



Smart Energy

!TVV Wow ! Taiwan Project

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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 BOFT (Bureau of Foreign Trade) 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.

Infomedia Inc. was founded in 2003 as a subsidiary company of Fortune Oriental Company Limited Group (2491.TW) to manufacture blank media and target worldwide markets. The company, which is ISO9001/2000 certified, has become one of the key blank media manufacturers for customers from Japan, Europe, and the US, achieving sales revenues of 11 million USD from the blank media business.

In July 2021, Infomedia formed the Electric Vehicle Business Division as its core business to engage in powertrain design and manufacturing. The new Electric Vehicle team comprises talented engineers and veterans who possess years of automotive development experience and have worked with Tier 1 car makers. The team has full familiarity and knowledge of multiple automotive standards such as ISO-26262 and IATF16949 (International Standard for Automotive Quality Management Systems) to ensure that the design and production processes meet safety, reliability, and quality standards.

Our vision is to become one of the world's leading companies that bring powertrain innovations to the world through thrilling, reliable, faster, and better mechatronic engineering.





Our in-house developed energy-saving technology EV power system features a highly integrated (3-in-1) drive controller, motor, and gearbox. The characteristics of this design reduce volume and weight, and provide high power density (4.30 kW/liter) power output, low idle loss: close to 0% (fuel vehicle: 3%), high transmission efficiency: 77% to 82% (fuel vehicle: 16% to 25%), zero emission pollution: 0% (fuel vehicle: COx, NOx, Sox).

The drive controller and motor share a liquid-cooled heat dissipation system, and a built-in waterway interface reduces the connection and maintenance process of water pipelines. The use of a permanent magnet flat wire motor provides a wide range of high-efficiency operating areas. A closed-loop control algorithm, adopted to provide reliable and stable motor operation, utilizes position sensor closed-loop control.

Our system complies with ISO26262 system functional safety design.



eTreego is a design company that specializes in electric vehicle control modules, formally supported by Taiwan's Industrial Technology Research Institute (ITRI) for entrepreneurship. The team has been dedicated to researching and developing electric vehicle control systems for over a decade. Our products include charging systems, motor control systems, vehicle control systems, and battery management systems. We are experienced in charging stations and charging piles, and has been promoting charging standards for electric cars and electric motorcycles. The industry recognizes our product design capabilities, and our products are sold worldwide, making us the designated partners for various car manufacturers.





- **Intelligent Charging Energy Management:**

In addition to the basic charging function, the combination of the CCMS (Cloud Charging Management System) system creates an intelligent application effect in charging energy management. The integration of eTreego's interactive charging management technology also reduces the use of power contract capacity by 20% to 40% for charging products. This application combination makes it possible to respond separately to the electric vehicle demand power and the available power information of each charging equipment, achieving the charging application of dynamically adjusting the charging equipment to correspond to multiple vehicles. This patented technology is registered in Taiwan, China, the United States, and other markets.

- **Other features include:**

Support for field power and load demand for charging regulation. It can be managed and controlled with the operator's background management system. Customized design adjustments are available.

- **Patent**

1. Electric Vehicle Charging Equipment
2. Charging device detection system and method
3. Active recovery system for electric vehicle charging
4. Mechanical parking charging detection system
5. Electric vehicle charging device

- **Certificate**

1. CNS certification in Aug. 2021
2. IEC certification in Dec. 2021



Taiwan Vehicle Charging

COMPANY



Taiwan Vehicle Charging is an electric vehicle charging system and service operator. It is committed to facilitating the use of electric vehicle charging piles, creating a complete solution for power consumption, and providing a smooth service process. It combines financial technology (FinTech), smart Internet of Things (IoT), big data and other technological applications to make charging easier and safer.

Therefore, we propose a comprehensive solution without obstacles to charging electric vehicles in the future. We have created a Cloud Smart Charging Pile based on which the system responds to various charging states of the car owners, corresponding to the shared charging piles for charging at the destination, fast charging for charging during the journey, and the regional power management system for charging at home.



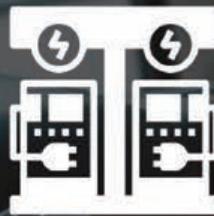


What We Do

Solve all the problems of charging in "Ucharge Total Solution".



Charging System
Integrator



Charging Point
Operator (CPO)



Innovative
Technology



Business
Model

We install and manage chargers





Mobile Drive Technology

COMPANY



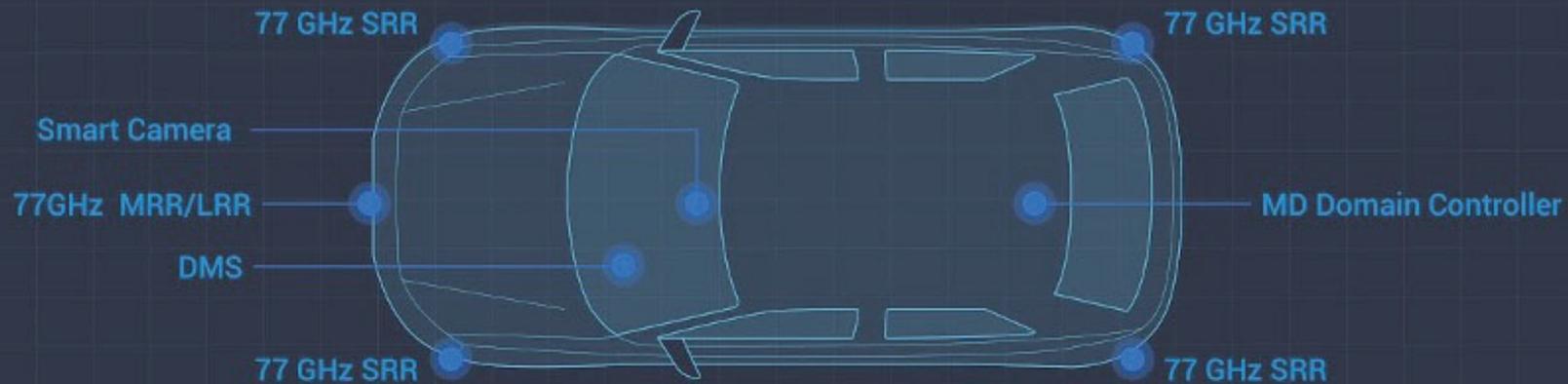
Established in 2019, Mobile Drive Technology Co., Ltd (Mobile Drive) originated from the automotive division of FIH Mobile, a subsidiary of Hon Hai Technology Group (Foxconn). Mobile Drive focuses on the research and development of in-vehicle solutions and connected car services. On December 31st, 2021, Mobile Drive became a 50-50 joint venture of FIH Mobile and Stellantis, to develop infotainment, telematics, and cloud service platforms, along with ancillary hardware and software. Mobile Drive's headquarters are in the Netherlands and offices are in Taiwan and China.

This innovative joint venture positions Mobile Drive at the forefront of global efforts to deliver a new frontier of in-cabin information and entertainment capabilities. It combines FIH Mobile's extensive knowledge of software/hardware integration and ICT expertise with global vehicle design and engineering expertise from Stellantis. At the current stage, Mobile Drive is focusing on the development of three core products: Smart Cockpit, Advanced Driver Assistance System (ADAS), and Connected Services. We will continue to expand product portfolio and commit to turning vehicles into more personalized and intelligent devices.





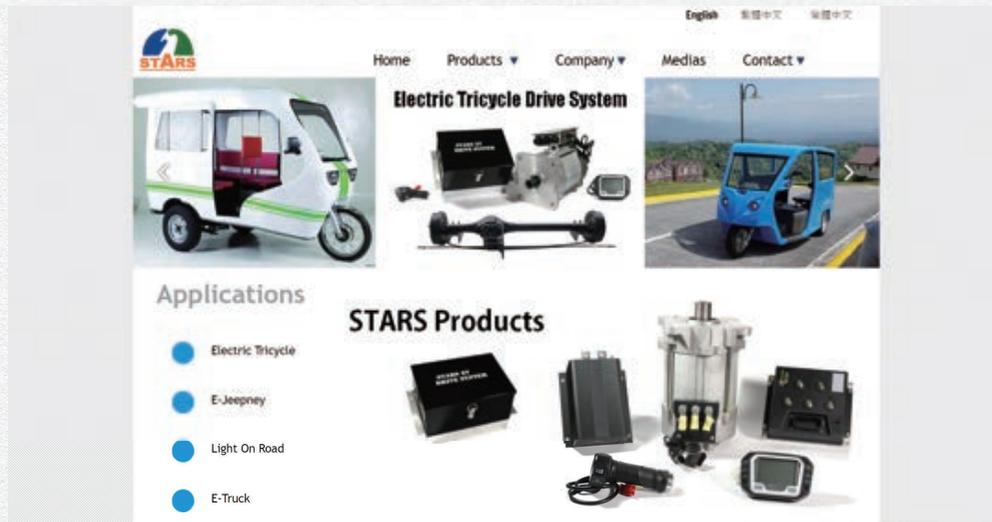
System Configuration and Functions



- Longitudinal ADAS Functions**
- Front Collision Warning/Pedestrian Collision Warning (FCW/PCW)
 - Autonomous Emergency Brake – Car to Car Rear (AEB CCR)
 - Autonomous Emergency Brake – Vulnerable Road Users (AEB VRU)
 - Autonomous Emergency Brake – Turning (AEB CCFtap, CPTA)
 - Full Speed Range Adaptive Cruise Control (FSRA)
 - Auto HiLo Beam (AHLB)
 - Traffic Sign Recognition (TSR)
 - Intelligent Speed Limitation Control (ISLC)
 - etc.

- Lateral ADAS Functions**
- Lane Departure Warning System (LDWS)
 - Lane Keeping Assist (LKA)
 - Lane Following Control (LFC)
 - Emergency Lane Keeping (ELK)
 - Blind Spot Detection (BSD)
 - Rear Crossing Traffic Alert (RCTA)
 - Lane Change Alert (LCA)
 - etc.

- Integrated ADAS Functions**
- L2 driving assistance (Highway assist/Traffic Jam Assist)
 - L2.5 driving assistance (Pilot)



- STARS company was founded in 1988 by Edmund Cho, an engineer and entrepreneur highly motivated to invest in electronic motion control at a time when its enormous potential was visible only to a few.
- STARS is leader in motion control for battery power vehicles. STARS was the fewer whole line motor controller manufacturer in the world and the only one in Taiwan.
- STARS started it at Taoyuan, Taiwan. We have one EV R&D center, assembly factory and warehouse in Taiwan.
- Our main market is USA, China, Japan, Philippine, Taiwan...etc. 50% for electric vehicle (two, three, four wheels electric vehicle) , 22% for battery power industrial vehicle, 18% for material handling machine, 10% ODM motor controllers.
- Today our motor controllers have already been used in many kinds of electric vehicles like electric bike, electric motorcycle, sweeper, scooter, golf car, passenger carrier, light on road, pallet truck, fork lift, AGV...etc.
- Our mission is to become the largest and most trusted provider of electronic control systems for battery powered vehicles in the world.

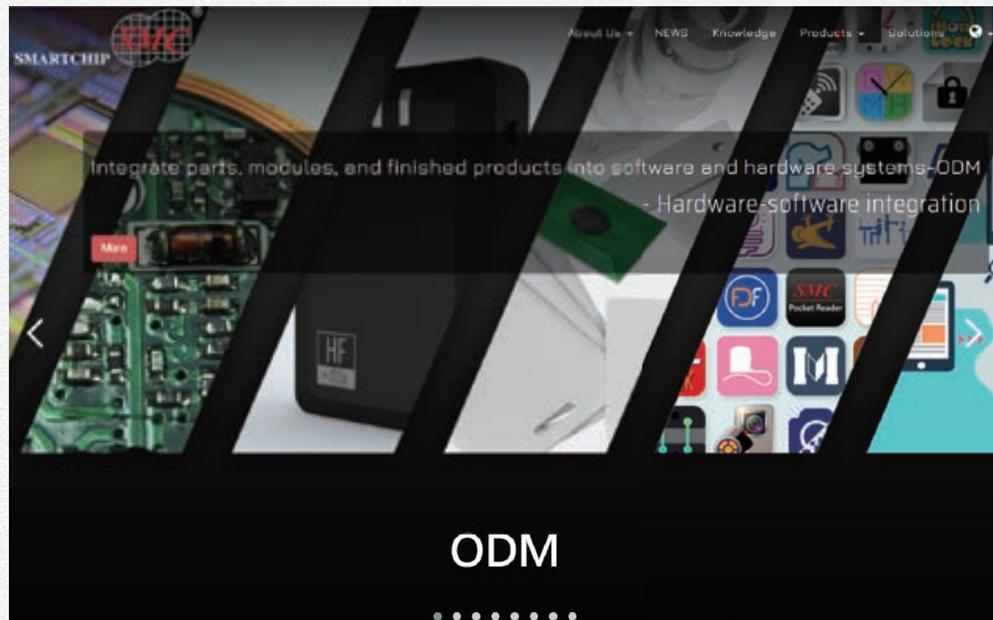






GREAT POWER MICROELECTRONICS.

COMPANY



Great Power Microelectronics Co., Ltd. is a highly esteemed semiconductor company specializing in the design and development of innovative system-on-chip (SoC) solutions for a wide range of applications. Established in 1995, the company is based in Taipei, Taiwan, and has additional offices and facilities in Shenzhen, China.

A key strength of GMC is its unwavering commitment to independent research and development, carried out by a dedicated team of engineers and scientists who work tirelessly to design and optimize state-of-the-art SoC solutions.

GMC's products are widely used in various industries, including mobile communication, consumer electronics, industrial automation, and IoT devices.

Furthermore, GMC has an effective marketing and sales model that enables it to reach customers worldwide. The company's products are sold through a network of authorized distributors and sales agents in Asia, with a strong emphasis on building long-term partnerships with its clients.

GMC's global presence is further enhanced by its unwavering commitment to international standards and certifications, including ISO 9001. Our company offers a range of RFID solutions, including LF and HF chips and readers. As a result, we partner with world-renowned first-tier manufacturers such as NXP and ST and also provide customized solutions for special usage scenarios.



The 7KW intelligent AI charging pile and RFID Reader Module



Company Registration Form: This document is the official registration form for SMC, which includes information about the company's legal entity, business scope, registered capital, and other relevant details. It is an important legal document required for any company to conduct business operations in Taiwan.

Factory Registration of producing wireless and parts of automotive/motor-bike: This document is the official registration of SMC's Zhonghe factory, which produces wireless parts for automotive/motor-bike. This registration ensures that the factory meets all local regulations and requirements for producing and selling these types of products.

ISO9001 Certification: This document certifies that SMC has successfully implemented and maintained an ISO 9001 Quality Management System. This certification ensures that the company has a systematic approach to managing its processes and ensuring consistent product quality. It is an internationally recognized standard that demonstrates the company's commitment to quality and customer satisfaction.



• Company profile:

- (1) Innotek Photoelectric Technology Corp. is a professional manufacturer of LED products.
- (2) The company was founded in 2007 and based in Taipei, Taiwan.
- (3) INNOTEK has manufacturing facilities in Taiwan and China. The branch offices are located in Taipei, Taichung, and Kaohsiung.

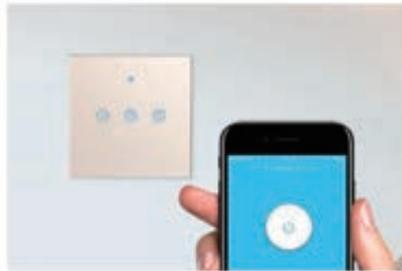
• Highlights:

- (1) Innotek has a strong focus on research and development and has a dedicated team of professionals working on product innovation and design.
- (2) The company has developed a range of patented technologies and products, including LED lamps, bulbs, tubes, and modules.
- (3) Innotek's LED products are energy efficient, environmentally friendly and have a long life expectancy.

• Features:

- (1) Innotek has a well-established marketing and sales strategy, with a focus on building strong partnerships with distributors and retailers.
- (2) The company has a wide distribution network locally and has established strong partnerships with established brands and retailers.
- (3) Innotek's LED products are widely used in various applications, including commercial, residential, industrial, and outdoor lighting.
- (4) The company is committed to sustainable and responsible business practices, including using environmentally friendly materials and reducing waste in production.





Smart Device

Smart Recessed light / Smart Panel light / Smart Series lamp / Touch Panel / Smart Plug etc....



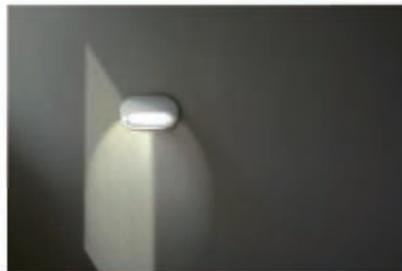
Energy-efficient

Efficiency Ceiling Fixture / Ceiling Fixture / Tubes Fixture / Aluminum Tube Fixture etc....



Led Indoor Light

Led Tube / Led Bulb / Downlight / Ceiling-mounted Light / Recessed light / AR111 / MR16 / Track light etc....



LED Outdoor Light

Wall / Garden / Stair / Underground etc....

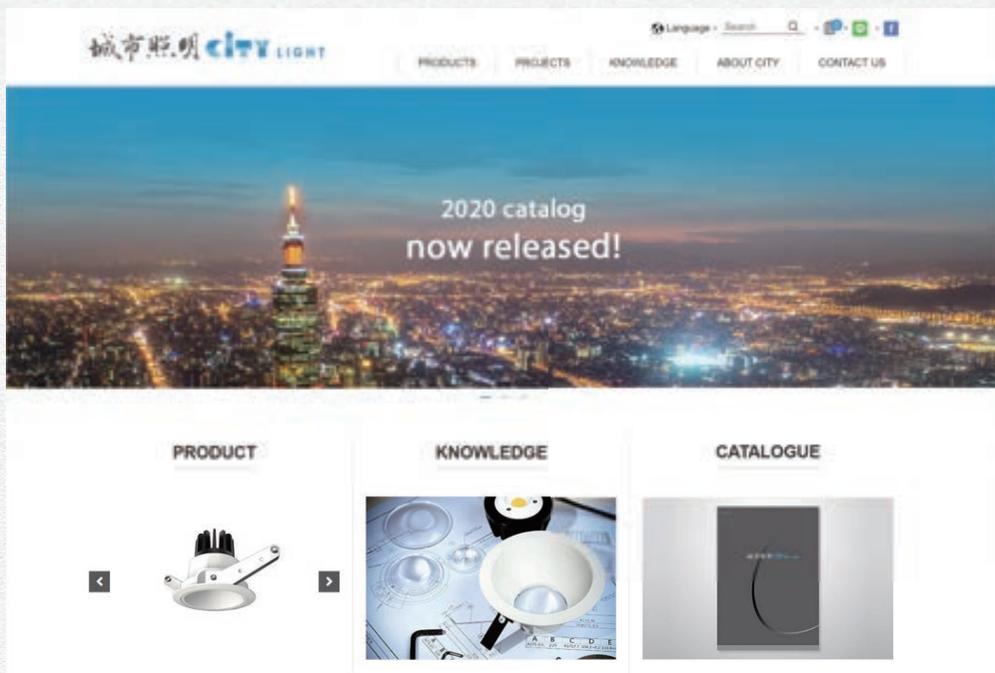


Professional Light

Hanging type Tube Fixture / Damp-proof Tube Fixture / exit sign / Anti-Moisture Anti-Dust Series etc....



High Bay Light Energy-saving fan Others



CITY LIGHT will soon celebrate its 30th anniversary! We gradually developed a global market since established a long-term and stable cooperation with our Japanese partners in 2000. Meanwhile, we also deeply cultivate localized services, and insist in "Researched, developed and made in Taiwan."

Blending Japanese and European commercial lighting design styles, we established a complete product line with new generation of LEDs.

CITY LIGHT keeps active participation in iconic lighting exhibitions in Tokyo, Hong Kong and Frankfurt, in order to provide high quality lighting services in Asia and Europe.



PRODUCT

Downlight 嵌燈系列



Gold Ingot Downlight 基礎型 / 淺型元寶燈系列



Matrix Downlight 方形 / 圓形可調向盒燈系列系列



Ceiling Light 吸頂筒燈系列



Spot Light 管型投射燈系列 / 模組型投射燈系列



Panel Lights 超光效 LED 一般工程燈列





We focus on intelligent building and smart home system integration over a decade. We've started to develop our own brand products since three years ago. And we are selling to North America and Vietnam now. We provide not only good products but also offer a S.O.P in a smart project and include the planning training . Support our local dealer to run better.

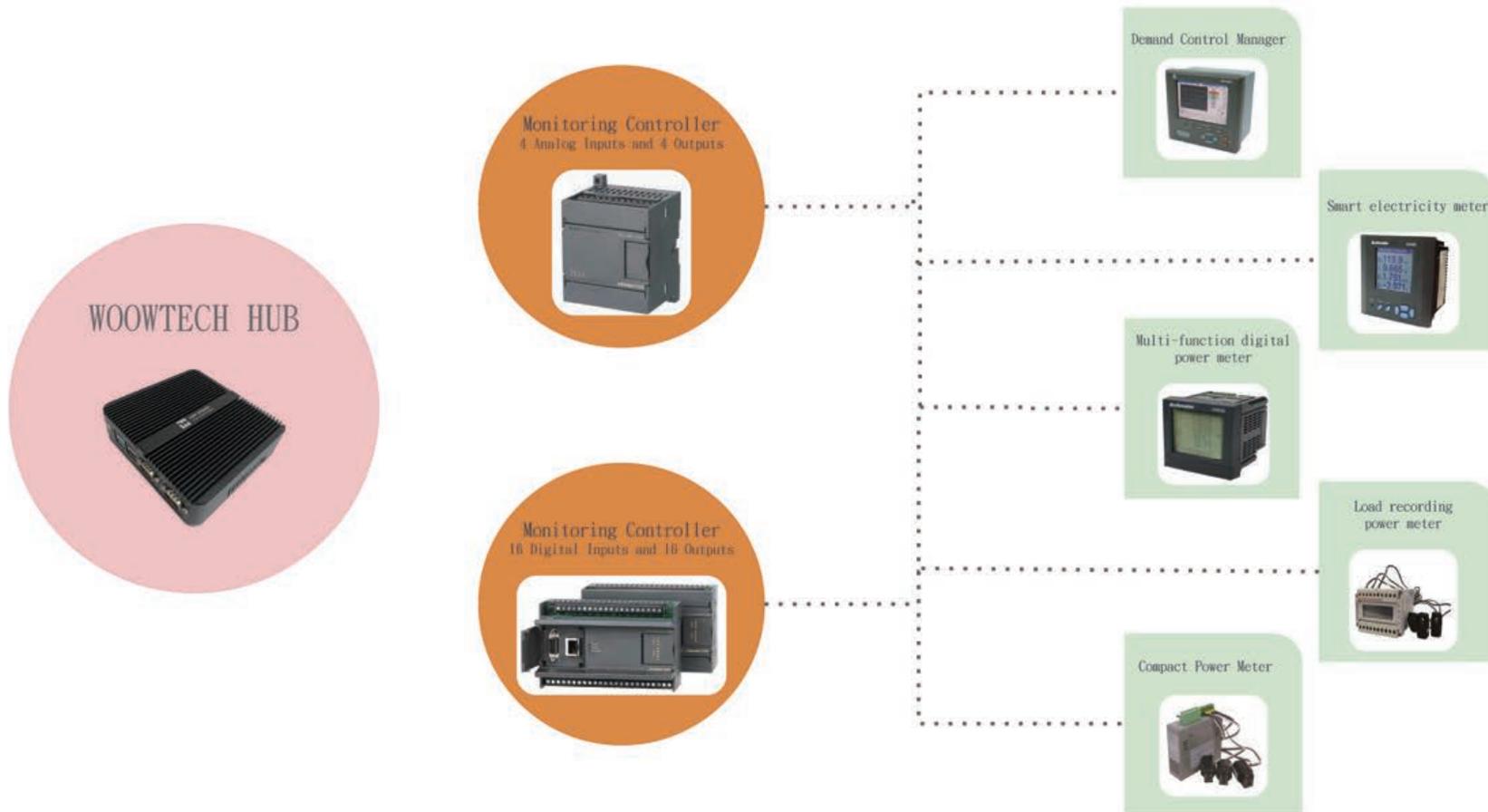


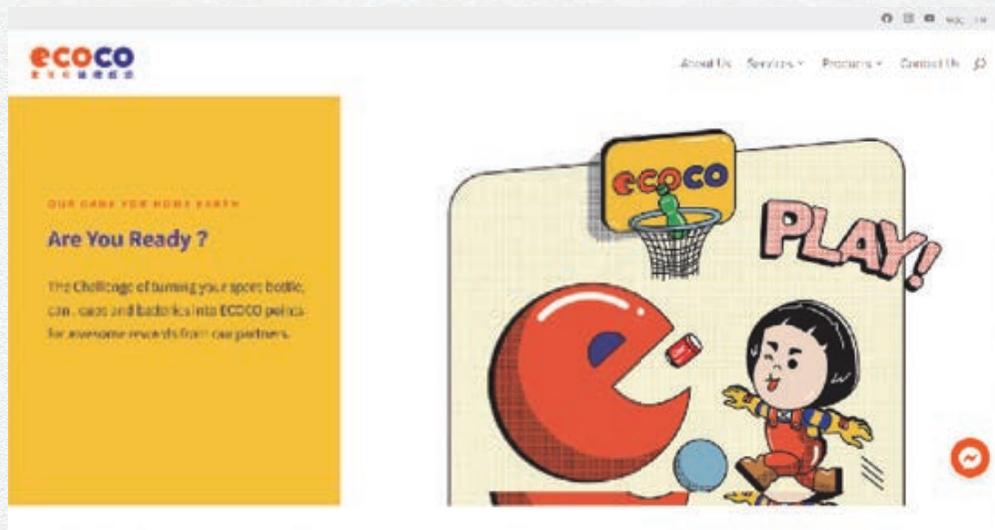
 Sunshine 日光	 照明 開/關、調光、調色	 窗簾 自動開、閉幕、記憶	 能源監控 智慧電表、電力監控
 Air 空氣	 空調 冷暖氣、中央空調、 全熱、除濕機	 空氣品質 PM2.5、VOC、CO2、 CO、濕度	 家電 電風扇、空氣清淨機、 抽風機
 Water 水	 安全 水塔水位偵測、漏水偵測、 消防系統推助	 能源監控 智慧水錶、水質監測	
 Other 其他	 影音劇院 擴大機、機上盒、 自動播放器、PSS、 APPLE TV	 家電設備 掃地機器人、智慧燈條、喇叭	 門禁系統 門窗紅外、對講機系統



We provide professional lighting and smart home solutions, including integration services of switch systems, lighting, curtain, air-conditioning, security, audio, video, energy monitoring, etc.







In 2018, we introduced the most advanced and effective Bottle Vending Machine in Taiwan, along with a brand new ECOCO business model that successfully introduced this new recycling system to the general public. Since then, we have become the benchmark for eco-vending machine systems in Taiwan.

Unlike Europe's Deposit-Refund system, ECOCO cooperates with diverse CSR partners to provide coupons as incentives to users. For our CSR partners, our business model not only helps them achieve their PR goals but also brings more customers to their branches through ECOCO. It's an "All Win Model" for everyone involved.

• **Our milestones include:**

- (1) Received 12 National Awards
- (2) Served 1 million users
- (3) Accumulated 35,000 operating hours
- (4) Running 120 machines across 14 cities in Taiwan
- (5) Reduced 2418.37 tons of carbon emissions by the end of 2022.





What makes ECOCO different from all other recycling vending machine brands is that we make recycling a fun and engaging activity. We hope people will do the right thing for the Earth and have fun at the same time. We have created our own reward program combined with coupons from our CSR partners to encourage people to use our new recycling system and claim the rewards, resulting in a win-win situation.

While other brands focus on the negative aspects of environmental issues, we don't downplay their importance, but instead, we've designed our CI/VI with bright, energetic colors such as yellow, orange, and blue. We've also created a cartoon IP to convey our brand image and differentiate ourselves from other brands.



Established in 2014, Hedian Digital Integration Technology specialized in providing integrated platform solutions. Our exclusive platform integrates various data sources, including CCTV, access control, environmental control, and power usage, providing customers with a comprehensive view and remote control of all IoT devices.

Additionally, our platform collects and analyzes energy consumption data, empowering customers to optimize their energy usage and take significant steps toward energy-saving initiatives. With our roots in low-voltage engineering, we have established a strong track record of successful projects across multiple industries, including schools, factories, retailers, commercial spaces, and whole building planning and construction.

In 2019, we expanded subsidiary in Singapore, aiming to bring our expertise to the Southeast Asian market. At our core, we are committed to providing safe, efficient, and sustainable solutions for our customers. Our integrated platform offers visual verification and data collection essential for future ESG efforts, contributing to a sustainable future. Join us and experience the benefits of our innovative platform solutions.





Our goal is to enable the complete implementation of smart cities while keeping technology human-centered. We provide end-to-end services, from planning and construction to software integration, to resolve communication and maintenance problems caused by outsourcing from different vendors in the past.

Our integrated platform is built on a foundation of security. It collects and synchronizes data with images, including access control system information, environmental monitoring, equipment power consumption data, air quality, etc.

Accurate energy management and carbon reduction in buildings and industrial manufacturing can only be achieved by mastering electricity usage data.

By monitoring systems, managing data, and analyzing energy consumption or abnormal conditions, we can achieve peak shaving and fill-in. The most crucial aspect of smart buildings is efficient electrical engineering, which serves as a critical starting point to realize zero-carbon goal in the future.



OSMART Solutions is dedicated to working out the most cost-effective, state-of-the-art IoT solutions and project management services, and ensuring trouble-free operations. We develop Solar PV power, wireless technology, Energy Management System integration, and provides complete systematic smart networking / Industrial Internet of Things (IIoT) solutions, inclusive of Solar PV Energy, Smart Building, Smart City, Smart Agriculture, and Industrial Automation. We provide a one-stop green and network system of IIoT to fulfill the requirement of comprehensive upgrade edge computing products and smart management platforms in IoT vertical markets.

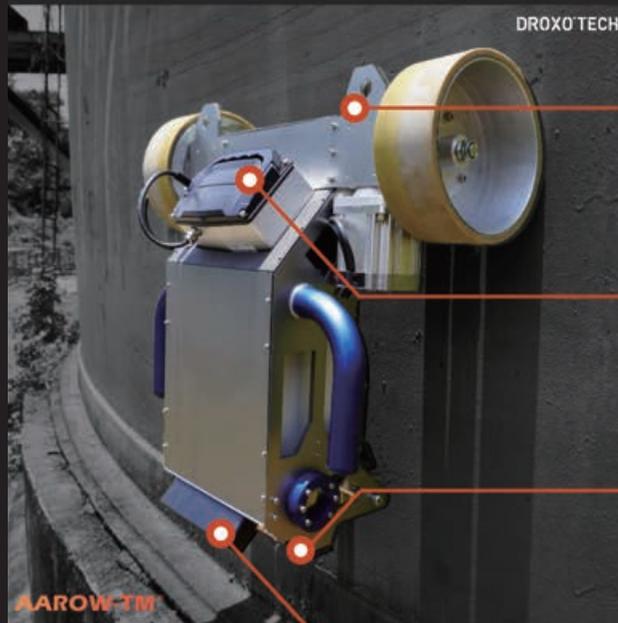




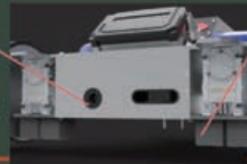
We actively invest in research and development for industrial unmanned vehicle application systems to provide a solution of automatic spraying robots for the petrochemical industry in Taiwan. The series of robots are equipped with AI vision and process forecasting. By utilizing AI edge computing and cooperating with human-machine collaboration, we meet the needs of different scenarios and provide the corresponding AI technologies. Based on the critical indicators of petrochemical tank industrial safety inspection, such as water knife scraping, spraying operation, film thickness measurement operation, we develop AAROW by integrating software and hardware. This can solve the challenges of manual spraying in the petrochemical industry.



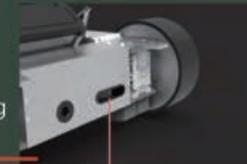
AAROW-TM[®]



Lens modules
AI image recognition and module positioning before operation

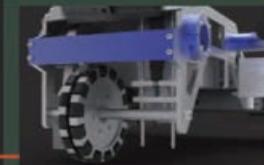


NdFeB magnet
Using N38 permanent magnet material, providing suction force of 150kg



The plug-in Li-Po batteries
The plug-in battery mechanism is convenient for on-site operation

Lidar modules
Detection of protruding objects on the ground (ground fluctuations exceeding 5mm), and detection of obstacles in front



Onmi Wheels
The car body is mainly driven by the differential speed of the front wheels, and the rear wheels provide steering in the form of Onmi wheels



Modular Linear Actuator
• Can be remotely controlled
• Measurement accuracy $\pm 0.2\text{mm}$ + reading 3%



Positioning System
Vision and UWB and other composite positioning technologies



Driving motors
Explosion-proof TS certification, Can support Grade ZONE1 explosion-proof



Hung Chang Energy Technology Co., Ltd is a professional manufacturer of heat pump systems. Since its establishment in 2006, we have successfully completed hundreds of heat pump hot water system installations across various sectors, including schools, swimming pools, company dormitories, hotels, restaurants, clubs, churches, and temples.

As the heat pump market continues to grow steadily, our R&D team is committed to continuously improving research and development, technology, quality, and design capabilities to meet the trend of diversified products. We aim to provide our customers with comprehensive supply services.





Energy -saving

The application of heat pumps can save a huge amount of energy, and its use is not affected by day and night or weather. If a multifunctional design (hot water, air conditioning, dehumidification) is adopted, the energy saved is even more considerable. It is a green product that is worth promoting vigorously.

Environmental protection

The heat pump only absorbs the heat energy from nature to convert it into hot water. It does not use combustion to heat, so it does not produce carbon dioxide, and it will not emit waste heat and cause pollution. It is currently the most perfect and actively promoted new technology product by the government.

Safety

No danger of gas combustion - carbon monoxide poisoning, gas explosion danger, greenhouse effect.

No smoke from burning diesel or heavy oil - air pollution, fire hazard, greenhouse effect

No high power consumption (unlike electric heating systems) - astonishing power consumption, extremely high electricity bills.

No scaling trouble - boiler cleaning cost, professional maintenance, high maintenance cost

Additional value

Multifunctional - while producing hot water, it also provides air conditioning, dehumidification, and air filtration.

Convenient - easy installation using the existing system to save costs, fully automatic control with the option to turn on or off the system, making it very time-saving and convenient.

High-tech - our heat pump uses an advanced high-function system. It can produce hot water whenever the outside temperature exceeds 5 degrees. The heating efficiency is more than twice that of diesel combustion systems, more than three times that of gas heating systems, and more than four times that of electric heating systems.

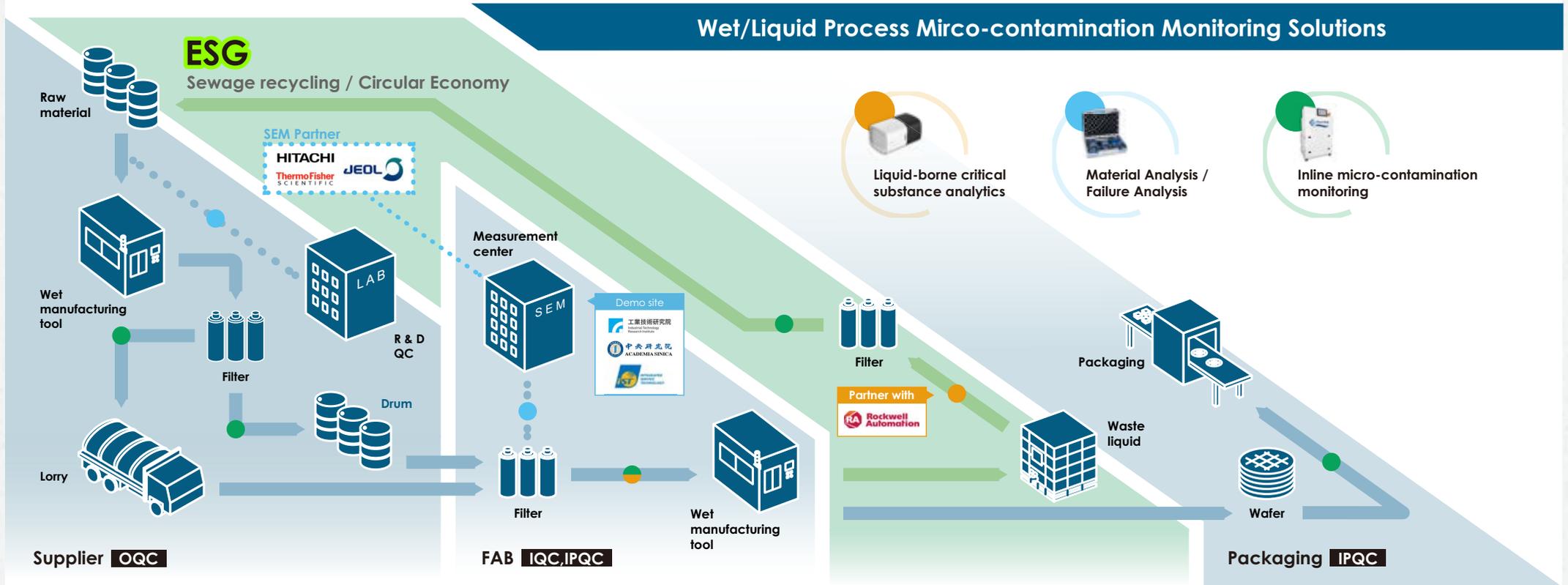


FlowVIEW Tek provides inspection solutions at the micro-scale to nano-scale level for liquid materials. The FlowVIEW team combines over 10 years of experience from research institutions and renowned companies to develop Flow AOI solutions that meet the needs of liquid material quality control and inline inspection. As semiconductor architecture becomes increasingly advanced, companies are investing heavily in R&D to improve yields and avoid contamination in both dry and wet processes.

Despite this effort, controlling micro-contamination in the liquids used in wet processes (such as water and chemicals) remains a major challenge. For example, in the CMP process, ensuring the quality of slurries used for silicon wafer polishing is critical for semiconductor manufacturers. To address this issue, FlowVIEW Tech has introduced its Flow AOI solution, which accelerates the industrial transition towards higher-end manufacturing capabilities. Our solutions have been successfully applied to semiconductor, FPD, PCB, petrochemicals, and other industries.



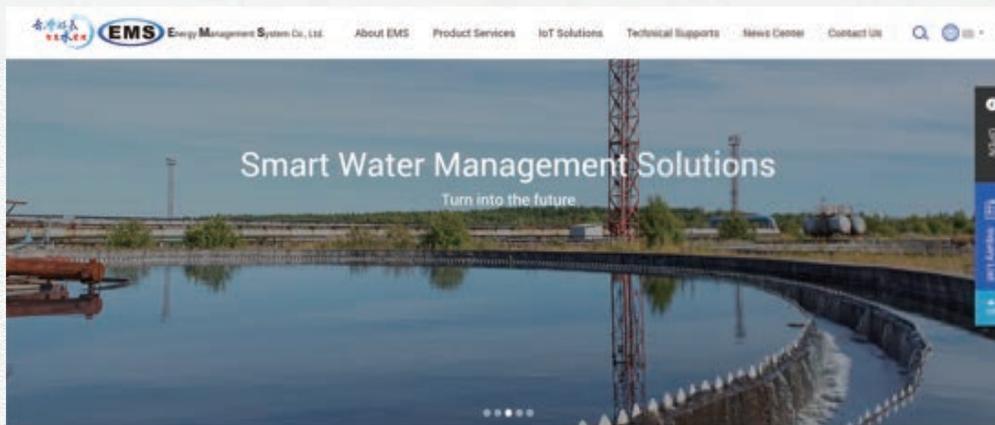
Wet/Liquid Process Mirco-contamination Monitoring Solutions





Energy Management System

COMPANY



EMS was created in 1991 and is the manufacturer of smart water meters with the highest market share (over 90%) in Taiwan. EMS has developed intelligent water meters and communication interfaces with over 30 years of research and innovation capacity, which has been recognized by the Ministry of Economic Affairs. A variety of intelligent metering solutions have been awarded the Taiwan Excellence Award for the past seven years.

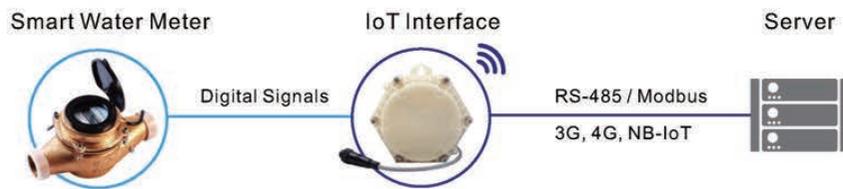
With the introduction of IoT concepts, EMS integrates advanced communications technologies, such as 4G/NB-IoT/LoRaWAN, with smart water meters to provide comprehensive smart water services for various water utilities, industrial parks, smart buildings, schools, and government organizations worldwide. This includes water supply network monitoring solutions, district meter areas, and sub-metering solutions for high-rise buildings.

Compared to telecommunications companies and system integrators, EMS understands the deep meaning behind flow data, so we can effectively support customers in reducing high leakage rates in the water supply network. Furthermore, we can lower NRW (Non-revenue water) and efficiently upgrading water resource systems.

Overseas, EMS has been cooperating with 10 distributors for years and providing services to 16 countries. Currently, EMS mainly focuses on the New Southbound countries and actively promotes smart water solutions to markets abroad.



AMR structure



Smart Water Meter Digital Signals



Auto-Recognition
After connection, the ID will be recognized instantly



Easy Installation
Plug and play, reduce labor cost



Compact Data
Record both consumption and peripheral data



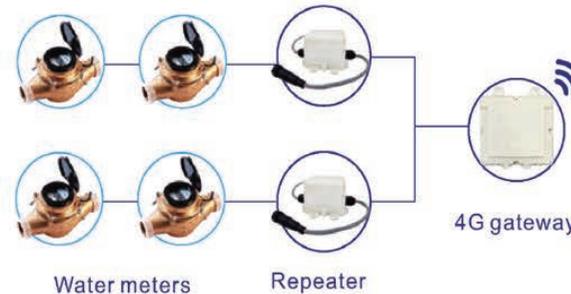
Data Analysis
User consumption model analysis, demand prediction...

Build-in Edge computing capabilities



Simplify data to reduce backend computational burden

Interface Multiple water meters with a single interface



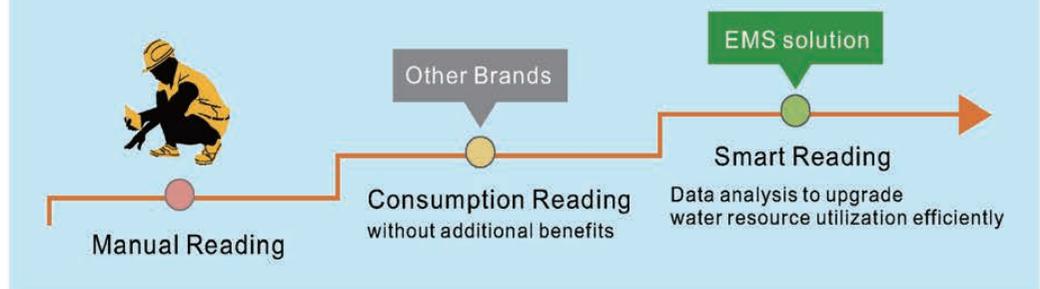
Applications

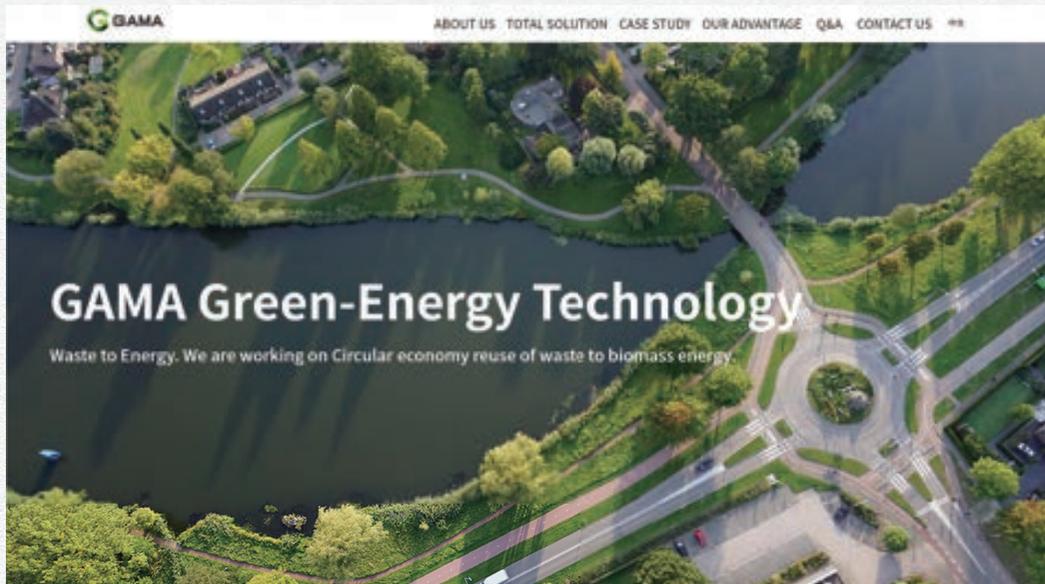
Collective housing, high-rise building, shopping mall, green building...

Features

Reduce monthly communications fees. Achieve optimal smart management benefits in limited budget.

History and Benefits of AMR





GAMA Energy is a company focusing on developing renewable energy through conversion of various organic waste resources into energy. Using gasification technology, GAMA Energy transforms biomass, agricultural waste, and industrial waste into efficient Refuse Derived Fuel (RDF). This RDF is then converted into syngas using RDF-7 technology.

This syngas, a renewable energy source, is then converted into electricity using Micro Gas Turbine Generators (MTG) to provide stable renewable energy that reduces reliance on traditional sources and helps reduce carbon emissions.

The company is committed to environmental protection and sustainability throughout the production process, employing strict measures to ensure that the pollution generated meets environmental standards.

GAMA Energy is continuously improving its technology and efficiency to achieve more sustainable energy production and utilization.



Micro Gas Turbines



The most efficient small gas turbine in the world.

The Aurelia® A400 provides 400 kWe with an electrical efficiency greater than 40%. The turbine is a twin-spool, intercooled and recuperated (IRG2) gas turbine. The turbine is of modular construction and is designed to utilize a wide range of fuel, from standard liquid and gaseous fuels to hydrogen, biogas, biodiesel, flare gases and even synthetic and recovered gases.



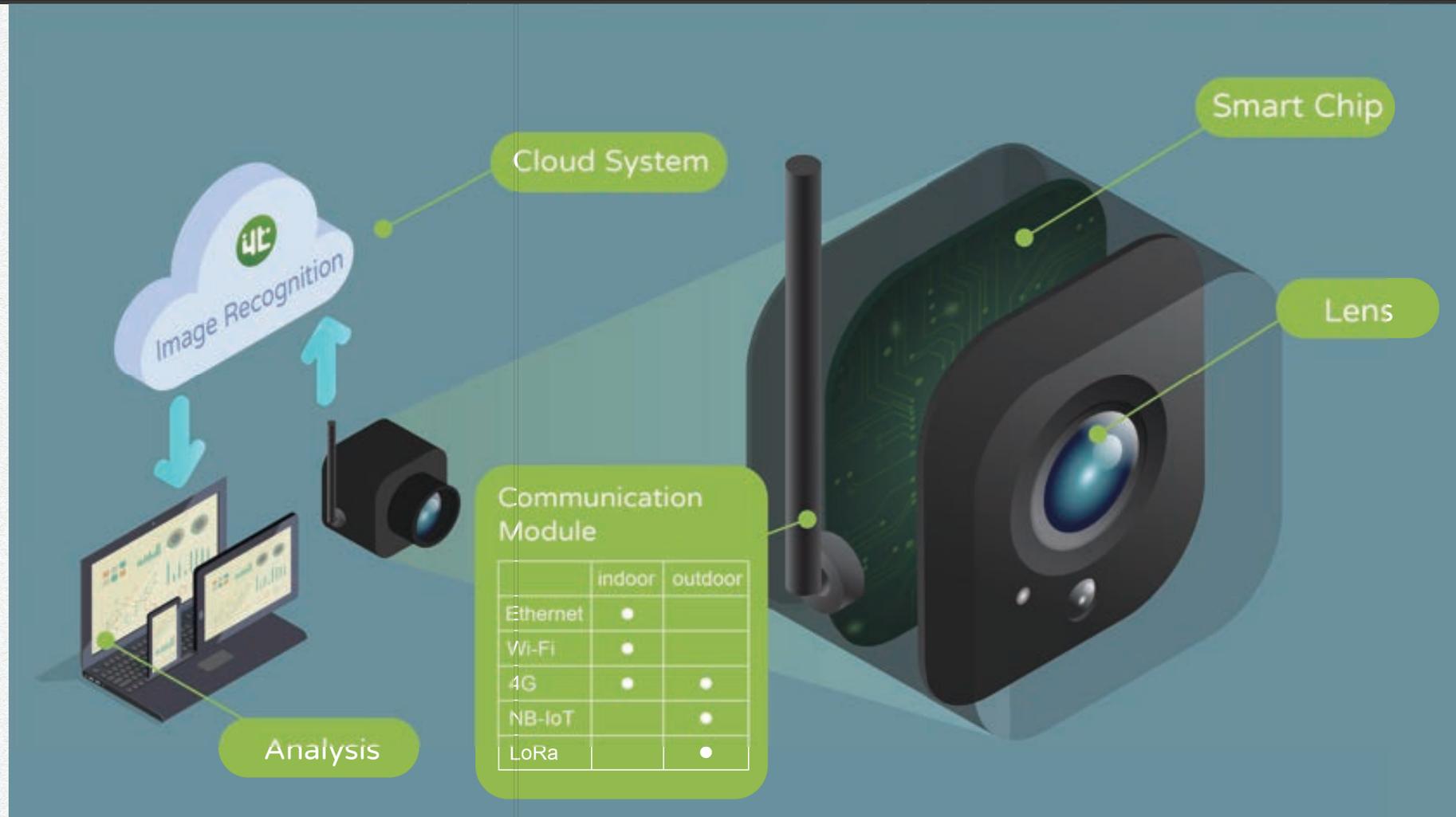


YenProtek works on solutions for outdoor IoT applications, and we are actively expanding into the smart agriculture and smart aquaculture markets.

Addressing challenges faced by the industry, it is integrating AI, IoT, and 5G technologies and cooperating with experts and enterprises to provide users with solutions featuring high reliability, effective energy saving, low maintenance cost, and commercial competitiveness.



Self-Cleaning Water Quality Monitoring System





Founded in 2022, eKoPro Solutions is dedicated to developing application services and solutions for environmental control and energy management, with a strong background of independent research and development of IoT products and system integration.

The company makes use of technologies such as IoT, open data, AI, cloud computing, and combines the knowledge as well as experience of experts in the field to promote the eKoEN lightweight energy management system.

eKoEN lightweight energy management system is suitable for small and medium-sized electric fields and supports modular architecture. It is the most economical and optimal space-adaptive power inventory solution available.

eKoPro Solutions is positioned as a “smart environmental control and energy IoT platform service provider” that visualizes energy and carbon neutrality.





eKoEN is a lightweight energy management system developed, that uses non-intrusive and easy-to-install miniature sensors to collect power data from feeder lines. It can be installed inside the distribution panel without powering off. Compared to most electricity meters on the market, its installation time and cost are reduced by about 15%, making it suitable for small and medium-sized power users to conduct on-site power distribution checks.

Power measurement data are sent to the cloud system through data collectors and network gateways. Users can remotely monitor real-time power usage status through the APP and WEB, view the analysis of historical power usage data, and monitor device status and real-time information separately based on the building space. The system can set up device power value safety limits and timely notification for device anomalies to meet the power safety requirements. The system also displays the real-time demand corresponding to the contract capacity, signed by the owner, as well as the highest monthly demand analysis and yearly comparison report. The system can also set up cumulative electricity prices to analyze space electricity costs.

eKoPro Solutions will recommend the most suitable energy-saving plan for customers through the system's environmental data analysis and then provide value-added services in combination with the owner's business model.

- Awards:
 - 2022 Seasonic MagFlow Fan - Red Dot Design Award / iF Design Award
 - 2021 Seasonic SYNCRO Q704 - Red Dot Design Award / iF Design Award
 - 2021 Ministry of Economic Affairs - A+ Industrial Innovation R&D Program
 - 2019 Neo Star Top 30 - one of Taiwan's 30 startups with the most growth potential
 - 2017 North America MACNA exhibition - Best Product award"

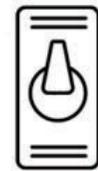
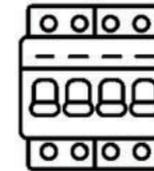
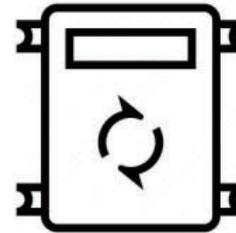
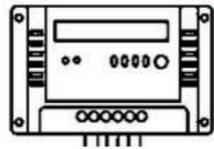
- Patents:
 - Technology Name: Non-Invasive Power Sensor Development and Production Technology
 - Patent Number: Taiwan Invention Patent No. I635289, US Patent No. 10,481,180 B2
 - Patent Title: METHOD FOR SENSING POWER CONSUMPTION AND SENSING DEVICE Certified



Noonspare's team combines lithium battery-based material production, battery testing, module design and packaging, using high-specification test equipment and a rigorous inspection system to ensure quality.

We provide cost-effective battery core solutions to the energy storage industry, starting with integrated lithium battery design and smart manufacturing capabilities. Our high-quality lithium battery products are specifically designed for energy storage systems.





MPPT
CHARGER

BATTERY
MODULES

POWER
CONVERSION

TRANSFER
SWITCH

AC SHUTOFF
SWITCH

NetZero Plus



Flexwave is the pioneer of micro energy harvesting. With a professional technical background and self-owned production line which supports our customers from POC to mass production. We help clients establish their sensors with green and sustainable power. Waveguide photovoltaic energy harvest system provides 75% more power than traditional solar panels. Maintenance and installation costs are greatly reduced. Waveguide owns unique talents of easily shapeable, colorful, and scattering light collection, which can help PVs to be lightly integrated into devices and create an energy-smart sustainable future.



Arc-solar Box – Make Your IoT like Iron-Man



Model	Arc-Solar Box	Arc-Solar Box P
Size (LxWxH; mm)	166x86x40 (± 0.5) 166x86x55 (± 0.5)	187x147x75 (± 0.5) 187x147x55 (± 0.5)
Daily Power^a	Sunny : 5,000 mWh (3.7V / 1,350mAh) Cloudy : 450 mWh (3.7V / 120 mAh)	Sunny : 10,000 mWh (3.7V / 2,700mAh) Cloudy : 980 mWh (3.7V / 264 mAh)
CO2 Reduce^b	35.14 kg / year	84.36 kg / year

Note
^a: The daily power was measured at Hsinchu, TW, the data will be different under various condition. The sun intensity of a Sunny day is 1,000W/m², a Cloudy day is around 100W/m².
^b: Energy harvester can reduce the replacement of battery, and the carbon footprint of one AA Alkaline battery (3,000mWh; 1.5V/2,000mAh) is 0.107kg.



ANALYST'S CHOICE
global sources



Solar Impulse Foundation
Efficient Solution Label



www.flexwave.com.tw



Formfty has 18 years of rich experience in the design and development of high-end products, and has undertaken more than 200 product design and development projects. Customers include well-known domestic and foreign manufacturers, universities, hospitals, and government agencies, such as Belkin USA, Qualcomm USA, Trywin JP, GovTech SG, NUS SG, Compal, Quanta, Hon Hai, Gigabyte, National Taiwan University Hospital, Armed Forces General Hospital, Taipei Medical College Affiliated Hospital, Academia Sinica, Industrial Technology Research Institute, Yilan County Government, Tainan City Government, National Taiwan University, National Taiwan University of Science and Technology, Chiao Tung University, and National Cheng Kung University, etc.

We have won more than ten awards at home and abroad. Our design and development capabilities are profound and are able to compete with those in the international market. In terms of R&D and innovation, our goal is to build a 3D printing service platform that can maximize our innovation capabilities, cross borders and time constraints, and allow products to be produced and sold in various markets around the world in real-time. We expect to extend our branches by replicating the successful case, like the second service base in the Zhongke Robot Manufacturing Center in Taichung.





Since 3D printing is additive manufacturing, our production methods can reduce energy consumption and avoid unnecessary waste. 3D printing small batch production can reduce the demand for mold development and effectively reduce the consumption of materials and energy.

Our products can be divided into two parts:

A. Hardware part (3D printing service): We utilize a range of 3D printing equipment to create samples tailored to the customer's development stage, overcoming material limitations. Our capabilities include printing metal, plastic, nylon (PA, Nylon), and polycarbonate (PC). At every design stage, we provide customers with physical samples for testing and verification purposes. For mass production, we offer small batch production using 3D printing or provide consulting services for mold mass production, depending on the nature and quantity of the products.

B. Software part (3D industrial design): We have profound design capabilities and experience. Not only can we provide customized services according to the client's needs, but the most distinguishing feature is that we can give clients accurate and explicit design reviews.

We have extensive design experience and have served a diverse range of clients, including large manufacturers and small to medium-sized enterprises. This has given us valuable insight into the challenges and obstacles that customers may encounter during the design and development process. Through continuous communication with customers and 3D printing services at various stages, we can accurately assist in converging opinions, collecting problems, and providing solutions.

Throughout every stage of development, the model is consistently employed for communication, verification, and rectification purposes, ensuring that customers achieve a high yield and low error rate in their product manufacturing.



Fusion is a smart healthcare brand owned under the Chiun Mai Communication Systems, Inc. (FIH Mobile Limited). Fusion was founded in 2001 with headquarter in Taipei, Taiwan. We specialize in AI+IoT technology and offer a variety of intelligent and innovative solutions to healthcare institution customers including hospitals, nursing homes or day care centers.

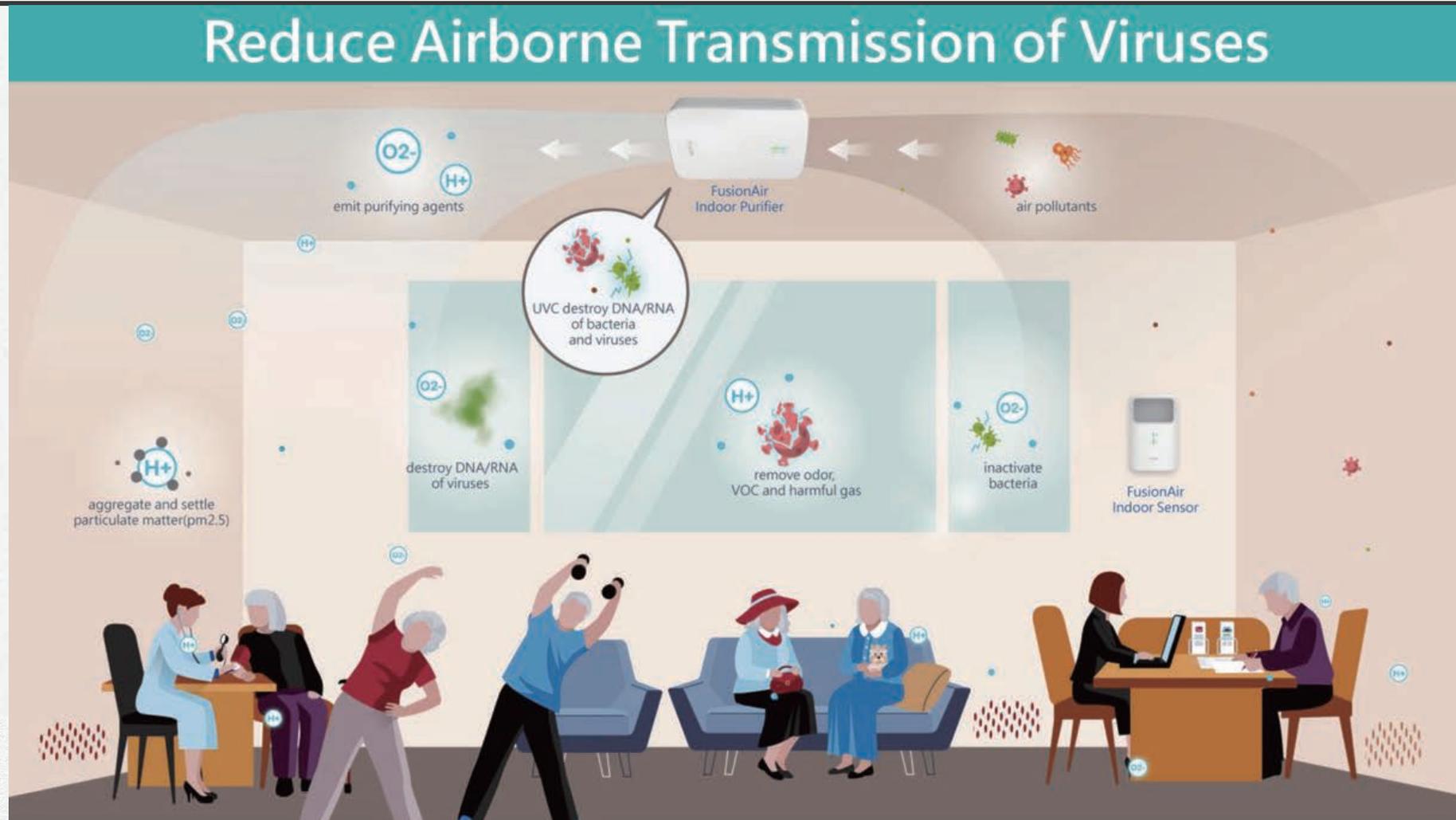
▪ **Fusion's solutions include:**

- (1) Fall Detection
- (2) Bed-exit alert
- (3) Indoor Air Quality Monitoring
- (4) Indoor Positioning
- (5) Equipment tracking
- (6) Safety fencing (geo-fencing)
- (7) Portable emergency call
- (8) Continuous Health monitoring

Please visit Fusion website for more information:
<https://www.fusionnet.io/en>



Reduce Airborne Transmission of Viruses





YC Synergy was founded in 2012, focusing on R&D of Fuel Cell Power Generation System technology for more than a decade. We have secured more than 14 core patents related to fuel cell applications in Commercial Vehicles, Maritime, and Stationary Power Generation. YC Synergy is based in Taipei, Taiwan, and is one of the few companies in the world that has true in-house fuel cell module design capabilities and has obtained international automotive certifications as well as CR certifications (Marine).





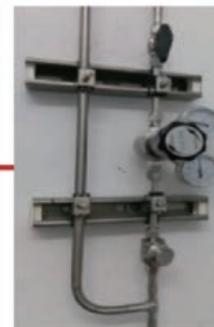
Electric Control Room
-Fuel Cell BOP Monitoring
-Fuel Cell Generation Monitoring



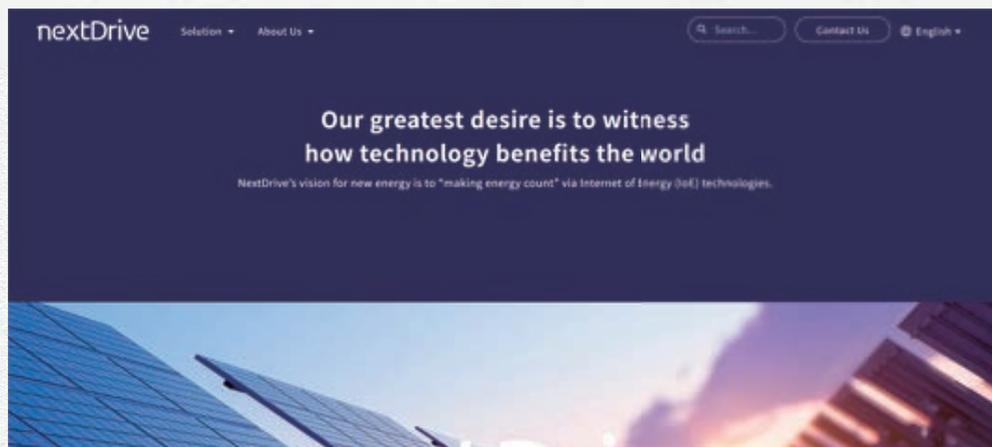
Fuel Cell Module Array
-Neatly Arranged
-Easy O&M



Human-Machine Interface
-User-friendly Button Input
-Sensor Readings Display



High Pressure H2 Pipe
-Seamless Steel Pipe (BA Pipe)
-SUS314 Stainless Steel Pipe

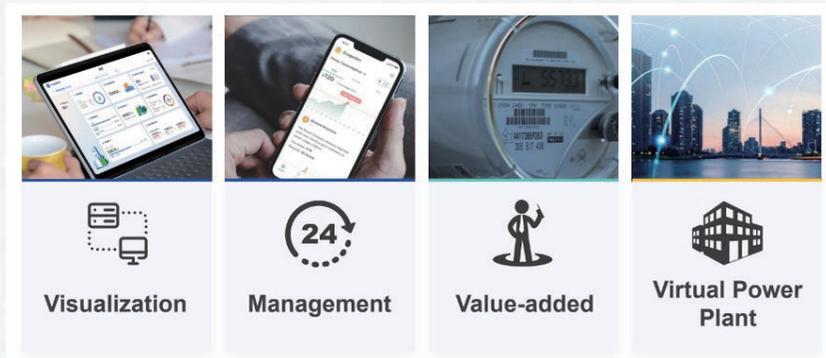


NextDrive is a leading technology company specializing in distributed energy management. The company's primary offering, the Internet of Energy Platform, serves as a single, integrated solution for managing decentralized energy resources. By leveraging this comprehensive platform, enterprises gain a holistic view of their energy landscape, enabling them to efficiently implement green energy and energy storage solutions.

The true value of NextDrive lies in its ability to streamline energy management through a unified platform. As businesses adopt sustainable energy transformation, NextDrive's platform empowers them to achieve synergy and optimize their energy consumption. This comprehensive approach results in significant cost savings, improved environmental impact, and enhances decision-making capabilities.

With a focus on innovation and sustainability, NextDrive has become a trusted partner for enterprises seeking to revolutionize their energy management strategies. NextDrive is leading the way in energy management and driving the global adoption of green energy solutions by leveraging the potential of the Internet of Energy.





The Corporate Energy Management System is a comprehensive solution designed to optimize energy consumption, generation, and storage for businesses. This innovative product offers a wide range of features that cater to the complex energy needs of modern enterprises.

• The system's key functionalities include:

- (1) **Energy Data Tracking:** By monitoring and tracking data related to electricity consumption, generation, and storage, the Corporate Energy Management System provides valuable insights for businesses to better understand their energy usage patterns and make informed decisions.
- (2) **Contract Capacity Optimization:** The system helps companies maximize their contract capacity by identifying areas of inefficiency and suggesting improvements, ultimately leading to cost savings and enhanced energy management.
- (3) **Electricity Price Plan Optimization:** The system is tailored to an enterprise's unique electricity demand, simulating the most cost-effective electricity price plans to help businesses reduce their energy expenses.
- (4) **Equipment Demand Simulation:** Before investing in new equipment, companies can utilize the system's simulation capabilities to predict demand and evaluate the potential impact on their overall energy consumption and costs.
- (5) **Distributed Energy Resource Investment Simulation:** The system allows businesses to simulate the investment in distributed energy resources, such as solar panels and energy storage systems, enabling them to make informed decisions about their energy infrastructure investments.

By offering these comprehensive features, the Corporate Energy Management System empowers enterprises to optimize their energy strategies, reduce costs, and improve overall sustainability.



Daudin Co., LTD is subsidiary of Dinkle Enterprise. Dinkle was established in 1983, and have since been dedicated to terminal block and industrial components manufacturing and development for over 30 years. Global sales and service network are available to support customers locally.

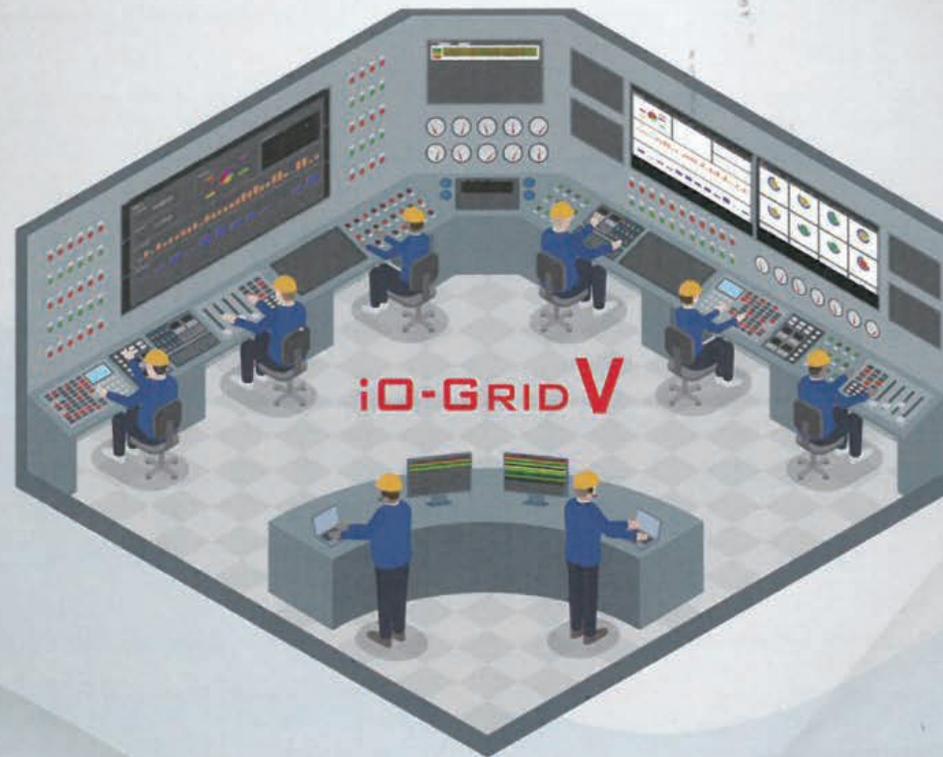
Product application mainly includes 6 fields: Production automation, Process Automation, Power Automation, Transportation, Renewable Energy, and Industrial Equipment Manufacturing.

Daudin Co., LTD has been deeply involved in the field of industrial automation for over a decade. We integrate resources from Dinkle to build industrial component, equipment and service needed for intelligent panels to intelligent manufacturing systems.

Provide solutions in saving space, material, and labor.

Daudin build solutions (Distribution Controls, Edge Computing, Data Collecting, Secure Storing, Flexible Monitoring, Instant Alert, Cloud Application and ESG etc.) for smart factories with Daudin IIOT STB and Remote I/O product lines to support customers upgrade on smart manufacturing and improve production efficiency.





DAQ

Data Acquisition System



Data acquisition application solutions

Application areas
Plant equipment, water system monitoring,
temperature, and humidity monitoring

EMS

Energy Management System

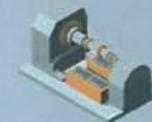


Reducing carbon emissions and improving
electricity efficiency application solutions

Application areas
Factory electricity, enterprise electricity,
building electricity

MES

Manufacturing Execution System



Mastering effective production insight
into productivity applications

Application areas
Manufacturing cost analysis,
manufacturing progress tracking

BMS

Building Management System



Complete and reliable solution for
energy storage system applications

Application areas
Green energy, continuous power room,
mobile battery station



Organizer



經濟部國際貿易局
Bureau of Foreign Trade

Implementer



商業發展研究院
Commerce Development
Research Institute

!TW



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