multiple-platform digital power plant engineering.
- › Global brand heavy gas turbines (i.e. SIEMENS, GE, MHI, ANSALDO, ALSTOM).
- › Application of ASME, IEC, NFPA, BNBC standards

110+

Gas turbines

10⁺ GW

Nuclear power
conventional island
projects

Euphrates Gas Turbine Power Plant SC-to-CC Rehabilitation Project, Iraq

One gas (oil)-fired gas turbine was upgraded to gas-steam combined cycle turbines to support local economy development



Lupsha 800MW CCGT Power Plant, Bangladesh

It is Bangladesh's largest gas turbine power plant, the first one employing air-cooled condensers and achieving zero liquid discharge for the entire plant

Reference Projects



Yangjiang Nuclear Power Plant Conventional Island BOP Project, Guangdong, China

China's largest nuclear power project, adopting indigenous CPR1000 nuclear power technology. Yongfu provides BOP design and technical services for the conventional island



Karachi K2/K3 Nuclear Power Plant Conventional Island BOP Project, Pakistan

It is a "Belt and Road Initiative" flagship project, adopting China's indigenous third-generation "Hualong one" nuclear power technology. Yongfu provides BOP design and technical services for the conventional island



Sihui 2x400MW Combined Cooling Heating and Power Project, Guangdong, China

It is the gas-fired project for which the first Ansaldo AE943A gas turbine was imported from Italy to China



Huadian Jiangmen Combined Cooling Heating and Power Project, Guangdong, China

It is the first CCHP power plant built in China's Jiangmen city in Guangdong Province, successfully achieving mastery of key technologies for small-scale F-class gas turbines

Solutions for Power Grids

► We have advanced expertise in engineering of power transmission lines and substations, power transmission/distribution grids, power internet and broad experiences in engineering and construction management with our business covering the entire voltage levels ranging from 220V to $\pm 1100\text{kV}$.

► Yongfu is the only private enterprise in China who provides survey and design services for UHV power transmission and substation projects.

9000⁺ km

220kV TL

250⁺

4 Ultra-High Voltage (UHV) substations
Substations (220kV, 330kV, 500kV etc.)

4000⁺ km

330kV, 550kV TL

1800⁺ km

UHV TL works include $\pm 1100\text{kV}$, $\pm 800\text{kV}$ DC TL,
1000kV AC TL

Reference Projects

Fuzhou~Xiamen 1000kV (AC) UHV Power Transmission Project, Fujian, China

The UHV power transmission project in China for which large-scale mechanized construction was applied in mountainous terrain for the first time and double-circuit angle steel towers were adopted



Changji-Guquan $\pm 1100\text{kV}$ UHV/DC Transmission Line Project, China

The UHV power transmission project with the highest voltage level, largest transmission capacity, the longest distance and the most advanced technology in the world



Hami-Chongqing $\pm 800\text{kV}$ (DC) UHV Power Transmission Project, China

China's first commissioned UHV DC power transmission project evacuating electricity from Gobi desert renewable energy base to Southwest China



Changtai 1000kV Substation Project, Fujian, China

The second UHV substation project in Fujian Province, China, which was granted the title of 2025 China's high-quality electrical power project



Zhangzhou Nuclear Power Plant 220kV Transmission Line Project, Fujian, China

A BOP project for "Hualong one" nuclear power plant



NGCP 230kV Lumban Substation Main Transformer Upgrade Project, South Luzon, the Philippines (EPC)

A regional hub substation upgrading project, adding 100MVA transformer capacity to meet renewable energy demand in southern Luzon, the Philippines, serving as model of international cooperation for renewable energy project



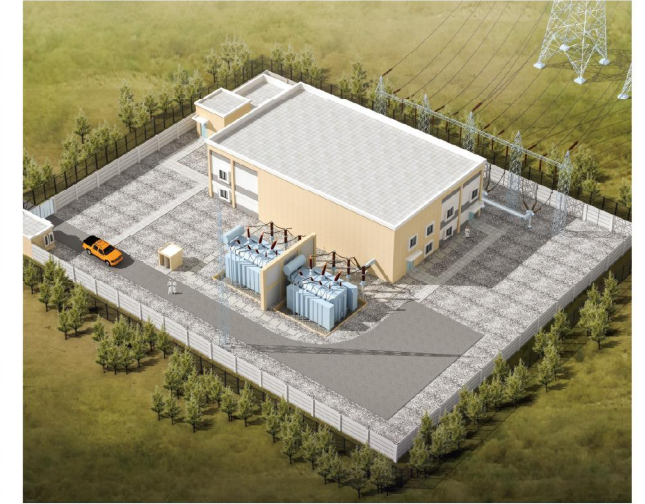
Yazhong 500kV Substation Project, Xizang, China

It is one of the Central Xizang grid interconnection projects that has the highest altitude, the largest altitude range and the most complicated natural conditions



Huatang-Zhuyu 220kV Transmission Line, Fujian, China

It is a transmission line project that high-voltage cable was laid for the first sea-crossing bridge built in Fujian Province, which received the first prize for Outstanding Engineering Consulting Achievements Award in Electric Power Industry



Missan Oilfield 132kV Power Transmission and Substation Project, Iraq

The substation shown in the photo is the first 132 kV digital substation built in Missan Oilfield, Iraq.



Taoyuan 500kV Power Transmission Project, Fujian, China

It is a 500kV substation that is designed using 3D digital technology, which was awarded top prize in "Modeling Master Cup" National BIM Modeling Competition and gold prize in "Youlu Cup" National BIM Technology Competition



Xiamen +320kV Pilot Flexible DC Power Transmission Project (DC Cable Package), Fujian, China

It is the world's first flexible DC power transmission project where true bipolar wiring was adopted with voltage and capacity reaching highest international standards and it received the first prize of National Excellent Engineering Consulting Achievement Award and the first prize for Excellent Engineering Consulting Achievement in Electric Power Industry



Minguang 220kV Power Transmission and Substation Project, Fujian, China (EPC)

It is a key infrastructure for Luoyuan Minguang Steel Capacity Replacement Project



Yukun Steel Plant TL & Substation Project, Yunnan, China (EPC)

It is the "top priority" project for Yukun Steel's green power transformation, a total of 26 power transformers of eight 110kV substations and one 220kV substation were commissioned in 13 months

Solutions for Energy Storage

We provide solutions for power plants, power grids and individual users and offer clients with services such as energy storage policy research, business model innovation, survey and design, whole-process consulting, EPC, and smart operation.



Generation-side
Energy Storage

Grid-side
Energy Storage

User-side
Energy Storage

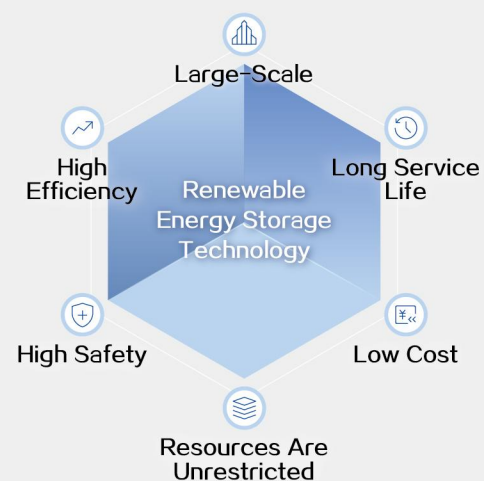
Electric vehicle
Energy Storage

Microgrid
Energy Storage

Hybrid
Energy Storage

Virtual
Energy Storage

Low-altitude
Energy Storage



Source-Grid-Load-Storage Project Planning

Breakthroughs in key energy storage technologies including: centralized, distributed, hybrid centralized-distributed, AC and DC direct-connection systems; possessing world-leading grid-forming technology including: HV cascading topology, AC-ESS, DC-ESS, and integrated PV-ESS PCS system.

Solutions for High-Voltage, High-Capacity DC Direct-Connection Grid-Forming Energy Storage

Grid-forming Active Support

The parameters are flexible and grid-adaptive, supporting 100% stable operation of renewable energy in isolated grids.

Flexible DC Decoupling Technology

Helping clients build the world's largest direct-connection energy storage system to support gigawatt-scale construction.

Full Coverage of Scenarios

Industrial park green power direct supply, high-altitude photovoltaic-storage synergy, off-grid power supply for zero-carbon mines.

Breakthrough in Direct Supply of Green Power

Green electricity accounts for 80%, empowering high-energy-consuming industries such as steel and mining to achieve low-carbon energy transformation.

Solutions for Single-Story Station Electrochemical Energy Storage Layout

Intensive Smart Design

Compared to traditional methods, land use is saved by **25%**.

Modular Design

Adapt to battery upgrading, the cost per kWh is reduced by **20%**.

Liquid Cooling Smart Operation and Maintenance

Hidden risks are lowered by **90%**, stable operation for 20 years.

Verification of Largest Station

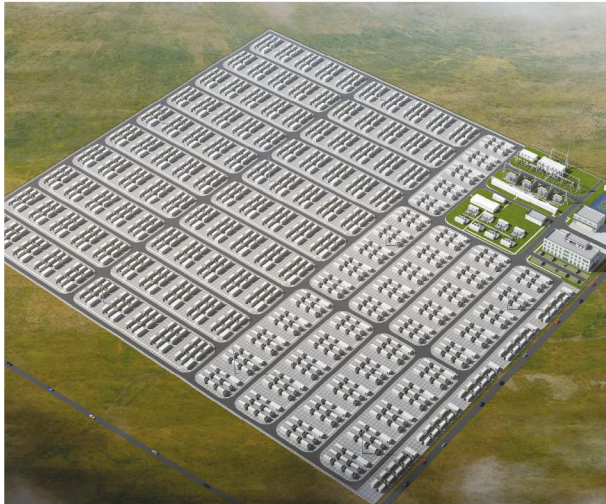
200MW/400MWh global benchmark verification

Reference Projects

Huaneng Beifang Shangdu 200MW/400MWh BESS Plant, Inner Mongolia, China

The world's largest single-layer containerized energy storage power station, utilizing centralized liquid cooling and multiple technology lines, significantly improving conversion efficiency and reducing energy losses





Ulanqab-Chayouzhong Banner 1000MW/6000MWh Energy Storage Plant, Inner Mongolia, China

The world's largest on-going utility-scale energy storage project, with exceptional adaptability to extreme environments (extremely low temperature, intense sandstorm erosion)



SG-CATL Huadian Datong 150MW/300MWh Energy Storage Plant, Shanxi, China

Full-process consulting services for the largest lithium battery energy storage power station in Shanxi, China, featuring the pioneering 40-foot liquid-cooled container solution and model for old power plant renovation



Guazhou 750MW/2100MWh Energy Storage Plant, Gansu, China

China's largest energy storage project designed with wide temperature range, large temperature difference adaptability and high protection class to effectively withstand harsh Gobi desert conditions



Xiamen Energy Storage Demonstration Platform Grid-Connected Building Energy Storage Equipment 25MW/50MWh Project, Fujian, China (EPC)

The energy storage R&D, testing and empirical R&D and innovation platform and energy storage demonstration project, featuring the first application of 45kV electronic power devices of high voltage AC cascaded technology



State Grid-CATL Ningde Xiapu 100MW/200MWh Energy Storage Plant, Fujian, China

China's first GW-level energy storage project employing multi-story containerized station, single-layer valve hall and DC ESS technology



SDIC POWER NIMA 50MW Solar PV & Energy Storage Project, Xizang, China

The first high-altitude (4600m) solar PV-energy storage demonstration project in Xizang, China, employing grid-forming technology to active grid support and alternative reliable renewable energy option



SDIHG Baiying Jingtainan 110MW/440MWh Energy Storage Plant, Gansu, China

An energy storage demonstration project in Gobi desert environments, solving challenges for wind power grid integration through adaptation to wide temperature ranges, high temperature difference and high protection design

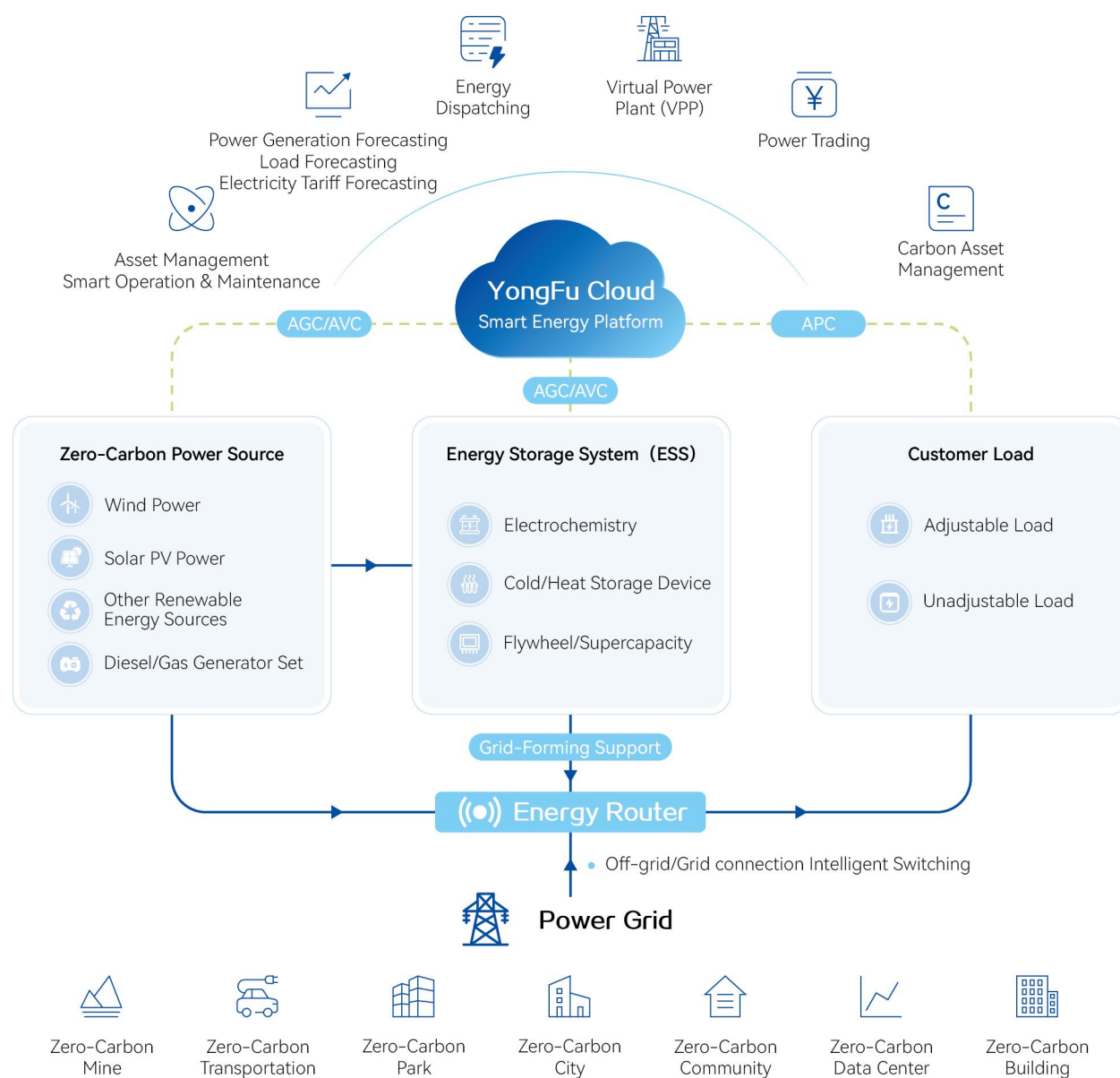


Zhongya Tech 60.192MWh Energy Storage Plant, Sichuan, China

A commercial & industrial energy storage project equipped with 314Ah battery cells and hybrid-cooled outdoor integrated cabinets

Solutions for Zero-Carbon Power System

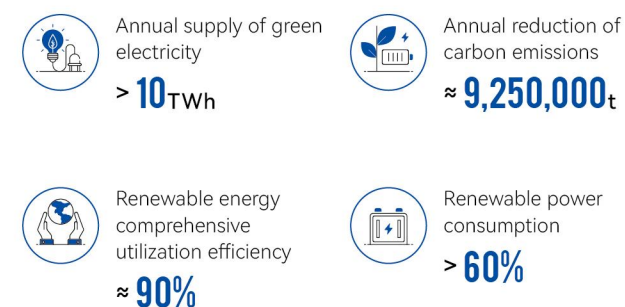
We deeply integrate our technical strengths in power system planning, renewable energy, power grids, energy storage and smart operation to provide our clients with solutions for integrated zero-carbon power systems of “power generator, power grid, power load, energy storage and smart operation”, enabling our clients to achieve energy management objective for a safe, reliable, optimal cost, green, smart, and efficient zero-carbon power system.



Reference Projects

We promote green and low-carbon transformation and development for China's large industrial businesses

Juhua Group Integrated Power Project (Source-Grid-Load-Storage)



Yongfu accurately leverages national renewable energy policies and clients' electricity demands to provide a customized integrated solution for "Source-Grid-Load-Storage" project for Juhua Group, achieving smart energy management across the entire plant. This solution has significantly enhanced energy efficiency, reduced carbon emissions, and delivered notable economic benefits, establishing a benchmark case for energy transition in chemical industry.

We help build green and zero-carbon demonstration parks

Solutions for Power System Project in Tsingshan Industrial Park, Indonesia

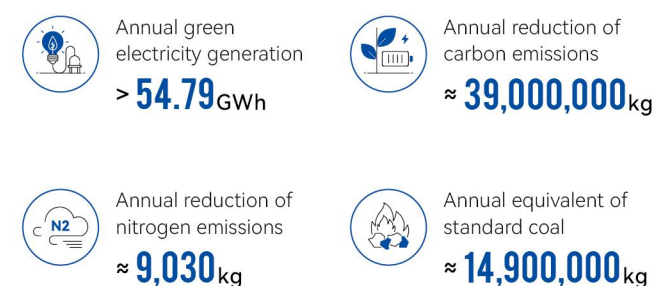
Reference Projects

- ▶ Morowali 255MWp/200MW Solar PV Power Plant and 80MWh/80MW Energy Storage System Project, Indonesia
- ▶ Distributed Photovoltaic Project of PT Dexin Steel Co., Ltd., Indonesia
- ▶ Panoramic Visual Smart Operation & Maintenance System of No.3 150kV Substation in Tsingshan Weda Bay Industrial Park, Indonesia
- ▶ ...

Yongfu provides power system solutions for large-scale integrated industrial parks of Tsingshan Group, covering power system planning, solutions for power grids, solar PV and energy storage system and digital & smart products, etc., enabling Tsingshan Group to achieve the goal of optimization of energy structures, improvement of energy efficiency, carbon reduction, promoting green sustainable development.

We help major clients to build carbon-neutral industrial parks

Smart Microgrid Project in Offshore Wind Power International Industrial Park, CTG (Fujian)



With advanced smart microgrid technology, Yongfu leverages the abundant wind and solar resources in Fujian, China to build an integrated clean and user-friendly microgrid system for our clients. This system combines wind power, solar PV power generation, energy storage and load control, significantly enhancing the park's energy efficiency and power supply stability while promoting smart low-carbon operation. The solution delivers both environmental and economic benefits, serving as a benchmark for green transformation in industrial parks.

Distributed Solar PV and Energy Storage System Products

We're deeply engaged in the field of distributed green energy, integrating solar PV, energy storage and smart energy management to deliver efficient solar PV-energy storage systems and smart O&M services for homes, residential communities and public spaces, promoting livelihood improvement and rural revitalization and helping customers use green power efficiently and easily and enjoy a zero-carbon smart lifestyle.



Fully Assembled Technology

Industry-first fully assembled bracket system for solar PV power stations perfectly integrates performance, safety and aesthetics with exceptional quality and simplified installation efficiency.

Scenario-Based Innovation

Driven by scenario-specific needs, product R&D and innovation perfectly integrate solar PV generation with product functions, enhancing green energy benefits, spatial quality, and socio-environmental values while fulfilling user requirements.

Full-Stack Integration

Technical analysis and system integration are conducted for "power generation-energy storage-power load" system, achieving deep integration and full compatibility of power generation, energy storage and electrical equipment, promoting high-level synergy of smart energy management and energy usage methods and maximizing overall system efficiency and smart synergy.

Smart Operation

We provide full lifecycle smart operation for power plants, with real-time monitoring of system operation and energy revenue status, proactive diagnosis, efficient O&M services to ensure safety and maximize power generation benefits for power plants in full lifecycle.

Household Solar PV Products

We deliver investors the industry's pioneering fully assembled household rooftop solar PV products (welding-free, waterproof, large span, high ceiling, spacious, aesthetically pleasing, safe, and stable) that can withstand Super Typhoon (Level 16, with maximum sustained winds of 51-56 m/s); installation can be completed in 16 hours. Four product types include rooftop solar PV canopy, north-south sloped rooftop solar PV, rooftop solar PV array and courtyard solar PV system. These products are fully compatible with various installation scenarios, including flat rooftops, flat rooftops with staircases, staggered flat rooftops, various sloped rooftops and ground courtyards, reshaping rural landscapes through energy technology.

We've innovatively launched leasing model where "users receive rent and solar PV systems are built by investors." Over 20,000 household solar PV products are under smart operation through large scale development, which creates a multi-winning business ecosystem involving investors, farmer households, government organizations, franchisees and operators.

Four Products



Smart Operations

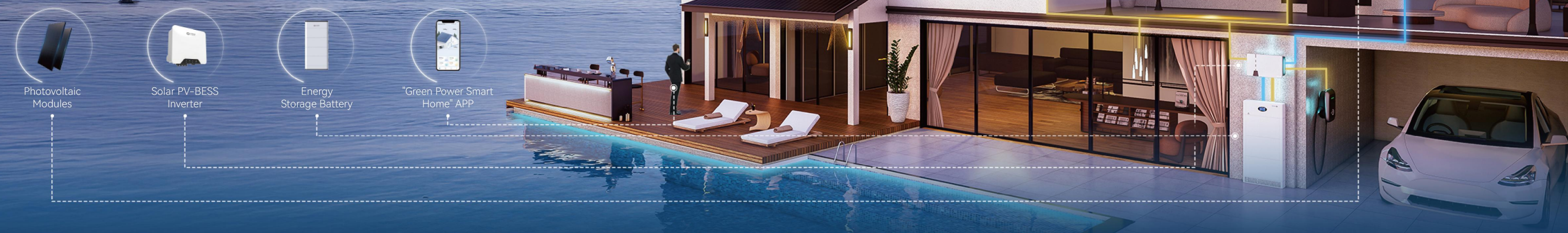
Full-Spectrum Data Surveillance, Holistic Status Monitoring: Through full-spectrum real-time data and status surveillance, visible operation, measurable performance and estimable revenue are achieved, which enables our clients to precisely control holistic plant conditions.

AI Diagnosis, Quick O&M Response: Smart operation platform automatically identifies underperforming plants, performs AI diagnosis and autonomous order dispatch, delivers 24/7 predictive alerts, proactive operation and maintenance, minute-level operational response, maximizing power generation output and clients' returns.



Home Green Power System Products

We provide high-net-worth families (e.g., high-end property owners) with low-carbon, safe, convenient, smart and cost-effective home green power system products to address pain points such as high electricity cost, green power demand, living space upgrading, and enhanced environmental awareness. Solar PV-energy storage system is connected to home devices to achieve effective synergy.



Product Series



Multi-Functional Solar PV Sunroom



Sloped Rooftop Solar PV Series



Balcony Solar PV Series



Household Energy Storage Product Series

"Green Power Smart Home" APP

Energy Ledger, Instant Insights

Visually intuitive interface with frictionless operation, holistically displaying real-time status, e.g., solar PV power generation, household energy consumption and BESS charging/discharging output. Energy revenue and electricity costs are explicitly presented.

Smart Diagnosis, Effortless Safety

24/7 monitoring, smart diagnosis, automatic fault alarm and one-touch alert ensure instant fault response, efficiency and convenient services, worry-free use of electricity.



Smarter Mode, Smarter Saving

An APP is built in with multi-operation modes, e.g., Economy Priority, Self-Consumption, Peak-Valley Arbitrage and Safe PowerSave, supporting both manual selection and smart optimal strategy matching for effortless savings.

Proactive Care, Worry-Free Energy Usage

Multi-dimensional information alerts include electricity safety warning, weather forecasts, electricity usage behavior and cost-benefit analysis, alongside regularly generated energy consumption reports. The APP fosters community sharing of energy usage and energy-saving experiences, enabling users to build a green, low-carbon lifestyle together.

Scenario-Based Solar PV System Products

We promote the integration of solar PV technology with specific scenarios to develop multifunctional green infrastructures that combine utility, power generation, and aesthetics. In addition to generating power, our solar PV systems fully preserve the original functions of sports, transportation, and cultural tourism facilities, while increasing power generation revenue, achieving green and low-carbon, and maximizing the efficiency of land and space utilization. Current applications include solar sports courts, solar carports, transit hubs, and rural cultural tourism landscapes.

Solar Sports Courts



Product Features

- ▶ Pioneering arched dome
- ▶ Standardized and prefabricated products, on-site welding-free
- ▶ Fully waterproof structure, ultra-convenient operation and maintenance
- ▶ Modular assembly, installation can be completed in just 5 days
- ▶ Large span, high ceiling, suitable for a standard basketball court

Solar Carports



Digital and Smart Energy Products

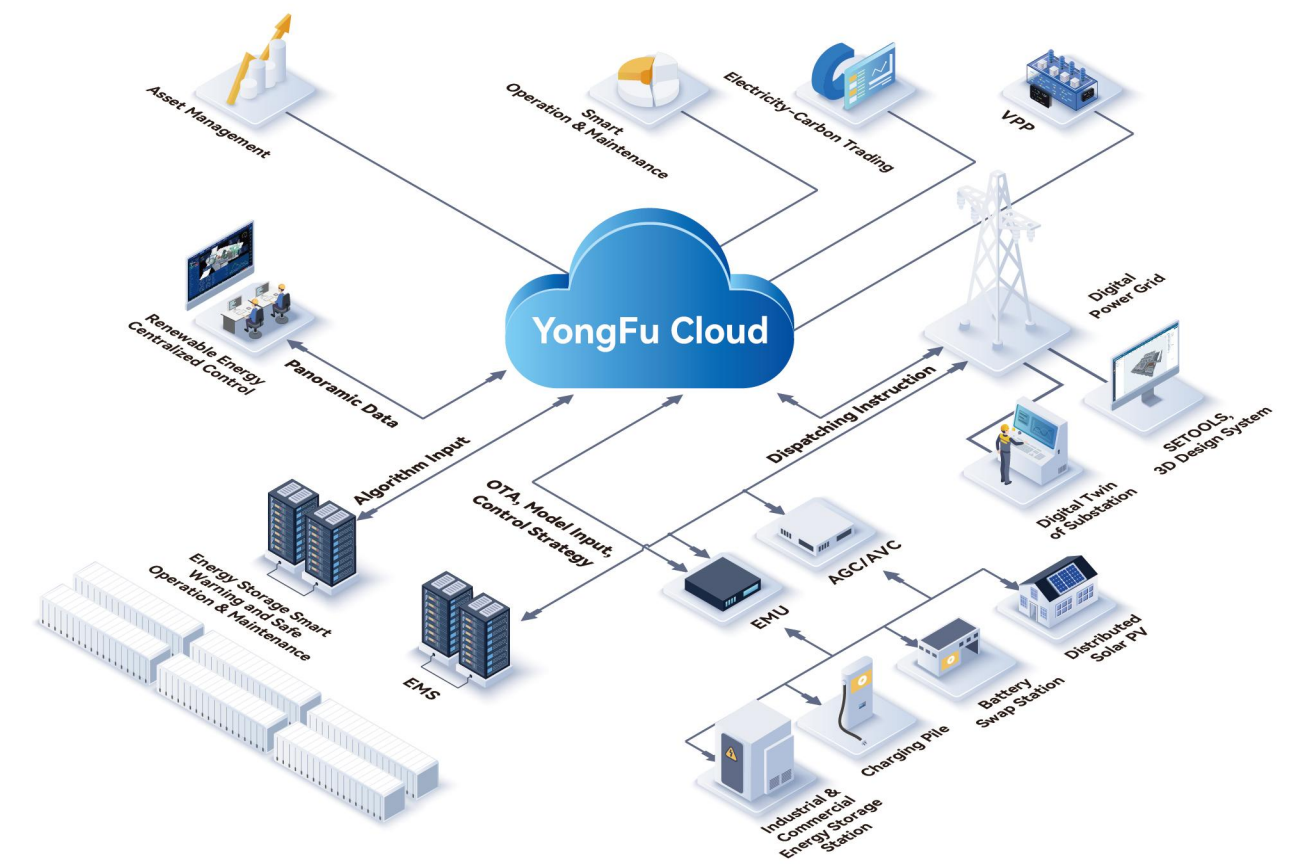
Focusing on "Digital Energy Storage, Digital Renewable Energy, and Digital Power Grids", we've deeply integrated cutting-edge digital and smart technologies such as power monitoring, big data, artificial intelligence, IoT, and 5G, independently developed Virtual Power Plant Platform, EMS Energy Management System and "Yongfu Cloud" Energy Big Data Platform, providing our clients with smart solutions and innovative products tailored to diverse application scenarios, including renewable energy, energy storage, power grids, and integrated "Source-Grid-Load-Storage" system.

End-to-Cloud Full-Stack Application

Independently developed S5000 power monitoring platform, SEedge station-edge platform, and SEfoundation smart energy big data based platform that combine with diversified smart terminal devices achieve an end-to-cloud full-stack application, providing comprehensive digital support for power systems.

"AI+" Empowers Product Value

Deep integration of AI, big data analysis and digital twins enhances safety, reliability and efficiency of power systems through data analysis, smart prediction and optimized control, enabling more precise and smarter data-driven decision-making.



Digital and Smart Power Monitoring System

By integrating technologies in engineering, monitoring systems, IT and Artificial Intelligence, we've developed an industry-leading digital smart monitoring system product matrix. Our industry-leading energy storage monitoring and energy management system (EMS) realizes optimized energy dispatching of energy storage plants and coordinated control of wind power, solar PV and energy storage systems. Smart battery early warning, safe operation and maintenance system is equipped to ensure precise control of every kilowatt-hour of electricity and to improve operational efficiency and safety level simultaneously.



Energy Storage Monitoring and Energy Management System

- › Robust distributed application system
- › Support multiple homegrown open-source operating systems and databases
- › Flexible human-machine interface
- › Leading control efficiency and precision
- › Visualized fault handling and O&M system



Industrial and Commercial Energy Storage Cloud-Edge Collaborative EMS

- › Modular hardware + configurable design, plug-and-play
- › Flexible multi-unit cabinet integration, easy installation and commissioning
- › Cloud-edge-device monitoring, real-time system status tracking
- › AI-powered smart management, enhanced operational efficiency



Microgrid Management Platform

- › Real-time operation data collection with control functionality
- › Real-time equipment status monitoring, data diagnosis and analysis
- › Diversified and flexible graphic editing capabilities
- › System control strategy supports four modes to reduce operation cost and improve efficiency
- › Comprehensive advanced data analysis

Power Big Data Platform

Based on independently developed full-stack "Yongfu Cloud" smart power platform, we provide our clients with a group-level smart energy big data platform, covering centralized and distributed renewable energy and energy storage systems. The platform is equipped with functions such as Common Operational Picture (COP), intelligent data analysis, operation strategy optimization, AI-aided trading to achieve unmanned operation of the local power plants, centralized monitoring of the regional power plants and drive smart upgrades in operation and maintenance.

Smart Energy Big Data Platform

- › Highly compatible and autonomous control system
- › High security, financial-grade data security protection
- › High-concurrency access, efficient processing of massive data
- › Energy digital foundation, efficient and rapid one-click deployment



Cloud Platform for Energy Storage

- › Massive Data Accessing & Processing
- › Dual Protection for Data and Station, Remote System Upgrade and Maintenance
- › Intelligent Early Warning, Diagnosis and Analysis, Multi-Machine Collaborative Optimization Control
- › Cloud-Optimized Charging & Discharging Strategy, Intelligent Management and Control of Mobile Terminals



Virtual Solar PV Station Smart O&M System

- › High Performance Processor
- › Local/Remote Communication Debugging
- › Multi-Protocol
- › Visualized Management



Smart Energy Storage Early Warning and Safety Operation & Maintenance System

- › Safe collection of all data from power station
- › Cloud-edge collaboration with the energy storage cloud platform
- › Visual panoramic display capabilities
- › Safety early warning capabilities



Virtual Power Plant Platform

We deeply integrate distributed energy and adjustable loads, featuring functions such as power trading, demand response, supporting services, green power and REC trading. Advanced intelligent algorithms are applied to achieve coordinated operation among power generators, power grids, power loads and energy storage systems, response to grid instructions within seconds, maximize the value of power resources, build a stronger competitive edge and deliver higher returns for our clients.



Virtual Power Plant Platform



Power Trading Subsystem

- Medium to long-term trading
- Spot trading
- Trade review
- Trading reports

Grid Interaction Subsystem

- Real-time monitoring and information interaction
- Demand response full-process management
- AGC control and command decomposition
- Resource scheduling and optimization strategies

AI-Assisted Decision-Making Subsystem

- Aggregation model and dispatch model
- Load forecasting, power generation forecasting, and price forecasting
- Potential analysis and regulation capacity assessment
- Transaction decision support system

Reference Projects



Mengxi Base Kubuqi Desert Solar PV Plant Project, No.1 Energy Storage Station (80MW/160MWh), Inner Mongolia, China

We delivered advanced smart EMS energy storage monitoring systems for the first batch of large-scale wind power-solar PV base project under China's 14th Five-Year Plan and China's largest desert solar PV ecological sand control project, achieving efficient and optimized integration of wind power-solar PV-energy storage



SGCC & CATL Ningde Energy Storage Station Project (200MW/400MWh), Fujian, China

It is the largest containerized energy storage power station built in Fujian Province and an integrated digital twin platform featuring panoramic monitoring, battery early warning, smart O&M



CHN Energy Yanqian Monitoring System for Centralized Control Center Upgrading and Renovation Project, Fujian, China

It is one of the first batch of projects built in Fujian Province performing centralized monitoring of Fujian's renewable energy project operation. This project is connected to 13 wind farms and 7 key subsystems are built to perform centralized control and smart operation of wind farms in Fujian Province



Suqian Guokai Renewable Energy Smart Management Platform Project, Jiangsu, China

This project is connected to dozens of assets, e.g., solar PV, energy storage stations and charging stations in China, which is an integrated smart platform combining renewable energy asset management, virtual power plant operation and power trading

Your Trusted Global Zero-Carbon Partner

Annual green electricity generation

41,168 GWh

Annual reduction of carbon dioxide emissions

34.0584 million tons

Annual reforestation area

227,000 hectares

* As of 2025, our renewable energy projects have contributed to environmental benefits:



Power and Energy

High-quality project is implemented to ensure investment return and create dual values of "zero-carbon + investment return".



Agriculture, Forestry, Pastoral Farming, and Fishery

"Eco-Energy +" model is adopted to promote industrial integration and achieve environmental friendliness and industrial values.



Industrial Park

We help build new zero-carbon demonstration industrial parks with maximized economic benefits



Home Green Power

Customized "smart energy + aesthetic design" home energy solutions enable users to enjoy a zero-carbon and comfortable life.



Industrial Businesses

We help build an efficient and stable low carbon energy system to achieve industrial upgrading through "energy efficiency revolution + green profitability".



Public Buildings

Customized integrated "solar PV + Landscape + Industry" solution is adopted to help build a benchmark green infrastructure.



Urban Transportation

We offer innovative "green energy supply + smart management" integrated solutions for highways and rail transit lines.



Investment Platforms

Backed by our expert team, we deliver tailored solutions to help clients achieve project revenue, industrial incubation, and carbon neutrality.