

Microgrid System Solution



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Efficient Energy Saving Green

CONTENTS

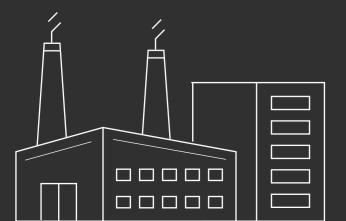
ONE	TWO	THREE	FOUR	FIVE	SIX	
About JNTech	Global Sales Network	Microgrid System	Solutions	Products	Projects	
03	05	07	09	27	29	

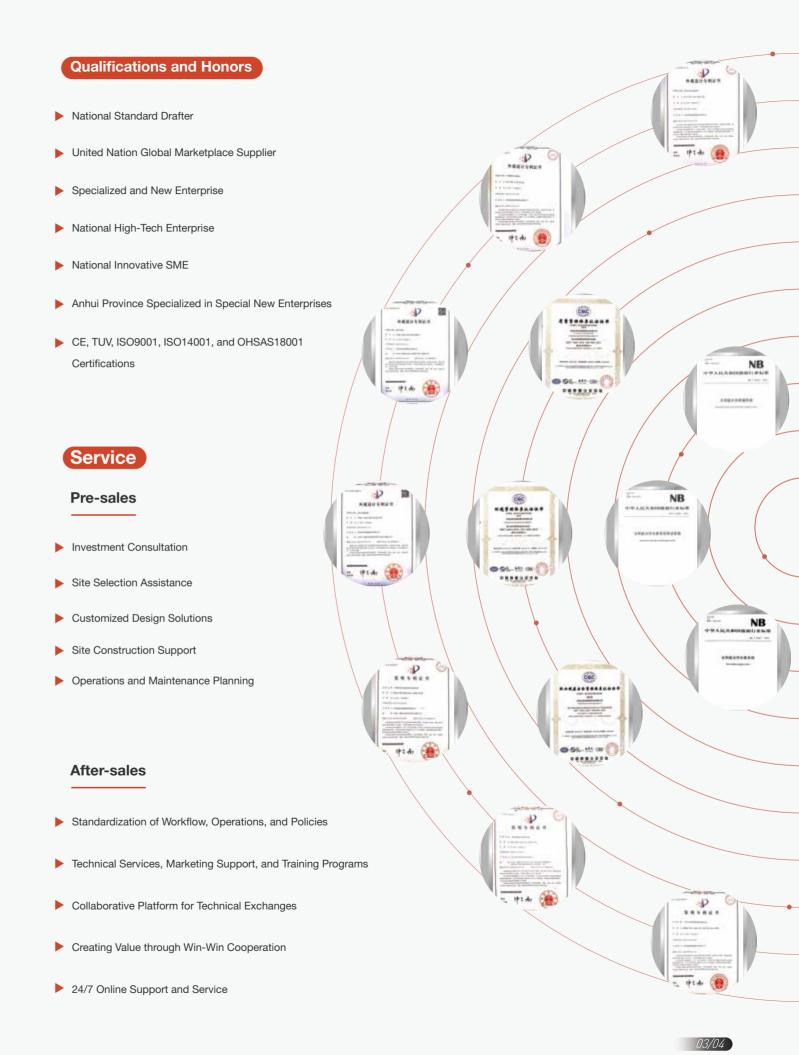
ABOUT JNTECH

JNTech is a global leader in advanced micro-grid solutions, committed to providing reliable and sustainable energy systems that address the unique challenges of diverse regions worldwide. Since our founding in 2006, we have focused on providing stable, affordable, and sustainable power through green energy for more people. To achieve this, we have developed a diverse portfolio of solutions that can adapt to different markets and needs. Currently, our products are sold in over 100 countries and regions.

As a leading manufacturer and provider of solar and new energy products, JNTech specializes in innovative technologies to meet a wide range of energy requirements. Our solutions include home energy storage systems, solar water pumping systems, solar oil extraction systems, solar mining systems, solar irrigation systems, electric vehicle charging systems, and other micro-grid solutions. These solutions incorporate both our proprietary products and those from other providers, ensuring comprehensive support for agriculture, remote power, and carbon footprint reduction.

With extensive experience and technical expertise in photovoltaic micro-grid projects, JNTech has established strong partnerships with organizations such as the World Bank, United Nations, IBRD, FAO, and various NGOs. These collaborations underscore our commitment to advancing sustainable energy solutions on a global scale. We believe that the widespread adoption of clean energy will enhance convenience and development opportunities for communities worldwide.







GLOBAL SALES NETWORK

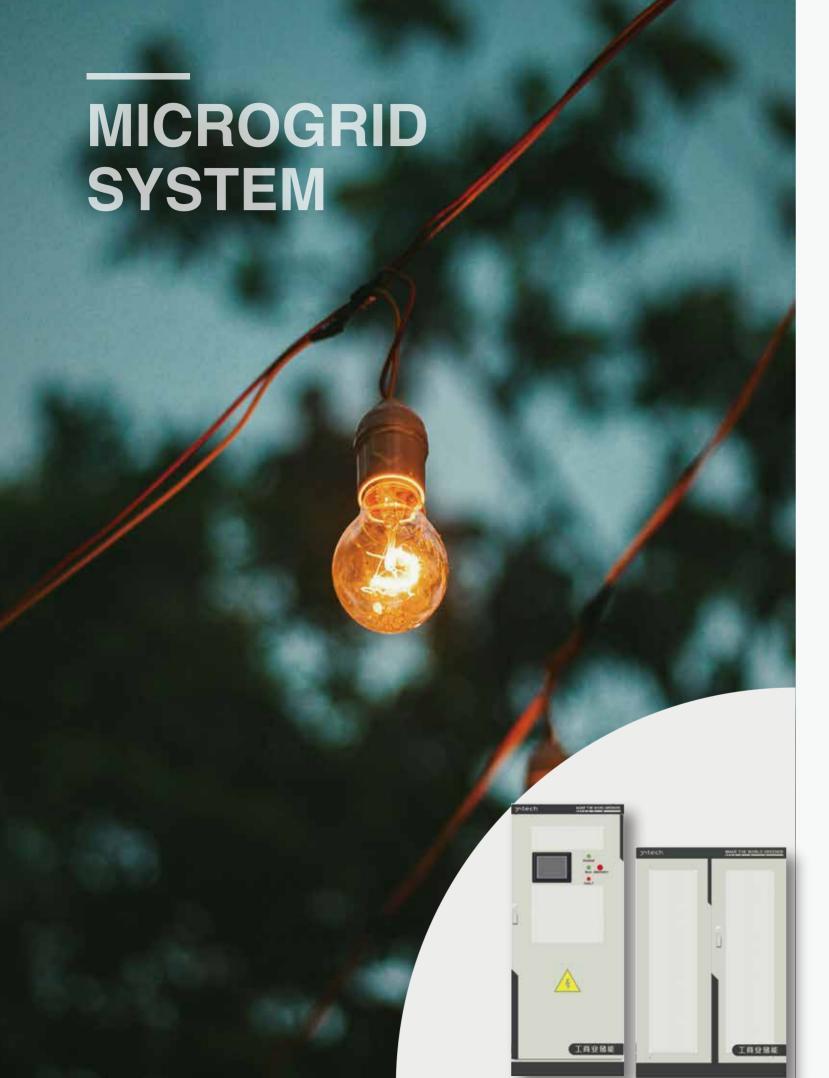
15+
Years of Experience in Solar Industry

40% + R&D Employees

100+

10,000+
Global Clients

1,000,000+
Products Sold



Microgrid Overview

JNTech's Microgrid System is an advanced, integrated energy solution designed to provide reliable, sustainable, and independent power for areas with limited or unreliable access to the traditional grid. Our microgrid systems combine different energy sources such as solar energy, wind power, diesel generator with advanced energy storage technologies to create a self-sufficient power network, capable of delivering electricity to residential, commercial, and industrial applications.

The system operates efficiently in both off-grid and hybrid configurations, offering flexibility in its deployment. It integrates seam-lessly with existing grid infrastructure, ensuring continuous power supply during peak demand or when grid power is unavailable. By leveraging our cutting-edge energy management system, users can optimize energy consumption, reduce costs, and minimize their environmental impact.

Key Features:

· Renewable Integration:

Utilizes solar and other renewable sources, reducing reliance on traditional fossil fuels.

• Energy Storage:

Equipped with high-capacity batteries, ensuring a stable power supply even during periods of low sunlight or at night.

· Modular Design:

Scalable system architecture that can be customized to meet specific energy needs, from small communities to large industrial sites.

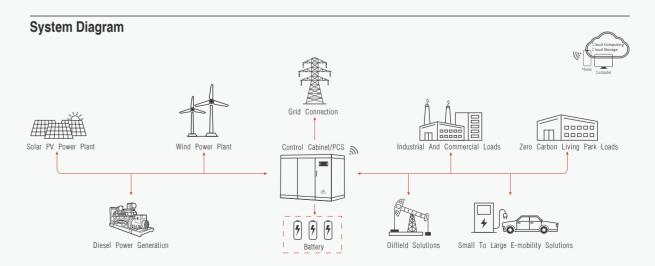
· Remote Monitoring and Control:

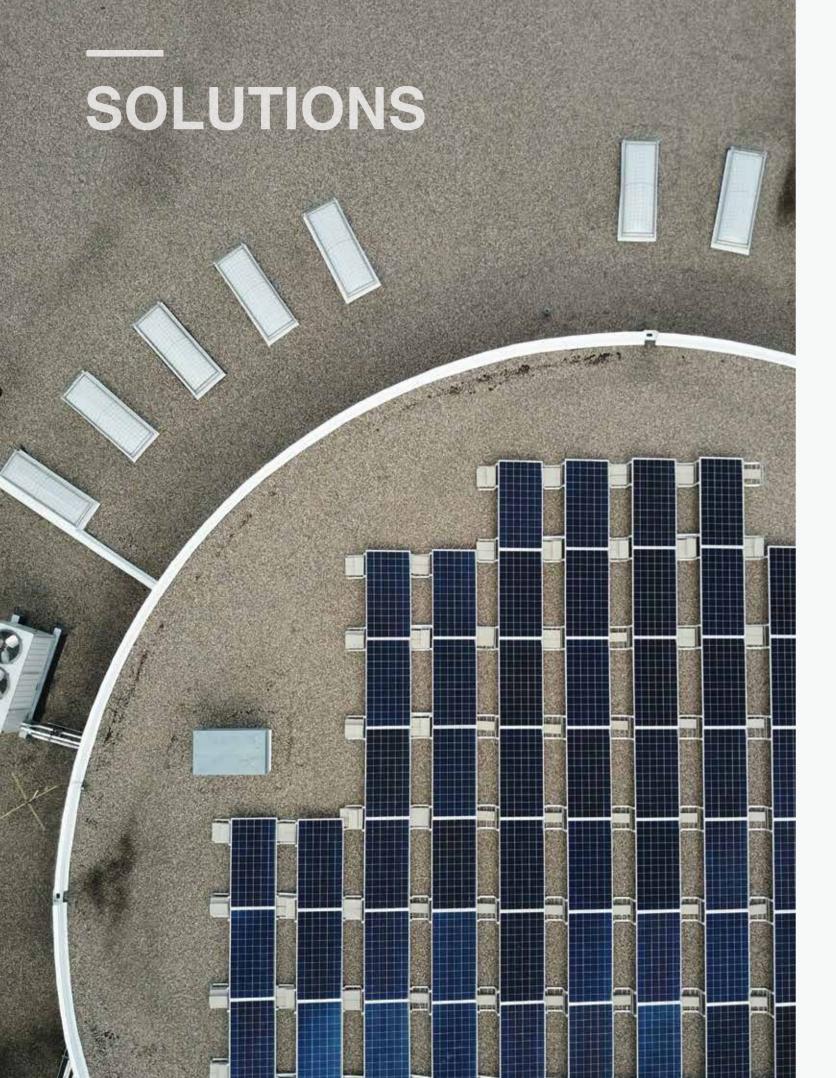
Advanced energy management software allows for real-time monitoring and remote control, ensuring operational efficiency and ease of maintenance.

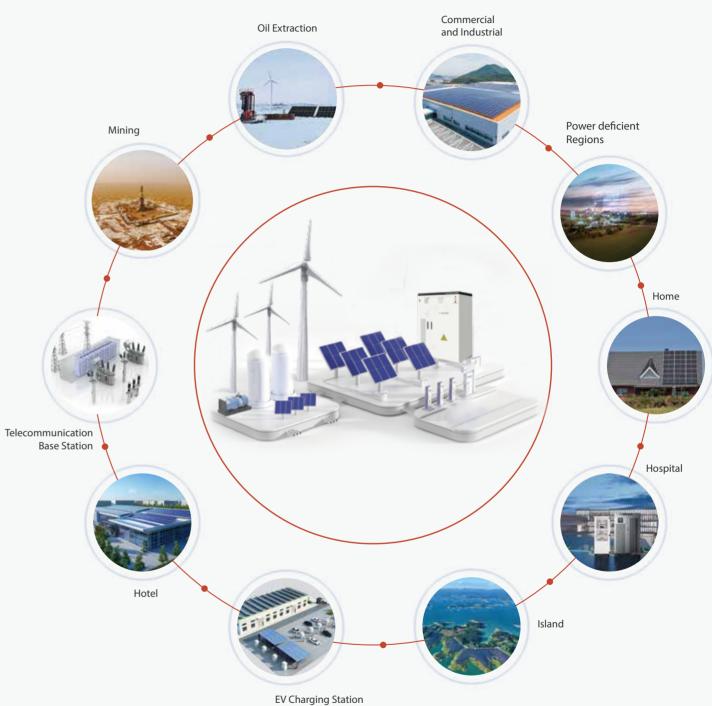
Sustainable and Reliable:

Ideal for applications in rural areas, disaster recovery zones, or regions with unstable grid connections, providing continuous, eco-friendly energy.

With over 15 years of expertise and a global presence in more than 100 countries and regions, JNTech s microgrid systems have been designed and tested to meet the highest standards of quality and performance, ensuring long-term reliability and cost-effectiveness for our customers.







Microgrid Solutions

1. Microgrid System for Mining

The JNTech Mining Microgrid System provides an efficient and cost-effective energy solution for mining operations in remote or off-grid areas. By integrating solar energy with advanced storage systems, the microgrid ensures a stable power supply, reducing the need for expensive fuel-based generators. This system allows mining companies to operate efficiently in isolated locations, minimizing energy costs and environmental impact.

- Significant cost savings with reduced fuel consumption
- Easy deployment for mining operations in off-grid areas
- Stable, continuous power supply for critical equipment
- Trenable power supply for 24/1 mining operations
- Reduced fuel consumption and emissions
- Easy to scale for large mining projects

2. Microgrid System for Oil Extraction

The JNTech Oil Extraction Microgrid System offers a sustainable energy solution for oil extraction sites. Combining solar energy with storage, this system reduces reliance on traditional fossil fuels and minimizes operational costs. It is designed to handle the high energy demands of oil extraction equipment, ensuring continuous power in off-grid or unstable grid areas, while promoting a greener and more efficient oil extraction process.

- Reliable energy for oil extraction in off-grid areas
- Stable energy supply for uninterrupted extraction operations
- Lower operational costs with reduced fuel dependency
- Environmentally friendly alternative to traditional power sources

3. Microgrid System for Island

The JNTech Island Microgrid System provides a sustainable energy solution for island communities, where access to traditional energy grids is often limited. Utilizing solar power and energy storage technologies, the system can power homes, businesses, and critical infrastructure. Its scalable design allows for easy adaptation to the specific needs of islands, ensuring energy independence, reducing fuel imports, and enhancing resilience against natural disasters.

- Energy independence for island communities
- Stable electricity supply for island infrastructures
- Lower grid expansion costs and enhanced energy sustainability

- Reduced reliance on imported fuels
- Facilitates island tourism development with reliable power
- Resilient power supply during extreme weather events



5. Microgrid System for Hospital

The JNTech Hospital Microgrid System delivers a reliable and uninterrupted power supply critical to healthcare facilities. Combining solar energy with battery storage, the system ensures continuous power for life-saving equipment, lighting, and temperature

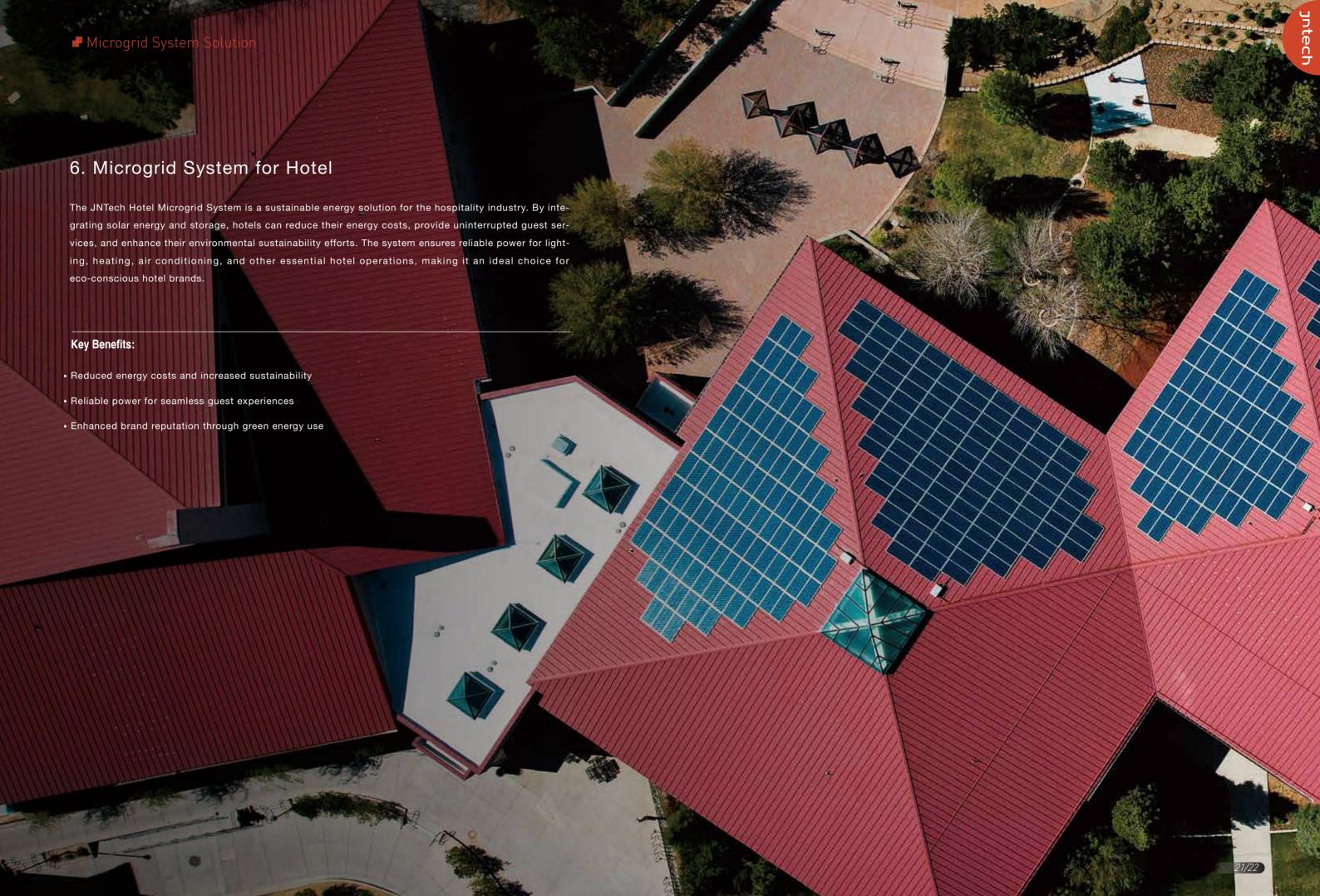
control systems, even during grid outages. It reduces operational costs and enhances energy resilience, ensuring that healthcare services are never compromised, particularly in remote or disaster-prone areas.

Key Benefits:

- Uninterrupted power for critical healthcare operations
- Lower operational costs and reduced environmental impact

 Energy resilience during emergencies or power outages





Microgrid System Solution

7. Microgrid System for Power-deficient Regions

The JNTech Power-deficient Regions Microgrid System is designed to provide electricity to remote or off-grid communities with limited access to traditional energy infrastructure. By harnessing solar power and combining it with energy storage, the system enables continuous, reliable power supply for households, schools, and local businesses, improving the quality of life and promoting local economic development.

- Access to clean, reliable energy in remote areas
- Improved quality of life and economic opportunities
- Scalable solution for expanding community energy needs



PRODUCTS

Industrial and commercial energy storage cabinet

30kW/30kWh-100kW/200kWh



Liquid cooling energy storage cabinet

215kWh



Container Energy Storage System

Maximum 5MWh



Energy storage battery cabinet

30kWh - 1000kWh



Energy Storage Inverter PCS Module

50kW - 125kW



Off-grid switching STS module

300kW





2.56kWh Lithium Battery



JNB051100-W

5.12 kWh Lithium Battery



ontech

JNB51280-P

14.3kWh Lithium Battery (Mobile Design)



JNS6KLV

6 kW Hybrid Inverter



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JNF3KHF-X-V1

3 kW Off-Grid Inverter



JNF5KHF-X-V1

5 kW Off-Grid Inverter



PROJECTS

Microgrid System for Oil Extraction in Xinjiang, China











■ Microgrid System Solution















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PARTNERS



































