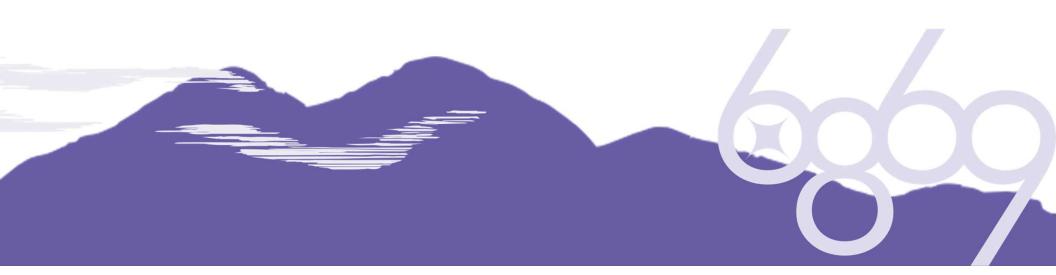


Lead of renewable energy service integration

(Code: 6869)





Disclaimer

The information provided in this presentation contains all forward-looking views and will not be updated as a result of any new information, future events, or the occurrence of any circumstances.

J&V Energy Technology (the company) is not responsible for updating or revising the contents of this presentation. No representation or warranty, express or implied, that the information provided in this presentation material is correct, complete, or reliable, nor does it represent a complete description of the company, the state of the industry, or subsequent significant developments.





AGENDA

- 1 Company Profile
- 2 Market Overview
- 3 Operational Results
- 4 Financial Performace
- 5 Future Development
- 6 Corporate Governance and CSR





ABOUT US

Registered Capital

Approx. US\$ 37M

Establish Date

2016.02.05

Total Staff

219 Employees (Corporate)

Founded in 2016, J&V Energy Technology is also known as Taiwan comprehensive service group for renewable energy integration.

In the initial phase of the company, the main activity was focused on the solar energy market through the development, investment, operations and maintenance of solar power plants. With great achievements of solar system projects have been remarkably successful and continue to build industrial records.

Over the last few years, J&V Energy Technology has intensified new investment and industry cooperation development projects such as offshore wind energy, energy storage, biomass energy, water treatment system and energy trading platform.



Provide and continually develop sustainable renewable energy, take corporate social responsibility and create a sustainable green environment.



COMPANY ACHIEVEMENTS

2016

- » J&V Energy was founded on 15 February and accounted for US\$ 36M in capital assets.
- » The first successful grid connection project in a subsidence area in Yunlin, Taiwan.
- » The first successful project to connect to the solar grid in a subsidence zone in Yunlin, Taiwan.

2017

- » Achieved several national tender projects including Taipei Legislative's Yuan roof PV system, Su-Ao port warehouse #4 roof PV system and Kaohsiung CSCB cooperation roof PV system.
- » 2017 NCGA Public Construction Quality Award Yunlin Subsidence Area Ground-mounted PV system.
- » 2017 NCGA Special Award of the General Assembly & Special Award for Green Energy.

2018

- » Achieved the Taiwan's largest floating PV system tender for the Chiayi Xinwen detention basin.
- » Grid-connected of Taichung Landfill ground-mounted PV Systems, Kaohsiung Yongan detention basin, Kaohsiung Xiashe Bei, and Kaohsiung Sanye Bei floating PV system.
- » Signed a solar cooperation agreement with BlackRock Real Assets with a total capacity of 70MW.
- » 2018 NCGA National Public Construction Quality Award Yilan Thin Film Roof Power Plant.

2019

- » Collaboration on Google's Taiwan solar energy project and assisted renewable energy purchase.
- » Signed a second solar PV cooperation agreement with BlackRock Real Assets with a total 115MW.
- » First roof PV power station on top of department stores with grid connected in Pingtung.
- » 2019 NCGA National Public Construction Quality Award Kaohsiung Xiashe Bei power plant.
- 2019 OEMA Golden Torch Award of National Top 10 Potential Enterprise & National Top 10 Potential Manager.



COMPANY ACHIEVEMENTS

2020

- » Completion of fishery and electricity symbiosis demonstration site, collaborating with Institute of Information Industry & Taiyen Green Energy.
- » Successful solar PV system tender in Dacun Township, Changhua and Taitung City, Taitung.
- » Expanding into Offshore Wind Energy. Investment in TIENLI Offshore Wind Technology.

2021

- » Acquisition of Taiwan's iconic project of Taiwan's largest fishery and electricity symbiosis generation site in Beimen, Tainan. (Google's first renewable energy acquisition in Asia)
- » Expanding into Energy Storage. Investment in TPE Energy.
- » Established Offshore Wind "Taiwan Team" to collaborate development of offshore wind farm.
- » Expanding into Water Treatment. Investment in WEISHENG Wastewater Treatment.
- » Established **GREENET CO. renewable energy trading platform** and obtained the Electricity Sales License from the Bureau of energy, Ministry of Economics Affairs.

2022

- » Listed on the Taiwan emerging stock market on January 19 and the review committee of the Taiwan Stock Exchange granted J & V Energy Technology Co., Ltd the **approval for listing in the Taiwan Innovation Board** on December 21.
- » Greenet Co., Ltd. has entered into a green power wheeling contract with Gogoro Inc. and Micron Technology Taiwan, Inc., and the cumulative amount of green power wheeled is **over 80 million kilowatts**, the highest in Taiwan.
- » Planning to construct 2 energy storage sites in Wujie Township, Yilan County, with a respective capacity of 100 MW. The said energy storage sites would have the largest cumulative construction capacity in Taiwan.
- » Fishery solar coexistence project in Beimen District, Tainan City has completed **grid connection of 108MW**.
- » Formosa 4, incorporated by offshore wind Taiwan team was allocated **495MW** capacity for the first phase of offshore wind power zonal development phase.



MANAGEMENT TEAM With 10⁺ Years of Extensive **Industry Experience**

J&V Energy Technology has a dedicated team of experienced and professional management staff with their expertise in development, engineering, procurement, construction (EPC) management, finance, and investment in the renewable energy industry.







Renewable Energy Industry Outlook

Global

- 2050 Net-Zero Emissions
- **PRE100**

Taiwan

- The share of renewables in electricity generation reached 6% in 2021
- The shares of renewable energy capacity by 2025: 20%
- \bigcirc The shares of renewable energy capacity by 2030 : 60-70%

	Solar	Offshore Wind	Energy Storage	
2025	20 G W	5.6GW	1GW	
2030	31 G W	13.1GW	3 G W	
2050	40-80GW	40-80GW		



MAIN SERVICE



Solar Energy

- ▶ Develop & maintain rooftop PV systems, ground-mounted PV systems and floating PV systems.
- ► Focus primarily on Taiwan Fishery & Electricity Symbiosis projects.



Offshore Wind Energy

- ► Investment in wind turbine blade domestic industry.
- ► Cooperative development and investment of domestic offshore wind farms.



Energy Storage



Energy Trading Platform



Water Treatment

- ► Industrial wastewater treatment & re-use and sea water desalination treatment projects.
- Construction and operation of a domestic wastewater treatment plant.



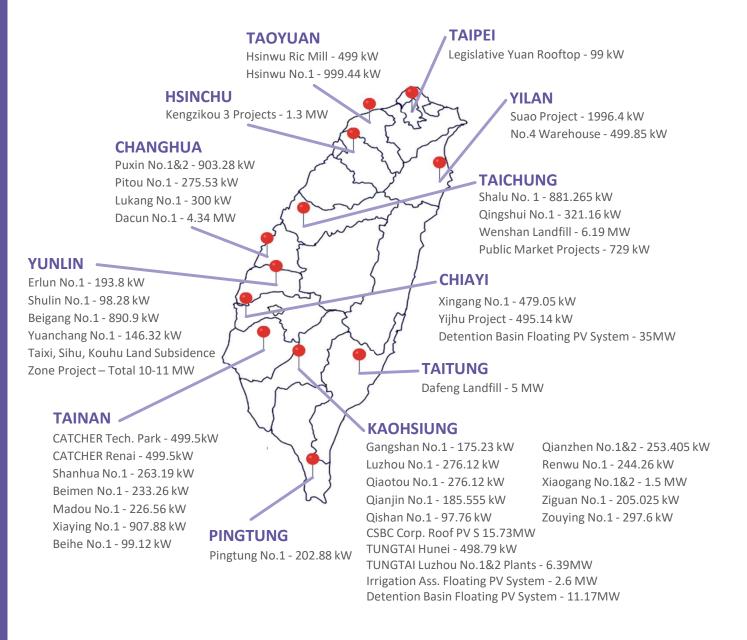
Biomass Energy

▶ By recycling timber and agricultural waste as fuel for industrial steam, heating and electricity.





TOTAL SOLAR SYSTEM DEVELOPMENT



The current cumulative development capacity exceeds

500⁺

RATIO TYPE OF PV PROJECTS

Floating

5%

Ground 34.%

Roof-Top $61_{\%}$



2022 SOLAR ENERGY PROJECT

Beimen Fishery & Electricity Symbiosis Project, Tainan

The Largest Fishery & Electricity Symbiosis Project in Taiwan.

Location | Beimen District, Tainan

Area | 170 hectare

Capacity | 128.2 MW

Est. Electricity Output (Annual) | 180M MWe

Start | November 2021

Progress | 108.0MW completed in Dec. 2022; 20.2MW completed in Q2 2023 (est.)

Electricity Enterprise Licenses | June 2023





ICONIC PROJECT











2023 DEVELOPMENT PLANNING

The 5-year solar energy sales target is **1GW**, focusing on the development of large-scale fishing and energy symbiosis.

STRENGTHS

Hold the largest fishery and electricity symbiosis project in Taiwan.

Aquaculture consulting & professional experience in maintaining ecological resources.

International collaborative experience in developing domestic projects.

Be active in communicating with local governments.

OPPORTUNITIES

The Ministry of Economic Affairs fishery and electricity symbiosis target for 4GW in 2025

The Ministry of Agriculture is planning an inventory of the fishery and electricity symbiosis zone.

Smart aquaculture technology improves aquaculture efficiency.





2022 ESS PROJECTS

20MW Luyuan Substation

Location: Luyuan, Kaohisung

Capacity: 20MW

Contract Value: US\$ 30M

Completed: 2022/Q4

Over 400MW Own + EPC Projects

- Location: Taoyuan · Miaoli · Yilan · Taichung
- Total Capacity: over 400MW
- Automatic Frequency Control Service + **Energy Transfer Service**







ESS INVESTMENT

TPE ENERGY INC.



In 2021, the company acquired TPE ENERGY INC, an energy storage system integrator, to become the company's energy storage brand and to officially enter the energy storage industry. The J&V Energy Chairman Mr. Jin-Lin Lai and the Vice-President Mr. Kai Tan have both been appointed Chairman and General Manager of TPE Energy Inc. which again shows J&V Energy determination to expand energy storage market.

TPE Energy focuses on investment evaluation, design, development, installation and maintenance of energy storage sites. At the beginning of the company's establishment, it was awarded the second place in the "Automatic Frequency Control (AFC) FM Standby Service" on service procurement by TPC for the first time in 2020. With the patented battery module design and perfect hardware and software integration technology of the energy storage system, the installation of the site was completed in just a few months, and the power supply was connected to the grid and quickly passed the certification of TPC, which will help the quality of power supply and grid balance.





RENEWABLE ENERGY TRADING PLATFORM



With more than 300MW of solar power plants and sufficient green energy, J&V Energy Techonology has established a joint venture with Red Building Capital Ltd. to establish the "GREENET" energy trading platform.

We offer customized renewable energy buying and selling services to help customers find the best combination of renewable energy solutions. From consultation, purchase to use, we simplify the process and help our clients to buy renewable energy and certificate easily.

>>> Our customers contain in the financial, semiconductor, electronics, textiles and chemical industries.





First renewable energy transfer to Yushan Bank completed in 2021/Q4 (annual power generation of approximately 3.6 million kwh)



In 2022, Micron Technology signs a 55MW Power Purchase Agreement for a seven-year term. Under this PPA, will deliver more than 74 million kWh per year.





OFFSHORE WIND PROJECT - TAIWAN TEAM

"Taiwan Team" was established as for the ongoing offshore wind development projects Formosa 4 and Formosa 5 in Miaoli County, Taiwan.

Formed by J&V Energy Technology, SRE, Tien Li Offshore Wind Technology and Yeong Guan Group to integrating Taiwan leading-edge offshore wind energy expertise from the supply chain, technology, construction, project development, operation & maintenance.

To actively promote the localization of technology and knowledge to facilitate the development of local supply chains and to appropriately respond to the government's expectations for localization.













OFFSHORE WIND PROJECT

Formosa 4 and Formosa 5 Offshore Wind Farms Development

Location | Miaoli Coastline

Distance | 18~20km away from coastline

Capacity | Max. 2.6GW

Technical | F4 - Bottom-fixed Foundation + Floating

Platforms F5 - Floating Foundation

Progress | F4 was allocated 495 MW of capacity in the first round of the Taiwan's Round 3 Zonal Development offshore wind auction.

F5 estimates tender submission in 2023









OFFSHORE WIND INVESTMENT

TIEN LI OFFSHORE WIND TECHNOLOGY CO,. LTD

J&V Energy Technology invested in Tian Li Offshore Wind Technology in 2020 and is also an important associate member of Taiwan's offshore wind project team.

Tien Li Offshore Wind Technology is the local supplier of Taiwan's offshore wind industry and the only supplier of MW-class wind turbine blades in Taiwan.

All blades are MHI-Vestas certified, and it's Asia's only supplier of offshore wind blades in cooperate with MHI-Vestas.



OFFSHORE WIND ENERGY LONG TERM VISION

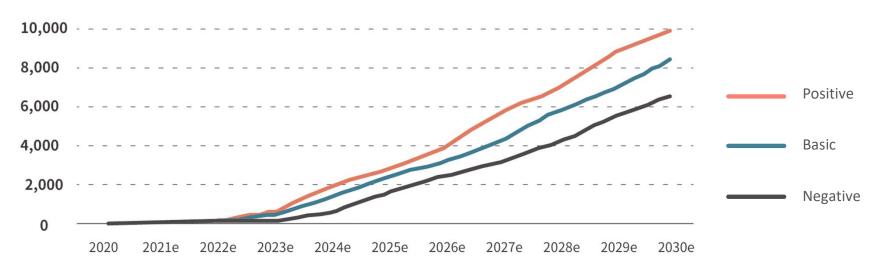
TAIWAN MARKET

In accordance with the government policy of 1.5 GW per year between 2026 and 2035 to develop new offshore wind farms and expect to be involved with the development of offshore wind farms each year.

ASIA MARKET

Collaborate with the Taiwan Team to develop the Kyushu Wind Farm in Japan.

Forecast of the cumulated installed capacity of offshore wind energy in Japan (MW)



Japan expects to have accumulated installed capacity of 10 GW of offshore wind power by 2030.

Source: Infolink Strictly Confidential 26





WATER TREATMENT INVESTMENTS

WEISHENG WASTEWATER TREATMENT CO,. LTD







With a strong emphasis on resource recycling and optimism in the water treatment market, the company acquired WAISHENG Wastewater Treatment Co., Ltd. in July 2021. WAISHENG Wastewater Treatment Co., Ltd, a 37-year water resources company that is the first company in Taiwan dedicated to water resources.

WEISHENG's main development focus is on industrial wastewater, reuse of wastewater for people's livelihoods, and desalination treatment. To target traditional industries in industrial areas such as Taoyuan, Taichung, Tainan and Kaohsiung, and build wastewater treatment plants for the treatment and recycling of industrial wastewater. WEISHENG aim to make full use of water resources can strengthen the fundamentals of industrial development in Taiwan.

ONGOING PROJECTS



Taoyuan International Airport T3 Wastewater Treatment Projects

Total Contract Value: US\$ 59M Estimate to Complete: 2023/Q3



Taipei City Sewage System Equipment Rehabilitation Projects

Total Contract Value: US\$ 8.2M Estimate to Complete: 2023/Q1



REPRESENTED PROJECT

DOMESTIC SEWAGE

Yishen Water Recycling Centre, Taoyuan



Yangshan Purification Plant, Kinmen



INDUSTRIAL SEWAGE

Taichung Industrial Park Sewage Treatment Plant, Taichung

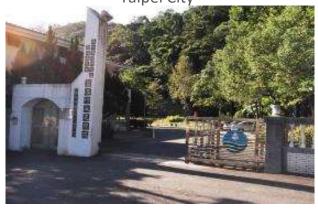


Taichung Port Industrial Park Sewage Plant, Taichung



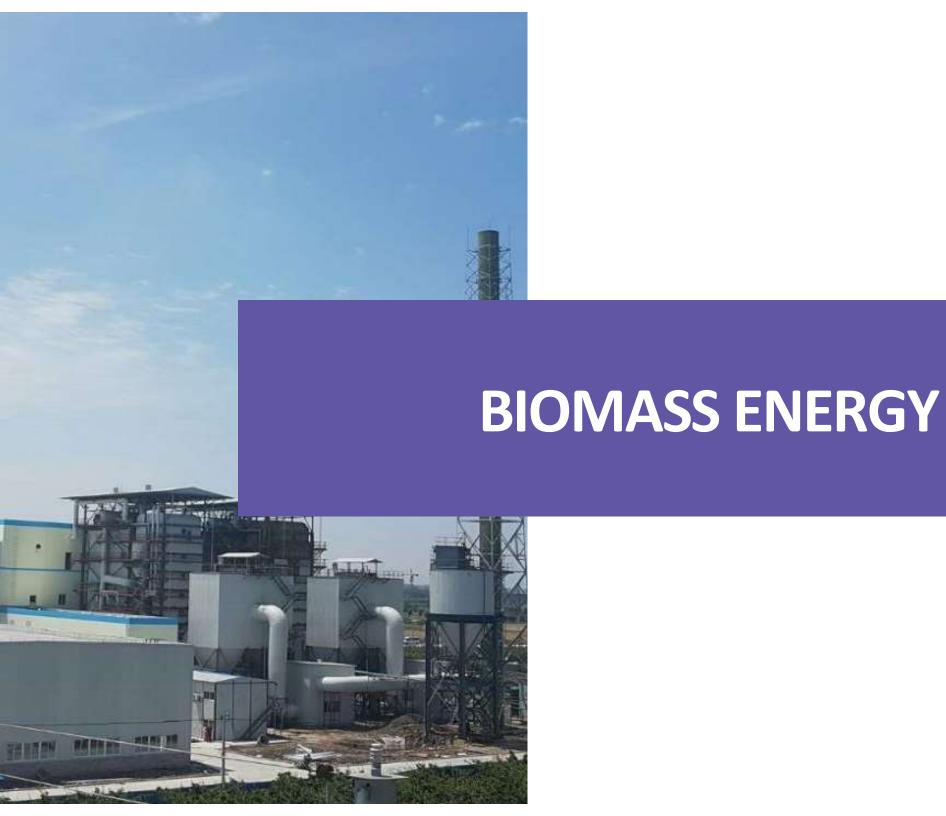
WATER CONSERVATION AREAS

Zhitan Sewage Treatment Plant, New Taipei City



Sewage Treatment Plant, New Taipei City







BIOMASS INVESTMENT

GRAND GREEN ENERGY CO,. LTD

J&V Energy has been active in the planning of biomass energy production and has invested in GRAND GREEN ENERGY CO LTD. to establish a large-scale biomass power plant in Taiwan, creating a significant milestone for a comprehensive green energy services platform.

GRAND GREEN ENERGY is Taiwan's first biomass-based energy company and has been around for 13 years. The company uses environmental biomass resources, including recycled wood and agricultural waste, as fuel to produce industrial steam, heat and electricity.

GRAND GREEN ENERGY provides customized professional planning and demand assessment services, construction of energy supply equipment and operating to provide customers with an "efficient and ecofriendly energy supply system"









Financial Statements

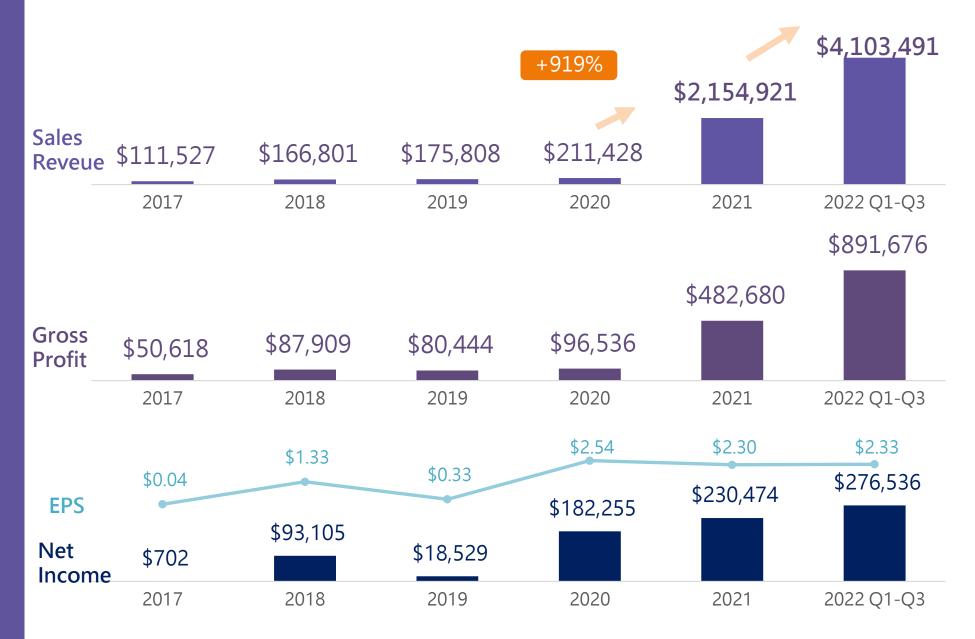
NTD\$K

	2017	2018	2019	2020	2021	2022 Q1-Q3
Sales Revenue	\$111,527	\$166,801	\$175,808	\$211,428	\$2,154,921	\$4,103,491
Gross Profit	50,618	87,909	80,444	96,536	482,680	891,676
Gross Margin	45.39%	52.70%	45.76%	45.66%	22.40%	21.73%
Operating expense	40,270	73,374	74,019	100,333	248,506	269,946
Operating Profit	10,348	14,535	6,425	(3,797)	234,174	621,730
Net Income	702	93,105	18,529	182,255	230,474	276,536
EPS	0.04	1.33	0.33	2.54	2.3	2.33



Financial Performance

NT\$K; NT\$





Sales Motivation



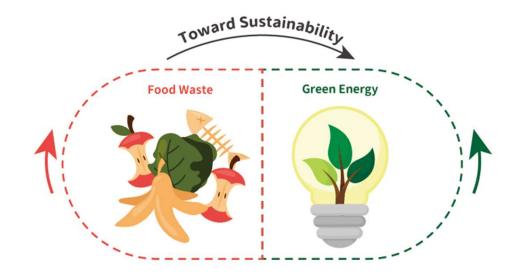




Anaerobic Digestion of Biomass Development



- To cooperate with the government in the renewable energy development policies. Expanding the application of renewable energy from biomass and reusing food waste produced by households and restaurants for business opportunities.
- According to statistics from the Environmental Protection Administration (EPA), the total quantity of food waste recycled in Taiwan is approximately 500, 000 metric tons annually. EPA is actively support biomass power plants and to estimated that five biomass energy plants will be completed in 2024, with an annual power generation capacity of more than 40 million kWh and for revenues from electricity sales are projected to exceed NT\$ 200 million





Small Hydro Power Development

- In order to achieve the government's target of 20% renewable energy by 2025, Taipower and the Water Resources Agency (WRA) have recently actively promoted small hydro power projects.
- The development potential of small hydro power plants is estimated by the Taiwan SHP Industry Alliance to exceed 2 GW in the next 3-5 years.





Geothermal Energy Development

- Located in the Western Pacific Ring of Fire, Taiwan has rich geothermal resources due to volcanic activity and the rapid uplift of plate collisions. Based on research studies, Taiwan's geothermal resource could reach up to 160 GW, with approx. 33.6 GW of exploitable geothermal power.
- There are no any commercial geothermal power plants until now in Taiwan. However, geothermal energy has been classified as one of the main tasks of the National Energy Programme-Phase II (NEP-II) in Taiwan.





Electric Vehicles and Charging Station Commercial Development

- We under the government's zero-carbon pathway, electric vehicles and electric locomotives have set a target of 30% of new electric vehicle sales and 35% of electric locomotive sales by 2030. By 2035, electric vehicle sales will reach 60% of car sales, while electric vehicle will account for 70% of cars market, and by 2040, electric vehicles will account for 100 percent of cars market.
- Combined with the company's electricity trading platform and focuses on developing electric vehicles and charging stations. Target from selling green electricity to business to selling it to the general public.







Development of Carbon Management Business



Cooperate with government policies, carry out research on carbon management information and technology development, to obtain relevant licenses to develop carbon management business.

Opportunities

1. Domestic: FSC Disclosure of Greenhouse Gas Emissions of Listed Corporations.

In line with Government's 2025 Net-Zero Emission targets, Establish a timeline for the disclosure of greenhouse gas emissions information from listed companies. Based on the scale of capital and industry characteristics, the inventory will be completed successively beginning in 2024.

2. International: Euro Carbon Border Adjustment Mechanism (CBAM)

The CBAM is a proposed carbon tariff on carbon intensive products, imported by the European Union. Currently legislated within the framework of the European Green Pact, it is expected to come into force in 2026 and be the subject of reports from 2023. The price of CBAM certificates would be linked to the price of EU allowances under the European Union's emissions trading scheme and it is designed to contain the carbon leakage of countries without carbon pricing.





CORPORATE SOCIAL RESPONSIBILITY



COVID-19 Prevention Supplies Donations



Local Solitary Elders Care Programs



Food Expense Donations to Local Communities



Young Children's Football Program



Taiwan National Mini-Football Tournaments Sponsors



Promote Children's Football Games in the Countryside



Support the development of young children's football in rural areas.





Own a Professional Basketball Team

Own and run a professional basketball team, named **Taoyuan Leopards**, in T1 league and train our own cheerleaders. Leopards' home court is in Taoyuan city.

J&V Energy builds fast, accurate, and patient styles in our basketball team, and shows the spirit of "make a difference" to all fans.



