

**BeEfficient.
BeSustainable.**



We are TDG Ibernavitas, a global brand dedicated to designing premium energy efficiency solutions for clients committed to leading the transition toward a more sustainable future for all.

OUR VALUES



We make it easy



Together we go further



Make a difference



We think global,
act local

About us

At TDG Ibernavitas, our mission is to enhance the renewable energy ecosystem. We provide innovative solutions in energy storage systems, microinverters, equipment, and integrated energy process management. Backed by the extensive expertise of our founders, who have been pioneers in this industry, we are committed to driving progress and sustainability.

Founders and Experience

TDG

Founded in 1984, TDG Holding Co.Ltd (Stock Code: 600330), is the **first publicly listed company in China** controlled by individual shareholders. The company owns holdings and invests in numerous businesses. TDG is **dedicated to R&D**, manufacturing, and sales of electronic materials, digital devices, and smart equipment, with commercial operations spanning the entire electronic information resource supply chain.

TDG | YUNET

TDG YUNET Technology Co.Ltd is a high- tech subsidiary of TDG Holding Co. Ltd. specializing in **renewable energy services**. That stands out in the electronic materials supply chain, being one of the largest manufacturers of soft magnetic materials in China. Known for its innovation, it holds over 75 invention patents, many of which are globally leading. TDG YUNET focuses on energy storage solutions, offering advanced products such as **intelligent energy storage systems (EMS)** and integrated services that cover residential, industrial, and utility-scale energy storage.

Collaborative Partner for the Ecosystem



Founded in 2013, VG Solar is headquartered in Songjiang Xinqiao. Operating within the new energy sector, it is a **high-tech enterprise** that specializes in mounting structures for solar photovoltaic systems. Its primary activities encompass research and **development, design, production, and marketing.**

VG products have been distributed to over 50 countries and regions, including China and Japan. Thailand, Australia, Germany, Malaysia, the Philippines, Mexico, the Netherlands, Belgium, and others.



A leading company in the solar industry, APsystems (stock code: 688348.SH) specializes in the **development and supply of advanced microinverters** for photovoltaic systems. Founded in 2010 in Silicon Valley, APsystems has rapidly grown to become one of the largest microinverter manufacturers worldwide.

The company stands out for its focus on **technological innovation**, continuously developing products that enhance the efficiency and reliability of solar systems. APsystems offers cutting-edge solutions for both residential and commercial applications. With a strong global presence, the company operates offices and distribution centers in **North America, Europe, Asia, and Australia.** APsystems has earned a distinguished reputation for its commitment to quality, customer service, and sustainability.

Its global leadership in providing innovative microinverter solutions for the solar PV industry. APsystems is known for its advanced, reliable, and cost-effective technology, which makes solar arrays more efficient and safer. **With over 2 GW of installations worldwide,** APsystems has demonstrated its commitment to innovation and excellence in solar power conversion.

Their microinverters optimize the performance of each solar panel individually, ensuring maximum energy yield, even in challenging conditions. Additionally, their **integrated monitoring and energy management systems provide clients with real-time data, enhancing system reliability and simplifying maintenance.** This combination of cutting-edge technology, scalability, and proven success makes APsystems a trusted partner in renewable energy projects.



Founded in 2003, Zeumat is an international company specializing commercial and institutional relationships between **China and Spain** with logistics warehouses in Free Trade Zone in China and expertise in cross-border operations.

It offers comprehensive support to Chinese companies looking to establish themselves in the Spanish market, facilitating their entry with services such as **strategic planning, business consulting, legal advice, and market access strategies.**

Additionally, Zeumat plays a key role in attracting Chinese investment to Spain, with offices in Zaragoza (Spain) and Taizhou, Jiangsu (China), Zeumat serves as a **strategic bridge,** promoting closer ties between the two countries.



Our Services



Customized technical guidance

We offer our clients a specialised consulting service in:

- ✓ Selecting the optimal equipment for their projects.
- ✓ Feasibility studies using our own system to guarantee the success of the investment.
- ✓ Training in the implementation and commissioning of systems.
- ✓ Sizing recommendations tailored to actual needs.



Local customer service

- ✓ We have our own **engineering team in Spain** that accompanies you throughout the entire project cycle.
- ✓ Customisation of the **EMS** (Energy Management System) to adapt it to the specific needs of the customer.
- ✓ We offer a cloud service that allows real-time monitoring of the status of your equipment, with a supervision system that operates **24/7**.



Warehouse in Europe for product replenishment

- ✓ We provide fast and efficient service from Spain, with direct **product replenishment** to ensure operational continuity.



Local after-sales service

- ✓ We manage the entire **after-sales service** from Zaragoza (Spain), offering corrective maintenance with urgent assistance in less than 6 hours.
- ✓ We have technical expertise and **local support** to maximise the reliability and continuity of our customers' operations.

Factory in Zaragoza

Our 10,000 m² facilities in Zaragoza:



We assist you throughout all stages of your project, from analysis to ongoing operation.



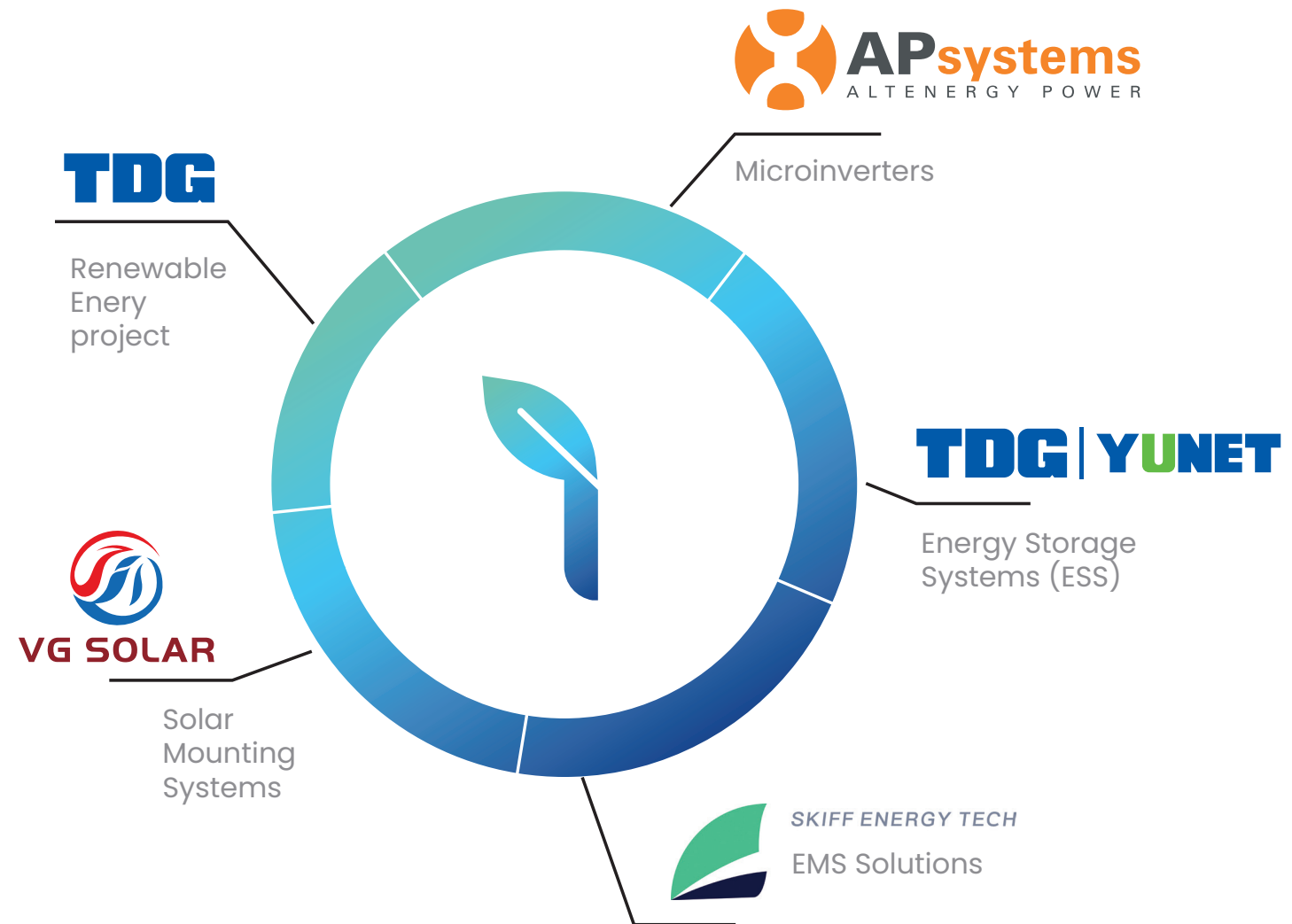
Integral Solutions

We offer a comprehensive solution of the industrial chain within the renewable energy sector. Our portfolio includes **energy storage systems, Energy Management Systems (EMS), microinverters, solar panels, and mounting systems for solar panels.**

These solutions provide our clients **turnkey project** with the tools to efficiently and safely manage their renewable energy projects, optimizing performance and ensuring long-term sustainability. Our holistic approach enables us to deliver a **complete response to the sector's needs, from energy generation to storage and control.**

Our holistic approach allows us to provide a full-spectrum solution for the sector's needs, encompassing energy generation, storage, and control.

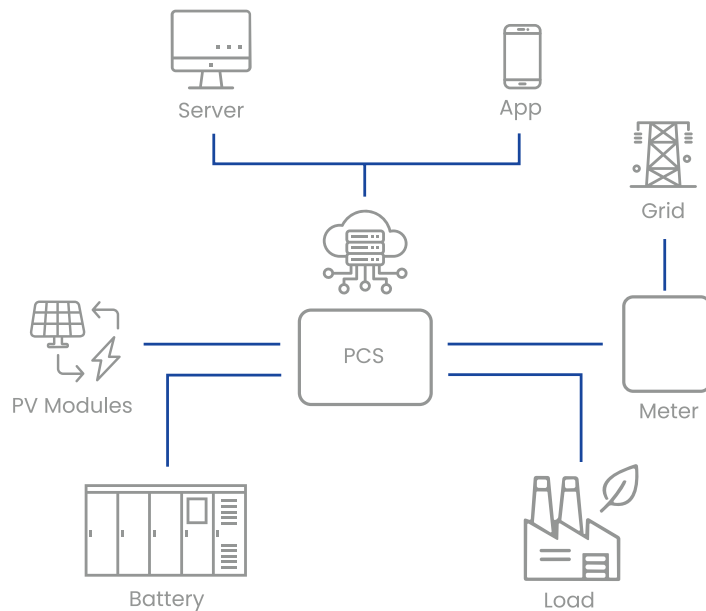




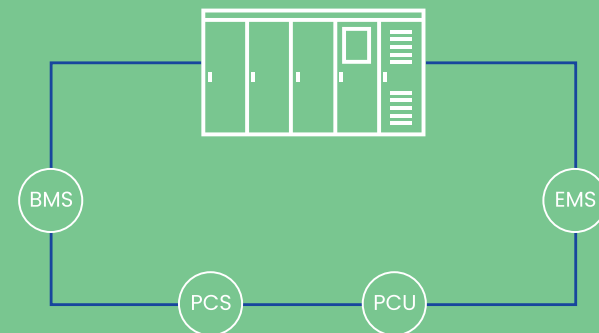


Energy Storage Systems (ESS)

PV modules (solar panels) capture sunlight to generate electricity, which is then managed and converted by the PCS (Power Conversion System) for use or storage. Excess energy is stored in the battery for later use, ensuring a continuous power supply, even when solar generation is low. This system is monitored and controlled via cloud servers, providing real-time data and remote management through a server or app.



Our energy storage system offers a comprehensive solution, providing all the key components for optimal performance. BMS (Battery Management System), PCS (Power Conversion System), PCU (Power Control Unit), and EMS (Energy Management System), ensuring efficient and coordinated operation.

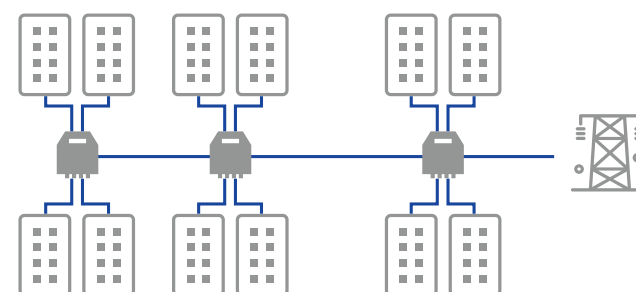




Electronic solutions with Microinverters

ADVANTAGES OF MODULE-LEVEL POWER ELECTRONICS TECHNOLOGY:

- 1** Each module has its own MPPT to achieve maximum power output.
- 2** The power generation between modules does not affect each other, so **there is no "short board effect" in the system.**
- 3** In case of shading or multiple roof orientations, **the solar powered roof area can be maximized.**
- 4** Under the same conditions, the system with module-level power electronics can **increase power generation by 5-25% compared to string inverter system.**



Solar Mounting Systems

Solar mounting systems are essential structures in solar energy projects, providing a secure and efficient installation of photovoltaic panels on various surfaces such as rooftops, ground, or facades. These systems are designed to optimize the orientation and angle of the panels, maximizing sunlight capture and, therefore, energy generation.

TDG Ibernnavitas introduces advanced management mode, which can provide customers with integrated solar mounting system services from pre-survey and design, procurement, installation guidance to post-maintenance, and provide reliable products and solutions for solar power station systems at home and abroad.

These systems are designed to optimize the orientation and angle of the panels, maximizing sunlight capture and, consequently, energy generation.



Our Projects



1 Model: HELIOS UE-L232

Capacity: 1290 kWh
Jiaxing, Zhejiang, China



2 Model: ORION UE-L400

Capacity: 200MW/400MWh
Binhai, Tianjin, China



3 Model: ORION UE-L400

Capacity: 61MW/123MWh
Nanjing, Jiangsu, China



4 GREEN BOX SOLAR LIGHTS UP CENTRAL

Valley Machine
Utah, USA
Capacity: 810 kW
Microinverter: QT2



5 136KW FURNITURE FACTORY SOLAR PROJECT

France
Capacity: 136 kW
Microinverter: APsystems QT2



6 MECANIZADOS VGSOLAR

United Kingdom
Capacity: 8.1 MW (2016)

**Maximise renewable energy
potential to ensure your energy
stability by improving efficiency.**

**Together
we go further**



info@tdgibernavitas.com
976 60 66 60

Polígono industrial PLAZA
Rda. del Aeropuerto
50197 Zaragoza
tdgibernavitas.com