

Smart Energy

!TV Wow! Taiwan Project

!TV



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Wow! Taiwan Project



Wow! Taiwan Project selects the most innovative and cutting-edge products and technology solutions from Taiwan. We aim to connect suppliers and buyers all over the world to do business.

Founded by TITA International Trade Administration, Ministry of Economic Affairs and implemented by CDRI (Commerce Development Research Institute), Wow! Taiwan Project has created a safe online D2B (Direct to Business) platform for buyers and suppliers to exchange and connect, ensuring business growth is guaranteed through customized services.

Smart Energy Solutions

Taiwan's Smart Energy Solutions provide smart energy management systems, sustainable transport solutions, and renewable energy solutions. We ensure a supply for a waste-reduced and eco-friendly energy ecosystem.



Solution 1



Energy Smart Management System

With advanced technology, our system enables precise monitoring and adjustment of energy consumption in real-time. Our Energy Smart Management System empowers businesses to make smarter energy decisions.



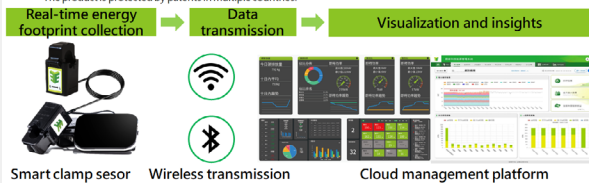
3Egreen Technology Inc.

3Egreen Technology Inc. offers advanced energy footprint data management services through its iEECMS (Instant Energy, Equipment & Carbon Management System). Our solution enables businesses to record, manage, and analyze energy consumption in real-time without downtime, power outages, or wiring. This helps meet ESG and net-zero carbon emission goals, enhancing energy efficiency, reducing costs, and mitigating climate change. In response to global energy efficiency regulations, 3Egreen empowers companies to effectively manage energy data, identify savings potential, and implement sustainable practices for long-term development.

Website <https://www.wowtaiwan.org/company/1622>

Our solution : iEECMS

- (Instant Energy, Equipment & Carbon Management System)
- A one-stop solution that provides fast, accurate, and effective energy data collection without downtime, power outages, or wiring, from hardware to software to platform.
 - Obtain equipment energy consumption data immediately.
 - Quickly implement ISO 50001
 - Enhance product carbon footprint calculation capabilities
 - Save 80% on energy audit labor costs, Data error rate < 5%, Save > 10% on energy consumption, with a maximum potential of 65%.
 - suitable for a wide range of applications, including semiconductor cleanrooms
 - The product is protected by patents in multiple countries.



User case-燒結爐數據異常(輔助參數調整)



雲端能耗足跡管理平台



Energy Management System Co., Ltd.

Energy Management System Co., Ltd. (EMS), established in 1991, is Taiwan's leading smart water meter manufacturer, holding over 90% market share. With 33 years of innovation, EMS integrates IoT technologies like 4G, NB-IoT, and LoRaWAN into smart water meters, providing advanced solutions for utilities, industrial parks, smart buildings, and more. Our systems enhance water efficiency, reduce leaks, and support smart city infrastructure. With a strong international presence, EMS partners with distributors in 16 countries, focusing on the New Southbound markets to promote smart water solutions globally.

Website <https://www.wowtaiwan.org/company/1748>

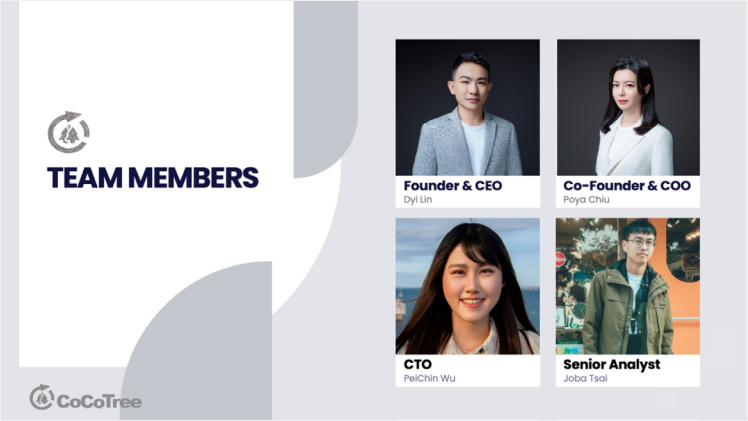
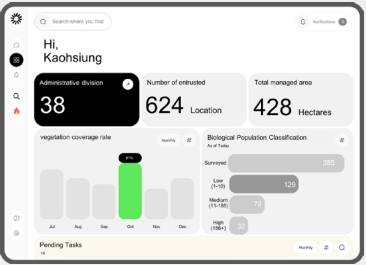
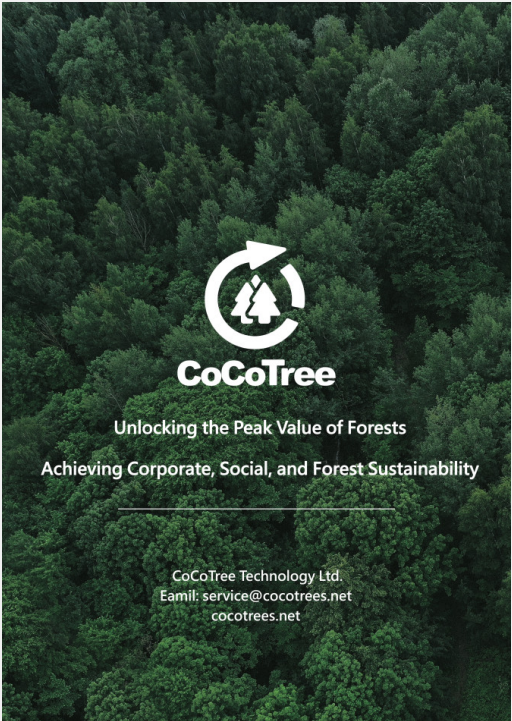




CoCoTree Technology Company Limited

CoCoTree Technology Company Limited leverages UAVs, satellite imagery, deep learning, and cloud technology to provide precise forest information. Our transparent data supports measurement, reporting, and verification (MRV) to ensure forest health and sustainability. The "Inforest" platform quantifies and analyzes forest growth and carbon sinks, promoting economic viability. By visualizing carbon sinks and natural asset trends, CoCoTree reduces costs and enhances forest value, addressing certification and management challenges with innovative, high-efficiency solutions for businesses, governments, and forestry operations.

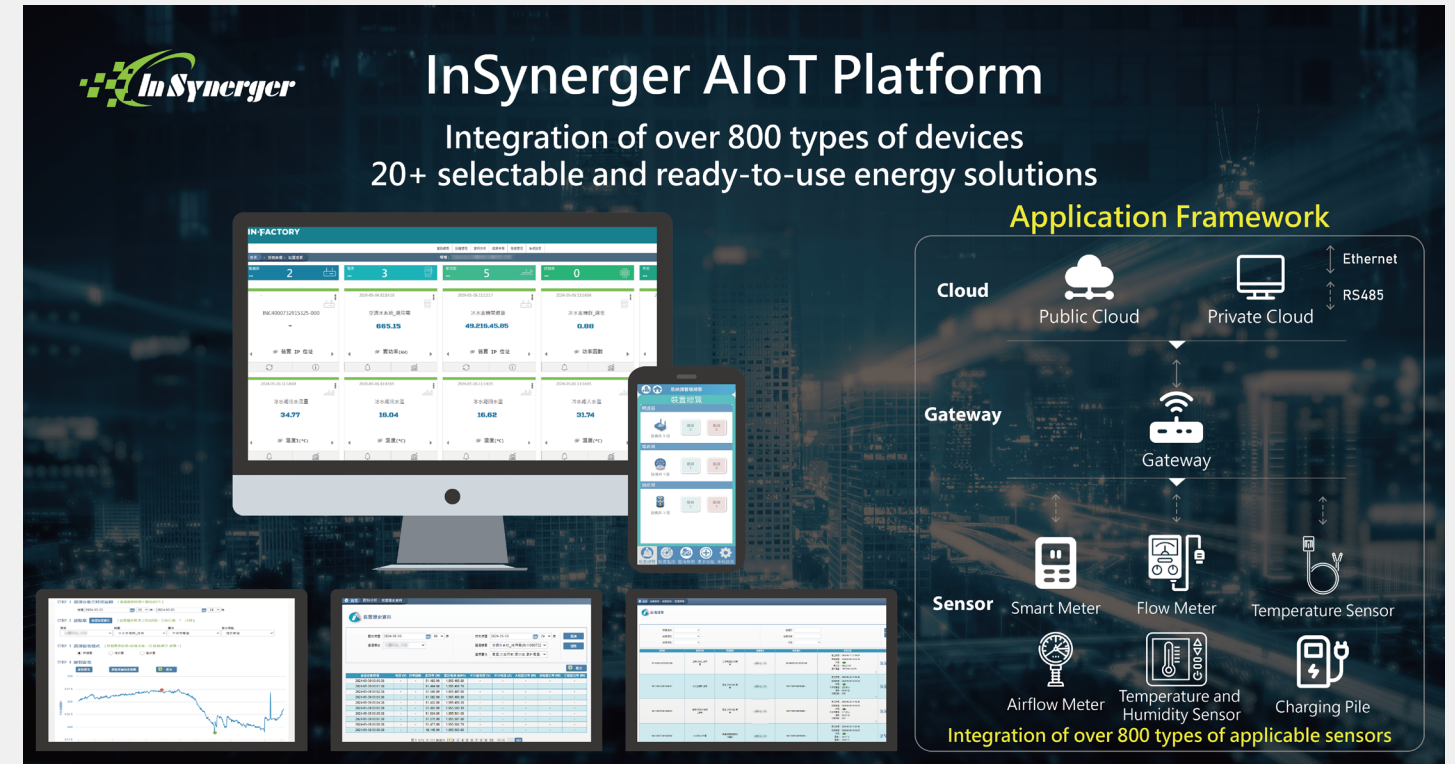
Website <https://www.wowtaiwan.org/company/1746>



INSYNERGER TECHNOLOGY CO., LTD.

InSynerger Technology Co., Ltd. offers comprehensive energy management services via an all-in-one IoT platform, aiding enterprises in achieving net-zero and sustainability. With offices in Taipei and Vietnam, we have completed over 900 projects globally, managing more than 100,000 devices and saving an average of 10% in energy. Our AIoT platform supports over 20 solutions and integrates 800+ IoT devices, enhancing energy efficiency, power safety, and carbon management. Our end-to-end solutions comply with ISO and ESG standards, providing flexible cloud and on-premise deployment options for diverse environments.

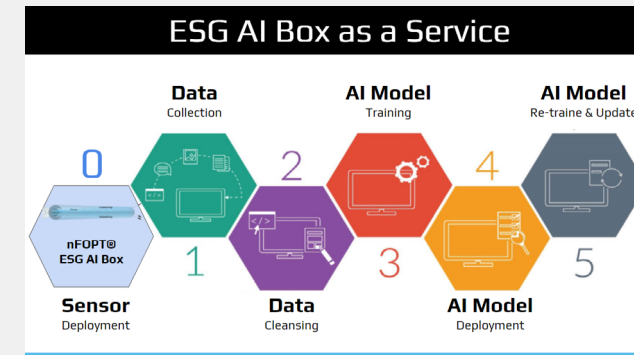
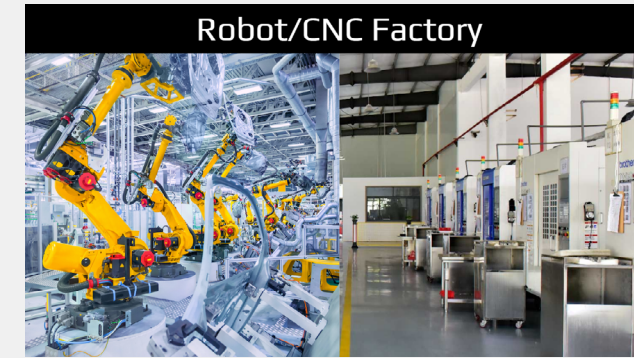
Website <https://www.wowtaiwan.org/company/1638>



WeThink AI Co. Ltd.

WeThink AI Co. Ltd., formed by a team from ITRI, specializes in reducing carbon emissions in high-impact industries such as petrochemical and energy. Our unique fiber optic sensors, integrated with AI, optimize production efficiency and monitor environmental parameters and equipment health. Our ESG AI as a Service targets carbon emission reduction by deploying fiber optic sensors on production lines and utilizing customized AI models for process optimization. This integration not only cuts energy costs but also helps achieve ESG goals. WeThink AI has successfully developed AI solutions for major domestic clients and is attracting international interest.

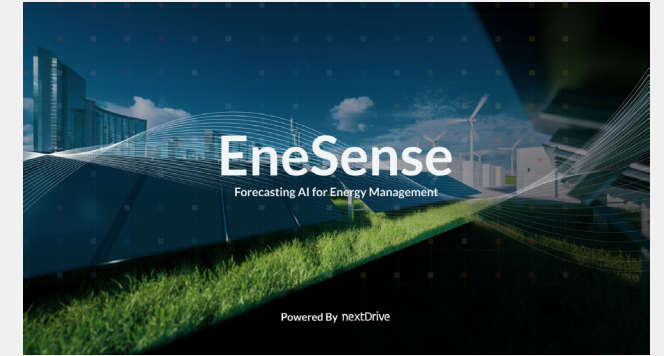
Website <https://www.wowtaiwan.org/company/1645>



NextDrive

NextDrive offers AI-driven energy management solutions on an IoE platform, recognized by the Japanese and Taiwanese governments as a new energy benchmark. Partnering with major industries, including Japan's top power companies, we provide comprehensive, high-performance solutions supporting nearly every industry protocol. Our EneSense Energy Management System optimizes solar energy, consumption, and battery storage with AI forecasting, enhancing efficiency by 17% and saving up to 26,000 kWh annually. EneSense seamlessly integrates renewable energy, driving sustainability and reducing reliance on traditional grids. Contact us to explore new energy business opportunities.

■ Website <https://www.wowtaiwan.org/company/1648>



SCM Solution LTD

SCM Solution LTD founded in 2014, specializes in supply chain optimization for clients outside Taiwan. Our four-member team in Taiwan serves clients through a subscription model, acting as an extension of their supply chain team. We connect Australian product development companies with qualified Taiwanese factories, streamline daily project management, and optimize supply chains for cost, quality, and schedule. Our services include writing product and test requirements, leading DFM and PFMEA, tracking project progress, checking BOM pricing, and educating clients on manufacturing technologies, ensuring smooth collaboration between factories and developers.

Website <https://www.wowtaiwan.org/company/1781>

SERVICE EXAMPLES



- Audit Factories
- Inspect production lines
- Review qualification testing
- Set Acceptance Criteria
- On-site meetings with translation
- Project status tracking

CERTIFICATIONS



SAFETY IS TOP PRIORITY

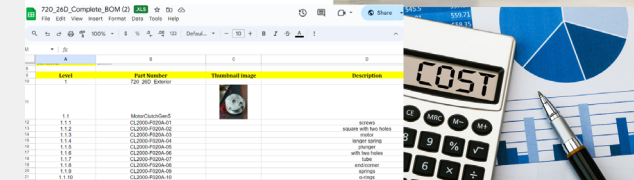


AS 4777
IEC 62040
AS IEC 62619
AS/NZS 3000/2018

REVIEW BOMS

- Contain costs
- Approved vendor review
- Understand availability
- Minimum order quantities

BILL OF MATERIALS



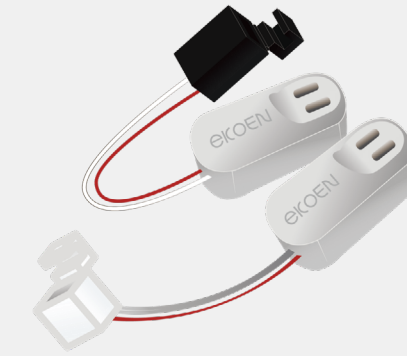
SUPPLY CHAIN MANAGEMENT



Seasonic Energy Inc.

Seasonic Energy Inc., founded in 2022, specializes in environmental control and energy management solutions. Our eKoEN Lightweight Energy Management System uses non-intrusive sensors for easy installation, reducing costs and setup time by 15%. Ideal for small and medium-sized users, it offers real-time power monitoring, safety alerts, and energy usage analysis via cloud-based apps. The system supports contract capacity and time-of-use pricing, optimizing energy savings and reducing peak load pressures. Seasonic's solutions promote ESG goals, enhance electrical safety, and support net-zero carbon emissions, making energy management accessible and efficient.

Website <https://www.wowtaiwan.org/company/1656>





SMANEX Co., Ltd.

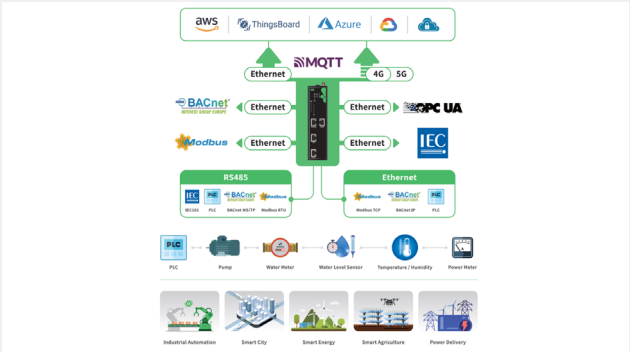
SMANEX Co., Ltd. offers integrated industrial communication products, edge computing terminals, and IoT cloud platforms. We specialize in Smart Energy Solutions, providing 4G routers, edge computing gateways, and EMS for real-time energy optimization. Our solutions include data collection, analysis, and decision-making to reduce carbon footprints and enhance sustainability, compliant with ISO50001. Serving vertical markets like smart buildings, industrial automation, and smart grids, we deliver reliable, industrial-grade products with 4G/5G connectivity, supporting various protocols and enabling real-time monitoring and data visualization to improve efficiency and productivity.

Website <https://www.wowtaiwan.org/company/1766>

Electricity Power Monitoring

- Power Network Monitoring
- Model: SR402
- 3G/4G Connectivity
- Support WAN (PoE is optional)
- Multi WAN internet for network redundancy
- Support IPSec, OpenVPN, L2TP, PPTP, GRE
- Hardware Watch Dog
- 40~+75°C for harsh environment
- Real time monitoring and get data and parameters such as voltage, current, electric power from distribution network.

www.smanex.com



Solution 2



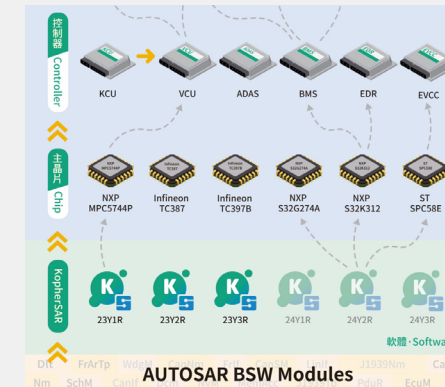
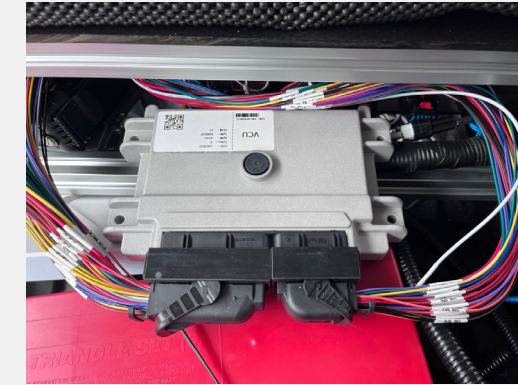
Sustainable Transport Solutions

Our innovative approach integrates eco-friendly vehicles, efficient infrastructure, and smart technologies to reduce emissions and promote greener mobility.

KopherBit Co., Ltd.

KopherBit Co., Ltd., with extensive experience from ITRI, specializes in automotive software and integrated vehicle controllers. Our solutions include the KopherBit Development Platform (KDP), a unified platform for ECU development, and the self-developed KopherBit Vehicle Control Unit (KCU), compliant with AUTOSAR standards. KDP offers tools for coding, validation, and integration, streamlining the development process. KCU supports powertrain, X-by-wire, and battery management systems, significantly reducing EV development costs. KopherBit's comprehensive services enable clients to master automotive software and hardware, ensuring compliance with international standards.

Website <https://www.wowtaiwan.org/company/1639>



Keego Mobility Co., Ltd.

Keego Mobility Co., Ltd. provides eco-friendly solutions for fleet managers worldwide. Specializing in delivery e-bikes, Keego offers the KG4, designed for last-mile deliveries with features like dual batteries, puncture-resistant tires, and top-tier brakes. Our AI delivery system enables vehicle management, rider monitoring, and GNSS telemetry tracking. Keego's primary markets are in the EU, with expansion into Asia and Africa. Manufacturing in Taichung, Taiwan, ensures high quality and supports the local economy. Our solutions optimize fleet performance, enhance operational efficiency, and reduce costs, making delivery operations more sustainable and effective.

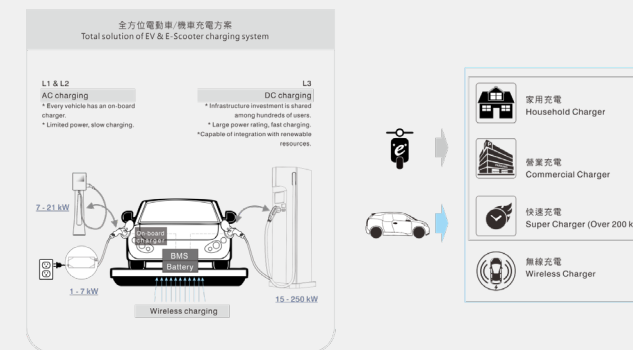
■ Website <https://www.wowtaiwan.org/company/1641>



eTreego Co., Ltd.

eTreego Co., Ltd. established on September, 2017, specializes in electric vehicle charging solutions. Our services include Energy Management Systems (EMS), system integration, green energy facility integration, engineering planning, and regular maintenance. Our Charging Management System (CCMS and LCMS) offers cloud-based services, flexible customization, and modular functionalities. With a web-based interface for real-time monitoring, it integrates card data and payment systems for user convenience. Our system optimizes charging efficiency and prevents power trips, providing a cost-effective, ready-to-use solution for seamless electric vehicle charging management.

■ Website <https://www.wowtaiwan.org/company/1642>

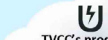




Taiwan Vehicle Charging Co., Ltd.

Taiwan Vehicle Charging Co., Ltd. offers smart management solutions for EV charging stations, integrating FinTech, AIoT, and big data to create seamless charging experiences. Our U-Charge Smart Cloud Charging Management System stores user data securely in the cloud, supports multiple payment methods, and provides automated, manpower-free management. The system allows real-time monitoring via smartphones, enabling efficient, unmanned service automation. Our SaaS model reduces costs and accelerates deployment. With features for home, on-the-go, and destination charging, U-Charge enhances convenience and profitability for both EV owners and charger operators.


Website <https://www.wowtaiwan.org/company/1643>




TVCC's product:
U-Charge Smart cloud
charging management system

- Charging stations (hardware) work together with a charging management system (software)
- Most available software in the market: Performs only a point-of-sale function. Used by charge point operators to collect a fee from EV charging customers


Features of our smart cloud charging management system




More than just a point-of-sale software




Also an energy management system



Cloud-based





Compatible with all charging infrastructure




Developed by an established award winning software developer spun off from a government-sponsored institute

U-Charge's point-of-sale system






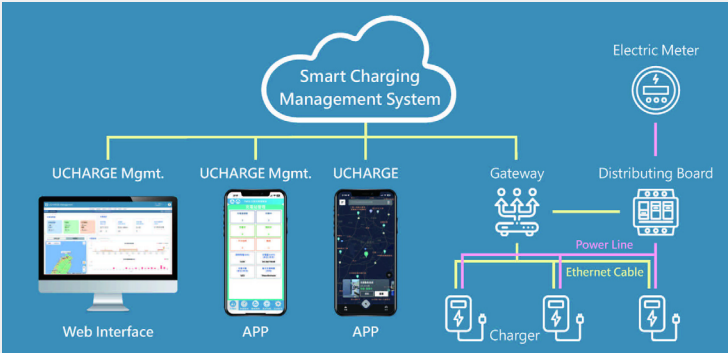
Top-notch security



Always available as long as a charging station is connected to the internet



Multiple payment methods
Accepts credit and transportation cards

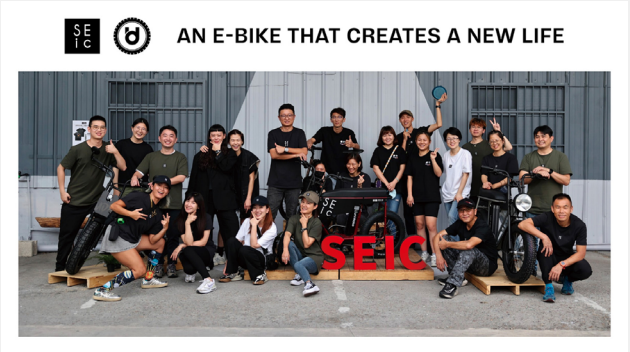




Smiling Elements International Corporation

Smiling Elements International Corporation blends aesthetics, sustainability, and innovative e-bike technology. Recognized in over 20 countries, we excel in ODM/OEM services and have a strong presence in the global market. Our flagship Unimoke MK, inspired by 1960s minibike design, offers personalized options, a detachable lithium battery, and advanced features for enhanced mobility and convenience. With a focus on R&D and local manufacturing partnerships, we provide high-performance, customizable e-bikes that redefine transportation, making it more enjoyable and accessible for everyone.

Website <https://www.wowtaiwan.org/company/1739>



GREAT POWER MICROELECTRONICS CO., LTD.

Great Power Microelectronics Co., Ltd. (GMC), a subsidiary of SmartChip Microelectronics Corp., drives innovation in electric mobility with advanced EV charging and energy management solutions. Founded in 1995 and headquartered in Taipei, GMC excels in independent R&D, providing state-of-the-art SoC solutions for various industries. GMC's EV charging solutions feature NFC card and mobile app support, fast/slow charge settings, and OCPP compatibility. The Smart Energy Management System (SEMS10) optimizes energy usage and cost efficiency. GMC also offers comprehensive EV infrastructure services in Taiwan, ensuring a seamless transition to electrified mobility.

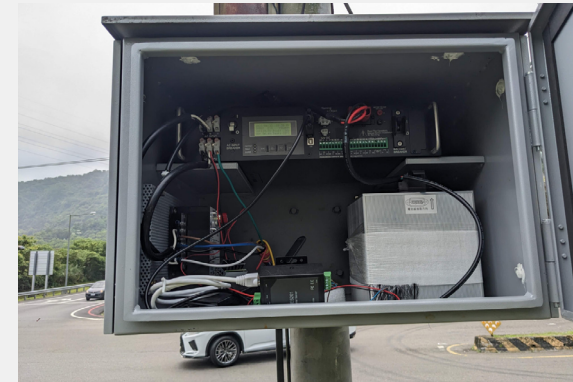
■ Website <https://www.wowtaiwan.org/company/1652>



All Good Energy Co., Ltd.

All Good Energy Co., Ltd., based in Taiwan, is a leading provider of innovative energy solutions for public and industrial sectors. We offer a range of products including solar batteries, IoT batteries, power control units, and comprehensive energy management solutions. Our Smart Power Control Unit enables separate or grouped control of energy storage on smart poles, integrating edge computing and a customizable battery management system for optimal performance and safety. Accessible via API, our system ensures real-time monitoring and efficient energy use, enhancing smart city infrastructure without the need for hardware changes.

Website <https://www.wowtaiwan.org/company/1664>



STARS CO., LTD.

Founded in 1988 by Edmund Cho, STARS Co., Ltd. is a leader in motion control for battery-powered vehicles. As the only full-line motor controller manufacturer in Taiwan, we serve markets in the USA, China, Japan, the Philippines, and Taiwan. Our motor controllers, used in electric bikes, motorcycles, scooters, golf carts, forklifts, and more, are tested at 100% power to ensure high quality. Featuring EV 4 quadrant technology, CANbus, and Modbus support, our controllers offer smooth, silent operation. STARS provides comprehensive EV solutions, delivering customized motor control and swift, end-to-end service for global electric vehicle projects.

■ Website <https://www.wowtaiwan.org/company/1680>



Solution 3



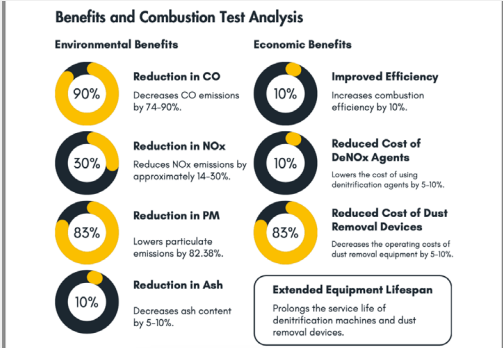
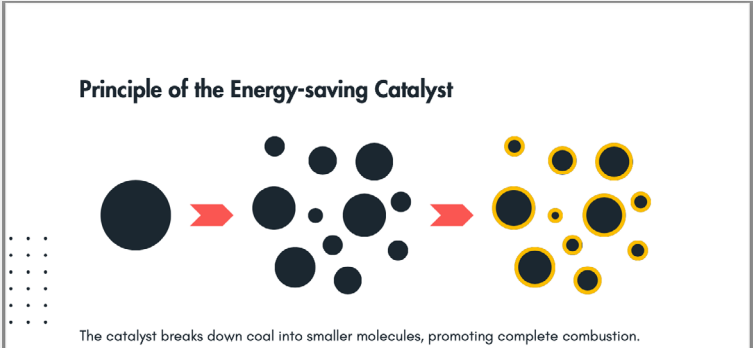
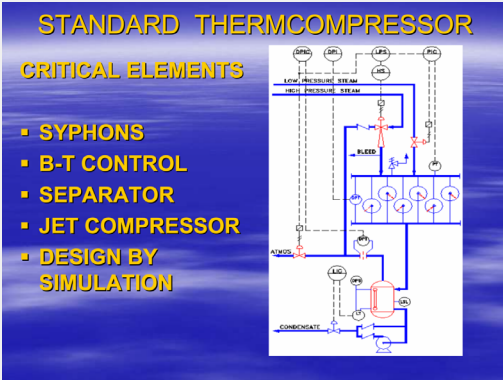
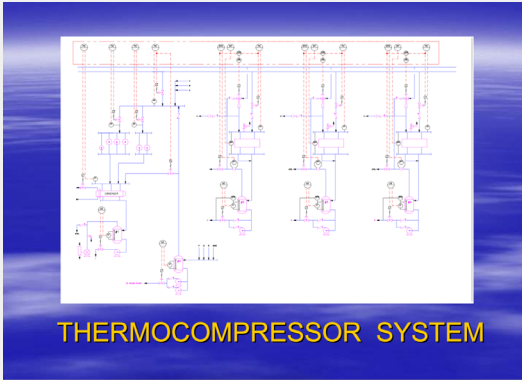
Renewable Energy Solutions

By harnessing Renewable Energy Solutions, businesses can curb emissions, promote eco-friendly practices, and mitigate environmental impact, fostering long-term sustainable development.

YU JING INTERNATIONAL CO., LTD

YU JING INTERNATIONAL CO., LTD, a start-up leveraging its parent company's connections, focuses on environmental and energy-saving projects. We offer advanced steam energy-saving systems and innovative coal-saving combustion-supporting agents. Our steam system uses thermocompressors for continuous steam recirculation, reducing fresh steam replenishment and increasing efficiency. The coal-saving agent enhances combustion efficiency, reduces emissions, and extends boiler life. These solutions help companies lower energy consumption, cut costs, and contribute to environmental sustainability, addressing global warming and energy conservation challenges.

Website <https://www.wowtaiwan.org/company/1625>

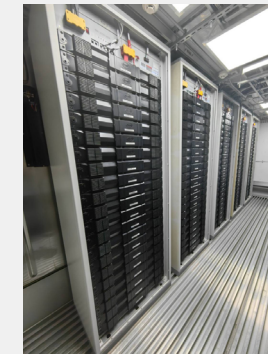
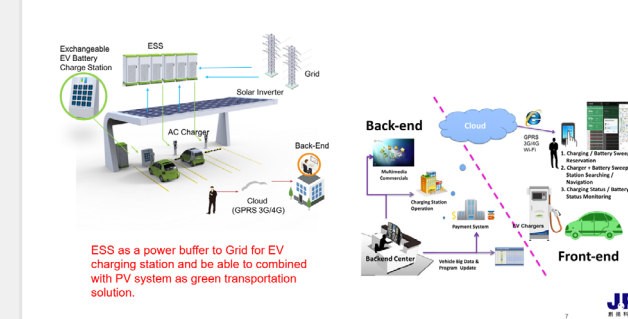


Digi-Triumph Technology Inc.

Digi-Triumph Technology Inc., established in June 2003, specializes in Li-ion battery energy storage systems and related applications. Our core technologies include battery-based energy storage, BMS, and EV power train systems. Our Just Power ESS solutions, designed in collaboration with Foxlink, are assembled in Taiwan and IEC certified. We offer customizable ESS solutions for home, commercial, and industrial applications, featuring air or liquid cooling, adaptable PCS-to-battery ratios, and comprehensive management systems. Our products ensure high performance, reliability, and a de-risked supply chain, addressing diverse energy storage needs efficiently.

Website <https://www.wowtaiwan.org/company/1629>

EV Charging Station ES Solution





Yuan Chang Tsay Industry Co. Ltd

Yuan Chang Tsay Industry Co., Ltd., founded in 1981 in Taichung, Taiwan, adheres to the philosophy of "Quality First, Pursuing Perfection, and Sustainable Management." Specializing in sewage treatment and waste recycling equipment, we leverage over 30 years of expertise and advanced technology. ISO 9001:2015 and CE certified, our products are globally recognized, with over 5,000 units sold. We offer high customization to meet diverse needs, earning excellent customer feedback. Our comprehensive solutions span filtration, concentration, dewatering, and drying, supported by strong R&D and technical capabilities. Contact us to explore collaboration opportunities.

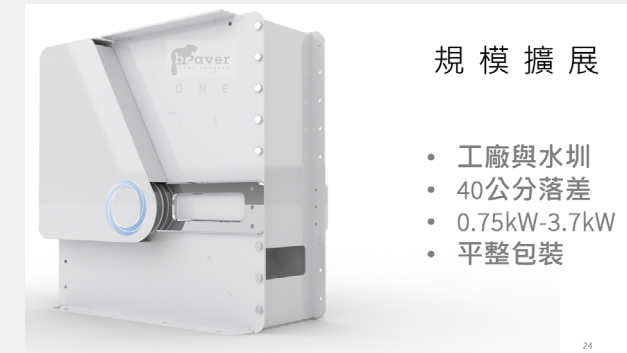
Website <https://www.wowtaiwan.org/company/1633>



Guangtai green energy co.,Lt

GuangTai Green Energy specializes in cost-effective, construction-free micro-hydroelectric solutions with ultra-low head and flow capabilities. Our modular, prefabricated generators, assembled in just one week, drastically reduce hydroelectricity costs compared to traditional installations. Versatile and environmentally compatible, our turbines can be used in diverse settings, including factory water systems and fish farms. Our innovative design minimizes disruptions to ecosystems and lowers both initial and maintenance expenses, making renewable energy accessible and affordable. Contact us to learn more about our rapid and sustainable energy solutions.

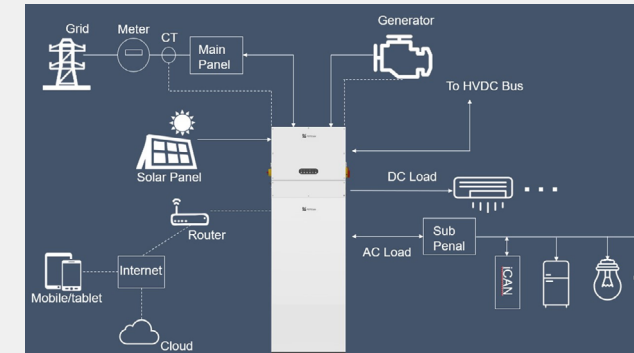
Website <https://www.wowtaiwan.org/company/1634>



Pomcube Taiwan

Pomcube Taiwan specializes in AI smart energy storage systems, leading in energy storage and management platforms. Our main product, the POMCube iCan NetZero Plus, integrates MPPT and smart energy management systems with UL9540 certification. With a continuous output of 11.5kW and a 20kWh LFP battery, it offers reliable power during outages and reduces high utility costs. The system supports cloud and app management, optimizing solar usage, providing backup power, and balancing energy demand. Our solutions make energy storage accessible, affordable, and efficient for all users.

Website <https://www.wowtaiwan.org/company/1635>





UWin Resource Regeneration Inc.

UWin Resource Regeneration Inc., founded in January 2022, leads in advanced lithium battery recycling. Our green chemistry and hydrometallurgy techniques safely and efficiently extract valuable metals from waste batteries, producing high-purity recycled materials like lithium carbonate, lithium hydroxide, nickel sulfate, and cobalt sulfate. These materials can be reused in new batteries, reducing the need for mining and supporting sustainable practices. Our comprehensive services include technical guidance for new recycling factories, balancing environmental safety, resource regeneration, and high-value recycling. UWin aims to optimize lithium battery life cycles and support a circular economy.

Website <https://www.wowtaiwan.org/company/1636>

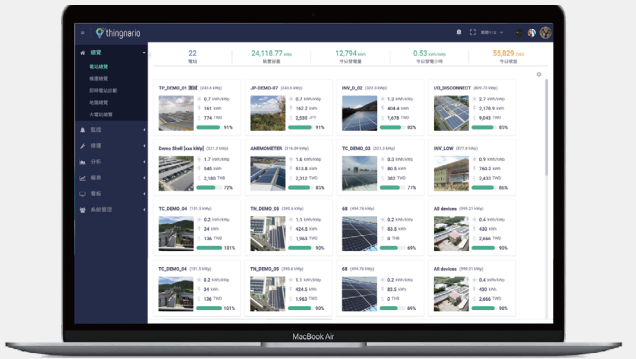
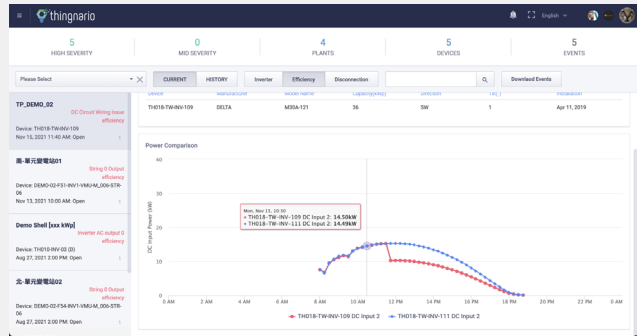




Thingnario Co., Ltd.

Thingnario Co., Ltd. is a pioneering software company revolutionizing the energy industry with cutting-edge SaaS products powered by IoT and AI (AIoT). Specializing in PV monitoring and O&M management, our PHOTON Solar PV Solution centralizes data from all site devices, providing real-time and historical insights through a single platform. Using machine learning, PHOTON diagnoses power generation issues, sends automated alerts, and streamlines maintenance with work orders. Serving Taiwan and other Asian markets, Thingnario manages over 3.1GW of device capacity, enhancing energy efficiency and operational effectiveness for clients worldwide.

Website <https://www.wowtaiwan.org/company/1640>



Originlimit Co.,Ltd

Originlimit Co., Ltd. addresses local surplus materials through innovative technologies, focusing on biodegradable pots, cat litter, and kitchen waste processing. Our Raw Food Waste Recycling and Regeneration System processes 100kg of waste every 2 hours without heating, emitting no wastewater or odors. The system enhances soil health with nutrient-rich compost, reduces energy use, and supports a low-carbon circular economy. Compact and easy to operate, our modular equipment facilitates widespread deployment, ensuring environmental benefits and operational safety.

Website <https://www.wowtaiwan.org/company/1647>

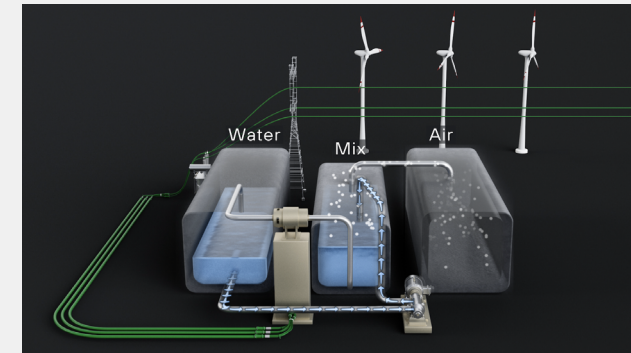




MASSIVE GREEN ENERGY CO., LTD.

MASSIVE GREEN ENERGY CO., LTD. pioneers high-efficiency energy storage technology, advancing renewable energy for sustainable development. Our innovative solutions include Pump Hydro 2.0 and Compressed Air Pumped-Storage Hydroelectricity (CAPHES), which operate without geographical constraints or environmental damage. Our milestones include a 100GW solar and energy storage project in Indonesia and a 10MW storage contract in Malaysia. Our systems efficiently store and generate electricity, offering eco-friendly, cost-effective energy storage with a lifespan of up to 40 years. Flexible and modular, they stabilize power grids and reduce carbon emissions.

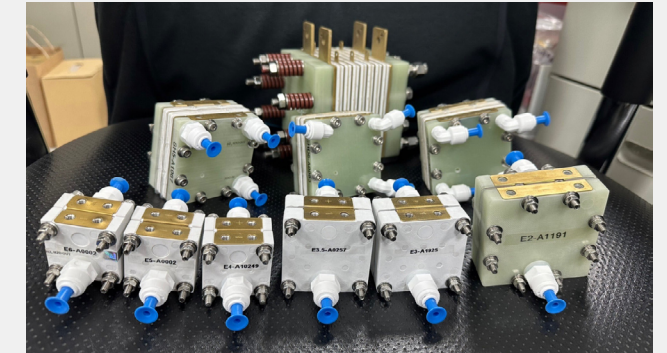
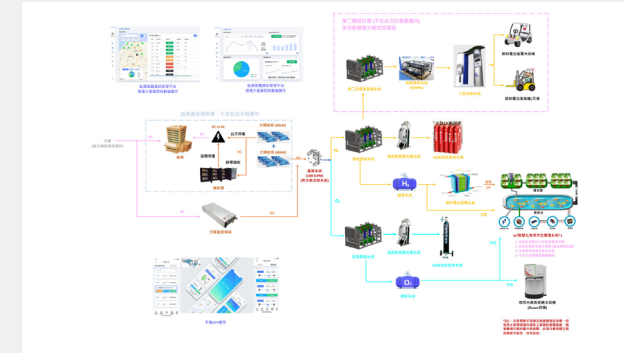
■ Website <https://www.wowtaiwan.org/company/1649>



U Hydrogen Technologies Co., Ltd.

U Hydrogen Technologies Co., Ltd., established in 2017, specializes in Proton Exchange Membrane Water Electrolyzers (PEMWE) and related equipment. Our expert team, with nearly a decade of experience and four PhDs, has independently developed technologies from catalyst slurry formulation to PEMWE cell design. We offer customizable MEAs and PEMWE with advanced surface treatment and coating techniques, ensuring high performance and longevity. Our PEMWE technology produces high-purity hydrogen efficiently, making it ideal for integration with renewable energy sources. We hold the record for the highest hydrogen production volume in Taiwan.

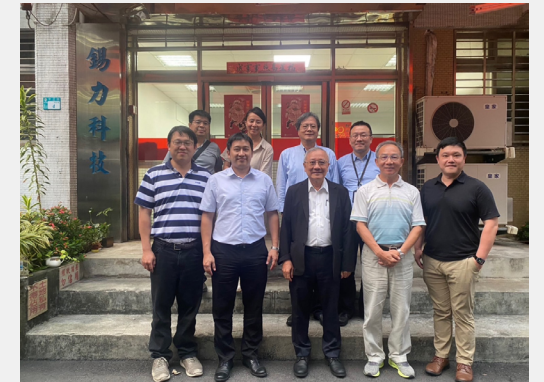
Website <https://www.wowtaiwan.org/company/1653>



YC Synergy Co., Ltd.

YC Synergy Co., Ltd., founded in 2012, specializes in Fuel Cell Power Generation System technology with over 14 core patents. Headquartered in Taipei, Taiwan, YC Synergy is among the few companies with in-house fuel cell module design capabilities, holding CR (Marine) and international automotive certifications. Our MARK Series Fuel Cell Power Generators use hydrogen to produce clean electricity, emitting only water and heat. Compliant with GB and SAE standards, the MARK Series offers a 400,000 km drive-range warranty and full power range utilization. Ideal for commercial vehicles, marine applications, and stationary power stations, it ensures easy adoption with our complete turn-key solution.

■ Website <https://www.wowtaiwan.org/company/1657>



GAMA Green-Energy Technology Co.,Ltd

GAMA Green-Energy Technology Co., Ltd. specializes in converting organic waste into renewable energy using advanced gasification technology. By transforming biomass, agricultural, and industrial waste into Refuse Derived Fuel (RDF) and syngas, GAMA generates stable electricity through Micro Gas Turbine Generators (MTG). Committed to sustainability and environmental protection, GAMA ensures compliance with strict pollution standards. Our biomass power plants (19kW/hr-2,000kW/hr) efficiently gasify various organic wastes while meeting emissions regulations. We provide comprehensive project support, from feasibility studies to turnkey plant supply and maintenance, ensuring successful renewable energy production and utilization.

Website <https://www.wowtaiwan.org/company/1677>

GASIFICATION



Our Products



Our Products

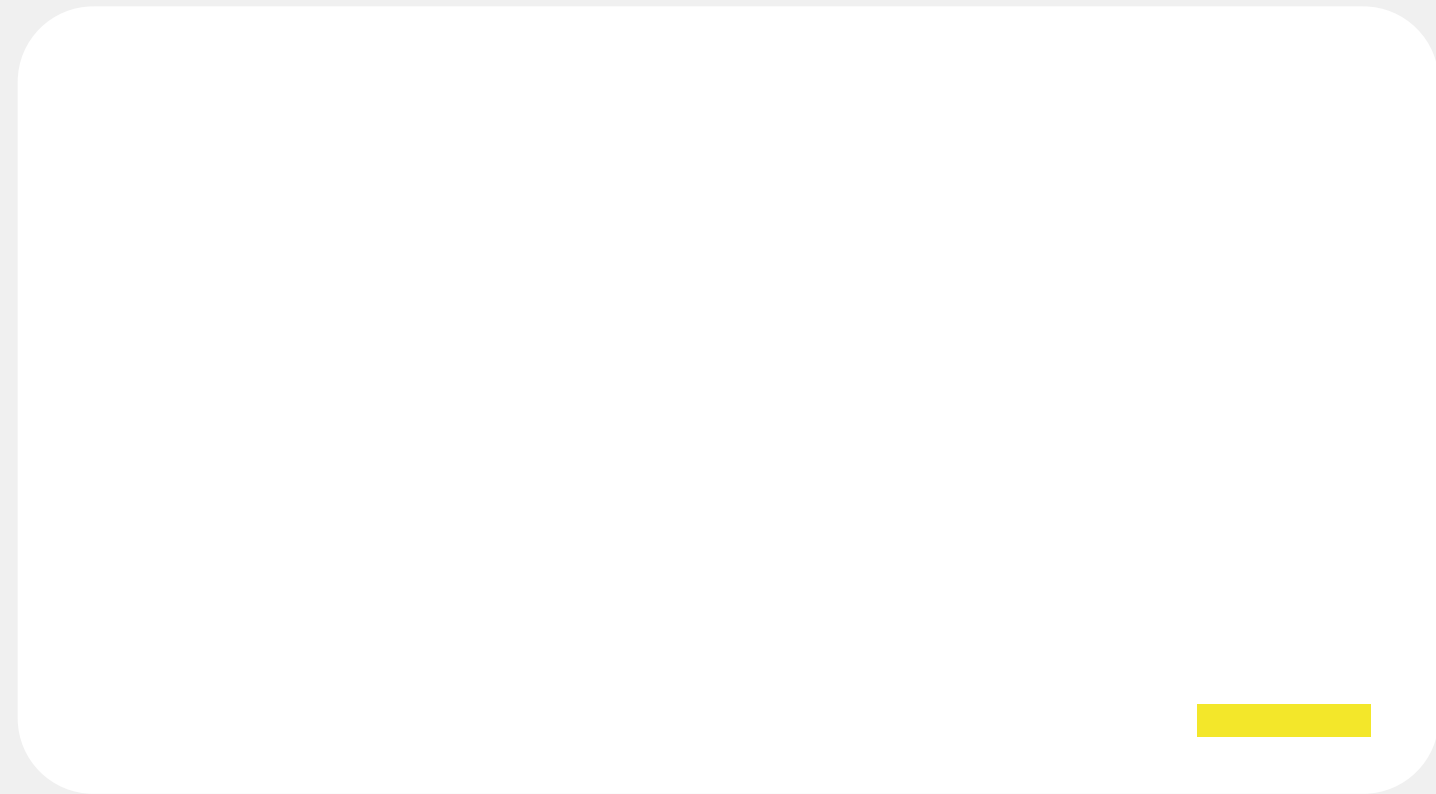
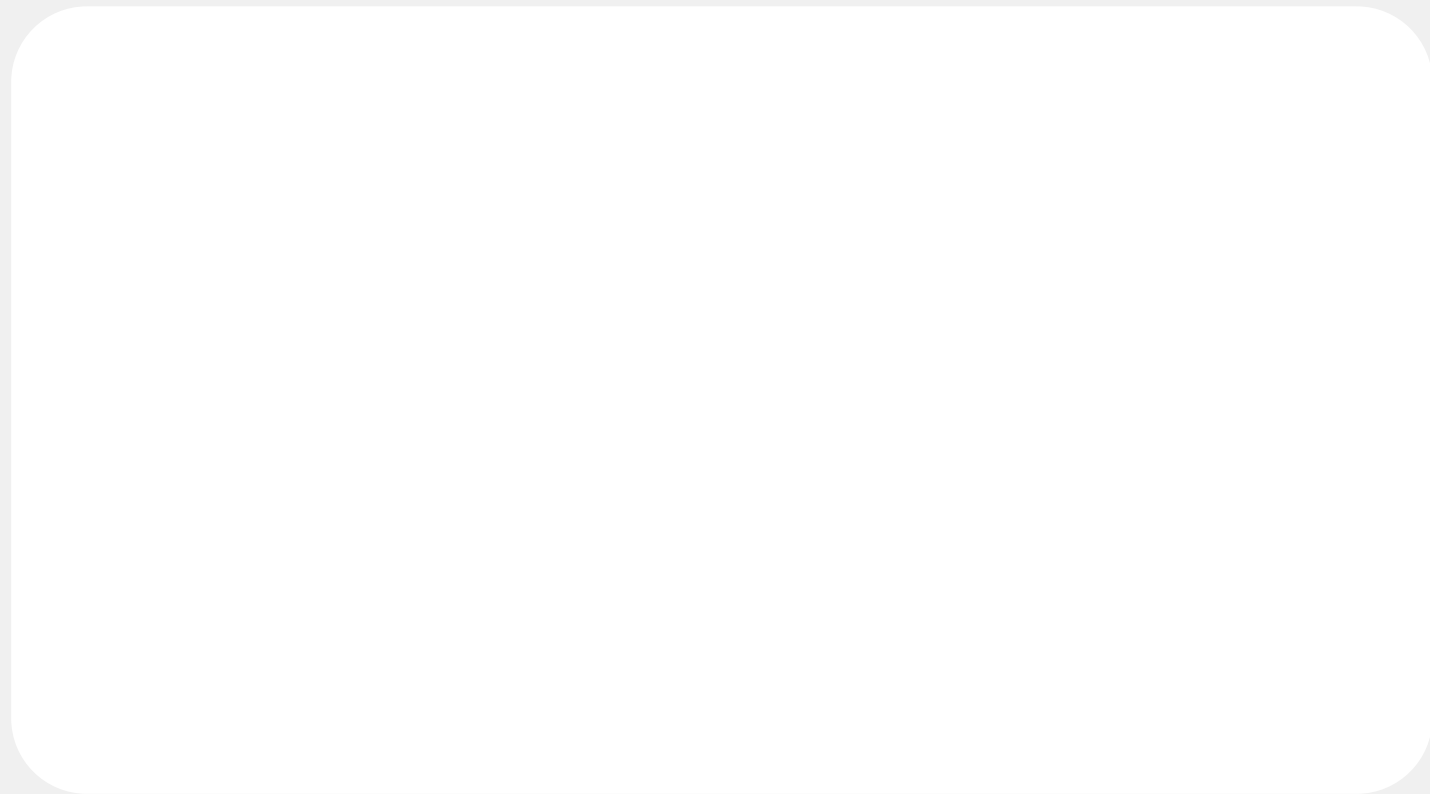


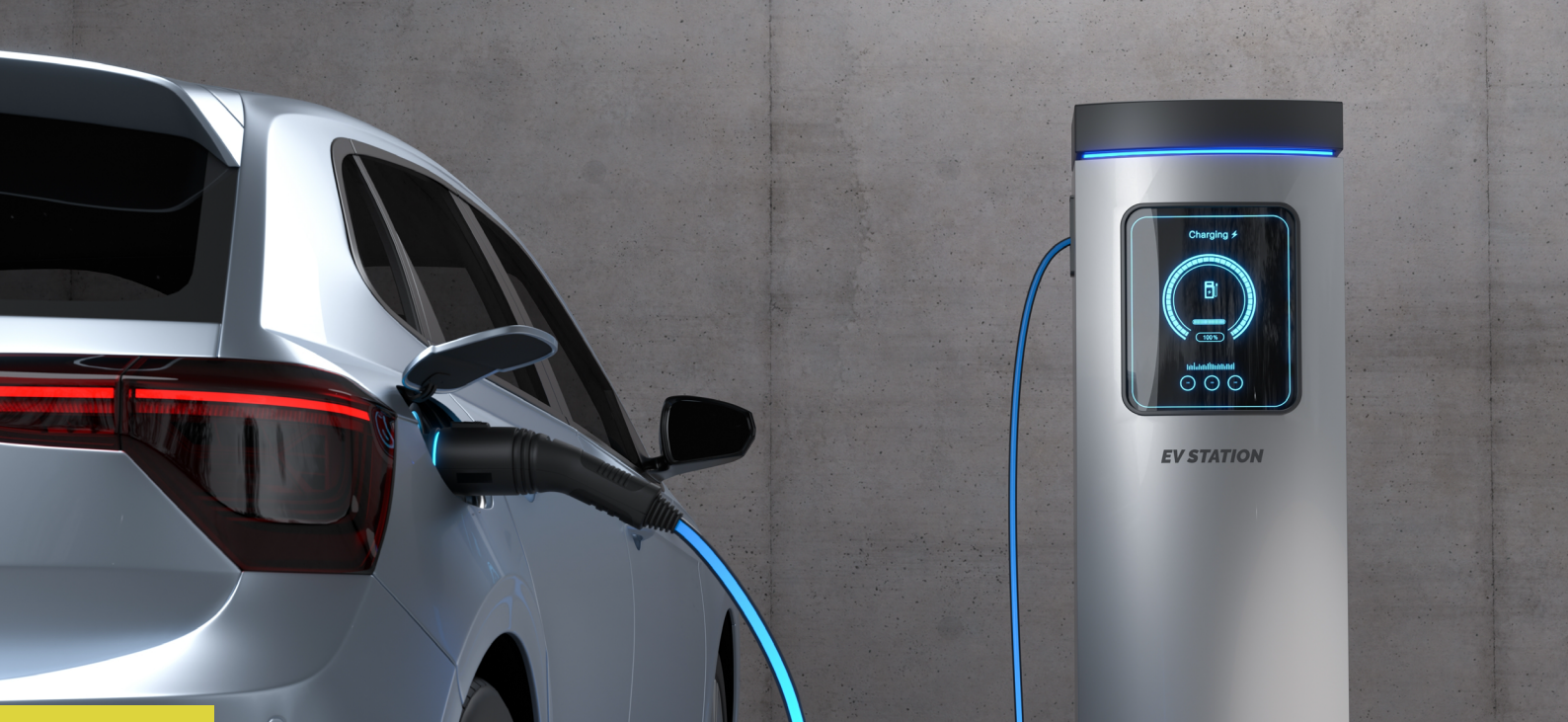
TennRich International Corp.

TennRich International Corp., founded on September 24, 1986, is a pioneer in the Portable Power industry, committed to delivering innovative, high-quality products. Our Portable Power Station features a 270,000mAh battery, supports devices up to 1100W, and offers multiple outputs, including fast charging via USB-C and wireless charging. Ideal for outdoor activities, mobile offices, car appliances, and medical devices, it includes a special grounding design for emergency EV charging. Lightweight at 8.9kg, it supports solar panel charging and comes with certifications like CE, FCC, and UN38.3, backed by global product insurance of USD 2 million.

Website <https://www.wowtaiwan.org/company/1682>



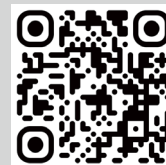




Organizer



Implementer



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