



V-land International Renewable Energy

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V-LAND INTERNATIONAL

V-land is committed to providing green energy solutions for commical solar microgrid and home energy storage. We focus on integration energy system solutions and smart energy management cloud platforms centered on solar power generation and energy storage. With over 10 years of development, V-LAND is based on new energy and clean technology fields.

We focus on the production and sale of solar cells, modules and PV systems, R&D and application of lithium battery energy storage products, and provide leading home and commercial energy management systems. Our main products include: solar panel, solar cells, energy storage systems, clean energy generation, microgrid construction, complementary energy utilization, and intelligent energy management platforms.

Our solutions are highly scalable, and our products and services can flexibly, efficiently and customize help homes and businesses build independent and affordable microgrids. We also provide R&D, technical support, EPC installation and after-sales service for customers all over the world. V-LAND has a professional R&D and project team. Our products have CE, RoHS, EMC, BIS certification and can be customized according to customer needs. Products have been exported to Europe, Middle East, South Africa etc.

PART01

公司简介

V-LAND INTRODUCE

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PART02

企业文化

BUSINESS CULTURES

Customer first
Pursuit of brilliant
Dream in heart



Say goodbye to the traditional yesterday
Move towards a green future

PART03

合作品牌

COOPERATE BRANDS

LONGi TrinaSolar risen solar technology SERAPHIM

CanadianSolar Arctech Solar YINGLI 英利集团 协鑫 GCL 中信博新能源

固德威 GOODWE Sinexcel 盛弘电气 迈格瑞能 MEGAREVO

KELONG 利华技术

GMDE

invtr 英威腾

ZOOLNASM 众钠能源

启迪控股 TUSHOLDINGS

CATL SUNWODA 欣旺达 HIGEE 海基 WEICHAI 潍柴

PYLONTECH Dyness TAFEL 凯瑞华 KATRINA 华

BMSEr 协能科技

高特电子 GOLD ELECTRONIC

ZHONHEN 中恒

T-TOWN 泰邦科技

海兴电力科技 HESTING ELECTRIC CO., LTD.



天津大学 Tianjin University

中国石油

国家电投 SPIC

CNESA China Energy Storage Alliance



Avi Technologies

NGCP

BRIDGING POWER & PROGRESS

SIFANG



ALTITUDE REFRIGERATION SOLUTIONS

CEIEC

中国电子进出口有限公司



LR GROUP



FENAKA CORPORATION LIMITED

PART04

主要业务

MAIN BUSINESS

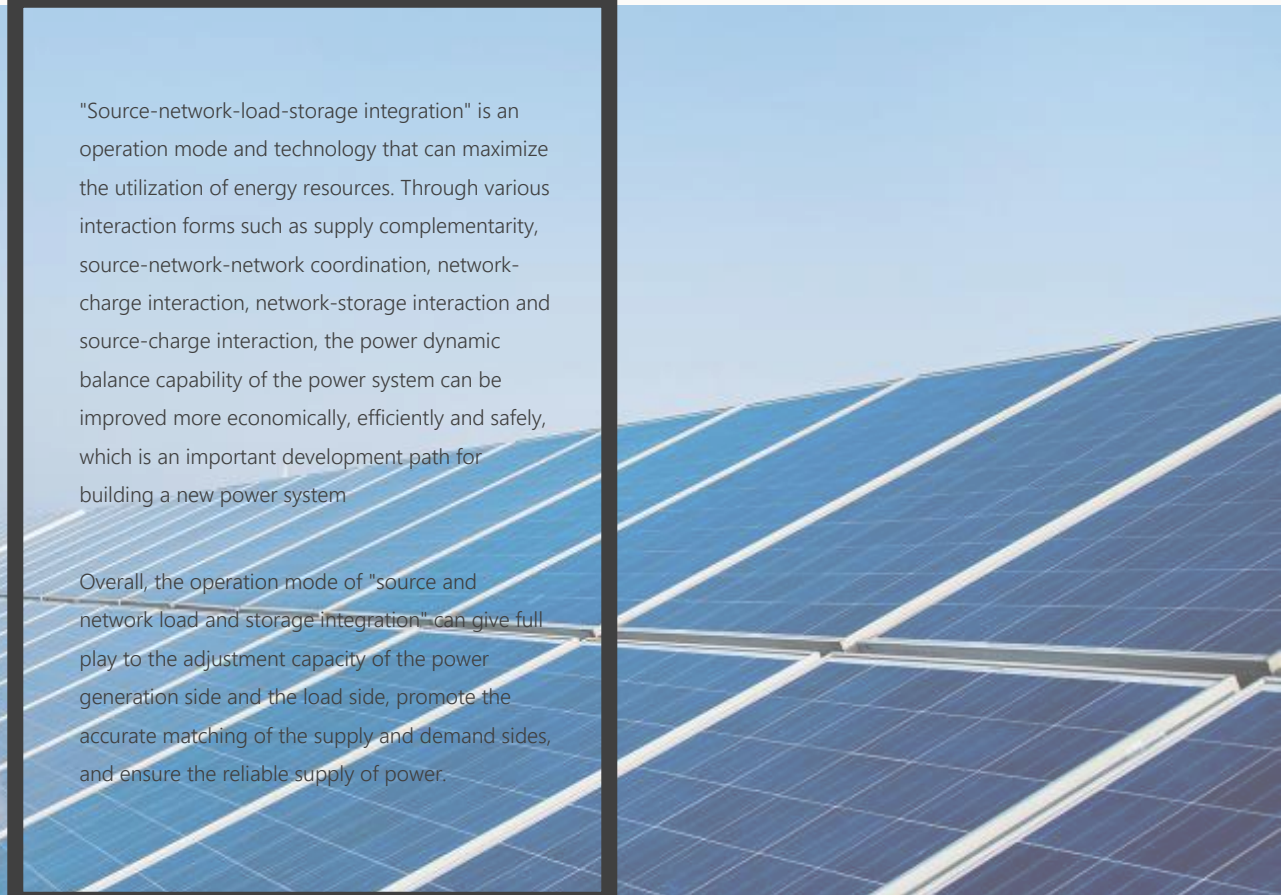
Smart Microgrid System Solutions





"Source-network-load-storage integration" is an operation mode and technology that can maximize the utilization of energy resources. Through various interaction forms such as supply complementarity, source-network-network coordination, network-charge interaction, network-storage interaction and source-charge interaction, the power dynamic balance capability of the power system can be improved more economically, efficiently and safely, which is an important development path for building a new power system

Overall, the operation mode of "source and network load and storage integration" can give full play to the adjustment capacity of the power generation side and the load side, promote the accurate matching of the supply and demand sides, and ensure the reliable supply of power.



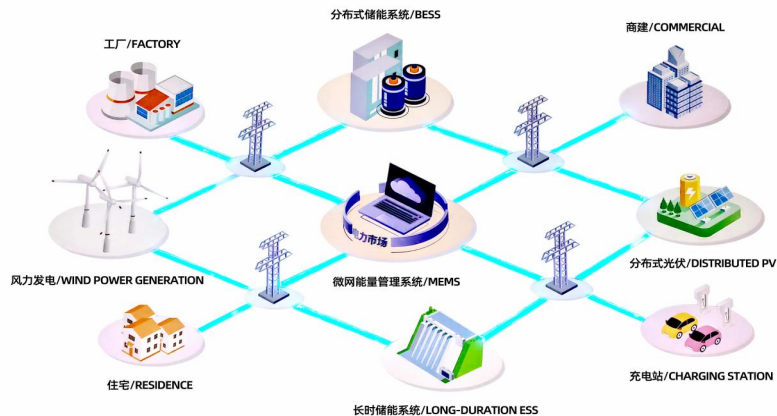
Distributed Smart Grid Overall Solution

Distributed smart grid overall solution provides power grid cluster and virtual plant power solutions, integrated energy microgrid solutions, industrial and commercial energy storage and zero-carbon park solutions.

Digital Cloud Platform

The digital cloud platform comprehensively includes real-time monitoring of photovoltaic cloud, household cloud, micro-grid cloud, hydropower cloud, and wind power cloud, providing a full range of equipment operation monitoring and services.

智能微网 (源网荷储一体化) SMART MICROGRID





Industrial /commercial / home storage
distributed photovoltaic

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- Photovoltaic system with energy storage unit, is a reliable means of efficient use of clean energy, has become the preferred new energy way.

- Advantage: Reduce the electricity expenses of household users, improve the self-sufficiency rate and energy security of household users, and reduce the load fluctuation and demand response to the grid.



HOME ENERGY STORAGE SYSTEM

Off grid/Hybrid solution provider





PART05

单品介绍

PRODUCTS INTRODUCE



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Solar cell

- PERC / TOPCon / HJT
- 156.75 / 158.75 / 182 / 210
- 5BB / 6BB / 9BB / 10BB / 12BB

Solar Panel

- High power generation and low cost of electricity
- The maximum power can reach 700W
- High reliability
- Ultra-low attenuation
- Multiple bus bar
- New welding wire
- PERC / TOPCon / HJT Technology



Inverter

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- Pure sine wave output
- Modular structural design
- Easy to assemble and maintain
- Perfect protection function
- Optional fingerprint lock with anti-theft function
- High efficiency, low standby loss

PCS

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- Modular design
- Intelligent matching
- Independent regulation of active and reactive power
- Distributed in demand
- On / Off grid seamless switching



Battery

- Multiple in parallel, easy for expand
- Automatic addressing, no need to dial a code
- Standard configuration with LCD display, real time knowing battery status
- Screen direct selection of inverter communication
- Environmentally friendly non-polluting materials, free of heavy metals
- Standard cycle life is more than 8000 times
- Remote viewing of errors and online software upgrades



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UPS

- Reliable N+X wireless parallel redundant structure
- Shutdown repair time (MTTR≈0)
- Strong carrying capacity
- Green environmental protection
- Advanced full modular design
- Flexible system configuration
- Intelligent control
- Support cabinet
- Humanized operation interface and perfect power management software

Portable Battery



- Outdoor multi-functional mobile power
- 180w-6000w



- Multiple output sockets suitable for various devices
- Single Phase / 3 Phase



- Capable for charging/supplying power to various electrical devices
- -20°C ~ 60°C



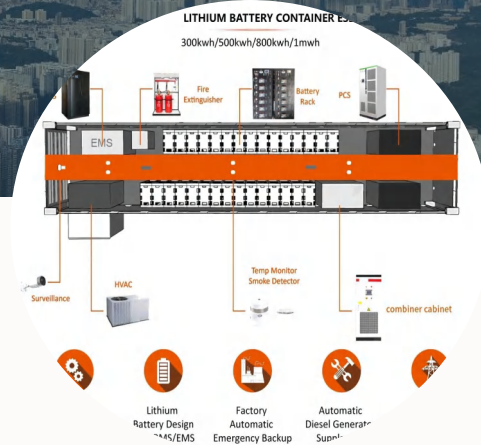
Container Energy Storage



- Corrosion prevention
- Strong earthquake prevention
- Unmanned management



- Modular design
- own independent supply system
- Material flame retardant



- Energy storage / monitoring system
- battery management unit
- fire protection / air conditioning
- Converter / isolation transformer

An aerial photograph of a busy port. A large white cargo ship is docked at a pier, surrounded by numerous yellow and red container cranes. A large white passenger airplane is visible in the foreground, flying over the water. The background shows a city skyline with various buildings and infrastructure.

PART06

工程案例

PROJECTS

30MW ALPINE PHOTOVOLT POWER STATION PROJECT

*The total investment of the project is \$3371,4200.00, the installed capacity is 30MWp, and 54,540 x 550Wp solar panels are installed.

*Photovoltaic capacity: 30MWp

*Annual power generation: more than 33 million kWh

*Annual income: \$514,2800.00





Installed capacity:

Photovoltaic system: 446kWp
Energy storage system: 400kW/800kWh
Diesel generator: 50kW*1 440kW*1

Advantages and characteristics:

Light fuel storage project, innovative use of light fuel storage DC flexible solution, combined with self-developed intelligent energy management system, annual power generation of 650,000 KWH, can save 140 tons of standard coal, reduce emissions of about 370 tons of carbon dioxide.



Installed capacity:

Photovoltaic system: 1MW
Energy storage system: 200kW/450kWh

Advantages and characteristics:

In view of the problems of power supply in mountainous areas, weak grid frame, long transmission lines, and poor power supply reliability, intelligent technologies such as remote monitoring, cloud platform technology, the latest control logic, remote operation and maintenance are adopted, and the characteristics of power grid requirements and light storage work are integrated to realize a powerful exploration of new energy smart grid technology.



Installed capacity:

Distributed photovoltaic average: 300kW
Energy storage system: 400kW×3h
Firewood generator unit: 500kW
Power load: 500kW

Advantages and characteristics:

Planning and design of off-grid light wood storage smart grid system, core micro-grid energy management system and energy storage equipment, system integration and debugging. The benchmark demonstration project of the global island microgrid, the largest microgrid group in the world at the time.



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Military and civilian integration light wood storage project

Installed capacity:
Photovoltaic system: 100kW
chhair system: 30kW*2 100kW*1 Energy storage system:
30kW/60kWh (rare earth battery)
200kW/400kWh(lithium battery)

Advantages :
For a border guard post off-grid power supply system, the project operating environment is harsh, 4500 meters above sea level, temperature -45°C. The operation of the project has greatly improved the working and living scenes of my border guards and reduced the pressure of logistics supply.



Virtual power Plant Demonstration (Grid Connection)

Installed capacity :
Photovoltaic system: 800kW
Energy storage system: 100kW/200kWh&200KW/400KWH&
400KW/600KWH

Advantages :
It has realized convenient and friendly access to green energy on the power side, zero energy consumption operation mode at the pilot village level, digital transformation on the power grid side and multi-level integration development of source and network load and storage on the consumption side, improving the income of people in the old areas and improving the electricity experience, and contributing to rural revitalization and carbon neutral development.



5MW Microgrid cluster

Installed capacity :
Photovoltaic system: 5MW
Fan: 4kW
Energy storage system: 11MWh
Air source heat pump: 1338 households *5KW

Advantages :
Combined with regional distribution, sub-smart grid projects were built in three areas, namely folk village, school and dock square, and nested microgrid clusters were innovatively used to enhance regional power supply capacity and improve power quality, and breakthroughs were made in 10kV and off-grid seamless switching and mutual benefit of microgrid clusters.

Trading Map



THANKS

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