



2023

Sustainability Report

J&V Energy Technology

Advance towards a sustainable green corporation
and achieve green energy without borders

Table of Contents

LETTER FROM THE CHAIRMAN	3
ABOUT THE REPORT	5
J&V ENERGY'S ESG HIGHLIGHTS IN 2023	7
ACHIEVEMENTS OF J&V ENERGY IN 2023	8

1 SUSTAINABLE ENERGY

MATERIAL TOPIC – RENEWABLE ENERGY DEVELOPMENT	10
1.1 VISION_CREATING A LOW-CARBON SUSTAINABLE HOMELAND	12
1.2 ENERGY CREATION_DIVERSE GREEN POWER OF WIND, PV, BIOMASS, AND HYDROGEN	14
1.3 ENERGY STORAGE_KEY ROLE IN GRID STABILIZATION	16
1.4 ELECTRICITY SALES_ASSIST ENTERPRISES IN CONNECTING WITH THE INTERNATIONAL MARKET	18
1.5 WATER TREATMENT_SEWAGE RECYCLING AND REUSE	19
1.6 NET-ZERO TARGET_ZERO WASTE AND ZERO CARBON EMISSIONS	20

2 SUSTAINABLE MANAGEMENT

2.1 SUSTAINABILITY STRATEGY MANAGEMENT	22
2.2 STAKEHOLDER ENGAGEMENT	24
2.3 IDENTIFICATION AND ANALYSIS OF MATERIAL TOPICS	28



3 SUSTAINABLE GOVERNANCE

3.1 ABOUT J&V ENERGY	33
3.2 CORPORATE GOVERNANCE	39
3.3 OPERATIONAL PERFORMANCE	49
3.4 RISK MANAGEMENT	51
3.5 ETHICAL CORPORATE MANAGEMENT	53

4 SUSTAINABILITY PARTNER

MATERIAL TOPIC: SUPPLIER ENVIRONMENTAL ASSESSMENT	56
4.1 SUSTAINABLE SUPPLY CHAIN MANAGEMENT	57
4.2 CUSTOMER SAFETY AND PRODUCT MANAGEMENT	59

5 ENVIRONMENT FRIENDLINESS 60

MATERIAL TOPIC: ENERGY	61
5.1 CLIMATE CHANGE MANAGEMENT	62
5.2 ENERGY MANAGEMENT	70
5.3 GHG EMISSION MANAGEMENT	71
5.4 WATER RESOURCE MANAGEMENT	72
MATERIAL TOPIC: WASTE	73
5.5 MATERIALS AND WASTE MANAGEMENT	74

6 ECOLOGICAL FRIENDLINESS 77

MATERIAL TOPIC: BIODIVERSITY	78
6.1 ECOLOGICAL MONITORING PLANNING AND SURVEY	81

7 FRIENDLY WORKPLACE 89

MATERIAL TOPIC: TALENT CULTIVATION	90
7.1 TALENT SELECTION, RECRUITMENT, CULTIVATION AND TRAINING	91
7.2 EMPLOYEE RIGHTS AND INTERESTS AND REMUNERATION AND WELFARE	100
MATERIAL TOPIC: OCCUPATIONAL SAFETY AND HEALTH	107
7.3 VALUE OCCUPATIONAL SAFETY AND HEALTH	108

8 HAPPY SOCIETY 115

8.1 COMMUNITY ENGAGEMENT AND GIVING BACK TO SOCIETY	116
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APPENDIX 1: GRI STANDARDS COMPARISON TABLE	124
APPENDIX 2: SASB COMPARISON TABLE	136
APPENDIX 3: CLIMATE-RELATED INFORMATION OF TWSE/TPEX LISTED COMPANIES	138
APPENDIX 4: CPA'S LIMITED ASSURANCE REPORT	141
APPENDIX 5: GHG Verification Report Opinion	142



Letter from the Chairman

In 2023, COP 28 was held in Dubai, and it was decided that the world has to triple the growth of renewable energy and double the energy efficiency by 2030, which is also a material indicator that the global energy system shall go through a low-carbon transformation.

Pioneering Green Energy Integration to Build a Group with Circular Economy and Sustainable Development Integration

As a member of the global industrial chain, Taiwan has to keep pace with the international community and actively develop the application of renewable energy. Ahead of the global trend, J&V Energy has been practicing ESG since its inception. Its businesses include PV, offshore wind power, energy storage, green power trading, water treatment, and biomass energy, and it integrates the upstream and downstream industry chain of renewable energy to create comprehensive one-stop services.

In terms of the layout of solar power, J&V Energy has developed solar power project sites all over Taiwan and is a leader in fishery and electricity symbiosis. The largest fishery and electricity symbiosis field of 128MW in Taiwan invested by the Company has been completed and connected to the grid for power generation, and the fish harvest is better than expected. It also achieved the “photoelectric storage integration,” and a 6.2MW/22MWh energy storage system was installed, becoming the first PV storage project site completed with a meter installed in Taiwan. Meanwhile, to meet the demand of the electricity market, accelerate the deployment of energy storage and green power trading businesses and strengthen the one-stop services of “energy generation, energy storage, and green power trading,” Greenet Co., Ltd., the power selling subsidiary of J&V Energy, has been signing contracts with domestic and foreign enterprises for power selling since 2021, and the total contracted

supply capacity reached 1.3 billion kWh, standing firm as one to the top three green power trading platform in Taiwan. In particular, J&V Energy owns PV, wind power, and energy storage businesses and even continues to develop other renewable energy sources and collaborate with other power generation companies to provide those who need green power with premium and stable power quality and more reasonable electricity prices.

J&V Energy has followed the example of Berkshire Hathaway in joining forces with outstanding partners in various fields to operate in the unique innovative “asset-heavy and lightweight” business model in the green energy industry, making investment strategies and the use of funds more flexible. Our operating capability is recognized, representing that the flexibility and changes in J&V Energy’s business model are capable of connecting to the world’s standards.

Plant Seeds of Sustainability and Convey Hope to Spread Love

To implement ESG and corporate sustainability, J&V Energy has long been rooted in Taiwan to give back to rural areas. By spreading green energy to remote areas, donating PV systems to tribes and churches, and launching the “J&V Energy Sustainability Rooting Plan,” the public welfare power plants not only save power bills and expenses for schools in remote townships and disadvantaged groups but also achieve the benefit of carbon reduction and environmental protection; the “Green Energy Knowledge Workshop” was also organized to allow more children to become the seeds of sustainability.

In addition, J&V Energy supports the vigorous development of diverse sports, has long-term been promoting entry-level sports, and implements children’s soccer public welfare programs. It supported the underprivileged groups to realize their dreams, sponsored the J&V Energy Hearing Impaired Cavaliers baseball team, and even formed a cross-field J&V Energy professional basketball team. It hired NBA superstars Dwight Howard and DeMarcus Cousins to play basketball in Taiwan, setting off an upsurge and rocking the basketball scene at home and abroad. By fulfilling its corporate social responsibility, J&V Energy demonstrates its influence in terms of corporate sustainability.

“Green Pioneer” J&V Energy adopts innovative strategies and utilizes its rich development and investment experience, as well as its outstanding communication skills, to join hands with partners (i.e. Berkshire’s diversified operations) to strengthen its ESG map, increase the supply of green power in Taiwan, care for resource sustainability, and create a low-carbon sustainable living circle. By building the consensus of all employees and working with customers, suppliers, and partners, J&V Energy will continue to make efforts for environmental sustainability, jointly achieve the goal of net-zero emissions, and realize a sustainable net-zero green life.



General Manager

Cen

Chairman

Frank Liao

About the Report

The 2023 Sustainability Report is the first report issued by J&V Energy Technology Co., Ltd. (the “J&V Energy” and the “Company”). The Company upholds the principles of openness, integrity, and sustainability and sequentially discloses the sustainable practices and implementation performance of J&V Energy in the areas of operating performance, corporate governance, corporate social responsibility, sustainable environment, ecological restoration, employee cultivation, and social contribution. It established communication channels with stakeholders in the hope of allowing stakeholders who care for J&V Energy and the public to learn more about J&V Energy's commitment and determination for sustainable development through the publication of the Report.

Report Boundary and Period

The scope of the Report covers the business locations of J&V Energy Technology Co., Ltd. in Taiwan, including Taipei Headquarters, Xuejia Office in Tainan City, and Yongkang Office in Tainan City, and excludes other subsidiaries and investees in the consolidated financial statements. The disclosure period of the Report is from January 1, 2023 to December 31, 2023, and partial content also covers the information before January 1, 2023 and after December 31, 2023; the scope of information disclosed in the Report is consistent with that of the annual report (January 1 to December 31, 2023).

This report is published for the first time this year. During the reporting period, there was no significant operational change, information restatement, or change in reporting.

Report Preparation Principles

The framework of the Report referred to the Universal Standards 2021 issued by GRI in 2021 as the basis for the information disclosure in the Report and responded to the “Sustainable Development Best-Practice Principles for TWSE/ TPEX Listed Companies,” Task Force on Climate-related Financial Disclosures (TCFD), and Sustainability Accounting Standards Board (SASB) for preparation. After the compilation and preparation of the Sustainability Report Preparation Team, the Report is submitted to the supervisors of different promotion teams of the Sustainable Development Office for review and amendments, submitted to the Sustainable Development Committee for review, submitted to the Board for reporting, and finalized for publication after the resolution was made by the Board.

Report Management Method

Internal Audit

The Company's Board reviews the ESG (environmental, social, governance) performance and strategic goals every year. The auditing unit reviews the reliability of the relevant information and compliance with relevant regulations. The Sustainable Development Office examines the content of each chapter in the Report and the information accuracy, submits it to the Sustainable Development Committee for review, and submits it to the Board for approval.

External Verification and Claims

To enhance the credibility of the Sustainability Report, various information and statistics disclosed are from the statistics and survey results of J&V Energy. The Company has commissioned "PwC Taiwan" to implement the independent limited assurance according to ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" issued by the "Accounting Research and Development Foundation." For relevant assurance items and scope, please refer to Appendix 4 "CPA's Limited Assurance Report" of the Report.

Report Release Date

This is the first Sustainability Report prepared by J&V Energy Technology Co., Ltd. The Company will publish a "Sustainability Report" on a regular basis every year.

The current publication Publish in August 2024.

The next publication Publish in August 2025.

Contact Information

If you have any suggestions or questions about this Report, please feel free to contact us.

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J&V Energy ESG
Sustainable Homeland



J&V Energy's ESG Highlights in 2023

Environmental Performance

- The green power consumption rate reached **RE25**.
- The development and installation capacity of solar photovoltaic exceeded **600MW** with achievements spread across **12 counties/cities** in Taiwan.
- Monitor and investigate the ecology around project sites, assess biodiversity issues according to the **PDCA cycle**, and propose countermeasures to maintain biodiversity development.
- Introduced **ISO 14064-1** GHG Inventory.

E



Social Performance

- Average salary adjustment ratio was **8.96%**.
- Retention rate achieved **82.50%**.
- The total education and training hours of employees reached **2,287 hours**, and the average training hours per person was **19.38 hours**.
- Adopted gender friendliness, and the ratio of female supervisors reached **30.76%**.
- Organized green energy public welfare actions in **six counties/cities** in Taiwan, donated **26kW** of solar photovoltaic installation capacity, and reached **36,148 people** through the green energy education program.
- Charitable donations exceeded **NT\$24,250,000**.

S



Operating Performance

- In 2023, the consolidated operating income was **NT\$6.784 billion**, the consolidated net profit was **NT\$1.016 billion**, and earnings per share (EPS) was NT\$8.77, with all three items reaching new heights in growth.
- Strengthened gender equality of the Board, with the proportion of **female Directors** reaching **28.6%**.
- The Company's Independent Directors accounted for **57%** of all Directors.
- **17 proposals** related to sustainable development were reported to the Board.

G



Achievements of J&V Energy in 2023

J&V Energy and General Manager Chao, Shu-Min were awarded the **“Top 10 Outstanding Enterprises”** and **“Top 10 Outstanding Corporate Leaders”** awards at the 22nd Golden Peak Award

Creating a sustainable workplace through salary increases, watching ball games, and massage for pressure relief, J&V Energy continued to be awarded **the 1111 Happy Enterprise Gold Award**

J&V Energy won the Sustainable Innovation Award at **Taiwan International Smart Energy Week for fishery and electricity symbiosis with the inclusion of clams**

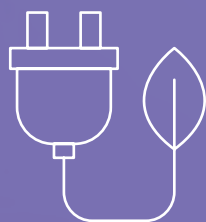
Ranked first among Commonwealth Magazine's 2023 **Fast Growing Top 100**

Achievements in 2023

Win-win for breeding innovation and fishery and electricity symbiosis: J&V Energy was selected for **the 7th PwC Sustainability Influence Award**

01

Sustainable Energy



MATERIAL TOPIC – RENEWABLE ENERGY DEVELOPMENT10

1.1 VISION_CREATING A LOW-CARBON SUSTAINABLE
HOMELAND 12

1.2 ENERGY CREATION_DIVERSE GREEN POWER OF WIND,
PV, BIOMASS, AND HYDROGEN14

1.3 ENERGY STORAGE_KEY ROLE IN GRID
STABILIZATION16

1.4 ELECTRICITY SALES_ASSIST ENTERPRISES IN
CONNECTING WITH THE INTERNATIONAL MARKET..... 18

1.5 WATER TREATMENT_SEWAGE RECYCLING AND REUSE19

1.6 NET-ZERO TARGET_ZERO WASTE AND ZERO CARBON
EMISSIONS20



Rotate the J&V Energy, rotate it sustainably!
As the J&V Energy showcases its innovation and speed,
it also embodies sustainable DNA.
Have you noticed?



Material Topic Renewable Energy Development

Sustainability Topic

Renewable energy development

Corresponding GRI Indicators

Custom Topics

Importance to J&V Energy

In response to the international trend of carbon reduction, J&V Energy is committed to promoting the development of renewable energy. In order to implement energy transformation, J&V Energy actively invests in various green energy industries and provides domestic green electricity supply, hoping to effectively reduce GHG emissions, achieve ecological restoration, and move toward a low-carbon future. The green energy industry has also become the growing momentum of the Company's operating income; therefore, the development of renewable energy is of great importance to the Company.

Effects and Impacts

Environmental Effects and Impacts

The development and setup of renewable energy project sites without ecological surveys can easily endanger the surrounding environment and ecology, resulting in damage and pollution to the local area.

Economic Effects and Impacts

With the rise of the international energy trend, national energy policies have been formulated to respond to the increase in market demand and increase the proportion of renewable energy consumption, which is beneficial for the Company's operating performance.

Human Rights Effects and Impacts

The development of renewable energy and the construction of facilities may infringe upon local residents' living rights, interests, and living quality.



Policy/Strategy

The Company conducts various investment planning with renewable energy integration services, including PV, wind power generation, energy storage systems, green power trading, water treatment, biomass energy and other renewable energy integration services, assists major power users and customers with demand for different types of renewable energy and green power in evaluating appropriate energy solutions, and keeps abreast of the development of international technologies and the collection of governmental regulations.

Goals and Targets

Short-term Goals (2-3 years)

At the present stage, we continue to expand our renewable energy landscape and connect offshore wind power, energy storage projects, green power trading, water treatment projects, and biomass energy projects.

It is expected to complete the development of the fishery and electricity symbiosis project of 70MW, the development of the PV roof project of 15MW, the installation of energy storage of 200MW, and the design and planning of energy storage of 110MW.

For renewable energy supply, in the short term, the target is to accumulate a supply of 480 million kWh of renewable energy in the following three years.

Mid- and Long-term Goals (3-5 years)

The Company plans to expand its renewable energy landscape overseas and aims to accumulate 1GW of installed renewable energy capacity at home and abroad by 2030. In the long run, the goal is to accumulate 3 GW of installed renewable energy installation capacity at home and abroad by 2050.

For renewable energy supply, the long-term target is to accumulate the supply of 720 million kWh of renewable energy in the following five years.

Performance and Adjustment

Target in 2023

- Completed fishery and electricity symbiosis power generation project of 128MW
- Completed the design and planning of energy storage of 200MW
- Completed the installation of a PV rooftop project of 12MW and a floatovoltaics project of 1.2MW

The annual performance on the topic has been achieved. In the future, the Company will continue to develop and invest in the installations of renewable energy power plants and expand the installation of energy storage equipment to help stabilize the power grid and enhance the resilience of the power grid.

Management Evaluation System

- At the end of each year, the Company sets the renewable energy supply and power selling target for the following year to establish the evaluation for renewable energy supply and power selling services of different levels, allowing personnel of departments to observe.
- In accordance with the ISO 14064-1 internal management review procedure, the Company conducts the effectiveness evaluation of PDCA for emission management.

Preventive or Remedial Measures

The Company flexibly adjusts the direction of business execution to comply with domestic and foreign policies, laws and regulations, and related trends to achieve the effect of risk diversification. By setting annual targets for the installed renewable energy capacity, it regularly reviews the achievement rate. If the developed capacity is less favorable than expected, the Company also actively procures renewable energy project sites, works with partners in expanding businesses, and develops overseas renewable energy project sites.

The Company sets the green power supply and power selling target each year and regularly examines the achievement rate. If the target is not achieved, the Company will evaluate whether to adjust the pricing strategy or engage in additional businesses to actively improve in the hope of achieving the target.



Vision & Purpose

Connect globally through
professionalism



Uplift green energy
through action

Corporate Vision



Advance towards a sustainable green corporation and achieve green energy without borders

Corporate Strategy



Powerful partnerships for mutual benefits

Core Values



With high quality, speed, and tolerance, connect globally through professionalism and uplift green energy through action

1.1 Vision Creating A Low-carbon Sustainable Homeland

Established in 2016, J&V Energy started investing in the construction of solar photovoltaic project sites. As of the end of 2023, the cumulative total installed capacity reached 600MW, with achievements spread across 12 counties/cities in Taiwan. It built multiple indicator project sites, including the first ground-mounted PV project site in the serious land-subsidence area (Sihu Township in Yunlin), the third green power congress worldwide, and the largest floatovoltaics project site in Taiwan (Xinwen Detention Basin in Chiayi), and facilitated the Su'ao International Green Power Port in Yilan, the largest ground-mounted PV project site in landfill in Taiwan (Taichung Wenshan Landfill), and the largest fishery and electricity symbiosis field in Taiwan (Beimen in Tainan). With extensive experience in the development of project sites, we are also

equipped with the professional engineering and technical strength to handle difficult cases (i.e. fishery and electricity symbiosis, floatovoltaics projects, rooftop projects, and even landfill projects). We are bold in making innovations within the industry to become a leader in the new energy industry.

In recent years, J&V Energy has gradually expanded its renewable energy landscape and connected offshore wind power, energy storage, green power trading, water treatment engineering, and biomass energy projects. By covering energy generation, energy storage, and power sales, the flexible supply of renewable energy integration, and power sales planning services, the Company successfully transformed itself into an integrated renewable energy



Xinwen Detention Basin in Chiayi



The First Ground-mounted Solar Power Plant in the Serious Land-subsidence Area at Sihu Township in Yunlin



Ground-mounted PV Project in Landfill (Taichung Wenshan Landfill)

platform service provider in 2021. J&V Energy has followed the example of Berkshire Hathaway in making the best of its strengths to complement its weaknesses. It has formed alliances with outstanding partners in various fields to diversify operations in the green energy industry with its unique, innovative “heavy asset and lightweight” model, and it is committed to becoming the “Berkshire in the Green Power Sector.”

Under the global trend of net-zero emissions, the renewable energy industry will retreat if it is not advanced. J&V Energy is one of the first in the industry to launch a circular economy and recycling application deployment. It invested in biomass fuel power plants to generate power with agricultural surplus resources while adopting carbon capture, refining and reuse. We are committed to developing electric bicycles to reduce carbon emissions from transportation. We have invested in the production of 100% recycled plastic bags to reduce plastic waste. These sustainable actions will transform J&V Energy into a circular economy sustainable investment group with all-round green and low-carbon projects to create a low-carbon sustainable homeland.



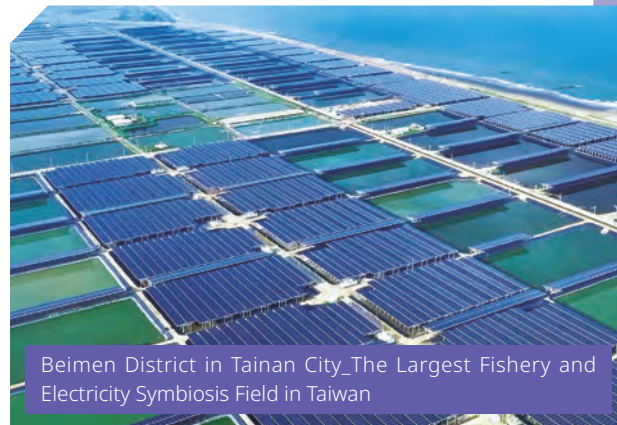
Su'ao International Green Power Port

1.2 Energy Creation Diverse Green Power of Wind, PV, Biomass, and Hydrogen

Taiwan's energy transformation is taking a high-speed train with active development of green energy, coal reduction, and non-nuclear energy. Driven by policies, J&V Energy has invested in sPV, offshore and onshore wind power generation, biomass energy, hydrogen energy, and other diversified renewable energy creation services to provide one-stop integrated services of development and installation, investment setup, and maintenance and operating management, including site planning and design, power generation simulation investment plan, assistance in application for power generation license, power plant construction project management, maintenance and operation monitoring and management, and other services.

The Largest Fishery and Electricity Symbiosis Field in Taiwan

Since 2018, J&V Energy has been integrating 170 hectares of fish farms in the coastal area of Beimen District, Tainan City. Construction began at the end of 2021, and the connection to the grid for power generation was completed in 2023 Q2. With the four major targets of "breeding innovation, green energy development, local co-prosperity, and ecological protection," we have created the largest fishery and electricity symbiosis field in Taiwan.



Beimen District in Tainan City_The Largest Fishery and Electricity Symbiosis Field in Taiwan

- ▶ Covers an area of **170 hectares**.
- ▶ Total installed PV capacity is **128MW**.
- ▶ The annual power generation is approximately **180 million kWh**, equivalent to the annual power consumption of 50,000 households.
- ▶ It is estimated to reduce carbon emissions by **95,000 tons** per year.
- ▶ It is estimated to bring the power generation capacity of over 3.7 billion kWh in the following two decades with a power generation gain of **NT\$20 billion**.
- ▶ Create **2,500 additional job opportunities** in the local area.



Harvest of Clams from the Fishery and Electricity Symbiosis Field

- ▶ The fishery and electricity symbiosis field is mainly divided into a "breeding pond" and a "basin." The breeding pond mainly breeds clams, along with milkfish and white shrimp as working fish; the basin breeds a mixture of milkfish and white shrimp.
- ▶ In 2023, the total fishery harvest value reached **over 500 tons**.
- ▶ In the future, tilapia and other fish cultures will be added, and the estimated annual catch will **exceed 1,500 tons**, creating an environment for farmers for high-value harvest through fishery and electricity symbiosis.

Join Hands to Form the Taiwan Team

J&V Energy joined hands with Synera Renewable Energy, Yeong Guan Energy, and Tien Li Offshore Wind Technology to form the Taiwan Team, which is a professional team of developers and local suppliers. Formosa 4 (F4) and Formosa 5 (F5) are actively securing the stage 3 wind farm development rights in the hope of being allocated a total of 1.5GW (500MW x 3 phases) of wind power capacity for 2026 to 2031.

So far, the selection results for phase 1 of stage 3 have been announced at the end of December 2022. F4 is allocated with 495MW and is expected to be connected to the grid in 2027. In addition to the market in Taiwan, J&V Energy has also ventured into the development of excellent wind farms in Japan, demonstrating its ambitions to explore the international market.

Forward-looking Energy Development

J&V Energy invested in a biomass energy power plant in Pingtung County. The plant is the first biomass energy power plant in Taiwan to generate electricity with agricultural surplus resources. It is committed to carbon capture, refining and reuse, and it will build the first green CO₂ circular biomedical center in Taiwan.

At the same time, in line with the net-zero wave, the Company plans for new energy (i.e. hydrogen power generation and combined heat and power (CHP)) to assist more local industries to catch the train of circular economy and achieve the sustainable development targets of "green energy, resource circulation, and environmental health."

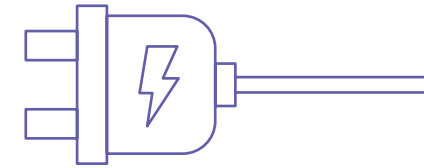


Formation of the Taiwan Team



Pingtung Biomass Energy Power Plant Simulation

- ▶ Through carbon capture and refining technology, the Company refined and produced approximately **10,000 tons** of green CO₂ for biotech laboratories.
- ▶ It is expected to generate **36,700 tons** of CO₂ annually, adding new circulation value to high-end biotechnology, stem cell culture technology, and high-end organic plant plants.
- ▶ The plant is expected to be completed in 2024 Q3 and formally put into use in Q4.

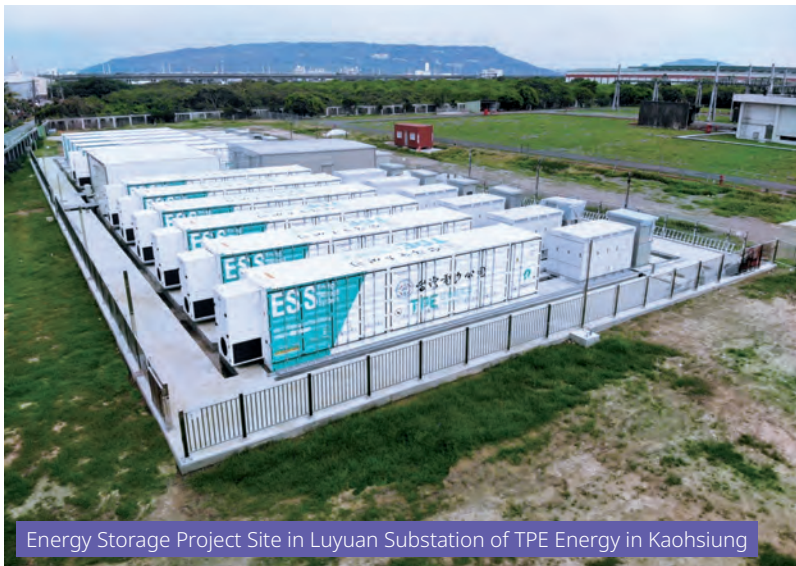


1.3 Energy Storage Key Role in Grid Stabilization

J&V Energy set its foot in the energy storage market in 2021. TPE Energy, a subsidiary of battery energy storage system integration, also became one of the few domestic companies that can provide power grid-level energy storage systems. It possesses comprehensive upstream and downstream technologies, including battery cupboard design and review and the overall design, installation, installation, adjustment, and long-term maintenance of battery management systems (BMS), energy management systems (EMS), and project site industrial control and communication (SCADA-HMI/IEC61850) and

energy storage systems, offering comprehensive solutions.

Since Taipower launched the “Automatic Frequency Control (AFC) Frequency Modulation Aided Service” tender, TPE Energy has won two tenders from Taipower and the first batch of PV storage integration projects in Taiwan, standing out among many competitors, including the energy storage automatic frequency modulation system in Zhongli, Taoyuan, and the energy storage system of Luyuan Substation in Kaohsiung.



Energy Storage Project Site in Luyuan Substation of TPE Energy in Kaohsiung



Energy Storage Automatic Frequency Modulation System in Zhongli, Taoyuan, of TPE Energy

Meter Installation for the Completion of the First PV Storage Project of the Energy Administration

J&V Energy and its subsidiary TPE Energy won the first batch of tenders for the integrated energy storage system and PV installation and installed an energy storage system of 6.2MW/22MWh for the fishery and electricity symbiosis site in Beimen, Tainan, which became the first PV storage project site completed with meter installed in Taiwan. The system will improve the issue related to the intermittent supply of PV, facilitate the maximization of the utilization rate of feeder lines, and create PV, energy storage, and multiple effects.

Create the Largest Energy Storage Project in Taiwan

In 2022, planned for the construction of two largest project sites with a single energy storage capacity of 100MW, with a total installed capacity reaching 200MW. It is estimated to be completed in 2024. Allowing renewable energy to become base load power through energy storage is beneficial for achieving the stability of the power grid.

The project site is the largest single energy storage project site in Taiwan and is highly indicative. J&V Energy is responsible for the turnkey construction and subsequent maintenance and operation. It is

estimated to be able to stably provide the energy storage AFC frequency modulation aided services after the completion at the end of the year.

Small-scale Energy Storage Builds Convenience Stores with Uninterrupted Power

In 2023, J&V Energy cooperated with FamilyMart to install small-scale energy storage equipment at FamilyMart Hsinchu Neihsu Branch, allowing it to be free from power failure and power outage and improving the efficiency of the power system.

At present, UPS systems used by general convenience stores are UPS in combination with small batteries. The cooperation model of J&V Energy and FamilyMart adopted a small-scale energy storage system instead. In the event of a

power failure in the future, the microgrid system will automatically switch to the emergency power supply mode to provide emergency lighting and the power required for basic operations through the energy storage system, which can maintain uninterrupted power for at least five hours, including the normal operation of lighting, surveillance equipment, and cashiers, automatic doors, and other equipment.



The First Completed Project Site of the PV Storage Project of the Energy Administration.



The Largest Single Energy Storage Project Site in Taiwan.



Small-scale Energy Storage Equipment Installed at the FamilyMart Neihsu Store in Hsinchu.

1.4 Electricity Sales Assist Enterprises in Connecting with the International Market

With the increasing demand for renewable energy purchases of domestic and foreign enterprises, the green power trading market has become heated. In 2021, J&V Energy established Greenet Co., Ltd., a subsidiary engaging in power sales, to provide one-stop services for renewable energy supply and power sales, joining the green power trading market.

Greenet Co., Ltd. primarily integrated with the parent company J&V Energy and 40 renewable energy generation companies to provide sufficient, diverse, and stable green power, customize green power sales and purchase services for global corporate customers, and help users to find the optimal and diversified power consumption portfolio solution.

As of the end of 2023, Greenet Co., Ltd. has entered into power sales contracts with multiple domestic and foreign enterprises, and the cumulative number of power consumption sites with contracted corporate customers exceeds 100, including finance, semiconductor, electronics, textile, and chemical engineering industries. In particular, Micron Technology, Gogoro (large-scale electronic motorcycle company), E.sun Bank, and other renowned enterprises are all long-term partners. The total contracted supply capacity reached 1.3 billion kWh,

exceeding the overall green power supply capacity of 1.1 billion kWh in 2022. Greenet Co., Ltd. retained its position as one of the top three green power trading platforms in Taiwan. It is estimated the supply trading volume in 2024 will grow by 3.2 times as compared to the current year. In the future, we will continue to help more enterprises to move toward the target of RE100.



1.5 Water Treatment Sewage Recycling and Reuse

In recent years, global climate anomalies have led to frequent natural disasters. Severe droughts and water shortages have occurred on almost every continent in the world. The uneven distribution of rainfall in Taiwan has further triggered a water shortage crisis. To facilitate sustainable development, J&V Energy invests in the renewable energy field and sets foot in the green circulation industry through diverse deployment. It invested in Weisheng Envirotech Co., Ltd in 2021 to actively develop water resource circulation and application and adopt purifying industrial wastewater and domestic wastewater for use and desalination as the highlight development items so as to supply water for industrial and domestic use through desalination of seawater leveraging the professional technology and capability of Weisheng's team. By doing so, it allows the full use of water resources, improves the competitive strength of industries in Taiwan, and is beneficial for the realization of net-zero emissions in Taiwan in the future.

Investing in Weisheng Envirotech Co., Ltd and Greenhealth Water Resources Co., Ltd. not only strengthened the water treatment business landscape of J&V Energy Group but also allowed the full use of water resources through the maximum synergies of teamwork to improve the competitive strength of industries in Taiwan, which is beneficial for the realization of net-zero emissions in Taiwan in the future.



Dihua Sewage Treatment Plant and Dihua Plant Sewage Treatment Equipment

In 2021, after the investment in Weisheng, J&V Energy secured construction tenders of NT\$6.5 billion in total.

- Taipei City Sewage and Sewerage Station Equipment Renewal Project
- New Construction of Sewage Treatment Plant and Pipelines on the West Side of Taoyuan Airport
- Tap Water Storage Booster Station Project on the West Side of Taoyuan Airport
- Phase 7 Entrusted Operation and Maintenance of Dihua Sewage Treatment Plant and Equipment Renewal

In 2023, the Company became a shareholder of Greenhealth Water Resources Co., Ltd. and was contracted for the most indicative sewage system investment project in Tainan.

- Contracted for the Tainan Saltwater Sewage System BOT project, which covers Annan District, Tainan City. It is the only sewage treatment BOT project in Taiwan in the past decade.
- The total planned area is 7,662 hectares
- Construction funding is NT\$5.5 billion



Greenhealth Water Resources_Annan District Water Recycling Center



1.6 Net-Zero Target

Zero Waste and Zero Carbon Emissions

COP28 focused on two major trends: increasing the consumption rate of renewable energy and carbon reduction technologies used in climate solutions. At the end of 2023, J&V Energy initiated the circular economy and recycling application deployment to turn from compliance to development so as to align with the international trend and turn to sustainable investment. It extended its business territory to 100% recycled plastic bags, biodegradable kitchen waste, electric bicycles, smart breeding and other projects to expand the capacity of a sustainable economy.



02

Sustainable Management



2.1 SUSTAINABILITY STRATEGY MANAGEMENT 22

2.2 STAKEHOLDER ENGAGEMENT 24

2.3 IDENTIFICATION AND ANALYSIS OF MATERIAL TOPICS 28



2.1 Sustainability Strategy Management

Sustainable Development Committee

To realize the ESG vision and mission, after a resolution of the Board, the Sustainable Development Committee was formally established in 2023. It is an ESG promotion organization composed of the Chairman, Independent Directors, General Manager and other senior management, and is the highest decision-making center for sustainable development issues of the Company. The "Sustainable Development Office" has been established under the Committee, with the "Chief of Sustainability" as the representative. Three ESG teams, including the "environmental sustainability team," "social inclusiveness team," and "corporate governance team," have been established under the Sustainable Development Office to establish a comprehensive sustainable governance structure.

The committee is required to keep abreast of the global sustainability status and trends, analyze

sustainability issues of governance, environment, and society, and combine operating cores, innovative services, and carbon reduction actions to set the strategic sustainability directions and project implementation. The Chief of Sustainability is responsible for grasping and analyzing the global sustainability pulse, managing sustainability policy goals and specific actions to ensure the promotion and implementation of sustainable development-related work. The Company is committed to achieving the transformation to energy sustainability, aiming to become a sustainable green enterprise and practicing green energy worldwide.

Responsibilities of the Sustainable Development Committee

In addition to establishing relevant procedural documents, the Sustainable Development Committee also incorporates sustainable corporate development into the Company's operating and

development direction, formulates sustainable corporate development policies, systems or related management guidelines, formulates annual work plans, and reports on work implementation achievements. In terms of economic, environmental, and social issues arising from the Company's business activities, each team shall formulate a work plan for the following year and track the implementation of the plan for the current year based on the business implementation status each year. In addition, it is also responsible for the preparation and submission of the Sustainability Report to the Board for review and publication, as well as regular examination of performance and target achievement progress. It convenes at least two meetings a year and regularly reports to the Board on the sustainability promotion plan and the Board supervises various plans, including policy goals, key projects, and performance achievements, which are submitted to the Board for approval.



Composition of the Sustainable Development Committee

The Sustainability Committee is composed of three Directors (including one Independent Director) and four senior managers, and it assists the Board in continuously promoting corporate social responsibility and improving corporate governance to realize the purpose of sustainable operation.

Committee member	Name	Title
Chairperson	Liao, Fu-Sen	Chairman
Convener	Chao, Shu-Min	General Manager/Director
Committee member	Tang, Chia-Liang	Independent Director
Committee member	Tan, Yu-Xuan	Deputy General Manager
Committee member	Chang, Jian-Wei	Chief of Sustainability and spokesperson
Committee member	Huang, Chih-Ying	Senior Manager, Accounting Section, Finance and Accounting Department
Committee member	Tang, Ya-Sheng	Senior Manager, Green Energy Business Department

Operation of the Sustainable Development Committee

In November 2023, J&V Energy established the Sustainability Committee. In accordance with paragraph 1, Article 5 of the committee's charter, the committee shall convene meetings at least twice a year, except for the year of establishment of the committee; therefore, the Sustainability Committee held one meeting in 2023.

Operation of the Sustainable Development Committee in 2023				
Title	Name	Attendance (presence) in person	Attendance by proxy	Attendance (presence) rate (%)
Chairperson	Liao, Fu-Sen	1	0	100
Convener	Chao, Shu-Min	1	0	100
Committee member	Tang, Chia-Liang	1	0	100
Committee member	Tan, Yu-Xuan	1	0	100
Committee member	Chang, Jian-Wei	1	0	100
Committee member	Huang, Chih-Ying	1	0	100
Committee member	Tang, Ya-Sheng	1	0	100

2.2 Stakeholder Engagement

The possible stakeholders of the Company with reference to the GRI Standards include shareholders and other investors, financial institutions, government and competent authorities, employees and other workers, customers, consumers, business partners, suppliers, local communities, NGOs, social welfare organizations, public associations, tenants, media, contractors, non-profit units and partners, elected representatives, social media, and others. With reference to the stakeholders of peers, after the external expert has added up the score of actual negative impact, potential negative impact, actual positive impact, and potential positive impact of the Company on stakeholders, they are sorted, and those with an overall score over 10 are material stakeholders of the Company for 2023.

In 2023, six categories of stakeholders were finally identified as the annual substantive stakeholders

Shareholders and other investors

Media


Suppliers and contractors


Employees



Customers

Government agencies

Stakeholder Communication Channels

 Shareholders and other investors	Importance to J&V Energy		The trust and support of shareholders/investors are the driving force for the continuous growth of J&V Energy. The Company also adopts the creation of maximum profits and the maximization of shareholders' interests as the target for continuous efforts.	
	Issues of Concern	Communication channel/frequency	Communication effect	J&V Energy's response
	<ul style="list-style-type: none">• Ethical corporate management• Risk management• Economic performance• Corporate governance• Shareholders' equity• Legal Compliance	Shareholders' meeting once a year	Shareholders' meetings and investor conferences are held to enable investors to understand the general status of the Company's operations and the implementation progress of various policies and to establish a favorable two-way communication channel with shareholders to protect the rights and interests of shareholders. In 2023, the Company held seven investor conferences.	In response to our commitment to shareholders and investors, J&V Energy continues to strengthen the operation of the Board and other governance practices, discloses the management structure of various risk issues, and regularly reports to the Board. Meanwhile, it actively connects with international ESG sustainability benchmark practices and engages with customers through renewable energy integration services.
		Shareholder hotline/e-mail real-time		
		Investor conference from time to time every year		
		Market Observation Post System (MOPS) annual reports	Provide operational information to shareholders to enhance information transparency.	Countermeasures
		Official website in Chinese and English	Emphasize the rights and interests of foreign investors and improve the disclosure of English information.	<ul style="list-style-type: none">• Corporate governance • Operational performance• Ethical corporate management • Risk management Sustainability Governance, p.32

 Suppliers and Contractors	Importance to J&V Energy		Suppliers and contractors are important partners of J&V Energy. They provide raw materials and services to improve the Company's operating performance and pay attention to sustainability issues to join hands in realizing a sustainable homeland.	
	Issues of Concern	Communication channel/frequency	Communication effect	J&V Energy's response
	<ul style="list-style-type: none">• Ethical corporate management• Risk management• Corporate governance• Supplier evaluation• Occupational safety and health	Supplier evaluation semi-annually	The Company has signed agreements with suppliers and contractors to value economic, environmental, and social sustainability issues and to trust and assist each other so as to achieve common goals. In 2023, 85 new suppliers were added, and the selection ratio of new suppliers was 100%. There are currently 125 companies. A total of 58 companies were evaluated in the first half of 2023; the evaluation ratio was 46%, and the qualification rate was 97%. A total of 59 companies were evaluated in the second half of 2023; the evaluation ratio was 48%, and the qualification rate was 98%.	We maintain a biannual evaluation system for supply chain management and continue to sign “sustainable operation and net-zero emissions” commitments with suppliers and contractors. We value economic, environmental, and social sustainability issues and are committed to sustainable supplier management based on the principle of sustainable procurement to call upon more partners to join the line of sustainability.
				Countermeasures
			<ul style="list-style-type: none">• Sustainable supply chain management• Customer safety and product management Sustainability Partners, p.55	

 Employees	Importance to J&V Energy	Employees are the most important partners of J&V Energy. We offer favorable working environments, fair treatment, and development opportunities to build their trust in the Company and cohesion.		
	Issues of Concern	Communication channel/frequency	Communication effect	J&V Energy's response
	<ul style="list-style-type: none"> Ethical corporate management Corporate governance Legal Compliance Economic performance Labor relation Labor-management relations Welfare and remuneration Shareholders' equity Occupational safety and health 	Labor-management meeting quarterly	Through labor-management meetings, we listen to employees' demands, protect labor rights and interests, and establish a healthy and harmonious labor-management relationship. In 2023, the Company convened four labor-management meetings.	<p>The employee evaluation criteria consist of work performance and behavioral demonstration. The annual goals are set based on the unit's annual KPIs with reference to individual duties and responsibilities after discussion with the supervisor. The unit/direct supervisor arranges for performance interviews with employees during interim and year-end evaluations to provide specific recommendations.</p> <p>J&V Energy offers a variety of education and training courses and health improvement activities to help employees at all levels improve their professionalism and capabilities while taking care of their physical and mental health so as to achieve a balance between life and work.</p> <p>Countermeasures</p> <ul style="list-style-type: none"> Talent selection, recruitment, cultivation and training Employee rights and interests and remuneration and welfare Value occupational safety and health <p>Friendly Workplace p.89</p>
 Customers	Importance to J&V Energy	J&V Energy listens to customers' requirements and provides professional and high-quality services. Customers' trust and feedback are the driving force behind our operations.		
	Issues of Concern	Communication channel/frequency	Communication effect	J&V Energy's response
	<ul style="list-style-type: none"> Ethical corporate management Customer privacy Customer satisfaction 	Customer service hotline/e-mail real-time	Through the separate hotline and service e-mail, the Company can understand the real-time requirements of customers in order to provide better quality services.	<p>The key to improving customer satisfaction is the continuous provision of innovative services that lead the trend of sustainability. In response to customers' increasing demand for green power, we provide diversified renewable energy integration services and plan suitable sustainability solutions to meet the requirements of different types of customers.</p> <p>Countermeasures</p> <ul style="list-style-type: none"> Sustainable supply chain management Customer safety and product management <p>Sustainability Partners, p.55</p>
		E-mail real-time	Starting from 2024, we expect to conduct annual customer satisfaction surveys in accordance with ISO 9001. The survey will focus on three major themes for customer survey, including professionalism of business services, engineering construction planning and benefits, and overall satisfaction.	

Government agencies	Importance to J&V Energy	Governmental agencies are the makers of relevant laws, regulations, and policies, and J&V Energy's operations comply with the latest laws and regulations. We have two-way communication to actively implement compliance with policies and regulations.		
	Issues of Concern	Communication channel/frequency	Communication effect	J&V Energy's response
	<ul style="list-style-type: none"> Ethical corporate management Corporate governance Legal Compliance Labor relation Labor-management relations Labor rights and interests Occupational safety and health 	E-mail from time to time	The Company complied with government regulations. There were no major penalties in 2023, and the number of official correspondences with governmental agencies was over 1,000.	J&V Energy has set up a Chief Sustainability and Sustainability Development Office to integrate internal resources and introduce a sustainability strategy to ensure that all renewable energy projects can comply with the ESG principles from the aspects of regulations, systems, and services.
		Official correspondence from time to time		
		Phone calls from time to time		Countermeasures <ul style="list-style-type: none"> Corporate governance • Operational performance Ethical corporate management • Risk management Employee rights and interests and remuneration and welfare Value occupational safety and health Sustainability Governance, p.32
		Visits from time to time		
		Meetings from time to time		

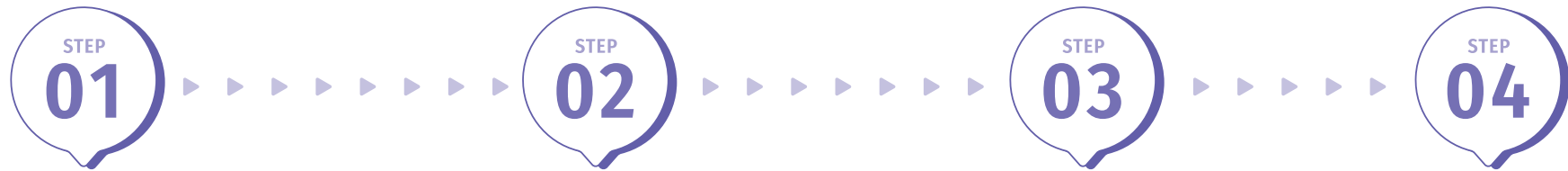
Media	Importance to J&V Energy	Media plays an important role as an information distributor and supervisor, and it pays attention to the development and sustainability practices of J&V Energy. The Company conveys information to the media in a timely manner to allow more stakeholders to understand the sustainable spirit of J&V Energy.		
	Issues of Concern	Communication channel/frequency	Communication effect	J&V Energy's response
	<ul style="list-style-type: none"> Ethical corporate management Corporate governance Legal Compliance Employee rights and benefits Remuneration and benefits 	The Company established the Marketing and Sales Department as the dedicated unit to issue press releases and assist with media needs real-time	A total of 50 press releases were issued to enhance brand awareness through the appropriate use of media resources. Meanwhile, the rapid dissemination of news without borders or jet lag was used to distribute news to all corners to enhance the spreading of the brand among the public, helping the Company to stand out from the competitors and be deeply rooted in the hearts of the public and allowing the public and its stakeholders to see J&V Energy.	Starting from the PV business, J&V Energy has continued to invest in wind power generation, energy storage, green power trading, biomass energy, water treatment and other projects, and has further deployed low-carbon sustainable projects of circular economy, smart breeding, and electric bicycles to establish long-term stable gains based on the three major development axes of green energy, environmental protection and circular economy. In the future, we will follow international trends and government policies, pay attention to the development of emerging green energy (i.e. hydrogen energy and biomass energy), and integrate upstream and downstream partners with the goal of becoming a leader in the sustainable development of the circular economy in the Asia Pacific region.
Countermeasures <ul style="list-style-type: none"> Corporate governance • Operational performance • Ethical corporate management Risk management • Employee rights and interests and remuneration and welfare Sustainability Governance, p.32 Friendly Workplace p.89				

2.3

Identification and Analysis of Material Topics

Through the material topic identification process, J&V Energy analyzed issues related to the Company's operating activities, business relationships, and sustainability context, identified the material issues for 2023, and effectively responded to the concerns of various stakeholders in material topic management.

To ensure that the information disclosed in the Sustainability Report meets the requirements of stakeholders, we determined material sustainability topics through four steps, including "understanding the organizational structure," "identifying the actual and potential impact of sustainability issues," "evaluating the significance of the impact," and "sustainability issue disclosure and reporting."



Understanding the organizational structure

With reference to the GRI Standards, SASB, and the material topics of the sustainability disclosure indicators of the FSC, a total of 37 sustainability issues were compiled, including three major sustainability aspects of economy, environment, and society.

Result

**Three major
sustainability aspects
37 sustainability issues**

Identifying the actual and potential impact of sustainability issues

External experts will score the corresponding sustainability issues of the Company based on the actual or potential negative impacts and positive impacts of the economy, environment, and society (human and human rights) and sort them after adding up the scores of actual negative impact, potential negative impact, actual positive impact, and potential positive impact of topics. Topics with a total score of over 30 are first selected as material topics of J&V Energy based on SASB and sustainability disclosure indicator topics of the FSC.

Evaluating the significance of the impact

The scoring results were approved by external experts after a meeting with the Company's sustainability teams. Based on past operating experience, they explored the significance and possibility of the issue's impact and analyzed and confirmed the seven material sustainability issues of J&V Energy.

Result

**Seven material sustainability issues
Combined as seven material topics management content**

Sustainability issue disclosure and reporting

As for the analysis results of material sustainability issues, external experts and various departments of the Company conducted a comprehensive assessment according to the nature of each issue and ultimately summarized the seven material sustainability issues into seven material themes topic management content to communicate with and respond to stakeholders through the Sustainability Report.

Identification Results of Material Topics

The Company identified seven material topics, including "Biodiversity," "Waste," "Occupational safety and health," "Energy," and "Supplier environmental assessment," as well as the custom "Renewable energy development" and "Talent cultivation" by J&V Energy as the material topics for 2023.

- 1 Biodiversity
- 2 Waste
- 3 Occupational safety and health
- 4 Energy
- 5 Supplier environmental assessment
- 6 Renewable energy development
(custom topic)
- 7 Talent cultivation
(custom topic)



List of Material Topics

Sustainability issues	Corresponding GRI Indicators	Importance to J&V Energy	Impacts	Positive/negative	Main counterparties of impact	Corresponding chapter
Renewable energy development	Renewable energy (custom topic)	In light of the global net-zero trend and the promotion of net-zero emissions by the domestic government, J&V Energy actively explored renewable energy power generation in the hope of achieving the business philosophy of "advance towards a sustainable green corporation and achieve green energy without borders."	<p>Environmental aspect: The development and installation of renewable energy may indirectly cause damage to the environment and ecology.</p> <p>Economic aspect: The government advocates the development of renewable energy, which effectively enhances the Company's operating growth.</p> <p>Human/human rights aspect: The development of renewable energy power plants may affect the living rights and quality of life of local residents.</p>	<p>Positive: The energy policy has led to an increase in the proportion of renewable energy consumption, which also provides opportunities for the Company to grow in terms of installed capacity. Domestic and foreign enterprises have a high demand for green power, bringing business opportunities to the Company.</p> <p>Negative: Continuing sustainable governance in our operations may cause increased costs, regulatory uncertainties, social and political pressures, and other negative impacts.</p>	Business partners/ customers/ shareholders and other investors/ local communities/ environmental groups/ financial institutions/ governmental agencies/suppliers and contractors	01. Sustainable Energy
Energy	GRI 302 Energy GRI 305 Emissions	J&V Energy adopts building a low-carbon sustainable homeland as its goal. In response to the national policy of net-zero carbon emissions by 2050, it actively invested in energy conservation, carbon reduction, and the reduction of energy consumption and has achieved the target of a sustainable earth.	<p>Environmental aspect: The Company actively invests in energy conservation, carbon reduction, and the reduction of energy consumption and is friendly to the global environment.</p> <p>Economic aspect: The Company reduces energy consumption, which can reduce electricity costs and expenditures.</p>	<p>Positive: We promote energy management strategies and actively implement energy conservation and carbon reduction actions, which help to reduce CO₂ emissions in the environment and reduce the level of harm to the environment and society.</p> <p>Negatives: Failure to promptly monitor the negative impacts of our own industries or properly manage energy applications may lead to energy waste and violation of regulations, indirectly affecting the perception in society and corporate image.</p>	Shareholders and other investors/ employees/suppliers and contractors/ customers/financial institutions/ government agencies/ local communities/ business partners	05. Environment Friendliness
Biodiversity	GRI 304 Biodiversity	J&V Energy understands that natural biodiversity is a precious asset and an important core of sustainable development. J&V Energy is committed to protecting biodiversity and abiding by Taiwan's natural environment-related laws and policies, avoiding ecologically sensitive areas for operating activities and striving to reduce ecological impacts so as to achieve the concept of sustainable coexistence.	<p>Environmental aspect: The development of the project site may cause damage to the environment, affect the local ecology, compress the habitat of organisms, and cause ecological impacts.</p> <p>Human/human rights aspect: If the construction of the project site causes damage or pollution to the environment, it may also directly affect the rights, interests and livelihood of local communities and residents.</p>	<p>Positive: The Company actively advocates the importance of ecological resources and makes the stakeholders of J&V Energy recognize and pay attention to ecological issues.</p> <p>Negative: If the local ecology or environment is damaged, it may cause protests from environmental groups or local residents, harm to corporate image, and the loss of the trust of investors and other stakeholders.</p>	Shareholders and other investors/ governmental agencies/local communities/non-profit organizations	06. Biodiversity
Occupational safety and health	GRI 403 Occupational safety and health	J&V Energy provides a safe and healthy work environment, ensures the physical and mental health of employees, improves work performance and happiness, and builds a safe, reliable, and happy workplace.	<p>Economic aspect: In the event of workplace hazards, employee injury or illness also affects the supply of human resources and causes additional medical expenses. The occurrence of occupational safety incidents will also reduce the trust of employees and the public in the Company.</p> <p>Human/human rights aspect: The health of employees is the Company's greatest asset. To prevent occupational accidents, the Company organizes education and training lectures on a regular basis to ensure that employees stay away from occupational accidents.</p>	<p>Positive: A sound occupational safety system and occupational safety training can effectively reduce the occurrence of workplace accidents, reduce occupational injuries and diseases, improve the Company's reputation, reduce the risk of litigation, and avoid penalties.</p> <p>Negative: If an employee suffers from an occupational accident, the Company may face medical expenses for functional injuries and government fines, and the Company may easily damage the corporate image and lose the trust of investors and other stakeholders.</p>	Shareholders and other investors/ employees/suppliers and contractors/ customers/ governmental agencies/business partners	07. Happy Workplace

Sustainability issues	Corresponding GRI Indicators	Importance to J&V Energy	Impacts	Positive/negative	Main counterparties of impact	Corresponding chapter
Waste	GRI 306 Waste	J&V Energy values waste disposal and environmental protection. To reduce the negative impact of man-made waste on the environment, we have set up various waste recycling and disposal facilities, cooperated with site preparation and material stacking operations, and performed audits of the shipping documents of materials used to ensure that there will not be substances harmful to environment emitted before adoption.	<p>Environmental aspect: Noises and vibrations generated by mechanical and electrical machinery during the construction period may affect nearby residents and inhabit animals. If the material waste and water used for construction generated during the course are not properly disposed of, it may affect residents' access and cause dirty living environments.</p> <p>Economic aspect: The waste generated during the construction period is cleared by qualified local recycling contractors to properly stimulate local job opportunities and economic development.</p> <p>Human/human rights aspect: If the waste is not properly disposed of, it will affect the living rights and interests and lead to a decrease in the living quality of local residents.</p>	<p>Positive: Business waste can be recycled and resold to recycling companies or recycled and reused to reduce waste clearance expenses, which contributes to the development of the circular economy, implementing the spirit of sustainability.</p> <p>Negative: If construction waste is not properly disposed of, the environment will be damaged and polluted and administrative agencies will impose punishments, which will affect the corporate image and the stakeholders' perception of J&V Energy.</p>	Shareholders and other investors/ governmental agencies/local communities/suppliers and contractors/non-profit organizations	05. Environment Friendliness
Supplier environmental assessment	GRI 308 Supplier environmental assessment	Through the supply chain management system, we effectively select qualified suppliers to reduce environmental risks, implement sustainable operations, and create a win-win situation with suppliers.	<p>Environmental aspect: Environmental aspect: Through international certification, sustainable management, and net-zero emission commitments, we urge suppliers to comply with laws and regulations to achieve sustainable development and create a win-win situation.</p> <p>Economic aspect: Execute the supplier evaluation and management system to reach a mutual consensus and mutual benefit. It can reduce operating risks and improve corporate reputation and development opportunities while driving operating performance.</p>	<p>Positive: The Company executed evaluation management agreements with suppliers to properly manage the environmental issues of partners in the value and supply chains to reduce the impact on the corporate image due to improper supply chain management.</p> <p>Negative: If an environmental hazard incident occurs to a supplier, it will indirectly lead to negative media opinion, affecting corporate reputation and the stakeholders' willingness to invest in the future.</p>	Shareholders and other investors/ suppliers and contractors/ customers/ governmental agencies/business partners	04. Sustainable Partners
Talent cultivation	Talent cultivation (custom topic)	J&V Energy believes that the talent cultivation system is one of the keys to the sustainable operation of an enterprise. Through sound education and training, we encourage employees to obtain licenses and improve their professional capabilities, which is beneficial for enhancing the competitiveness of the enterprise.	<p>Economic aspect: Cultivate employees and enhance corporate competitiveness to create greater value for the Company.</p> <p>Human/human rights aspect: We attach importance to talent development and training and encourage employees to participate in professional training and license courses, allowing employees to continue to learn and improve apart from work.</p>	<p>Positive: Provide a sound education, training, and cultivation system to nurture professional capabilities, enhance the competence and professionalism of employees, and improve the Company's competitiveness within the industry.</p> <p>Negative: Failure to build learning channels and cultivate professional skills for employees will not only cause the inability of employees to improve their competence but may also easily cause the absence of talent development and competitiveness strength of the Company within the industry.</p>	Employees	07. Happy Workplace

03

Sustainable Governance



- 3.1 ABOUT J&V ENERGY33
- 3.2 CORPORATE GOVERNANCE39
- 3.3 OPERATIONAL PERFORMANCE49
- 3.4 RISK MANAGEMENT51
- 3.5 ETHICAL CORPORATE MANAGEMENT53

3.1 About J&V Energy

J&V Energy Technology Co., Ltd. (stock code: 6869) is a comprehensive circular economy sustainable investment group. Adhering to the sustainable development prospect of “advance towards a sustainable green corporation and achieve green energy without borders,” the Company primarily engages in three major businesses, including renewable energy power plant development, investment installation, and maintenance and operation management. In recent years, wind power generation, energy storage, green power trading, water resources, biomass power generation, and other investment items have been added to J&V Energy's business landscape. It deems sustainable energy the core philosophy of the Company, actively explores green power, and builds a green and sustainable environment to realize environment restoration and duly fulfill J&V Energy's social responsibilities.

Basic Information

Company name	J&V Energy Technology Co., Ltd.
Date of establishment	February 15, 2016
Market	Listed
Stock code	6869
Industry	Green energy and environmental protection industry
Listed date	March 14, 2023
Main scope of business	Development of renewable energy power plants, investment installation, and maintenance and operation management
Chairman	Liao, Fu-Sen
General Manager	Chao, Shu-Min
Business locations	Taipei Headquarters (4F-1, No. 1, Jihu Road, Neihu District, Taipei City) Xuejia Office in Tainan (No. 263, Xijia Road, Xuejia District, Tainan City) Yongkang Office in Tainan (13F, No. 1-75, Zhonghua Road, Yongkang District, Tainan City)
Number of employees	118 persons (as of the end of December 2023)
Paid-in capital	NT\$1,162,090,780

Shareholding structure

As of November 28, the book closure date for the 2023 annual shareholders' meeting (please refer to the annual report for the shareholder structure), the shareholder structure of J&V Energy is mainly composed of individuals and other corporations. For shareholders with over 5% equity or the name of shareholders with top ten equity, number of shares held, and ratio, please refer to [page 95 of the annual report](#). The Company is committed to providing shareholders with transparent and timely corporate information. In 2023, in addition to providing relevant information to shareholders through the investor conference, annual shareholders' meeting, the MOPS, investors' section, and annual reports, we continued to collect shareholders' opinions and provide feedback to the management for reference for decision-making.

Shareholding Structure Chart

Shareholders	Number of shares held	Shareholding ratio (%)
Individuals	88,058,306	75.78
Other corporations	27,483,644	23.65
Foreign institutions and foreigners	667,128	0.57
Financial institutions	0	0
Governmental agencies	0	0

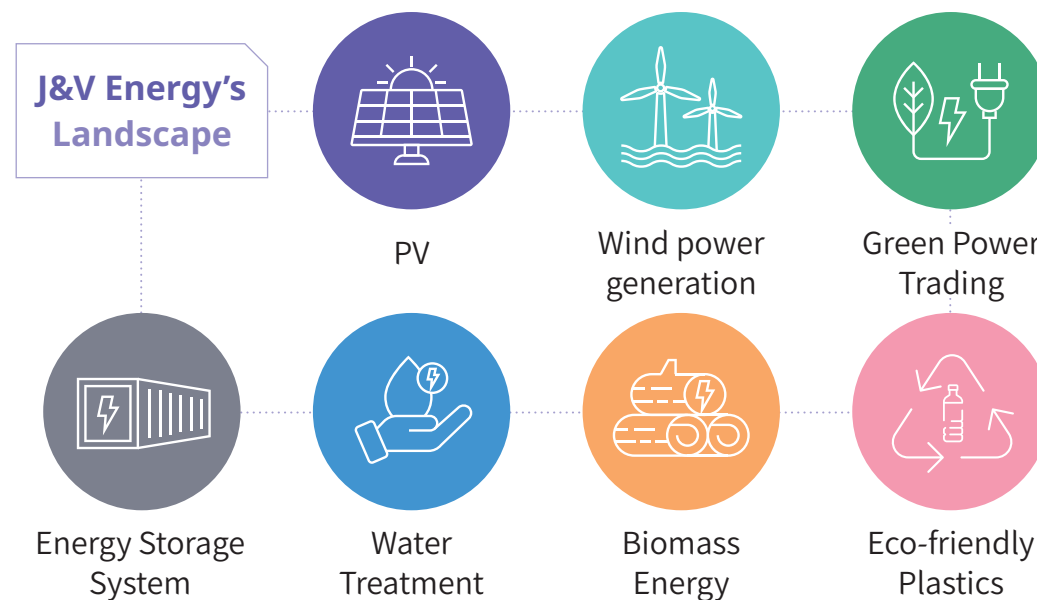
Company History

Year	2016	2017	2018	2019
History	<ul style="list-style-type: none"> In February, J&V Investment Holding Co., Ltd. was established, and its organizational form was altered with its name changed to J&V Energy Technology Co., Ltd. in May. It is primarily engaging in investments in solar power plants. The Company was the first solar power company in Taiwan to obtain a miscellaneous license for projects in the land-subsidence area and achieved the first successful grid connection case. The Company achieved the grid connection of a solar power plant for power generation in the largest land-subsidence area in Taiwan in Taixi Township, Yunlin County. Asia's largest thin-film rooftop solar power plant in Su'ao, Yilan, which adopts First Solar high-efficiency modules of the Company was connected to the grid for power generation. 	<ul style="list-style-type: none"> The Company's rooftop solar power plant at the Legislative Yuan was connected to the grid for power generation, and Legislative Yuan became the third green power congress worldwide. The Company's "PV system in the largest land-subsidence area in Taiwan in Taixi Township, Yunlin County" won the "Public Construction Excellence Award" and the "Organizer Special Award – Environmental Protection and Green Energy Special Award" at the 18th National Golden Award for Architecture. 	<ul style="list-style-type: none"> The Company's solar power plant at Su'ao Port Warehouse No. 4 was connected to the grid for power generation, which assisted Su'ao Port in obtaining the international green energy port certification. The Company successfully won the tender for the largest floatovoltaics project in Taiwan at the Xinwen Detention Basin in Chiayi. The Company executed a 70MW PV cooperation project with the real asset investment team of BlackRock in the United States. The Company's ground-mounted PV plant located at the Taichung Wenshan Landfill was connected to the grid for power generation. The Company created the investment of power sales income in public welfare as feedback. The Company's first floatovoltaics plants were connected to the grid for power generation – Xiashe Pi and Sanye Pi of the Yongan Detention Basin in Kaohsiung. The Company's "Taiwan's largest thin-film rooftop solar power plant in Su'ao" won the "Public Construction Excellence Award" at the 19th National Golden Award for Architecture. The Company became a green energy project counselor certified by the Pingtung County Government. 	<ul style="list-style-type: none"> The Company assisted Google in purchasing renewable energy in Taiwan, which was Google's first renewable energy transaction in Asia. The Company executed a 115MW PV cooperation project with the real asset investment team of BlackRock in the United States for the second time. The Company's first department store rooftop solar power plant in Pingtung City was connected to the grid. The Company's "Kaohsiung Lake floatovoltaics plant" won the "Public Construction Excellence Award" at the 20th National Golden Award for Architecture. The Company won the "Top Ten Potential Enterprises Award of the Year" and the "Top Ten Potential Managers Award of the Year" at the 15th Golden Torch Awards. The Company became the only operator in the southern region for the Taoyuan City Government's "Green Rooftop Public Participation" program.

Year	2020	2021	2022	2023
History	<ul style="list-style-type: none"> The Company worked with the Institute for Information Industry and Taiyan Green Energy to build a demonstration farm for fishery and electricity symbiosis smart breeding, which was completed and put into use. The Company successfully won the tender for the solar power generation system located in Dacun Township, Changhua County, and Taitung City, Taitung County. The Company won the "Outstanding Entrepreneur" award at the 17th National Brand Yushan Award. The Company was awarded the "Chinese Charity Ambassador" medal at the 3rd Charity Festival of Chinese. 	<ul style="list-style-type: none"> The fishery and electricity symbiosis project sits in Beimen District, Tainan City, with an installed capacity of 128MW and had two unprecedented achievements: It is the largest fishery and electricity symbiosis site in Taiwan and is the power generation site of the first green energy purchase of Google in Asia, becoming the most indicative fishery and electricity symbiosis project in Taiwan. Being optimistic about the energy storage industry, the Company invested in "TPE Energy," an energy storage system integration company, and officially entered the energy storage market. The Company joined hands with Synera Renewable Energy, Tien Li Offshore Wind Technology, and Yeong Guan Energy to form the first "Taiwan Team" with the joint investments of local elite developers and the supply chain to jointly invest in planning a large-scale project site development plan in Miaoli offshore area. Adhering to the spirit of resource circulation and paying attention to water resource issues, the Company has become the shareholder of Weisheng Envirotech Co., Ltd to actively develop the treatment, recycling, and reuse of industrial wastewater, effectively alleviating water shortages. "Greenet Co., Ltd.," a subsidiary invested by the Company, obtained the electricity sales business license. The Company's application to the competent securities authority for the initial supplementary offering of shares took effect. Subsidiary Greenet assisted E.SUN Financial Holding in completing the first group green power supply. 	<ul style="list-style-type: none"> The Company was listed on the Emerging Stock Market Subsidiary Greenet signed a contract with Gogoro, a leading electric scooter company, to assist Gogoro in completing the deployment of renewable energy. CommonWealth Magazine's Top 2000 Survey: J&V Energy ranked first in the "50 Fastest-growing Companies in the Service Sector." Subsidiary Greenet signed a seven-year power purchase agreement with Micron Technology to provide 500 million kWh of green electricity to facilitate Micron in achieving its target of net-zero emissions. The Company will invest in the construction of two energy storage systems of 100MW each, totaling 200MW, in Wujie Township, Yilan County. Both projects will be the largest single energy storage project site in Taiwan. The Company won the Bronze Award for SDG 7 Affordable Energy in the "2022 Taiwan Sustainability Awards (TSAA)." Formosa 4, planned by the Taiwan Offshore Wind Power Team, obtained the development right for phase 1 in the stage 3 regional development. The fishery and electricity symbiosis project site in Beimen District, Tainan City, is connected to the grid with a capacity of 108MW. The Company won the "Gold Award" in the Technology R&D category in the 1111 Happy Enterprise Awards 	<ul style="list-style-type: none"> The Company was listed on the Taiwan Innovation Board. CommonWealth Magazine: J&V Energy ranked first in the "2023 Fast Growing Top 100." Subsidiary Greenet signed the contract for a green power bill trust with SinoPac Bank and Bank of Kaohsiung to introduce the green power bill trust system. Weisheng Envirotech won the tender for "Phase 7 Entrusted Operation and Maintenance of Dihua Sewage Treatment Plant and Equipment Renewal." The fishery and electricity symbiosis project site in Beimen District, Tainan City, is connected to the grid with a full capacity of 128MW. The Company and DrSignal BioTechnology signed the contract for the double integration project and announced the cross-field cooperation of the green power industry and the biotech industry. The Company won the "Top 10 Outstanding Enterprises" and "Top 10 Outstanding Corporate Leaders" awards at the 22nd Golden Peak Award. The Company won the "Sustainable Innovation Award at Taiwan International Smart Energy Week." The Company continued to win the "Gold Award" in the Technology R&D category in the 1111 Happy Enterprise Awards The Company acquired the equity of "Diwei Electricity Co., Ltd." and "Liangwei Electricity Co., Ltd."

Business Category and Service Items

Around the world, 137 countries and regions have announced to achieve net-zero emissions by 2050. In the environment of net-zero emissions, the renewable energy industry will retreat if it is not advanced. The Company mainly engages in the investment in the installation of PV systems, energy storage systems, and green power supply and power sales as its major industrial services and, in turn, transforms into a circular economy sustainable investment group, deploying green and low-carbon projects in an all-round approach. In addition to the development of green energy, energy storage, and green power trading, we have also invested in biomass energy power plants to generate electricity with agricultural surplus resources while performing carbon capture, refining and reuse. To reduce the carbon emissions of transportation, we have developed electric bicycles. We produce 100% recycled plastic bags to reduce plastic garbage with the aim of creating a low-carbon sustainable homeland.



J&V Energy's Service Items					
Industry	Green energy and environmental protection category				
Main scope of business the organization	PV, wind power, energy storage systems, green power trading, water treatment, and biomass energy				
Sales unit	Product or service item	Sales area	Customer type	Sales volume	Unit of sales volume
Green Energy Business Department	Green power supply and power sales	Taiwan	Finance, semiconductor, electronics, textile, chemical engineering, and other industries	41,236,148	kWh
Business Strategy Department	Invest in the installation of PV systems	Taiwan and Southeast Asia	Listed companies, SMEs, schools, and governmental agencies	600	MW
	Invest in the installation of energy storage systems	Taiwan	Listed companies, SMEs, and governmental agencies	237.5	MW

Business Development Strategies

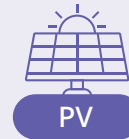
Achieving net-zero carbon emissions has become a sustainable development target for more than 130 countries and major enterprises around the world. With the three major dimensions of ESG (environmental, social, and governance) as the focus of development, governments, enterprises, and startups in various countries have successively launched ESG development policies and actively invested in R&D to reduce carbon emissions to achieve the sustainability targets set by the enterprises.

In view of the huge global demand for net-zero emissions and sustainable energy in the following decade, in addition to the continuous development of green energy, energy storage, and green power trading, J&V Energy will also make deployment in the field of circular economy. At the same time, we will unleash the spirit of joining forces as the "Berkshire in the Green Power Sector" to strengthen the corporate ESG, increase the supply of green power in Taiwan, and take into account the sustainability of resources to create a low-carbon sustainable living environment.



Energy storage

As the amount of renewable energy installation increases, to reduce the impact of intermittent and uncertainties on power systems' stability, energy storage installation is crucial. Therefore, in addition to planning for the development projects of renewable energy, the Company will accelerate the development of energy storage project sites and actively participate in the tenders of Taipower and the establishment of energy storage systems by private enterprises. In addition, J&V Energy will also continue to promote small-scale energy storage systems, which can be applied to convenience stores, commercial and office buildings, and residences in Taiwan in the future.



PV

Driven by the progressive improvement of laws and regulations, the Company expects to invest in the development of more large-scale solar power projects, including large-scale fishery and electricity symbiosis fields, and assist in the introduction of smart aquaculture to help upgrade the fishery and create a win-win situation.



Offshore wind power

With the development right for phase 1 in stage 3 regional development awarded to the Taiwan Team, we will duplicate its experience and invest in the development of other excellent wind farms in the Asia Pacific to improve Taiwan's visibility in the international market.



Green power trading

The Company is optimistic about the demand for green power purchases. Based on the power plants owned and developed by J&V Energy, adopting solar power and other diverse renewable energy as the course of green power sales will create more gains for J&V Energy.



Water treatment

The Company is optimistic about the huge demand for carbon neutrality and sustainable energy in the world and energy transformation in Taiwan in the following decade. We are committed to strengthening the development of corporate ESG, developing new forms of renewable energy power generation, increasing the supply of green power in Taiwan, and taking into account the sustainability of resources. Subsidiary Weisheng Envirotech will continue to participate in the tendering of projects. We combined the advantages of J&V Energy in integrated resources and the professional technology of Weisheng Envirotech to achieve the target of a circular economy.

Participation in Public Associations

J&V Energy actively joins green energy-related associations and organizations, exchanges and learns with peers, and is committed to exerting its influence in the industry to create the future of green energy with related industries and move toward a sustainable green enterprise.

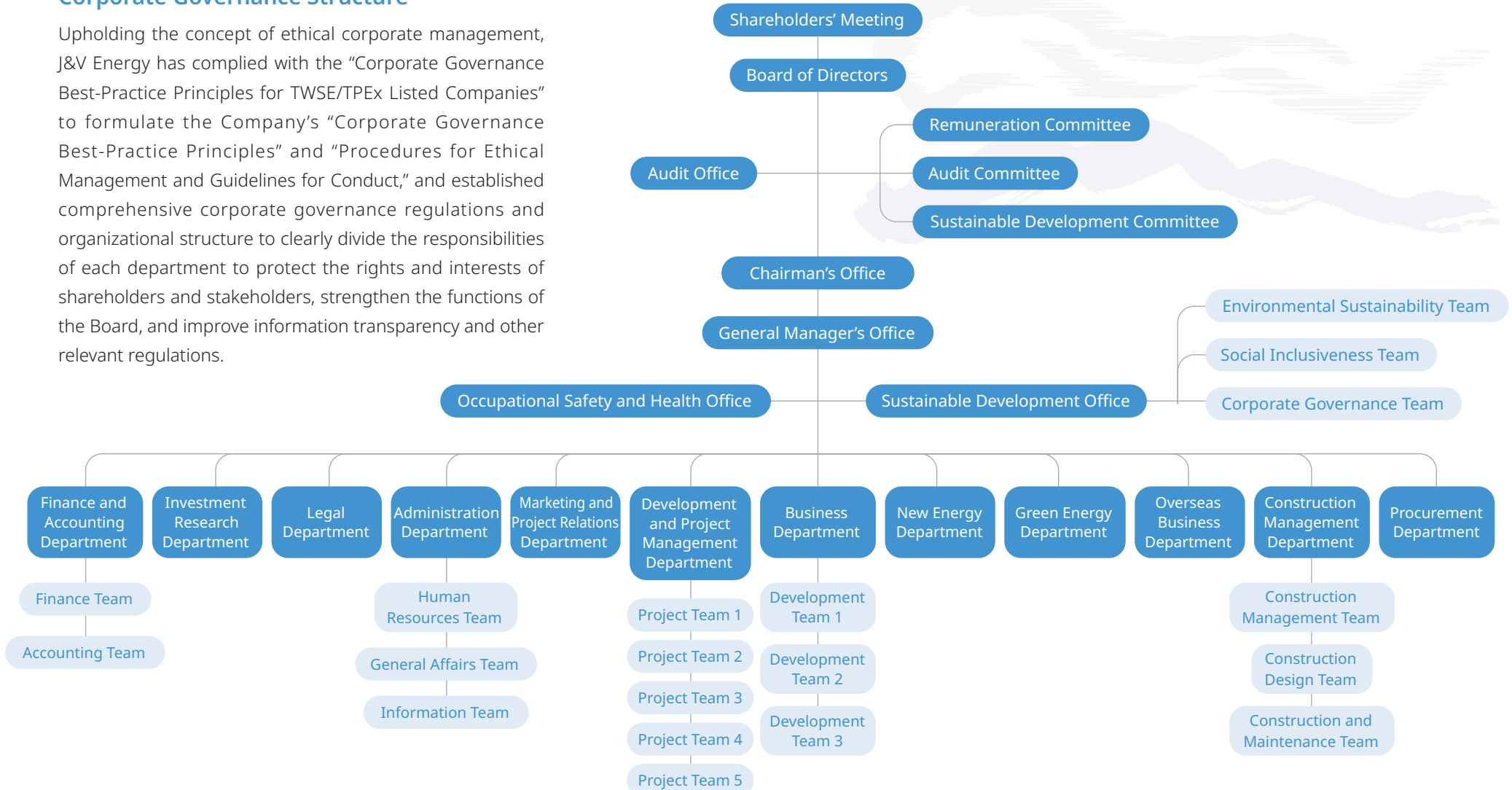
Industry associations, other member associations, and national or international advocacy organizations	Membership qualifications
Taiwan Photovoltaic Industry Sustainable Development Association	Director
Outstanding Enterprise Manager Association	Honorary Steering Committee Member
SEMI	Member of the SEMI PV Public Advocacy Committee
Keelung Port Friends of the Republic of China Police Association	Member
Taiwan Wind Energy Association	Member
Taiwan Photovoltaic Industry Association	Member
Taiwan Renewable Energy Alliance	Member
Solar PV Generation System Association of R.O.C (PVGSA)	Member
Taiwan Hydrogen and Fuel Cell Partnership	Member

3.2 Corporate Governance

Corporate Governance Structure

Upholding the concept of ethical corporate management, J&V Energy has complied with the "Corporate Governance Best-Practice Principles for TWSE/TPEX Listed Companies" to formulate the Company's "Corporate Governance Best-Practice Principles" and "Procedures for Ethical Management and Guidelines for Conduct," and established comprehensive corporate governance regulations and organizational structure to clearly divide the responsibilities of each department to protect the rights and interests of shareholders and stakeholders, strengthen the functions of the Board, and improve information transparency and other relevant regulations.

Organizational Chart



Departments	Business Activities
Audit Office	<ul style="list-style-type: none"> Create and manage the internal audit system of the Company. Audit of various systems, regulations, and procedures. Submit audit reports and track the improvement effectiveness.
General Manager Office	<ul style="list-style-type: none"> Business planning and management. Management of all departments in the Company. Creation of the operating performance and analysis of management. Plans on annual goals. Relationship maintenance between the Company and the shareholders. Implementation of corporate governance.
Sustainable Development Office	<ul style="list-style-type: none"> Formulate the annual sustainable development plan and strategies. Implement the annual sustainable development plan, projects and activities. Prepare the Sustainability Report. Implement GHG carbon inventory operations. Implement international standards certification operation. Plan for climate risk management. Report on sustainability-related awards.
Occupational Safety and Health Office	<ul style="list-style-type: none"> Planning, formulation, and promotion of safety and health management matters, and supervision of relevant departments to ensure implementation. Planning and implementation of safety and health education and training. Statistical compilation, reporting, notification, and investigation analysis of occupational accidents.
Finance	<ul style="list-style-type: none"> Coordinate accounting and financial processing. Plan and execute financial management and fund allocation for the Company. Control budget and prepare and analyze management reports. Prepare financial statements and establish analytical data for management reports. Plan and execute tax planning for the Company and comply with relevant tax laws and regulations. Handle matters related to the board of directors, shareholders' meetings, and share affairs.
Investment Research	<ul style="list-style-type: none"> Conduct study, analysis and evaluation on industries such as renewable energy and circular economy, etc. Planning and execution various investment projects. Post-investment management.
Legal	<ul style="list-style-type: none"> Review and management of internal and external contracts of the Company. Legal consultation and related matters. Compliance with company regulations. Research and collection of related laws and regulations in the green energy industry.

Departments	Business Activities
Administration	<ul style="list-style-type: none"> HR: human resources planning, recruitment management, salary management, performance management, education and training, employee relations, and related matters. General Affairs: general affairs, procurement, environmental and facility management, asset management, and related matters. IT: maintenance and management of the hardware and software of the information systems.
Development and Project Management	<ul style="list-style-type: none"> Planning, and execution of solar energy project permits and approvals. Evaluation, planning, and execution of solar energy project bidding. Management of renewable energy business.
Marketing & Public Relations	<ul style="list-style-type: none"> Plan and execute the Company's marketing strategy and activities. Management and maintenance of media relations and publicity.
Business Development	<ul style="list-style-type: none"> Development of solar photovoltaic business. Evaluation, planning, and execution of solar energy projects and land development.
New Energy	<ul style="list-style-type: none"> Development, assessment, and management of offshore and onshore wind power projects. Development of other renewable energy sources (hydrogen, geothermal, carbon capture, biomass, etc.).
Green Energy	<ul style="list-style-type: none"> Planning and execution of green energy supply. Development and promotion of green energy sales business. Project management of green energy trading. Promotion of carbon credit business.
Overseas Business	<ul style="list-style-type: none"> Business development in overseas renewable energy markets. Assessment, planning, and execution of overseas projects. Execution and monitoring of overseas projects.
Construction Management	<ul style="list-style-type: none"> Design and planning of renewable energy projects. Various engineering contracts and related businesses. Management of construction quality and progress. Power plant monitoring and maintenance management. Collection of new knowledge and trend development in renewable energy.
Procurement	<ul style="list-style-type: none"> Supplier development, screening, and regular evaluation Inquiry, negotiation, and contract management. Delivery schedule arrangement, management, and invoicing procedure.

Diverse Composition and Operation of the Board

The Board is the highest governance unit of J&V Energy, which is responsible for making decisions for the Company's overall operations and supervising and managing the Company's senior management. To strengthen the effectiveness of the Board of Directors and improve corporate governance, the Board has established the Audit Committee, Remuneration Committee, and Sustainable Development Committee, responsible for the material proposals and the discussions of material issues with respect to sustainable development and assisting the Board in performing its supervisory function, benefiting the implementation and operation of Board meetings. The Audit Office has also been established as an independent unit under the Board to report at Board meetings on a regular basis, as well as report proposals to the Board, Audit Committee, and Operation Committee regularly, if necessary.

The nomination and selection of members of the Company's Board members complies with the provisions of the Company's Articles of Incorporation. The candidate nomination system is adopted for the election of Directors, who are elected by the shareholders' meeting. In December 2021, the extraordinary shareholders' meeting elected the members of the 6th session of the Board according to the "Regulations for Board Election." At present, the Board consists of three Directors and four Independent Directors, each with a term of office of three years. The Board meeting is convened at least once a quarter.

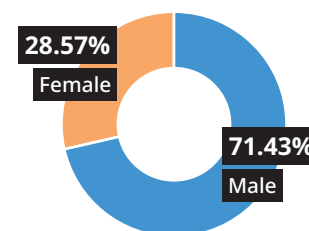
The Company's Board values diversification and professionalism and takes into consideration operational judgment, accounting and financial analysis, business management, crisis management, industry knowledge, international market perspectives, leadership, and decision-making capabilities in the execution of the business. Members of the Board are outstanding personnel with extensive, professional, and practical experience, complying with the overall abilities, backgrounds, and expertise that the Board shall be equipped with. Implementing the Board member diversification policy is beneficial for improving the efficacy of corporate governance and economic performance.

For information on the Board members' education backgrounds/work experience and the number of concurrent positions serving as independent directors of other public companies, please refer to pages 14 to 18 of the of ["J&V Energy 2023 Annual Report for the Shareholders' Meeting."](#)

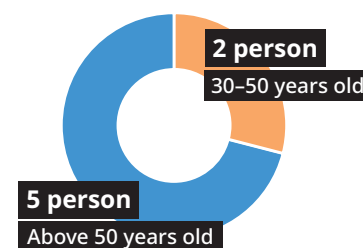
Board Members and Relevant Professional Backgrounds

Title	Name	Gender	Age	Date initially (elected) taken office	Industry experience			Professional competence		
					Business management and operational judgment	Industry knowledge	International market perspective	Accounting and financial analysis	Crisis management	Leadership and decision-making
Chairman	Liao, Fu-Sen	Male	Above 50 years old	2022-11-01	✓	✓	✓		✓	✓
Director	Collins Co., Ltd. Representative: Lee, Chung-Liang	Male	Above 50 years old	2021-12-15	✓		✓		✓	✓
Director	Asia Energy Development Co., Ltd. Representative: Chao, Shu-Min	Female	30-50 years old	2023-12-27	✓	✓	✓	✓	✓	✓
Independent Director	Tang, Chia-Liang	Male	30-50 years old	2022-11-01	✓		✓	✓	✓	✓
Independent Director	Wu, Ching-Sung	Male	Above 50 years old	2021-12-15	✓		✓	✓	✓	✓
Independent Director	Kuo, Hui-Lan	Female	Above 50 years old	2021-12-15	✓		✓			✓
Independent Director	Chen, Chi-Chang	Male	Above 50 years old	2023-12-27	✓		✓			✓

Gender distribution of Board members



Age Distribution of Board Members



Operation of the Board

In 2023, J&V Energy's Board held a total of **eight meetings**, and the average attendance rate of all Directors reached **96%**. The attendance of each Director is as follows:



Title	Name	Attendance (presence) in person	Attendance by proxy	Attendance (presence) rate (%)	Remarks
Chairman	Liao, Fu-Sen	7	1	87.5	Chairman newly appointed on August 30, 2023
Director	Collins Co., Ltd. Representative: Lee, Chung-Liang	8	-	100	-
Director	Asia Energy Development Co., Ltd. Representative: Chao, Shu-Min	-	-	-	Newly appointed on December 27, 2023
Independent Director	Tang, Chia-Liang	8	-	100	-
Independent Director	Wu, Ching-Sung	8	-	100	-
Independent Director	Kuo, Hui-Lan	7	1	87.5	-
Independent Director	Chen, Chi-Chang	-	-	-	Newly appointed on December 27, 2023

Directors' Independence and Recusal for the Conflicts of Interests

The Company sets out the system for the system of Directors' recusal for conflicts of interest in the Rules of Procedure for Board Meetings, Ethical Corporate Management Best-Practice Principles, Procedures for Ethical Management and Guidelines for Conduct, and other regulations to strengthen regulations and avoid Directors from engaging in unethical behaviors. If a Director or the corporation he/she represents has interests in a proposal at the meeting, he/she shall describe the material content of such interests at the Board meeting. If it is likely to harm the Company's interest, he/she shall recuse himself/herself from discussions and voting and shall not represent another Director to exercise voting rights. If a Director violates the matter of recusal and joins voting, his/her voting rights are invalid. If a Director's spouse, relative within the second degree of kinship, or a company that has a controlling affiliation with the Director has an interest in a proposal at the meeting, the Director is deemed to have an interest in the proposal.

The Board currently has a total of seven Directors, of which four are Independent Directors, accounting for 57% of all Directors. None of the Directors are spouses or relatives within the second degree of kinship, and more than half of the Directors are not concurrently employees or managers. In addition, all external Directors have fulfilled the requirements of independence, complying with the Financial Supervisory Commission's regulations on Independent Directors, and they do not have the conditions specified in paragraph 3 and paragraph 4, Article 26-3 of the Securities and Exchange Act so as to ensure that Independent Directors can duly fulfill their duties and effectively improve the Board's operation and the Company's business performance.

Board Communication and Resolution

In principle, the Company's Board meeting is convened quarterly. In 2023, a total of eight Board meetings were held, and the average attendance rate of Directors reached 96%. The management department presents at Board meetings for inquiries subject to the content of proposals to allow the Board and the management department to have sufficient time for communication.



In 2023, the Board discussed and resolved a total of **56 proposals**, in which **17 proposals** involved policy, economic, environmental, and social issues. The Board authorized the senior management to handle economic, environmental, and social issues arising from operating activities, and the handling status shall be reported to the Board when necessary. The Company communicates with Directors via phone call or in person for material proposals of the Company in advance and arranges Director visits to the management department for detailed description when necessary. Directors have sufficient mutual communication and have an in-depth understanding of the content of proposals.

Key material events for the Board and internal communication in 2023				
	Total number of material events	Material events	Communication method and frequency	Communication achievements
Environmental aspect	2	<ul style="list-style-type: none"> Proposal for the investment in the equity of Greenhealth Water Resources Co., Ltd. Proposal for GHG inventory expected at the beginning of 2024 	Board discussion from time to time	Approved by all attending Directors
Economic/governance aspect	13	<ul style="list-style-type: none"> Business report and financial statements Proposal for the year-end bonus distribution and annual salary adjustment of managers Approved the proposal for the "Statement of the Internal Control System" Report on the implementation of ethical corporate management Report on the purchase of liability insurance for Directors and managers Performance evaluation of the Board and functional committee members Report on the proposal of the audit plan 	Report at the Board meeting once a year	Approved by all attending Directors
		<ul style="list-style-type: none"> Proposal for the amendments to the Company's "Corporate Governance Best-Practice Principles" and "Sustainable Development Best-Practice Principles" Establishment and amendment to the Company's internal control system and various management regulations Establishment of the Sustainable Development Committee Proposal for the by-election of the Remuneration Committee members and compensation Proposal for the by-election of Director (including Independent Directors) Proposal for the nomination and review of Director and Independent Director candidates 	Report at the Board meeting from time to time	
Social aspect	2	<ul style="list-style-type: none"> Proposal for the annual employee remuneration and Director remuneration distribution 	Report at the Board meeting once a year	Approved by all attending Directors
		<ul style="list-style-type: none"> Proposal for the capital increase in cash of the Company via the issuance of new shares for allocation to managers and employees for subscription 	Board discussion from time to time	

Diverse Continuing Education for the Board

To respond to the trend of sustainable development, we provide Board members with diversified continuing education courses from time to time to strengthen corporate governance and the professional functions of Board members. In 2023, the total hours of Board members participating in continuing education were **33 hours**.

Directors' Participation in Continuing Education in 2023						
Title	Name	Training date	Organizer	Course title	Training hours	Total hours
Chairman	Liao, Fu-Sen	2023-11-22	Securities and Futures Institute	Briefing Session on Legal Compliance for Insider Equity Transactions	3	3
Director	Lee, Chung-Liang	2023-03-27	Chinese National Association of Industry and Commerce	Corporate Resilience and Taiwan's Competitiveness	3	6
Director	Lee, Chung-Liang	2023-09-04	Financial Supervisory Commission	The 14th Taipei Corporate Governance Forum	3	
Director	Chao, Shu-Min	2023-12-08	Securities and Futures Institute	Briefing Session on Legal Compliance for Insider Equity Transactions	3	3
Independent Director	Tang, Chia-Liang	2023-08-10	CPA Associations R.O.C. (Taiwan)	Investment Grade Sustainability Report	3	6
Independent Director	Tang, Chia-Liang	2023-11-09	CPA Associations R.O.C. (Taiwan)	Money Laundering and Insider Trading Case Analysis	3	
Independent Director	Kuo, Hui-Lan	2023-12-26	Accounting Research and Development Foundation	Latest Policy Development and Internal Management Practices Related to "ESG and Sustainability" and "Self-preparation of Financial Statements"	6	6
Independent Director	Wu, Ching-Sung	2023-11-15	Securities and Futures Institute	Carbon Rights Trading Mechanism and Carbon Management and Application	3	3
Independent Director	Chen, Chi-Chang	2023-11-18	Accounting Research and Development Foundation	Latest Update of International Sustainability Disclosure Standards	3	6
Independent Director	Chen, Chi-Chang	2023-11-15	Securities and Futures Institute	Briefing Session on Legal Compliance for Insider Equity Transactions	3	

Board Performance Evaluation

To promote corporate governance and improve the functions of the Company's Board, performance targets have been set to enhance its operational efficiency. Consistent with the Corporate Governance Best-Practice Principles for TWSE/TPEX Listed Companies, the Board has endorsed the establishment of the "Regulations for Performance Evaluation of the Board and Functional Committees" on October 28, 2021, which specifies that the Board and functional committees shall conduct internal performance evaluations at least once a year.

The performance evaluation of the Board is based on the evaluation cycle and period, evaluation scope, evaluation method and evaluation procedure as follows. As for the evaluation indicators and selection criteria: 5 points for strongly agree, 4 points for agree, 3 points for general, 2 points for disagree, 2 points, and 1 point for strongly disagree.

Board Performance Evaluation Procedure

I.	Determine the units, period, and scope (the overall Board, individual Directors, and functional committees) to be assessed in the current year.
II.	Establishment of the evaluation methods (internal self-evaluation of the Board, self-evaluation of Board members (self-evaluation or peer evaluation), commissioning external professional institutions, or expert evaluation).
III.	Select an appropriate evaluation implementation unit.
IV.	Each implementation unit collects information related to Board activities and distributes Form 1 "Self-Evaluation Questionnaire for Board Performance Evaluation," Form 2 "Self-Evaluation Questionnaire for Directors' Performance Evaluation," or Form 3 "Self-Evaluation Questionnaire for Functional Committees," and other related self-evaluation questionnaires. Ultimately, the secretariat of the coordinating unit shall collect the data centrally, record the evaluation result report according to the evaluation criteria in Article 8, and submit the report to the Board for examination and improvement.
V.	Frequency: Once a year.

Board performance evaluation indicator and selection criteria for 2023

	Board Performance Evaluation	Self-performance evaluation of Board members	Functional committee performance evaluation
Assessment aspects	<ul style="list-style-type: none"> Level of participation in the Company's operations Improving the quality of the Board's decision-making Composition and structure of the Board Election and continuing education of Directors Internal control 	<ul style="list-style-type: none"> Understanding of the Company's goals and tasks Awareness of the duties of Directors Level of participation in the Company's operations Internal relationship management and communication Professional and continuing education of Directors Internal control 	<ul style="list-style-type: none"> Level of participation in the Company's operations Awareness of the duties of the functional committee Improving the quality of functional committees' decision-making Composition of the functional committees and selection of members Internal control
Evaluation indicator items	45 items	23 items	24 items
Scoring result	4.42 points	4.69 points	4.56 points (Audit/Remuneration Committee)

In 2023, the performance evaluation results for the Board and functional committees ranged from "Strongly Agree" (5 points) to "Agree" (4 points). The Directors strongly agreed with the operation of various evaluation indicators, and the overall operation of the Board and functional committees is favorable as evaluated, complying with corporate governance requirements, which effectively strengthens the functions of the Board and protects shareholders' rights and interests.

Internal Audit System

According to the law, J&V Energy has established an "Audit Office" as an independent unit that is directly reporting to the Board. In addition to reporting at the regular meetings of the Board, it shall report to the Chairman, Audit Committee quarterly or when necessary. The internal audit regulations specify that the internal audit shall review the internal control of the Company's operating procedures and report whether the design and actual daily operation of such control are appropriate with achievements and efficiency; the review scope covers all units, operations, and subsidiaries of the Company.

The Company's audit work is mainly carried out in accordance with the audit plan approved by the Board. The audit plan is formulated based on the identified risks, and project audit or review is otherwise implemented subject to the requirements. By integrating the execution of the general audits and projects mentioned above, internal audit provides the management with objective confirmation and insights into the operation of the internal control system and another channel for the management to understand existing or potential control weaknesses for them to respond in a timely manner.

Internal audits review the self-inspections performed by each unit and all subsidiaries of the Company, including checking whether the inspections have been implemented and reviewing the documents to ensure the quality of implementation; it compiles the self-inspection results and reports them to the Audit Committee and the Board.

Whistleblowing Channel

The Company has a whistleblowing system in place. The audit unit is the responsible unit, and it is obliged to keep the whistleblowing confidential to the whistleblowers, treat all reported cases as confidential cases, and take appropriate protective measures to ensure the privacy of whistleblowers.

Whistleblowing Channel	
Acceptance unit	Audit Office
Communication address	4F-1, No. 1, Jihu Road, Neihu District, Taipei City
Whistleblowing hotline	(02)2657-0355 #2315
E-mail	ia@jv-holding.com

Functional Committees

To continuously improve the corporate governance management structure, improve operating performance, fulfill corporate social responsibility, allow the Board to implement supervision, audit, and management functions, and build a comprehensive corporate governance structure, J&V Energy established two functional committees according to the law, including the "Audit Committee" and the "Remuneration Committee," to improve the quality and efficacy of decision-making, optimize functions of the Board, protect the rights and interests of stakeholders, and disclose corporate information via a fair and transparent approach. To improve the supervisory function and strengthen the management function, we have also formulated the "Rules of Procedure for Board Meetings" and promulgated the "Code of Ethical Conduct" to more effectively establish the governance system of the Board and improve the supervisory function.

	Audit Committee	Remuneration Committee
Functional Committees	<p>In 2021, J&V Energy established its Audit Committee, consisting of all Independent Directors. Independent Director Wu, Ching-Sung was appointed as the convener. The Audit Committee is responsible for assisting the Board in evaluating the independence of the appointed CPAs and supervising the quality of financial statements and the compliance of the Company's internal control with laws and regulations by adopting the "Audit Committee Charter" established by the Company as the basis for Independent Directors to exercise their powers.</p> <p>The Audit Committee shall perform the following duties and submit recommendations to the Board for discussion.</p>	<p>To improve the remuneration management system for the Company's Directors and managers and protect the rights and interests of investors, the Board approved the establishment of the "Remuneration Committee Charter" in October 2021 in accordance with the provisions of the "Regulations Governing the Appointment and Exercise of Powers by the Remuneration Committee" and established the Remuneration Committee, composing of all Independent Directors. Independent Director Chen, Chi-Chang is appointed as the convener. The Committee is responsible for examining and evaluating the policies, systems, standards, and structures for the performance evaluation and remuneration of the Company's Directors and managers, as well as the remuneration they received, and submitting their recommendations to the Board for discussion.</p>
Meeting frequency	Quarterly	At least twice a year
Number of meetings held in 2023	A total of seven meetings were held, and the average total attendance rate of independent directors was 97%	A total of two meetings were held, and the average total attendance rate of the committee members was 83%
Operation of the Committees	For the fulfillment of powers and the operation of the Audit Committee, please refer to the "J&V Energy's Official Website – Committees."	For the operation of the Remuneration Committee, please refer to "J&V Energy's Official Website – Committees."

Remuneration Policy of the Board

Director's Remuneration	According to the "Regulations for the Remuneration of Directors and Managers," the Remuneration Committee shall determine a fixed compensation that is paid to Independent Directors for executing duties with reference to the general standards within the industry. The Company regularly evaluates the compensation of Directors according to the "Regulations for Performance Evaluation of the Board and Functional Committees," and the reasonableness of relevant evaluation and remuneration is reviewed by the Remuneration Committee and the Board. The remuneration policy for Directors is subject to the Articles of Incorporation of the Company. If there is a profit of the year, the Board shall resolve to appropriate less than 3% as the remuneration of Directors.
Compensation of Managers	The "Regulations for the Remuneration of Directors and Managers" specifies various bonuses and allowances to appreciate and reward employees' efforts and contributions to work. Relevant bonuses are approved based on the Company's annual business performance, financial position, operating status, and individual work performance. If the Company has a profit of the year, it shall appropriate no less than 1% as the remuneration of employees according to the Articles of Incorporation. The results of the performance evaluation carried out by the Company in accordance with the performance management regulations are used as the reference for the distribution of bonuses to managers. The remuneration system is also reviewed in a timely manner in accordance with the actual operating status and applicable laws and regulations.

According to the Remuneration Committee Charter, the compensation package paid by the Company includes cash compensation, options, share bonuses, retirement welfare or resignation payments, allowances, and other measures with specific rewards. The scope is consistent with the compensation of Directors and managers stated in the Regulations Governing Information to be Published in Annual Reports of Public Companies.

The reasonableness of relevant performance evaluation and remuneration of Directors and managers are regularly evaluated and reviewed by the Remuneration Committee and the Board on a yearly basis. Apart from referring to individual performance achievement rates and the level of contribution to the Company, we also evaluate corporate governance, environmental, social, talent, safety, quality, and other aspects, including the overall operating performance, future risks of the industry, and development trends, and examine the remuneration system in a timely manner based on the actual operating status and relevant laws and regulations. In addition, we comprehensively consider the current trend of corporate governance before granting reasonable compensation to seek the balance between sustainable corporate operations and risk control.

Corporate Governance Officer

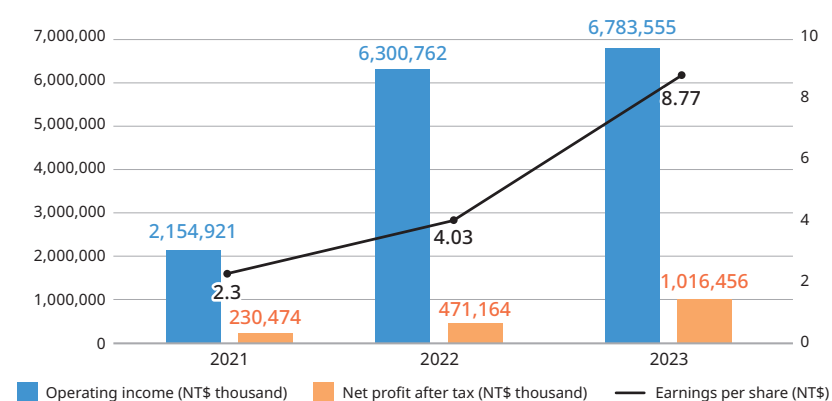
To ensure the completeness of corporate governance, the Board resolved to establish a Corporate Governance Officer according to "Corporate Governance Best-Practice Principles for TWSE/TPEX Listed Companies" and appointed the Senior Manager of the Finance and Accounting Department as the highest supervisor for corporate governance-related affairs; the Corporate Governance Officer possesses the CPA qualification. The main responsibilities include supervising and planning corporate governance affairs, handling matters related to Board meetings and shareholders' meetings according to laws, preparing the minutes of Board meetings and shareholders' meetings, assisting Directors in taking office and continuing education, providing Directors with the information required to perform their duties, and assisting Directors in complying with laws and regulations. For the continuing education of the Corporate Governance Officer in 2023, please refer to ["J&V Energy's Official Website – Corporate Governance."](#)

3.3 Operational Performance

The revenue of J&V Energy's parent company for 2023 accounted for 75.22% of the consolidated financial statement revenue, J&V Energy did not receive relevant subsidies from government units during the reporting period. Various financial information of the Company in the most recent three years.

Item/year	2021	2022	2023
Operating income (NT\$ thousand)	2,154,921	6,300,762	6,783,555
Operating cost (NT\$ thousand)	1,616,579	4,760,553	5,464,395
Gross profit (NT\$ thousand)	482,680	1,306,509	1,272,300
Profit or loss (NT\$ thousand)	234,174	876,071	831,800
Non-operating income and expense (NT\$ thousand)	14,580	(219,273)	383,686
Profit before tax (NT\$ thousand)	248,754	656,798	1,215,486
Net profit after tax for the period (NT\$ thousand)	230,474	471,164	1,016,456
Total comprehensive income for the period (NT\$ thousand)	230,474	471,164	1,016,456
Earnings per share (NT\$)	2.3	4.03	8.77
Employee welfare amount (NT\$ thousand)	1,356	4,117	5,788
Dividends (NT\$ thousand)	22,542	232,418	709,497
Employee salaries (including employee welfare) (NT\$ thousand)	164,232	266,921	355,831
Retained economic value (NT\$ thousand)	273,372	847,902	236,196
Payments to investors (NT\$ thousand)	24,308	59,333	297,872
Payments to the government (NT\$ thousand)	19,306	132,103	372,151
Community investment (NT\$ thousand)	1,462	250	10,250

Set A New Record for Operating Performance for Three Consecutive Years



- Remarks:
- Payments to investors refer to dividends paid to all shareholders, plus interest paid to lenders (including interest on any form of debts and loans) and unpaid dividends payable to preferential shareholders.
 - Payments to the government refer to all taxes (including business tax, income tax, and property tax) and penalties.
 - Employee welfare in "employee salaries (including employee welfare)" includes labor and health insurance expenses/pension expenses, the total amount of welfare provided to employees in cash (excluding education and training, cost of protective equipment, or other cost items directly related to the work duties of employees). The "employee welfare amount" refers to the welfare expenses that the Company appropriated to the Employee Welfare Committee for employees (i.e. company trips, health inspections, and gift boxes for the three major festivals), which is the total welfare expenses provided to employees in a non-cash manner.
 - Community investment refers to donations and donations.
 - The currency is NTD.
 - Retained economic value: "Direct economic value generated" – "economic value distributed"
- *Direct economic value generated: Income
- *Economic value distributed: Operating costs, employee salaries and welfare, payments to lenders, payments to governments by country, and community investments

Investees

Regarding the investment policy of J&V Energy, it established the “Procedures for the Acquisition or Disposal of Assets” by considering the sustainable operations and business growth in accordance with the “Regulations Governing the Acquisition and Disposal of Assets by Public Companies” established by the competent authority to serve as the basis for investees of the Company, beneficial for grasping relevant business and financial status. In addition, to improve the supervision and management of investees, the Company has stipulated the supervisory regulations for subsidiaries in its internal control system and has relevant specifications in place for their information disclosure, finance, business, inventory, and financial management, allowing the Company’s investees to exert their maximum effects.

Main scope of business: Renewable energy sales	Name of investee	Shareholding ratio (%)
	GREENET CO., LTD.	100
Main scope of business: Energy technology services	Name of investee	Shareholding ratio (%)
	Skynergy Co., Ltd.	100
	Phanta Energy Inc.	76.47
	Revo Power CO., LTD.	50
	FU BAO YI HAO ENERGY CO., LTD.	20.63
Main scope of business: Power generation services	Name of investee	Shareholding ratio (%)
	JIN CHENG ENERGY CO., LTD.	100
	CHEN YU ENERGY CO., LTD.	100
	FU DI ENERGY CO., LTD.	100
	KUANG TING ENERGY CO., LTD.	100
	XU XIAO POWER CO., LTD.	100
	YUN YI ENERGY CO., LTD.	100
	J&M Power Development Co., Ltd.	100
	Xiang Guang Energy Co., Ltd.	100
	Guang Liang Energy Co., Ltd.	100
	Zhu Ri Energy Co., Ltd.	100
	Chuang Jie Energy Co., Ltd.	100
	Rui Neng Energy Co., Ltd.	100
	Zhongneng Energy Co., Ltd.	100
	Yong Ze Energy Co., Ltd.	100
	Guang Hui Energy Co., Ltd.	100
	Jin Jie Energy Co., Ltd.	100
	Jin Hong Energy Co., Ltd.	100
	Diwei Power Co., Ltd.	100
	Rui Guang Smart Energy Co., Ltd.	50
	Liangwei Power Co., Ltd.	49

Main scope of business: AFC aided services	Name of investee	Shareholding ratio (%)
	Storm Power Co., Ltd.	100
	TPE ENERGY INC.	78.58
Main scope of business: Biomass energy development and energy technology services	Name of investee	Shareholding ratio (%)
	Formosa Biomass Co., Ltd.	83.33
Main scope of business: Environmental protection engineering	Name of investee	Shareholding ratio (%)
	WEISHENG ENVIROTECH CO., LTD	61.12
	Greenhealth Water Resources Co., Ltd.	20
Main scope of business: Manage a professional basketball team and sell peripherals	Name of investee	Shareholding ratio (%)
	Winball Sport Culture and Education Co., Ltd.	20.45

Tax Governance Principle

The tax planning, management, and execution of J&V Energy’s taxes are handled by the Financial and Accounting Department, the responsible unit. The Company implements the tax governance policy and strictly complies with relevant tax laws, including securities transaction tax, futures transaction tax, and business tax.

Tax Policy of J&V Energy	
Legal Compliance Principle	Comply with tax laws, regulations and legislative spirits, correctly declare and pay taxes, and prepare supporting documents
Comprehensive Decision-making Principle	Pay attention to the changes in local and international tax laws, comprehensively assess their impacts, and formulate response strategies.
Information Transparency Principle	Regularly disclose tax information through public channels (i.e. financial statements and annual reports) to ensure information transparency
Active Communication Principle	Maintain open and honest communication with tax collection authorities and assist in improving the tax environment and system
Reasonable Tax Saving Principle	Use legal and transparent tax incentives and ban methods that violate the spirit of the law to save tax
Reasonable Structure Principle	The corporate structure and transaction arrangements are in line with the economic substance, and no special arrangements are used for tax avoidance
Risk Control Principle	Assess the relevant risks and adopt appropriate strategies when making and implementing tax decisions
Commercial Substance Principle	Related party transactions are in line with economic substance, and decision-makers accept risks and receive reasonable compensation
Arm’s Length Principle	The pricing and conditions of related party transactions shall be similar to those of non-related parties in similar transactions

3.4 Risk Management

Risk Management Policies and Procedures

The Company pays attention to risk management in all aspects of operation, focuses on the development of the green energy industry, and attaches great importance to compliance with relevant regulations. To strengthen corporate governance and achieve sustainable corporate operation and development, the Board approved and established the “risk management policy” on December 27, 2022 to achieve stable and sustainable corporate operation.

Risk Management Organizational Structure

Board of Directors

The Company complies with laws and regulations, aims to implement the Company's overall risk management, has a clear understanding of the risks faced by the Company's operations, and ensures the effectiveness of risk management.

Audit Office

1. Assist the Board and managers in reviewing the deficiencies of the internal control system, measuring the effect and efficiency of operations, and proposing improvement recommendations in a timely manner.
2. Regularly evaluate whether departments have implemented relevant risk management operations to ensure the systems comply with the requirements.

General Manager's Office

Risk assessment for the Company's operational decision-making and implementation of countermeasures.

Risk Identification

Determine major operating risks every year to plan for response plans.

Risk assessment

The departments shall carry out risk assessments for relevant operations.

Risk response

Continuously examine the effectiveness of the internal control system and the design and implementation of operating regulations.
Formulate the relevant operating regulations for the risks identified and risk assessment.

Improvement and examination

Regularly examine the effectiveness of the design and implementation of operating regulations.

Regarding the Company's risk management organization, the Board is the highest risk management unit of the Company. Legal compliance and the implementation of the overall risk management of the Company are the targets to effectively understand risks faced by the operations and ensure the effectiveness of risk management.

Supervisors of different departments jointly promote risk management plans and implementation; the main duties are as follows:

- I. Formulate the risk management policy and relevant regulations and submit them to the Board.
- II. Establish the Company's risk management operation mechanism, examine its implementation performance, and make corresponding improvements.
- III. Assist and monitor each unit in risk management operations and the effective implementation of internal control procedures.

Risk Management Regulations of J&V Energy		
Risk type	Responsible unit	Risk control approach
Operating risk	Business Development Dept.	<ol style="list-style-type: none"> 1. Increase market share. 2. Increase brand exposure. 3. Pay attention to international trends, continue to analyze energy policies, and optimize and improve.
Market risk	Procurement Dept. Investment Research Dept.	<ol style="list-style-type: none"> 1. Track the price fluctuations of raw materials, organize hedging plans, formulate procurement strategies, inquire about prices from multiple suppliers, and obtain optimal resources. 2. Monitor the fluctuation of the international renewable energy market, understand market demand, and conduct investment assessment and review.
Financial risk	Finance Dept.	<ol style="list-style-type: none"> 1. Assess financial and tax risks. 2. Assess the Company's legal risks and implement countermeasures.
Human resource risk	Administration Dept. (HR)	The Company implements labor management in accordance with the law and protects the legal rights of employees to reduce legal risks related to human resources. In addition, the Company continues to organize various education and training courses to fundamentally strengthen the integrity of employees and continue to improve legal compliance and professional skills.
Climate change risk	Marketing & Public Relations Dept.	<p>With reference to the TCFD framework, J&V Energy has included climate change risk issues into its risk management system step by step. Each unit evaluates the potential operational and financial impacts of "climate ecology" risks on the Company based on their business attributes and establishes relevant response strategies to enhance the organization's climate resilience.</p> <p>With reference to the TCFD framework and guidelines, J&V Energy divides climate change risks into transition risks and physical risks and separates them into the policies, regulations, technologies, market, and reputation of transition risks and the immediacy and chronicity of physical risks.</p> <p>Climate Change Risk Assessment of J&V Energy</p> <p>It is implemented at least once a year in principle, and it covers existing business locations and a partial supply chain.</p>
Climate change risk	Administration Dept. (IT)	<p>We have established a cybersecurity policy and regularly assess the implementation status and risks to strengthen cybersecurity management and ensure the confidentiality, completeness, and availability of information assets so as to provide an information environment for the business continuity of the Company and avoid internal/external intentional or accidental threats.</p> <p>The relevant risk management measures are as follows:</p> <ol style="list-style-type: none"> 1. Use Office 365 Defender 2 to filter malicious e-mail, spam, and phishing e-mails. 2. Enable MFA two-factor authentication to enhance account security and confirm the validity of identities. 3. Arrange information security education and training courses to raise employees' information security awareness. 4. Use SentinelOne, an anti-virus software, to filter and block malware. 5. Adopt the AI information security event analysis system to judge the network behaviors of the Company's internal employees through AI. 6. Use the Nessus system vulnerability scanning, system configuration audit, and asset compliance detection tools to scan the vulnerabilities of internal virtual servers to enhance server security. <p>In the most recent year and up to the publication date of the annual report, the Company's information security had no material adverse impact, and there is no significant operating risk.</p>

3.5 Ethical Corporate Management

Anti-corruption and Code of Conduct

The Board discussed and approved the “Ethical Corporate Management Best-Practice Principles” on January 12, 2023, and established the “Procedures for Ethical Management and Guidelines for Conduct.” The content specified covers anti-corruption and bribery, information confidentiality, handling conflicts of interest, and the whistleblowing system for violations. The Taipei Headquarters of the Company is the location to assess the risk of corruption, and management and employees both value ethical corporate management. The Company regularly analyzes and assesses the risk of unethical behaviors within the scope of its location, and there is a specific whistleblowing system established according to the regulations of the Company and a whistleblowing e-mail set up for employees and external stakeholders to report unethical behaviors so as to implement ethical corporate management and legal compliance.

J&V Energy engages in business activities based on the principles of fairness, honesty, trustworthiness

and transparency and adopts a zero-tolerance attitude toward corruption and bribery. To implement ethical corporate management and actively prevent illegal acts, the Company established its “Ethical Corporate Management Best-Practice Principles” and “Code of Ethical Conduct” according to the law to specify matters of notice for personnel of the Company when executing businesses. All employees shall exert the care of a good administrator, implement loyalty obligations, and comply with the Company’s ethical principles when executing businesses. All employees are also required to sign the statement for the code of conduct and ethical specifications to prevent the occurrence of unethical behaviors, realizing the principle of integrity and ethical corporate management.

To improve the implementation of the ethical corporate management system, the Audit Office has been designated as the dedicated unit responsible for promoting ethical corporate management, and the Audit Office is subordinated to the Board.

The Audit Office establishes the Ethical Corporate Management Best-Practice Principles and relevant rules of the Company according to the regulatory system, assists the Board and management in auditing and evaluating whether the preventive measures of the ethical corporate management policy are working effectively, regularly reports to the Board about relevant operations and supervising status once a year, and regularly carries out promotion of Ethical Corporate Management Best-Practice Principles and ethical behavior specifications on a yearly basis. There is a whistleblowing hotline in place, and the Company strictly protects whistleblowers. If the reported matter is verified after an investigation, punishments will be made according to the Company’s reward and punishment regulations. In 2023, the Company did not receive any whistleblowing notice, and no corruption incident occurred.

Compliance with Relevant Regulations

The criteria for determining major violations by J&V Energy are as follows:

- (I) Causing major damage to or influence on the Company
- (II) Work suspension, closing down, business suspension, and abolishment or cancellation of relevant licenses under the government's order

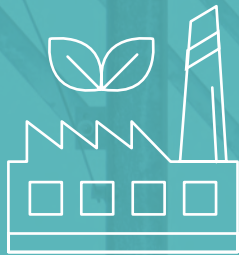
(III) The cumulative amount of fines for a single incident is NT\$1 million or above

In 2023, there were three incidents for which the Company was subject to administrative fines and one incident for which the Company was subject to a non-disciplinary fine.

Major violations and remedies				
Disposition type	Type	Disposition content	Description of regulation violation	Improvement measures
Event with a penalty imposed	Violated the regulations of the Ministry of Environment	Failure to declare the clearance volume and storage volume of waste in accordance with the regulations resulted in a fine of NT\$6,000.	Failure to declare raw material consumption volume, product output volume, waste generation volume, waste storage volume, and waste clearance volume according to subparagraph 2, paragraph 1, Article 31 of the Waste Disposal Act.	Participated in environmental lectures in accordance with Article 23 of the Environmental Education Act and truthfully reported in subsequent cycles.
	Violated regulations of the Ministry of Labor	A fine of NT\$30,000 was imposed.	Failure to comply with paragraph 1, Article 7 of the Regulations for the Implementation of Labor Operating Environment Monitoring: For an indoor venue in a building with central A/C, the CO ₂ content shall be monitored once or more every six months.	Commissioned external institutions for testing and implemented CO ₂ operating environment testing. Completed the improvement within one month after the defect was reported and notified and passed the inspection of the Labor Inspection Office, Taipei City.
	Violated the regulations of the Ministry of Environment	Failure to pay the air pollution control fee for construction projects resulted in a fine of NT\$100,000.	Failure to pay the air pollution prevention fees for construction projects according to paragraph 1, Article 5 of the Measures for Collecting Air Pollution Control Fees as specified in paragraph 2, Article 16 of the Air Pollution Control Act.	Had environmental lectures for two hours and truthfully reported in subsequent cycles.
Total	Number of incidents: 3; total fines: NT\$136,000.			
Event with non-disciplinary fine	Violated regulations of the Ministry of Labor	Implemented 1 hour of workplace illegal abuse education and training lecture.	Failure to comply with paragraph 1, Article 324-3 of the Occupational Safety and Health Facilities Rules: Employers may urge employees to engage in working shifts, working at night, and long-hour working. To prevent laborers from developing illnesses due to abnormal workloads, the following disease preventive measures shall be adopted, and the implementation records shall be made and kept for three years: I. Identify and assess high-risk groups. II. Arrange doctor interviews and health guidance. III. Measures to adjust or shorten working hours and change work contents. IV. Implement health inspection, management, and promotion. V. Evaluate the implementation achievements and make improvements. VI. Other relevant safety and health matters.	Prepared an illegal infringement prevention plan and implemented the content in the performance of duties, received an education and training lecture on workplace illegal abuse by the Labor Inspection Office for one hour, and sent the data back to the Labor Inspection Office for confirmation, and completed the improvement within one month after the defect is reported.
Total	Number of incidents: 1.			

04

Sustainability Partner



MATERIAL TOPIC:

SUPPLIER ENVIRONMENTAL ASSESSMENT	56
4.1 SUSTAINABLE SUPPLY CHAIN MANAGEMENT	57
4.2 CUSTOMER SAFETY AND PRODUCT MANAGEMENT	59



Material Topic Supplier environmental assessment

Sustainability Topic

Supplier environmental assessment

Corresponding GRI Indicators

GRI 308 Supplier Environmental Assessment

Importance to J&V Energy

Environmental sustainability has become an issue of international attention in recent years. Internal and external stakeholders of J&V Energy (i.e. governmental agencies, investors, and employees) are also concerned about future development and planning.

Through the evaluation system, we understand the supply chain ecology and manufacturing process and exert the function of advocacy and management, allowing sustainability-related specifications to bring positive effects to suppliers; therefore, supplier management is included in the material topics.

Effects and Impacts

Environmental Effects and Impacts

Suppliers are required to comply with the Company's environmental management regulations, properly manage environmental issues among value supply chain partners, jointly supervise and maintain the ecological environment, and promptly prevent damage to the environment and goodwill from occurring. If a supplier fails to comply with the management conditions, it may directly harm the environment and corporate goodwill, which is not favorable for corporate operation.

Economic Effects and Impacts

Complying with environmental laws and regulations together with suppliers is conducive to enhancing mutual trust and willingness for long-term cooperation and is conducive to the sustainable development of the Company. Failure to comply with environmental laws and evaluate the interests of various aspects may result in penalties, which will damage the Company's goodwill and affect the impression of stakeholders.

Human Rights Effects and Impacts

Failure to properly conduct environmental assessments and violations of environmental laws and regulations may indirectly affect the environmental maintenance and living quality of local communities and residents.

Goals and Targets

Short-term Goals (2-3 years)

The signing and return rate of the "sustainable management and net-zero emission commitments" of major suppliers (more than 5 transactions per year) reached 100%.

Mid-term Goals (3-5 years)

Plan and develop supplier self-assessment questionnaires for suppliers to independently assess whether they meet the sustainable development specifications.

Long-term Goals (over 5 years)

Establish an on-site visit system, visit suppliers' plants for audits regularly, assign scores based on the evaluation results, and discuss with suppliers regarding countermeasures and solutions for deficiencies.

Management Evaluation System

Review suppliers that do not meet the requirements through supplier evaluation, sustainable management, and net-zero emission commitments.

Performance and Adjustment

- In 2023, there were 85 new suppliers, and the new supplier selection ratio according to the "Supplier Capability Selection Criteria" was 100%.
- Two suppliers also signed and returned the "sustainable management and net-zero emission commitments"
- Currently, there are 125 trading companies, and a total of 58 companies were evaluated in the first half of 2023, of which two companies did not meet the criteria. A total of 59 companies were evaluated in the second half of 2023, and one company did not meet the criteria. After Evaluation and communication, there was little room for improvement among the three companies; therefore, we will terminate the cooperation in the future.

Preventive or Remedial Measures

Remedy: If the cooperating supplier is unable to improve and meet the requirements, the Company will seek other alternative suppliers.

Preventive methods: Select appropriate companies based on the Supplier Capability Selection Criteria and Assurance Measures and past evaluation data, avoiding those with poor quality, or engaging in mass procurement from qualified suppliers to stock up in advance as inventory.



4.1 Sustainable Supply Chain Management

Supplier Management

Suppliers are important partners of J&V Energy. In addition to providing customers with high-quality products and services, to implement sustainable operation, value environmental and social protection, as well as occupational safety and health and labor human rights, we have formulated supplier management policies and required suppliers to comply with environmental, social, and human rights issues to ensure that suppliers comply with relevant laws and regulations so as to meet customers' requirements and mitigate the impact on the ecological environment. We hope to join hands with suppliers to fulfill corporate social responsibility.

Procurement Strategy

To strengthen the partnership with suppliers, J&V Energy actively promotes supply chain localization and local procurement strategies to reduce the reliance on foreign suppliers and mainly focus on domestic procurement. Cooperation with local suppliers facilitates the stable growth of domestic suppliers, reduces the transportation distance and carbon emissions of raw materials, and reduces carbon footprint and environmental impact.



J&V Energy actively adopts local suppliers for labor services and engineering. In 2023, we cooperated with a total of 81 suppliers, mainly from Taiwan, with local procurement accounting for 100%.

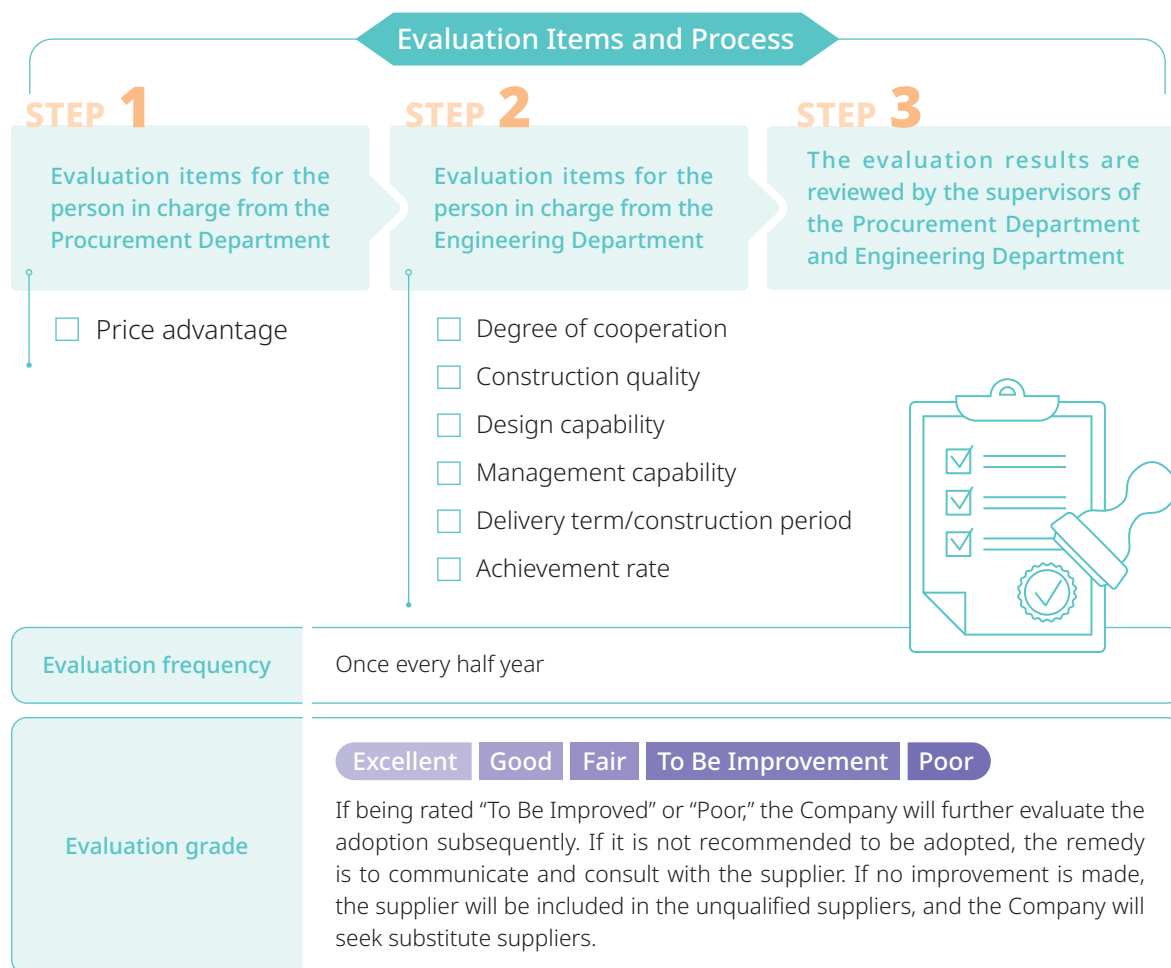
The following table shows the number of suppliers and the proportion of procurements made by the Company in the most recent two years:

Type of contract	2023			
	Number of suppliers in the region of procurement		Proportion of such procurement amount to total procurement amount (%)	
	Domestic	Overseas	Domestic	Overseas
Labor services (contracting and service)	34	0	8	0
Property (raw materials)	0	0	0	0
Engineering (building and equipment)	46	1	92	0
Total	81		100%	

Note: The Company has one foreign supplier in engineering procurement; however, the amount was relatively low, the amount accounted for 0.

Supplier Evaluation

Upholding the spirit of sustainable corporate operation, to maintain long-term cooperative relationships with suppliers and partners, J&V Energy has established the “Supplier Capability Selection Criteria and Assurance Measures” and “Supplier Evaluation” for supplier management and development to serve as the evaluation and selection basis. For a supplier of the initial transaction, the Company also regulates that it shall provide basic data for the Procurement Department for review. A supplier that passed the review can engage in the transaction. The Procurement Department and the Engineering Department carry out joint evaluations every half year.



Supplier evaluation results		
2023	The first half of the year	Second half of the year
Number of suppliers evaluated	58	59
Qualification rate	97%	98%

In addition, we require major suppliers to sign and return the “sustainable management and net-zero emission commitments.” In 2023, there were 85 new suppliers, and the new supplier selection ratio according to the “Supplier Capability Selection Criteria and Assurance Measures” was 100%. Two suppliers also signed and returned the “sustainable management and net-zero emission commitments.”

The Company expects to introduce the ISO 14001 environmental management system in 2024 and plans to conduct on-site audits and visits at plants. In addition to quality system audits, we also emphasize hazardous substance management and environmental risk control (i.e. raw material traceability and carbon footprint tracking) to reduce the environmental impact of products during the course of production and transportation so as to jointly create ecological sustainability.

4.2 Customer Safety and Product Management



Customer satisfaction

To ensure the full satisfaction of customers' requirements, J&V Energy will carry out a customer satisfaction survey in accordance with ISO 9001 on a yearly basis starting in 2024. The Business Strategy Department shall carry out the coordination and planning to collect customers' opinions with a focus on three major themes for customer survey, including professionalism of business services, engineering construction planning and benefits, and overall satisfaction via questionnaire in the hope of understanding whether customers are satisfied with the Company's overall services through a just and objective viewpoint.

The results of each customer's feedback will be compiled and sent to relevant units. For items with low satisfaction, the relevant unit will be responsible for proposing improvement plans and include them in the follow-up items and include them in the business improvement plan so as to continue to improve the professional capability and service quality of personnel of different departments, complying with customers' expectations in the Company.

Customer privacy

J&V Energy is committed to strengthening the overall information security protection system of the enterprise and protecting the rights and interests of stakeholders. We attach great importance to customer privacy and information security. The General Operation Department is responsible for maintaining information security. It is responsible for planning information security matters and formulating cybersecurity policies. There are specific management regulations in place for network safety, hardware resources, software copyrights, and data security. The information unit will continue to invest in cybersecurity management. In addition to optimizing safety basic structure for governance and technology and strengthening information security defense equipment, information security education and training are also organized quarterly to improve the information security awareness of all employees, and we promote to employees at meetings and on the intranet to improve their information security awareness.

J&V Energy strictly abides by the non-disclosure agreements with customers, provides relevant services in accordance with international standards, and has business contact information and customer service channels for customer inquiries or complaints. There was no information leakage or violation of customer privacy in 2023.

05

Environment Friendliness



MATERIAL TOPIC: ENERGY	61
5.1 CLIMATE CHANGE MANAGEMENT	62
5.2 ENERGY MANAGEMENT	70
5.3 GHG EMISSION MANAGEMENT	71
5.4 WATER RESOURCE MANAGEMENT	72
MATERIAL TOPIC: WASTE	73
5.5 MATERIALS AND WASTE MANAGEMENT	74



Material Topic Energy

Sustainability Topic

Energy

Corresponding GRI Indicators

GRI 302 Energy & GRI 305 Emissions

Importance to J&V Energy

In response to the international trend of carbon reduction, we implement energy transformation and circular economy development. In order to implement energy transformation, J&V Energy actively invests in various green energy industries and provides domestic green electricity supply, hoping to effectively reduce GHG emissions, achieve ecological restoration, and move toward a low-carbon future. The green energy industry has also become the growing momentum of the Company's operating income.

Effects and Impacts

Environmental Effects and Impacts

The Company actively invests in energy conservation, carbon reduction, and the reduction of energy consumption and is friendly to the global environment.

Economic Effects and Impacts

The Company reduces energy consumption, which can reduce electricity costs and expenditures.

Policy/Strategy

In recent years, the Company introduced ISO 14064 and ISO 50001 to carry out the inventory for the Company's internal carbon emissions and energy consumption in order to understand the overall internal energy consumption conditions.

Goals and Targets

Short-term Goals (2-3 years):

In 2023, we expect to introduce the ISO 14064 carbon inventory procedure. In 2024, we expect to introduce the ISO 50001 energy management to examine the overall energy consumption and carbon emissions.

Mid- and Long-term Goals (3-5 years)

In the future, energy-saving policies and goals will be formulated based on the results of the annual GHG inventory so as to cooperate with the government's net-zero carbon emission policy to reduce energy consumption.

Management Evaluation System

The Company complies with the ISO 14064 carbon inventory procedure, and it estimates to introduce ISO 50001 in 2024 for internal management and evaluation to perform PDCA effectiveness evaluation for carbon emissions and energy consumption each year.

Performance and Adjustment

The Company reviews the overall energy-saving performance every year and formulates energy-saving strategies; if the performance is less favorable than expected, the Company also actively adjusts the management policy and seeks communication and cooperation with relevant units.

Preventive or Remedial Measures

To reduce energy consumption, the Company promotes turning off lights for one hour during lunch breaks.

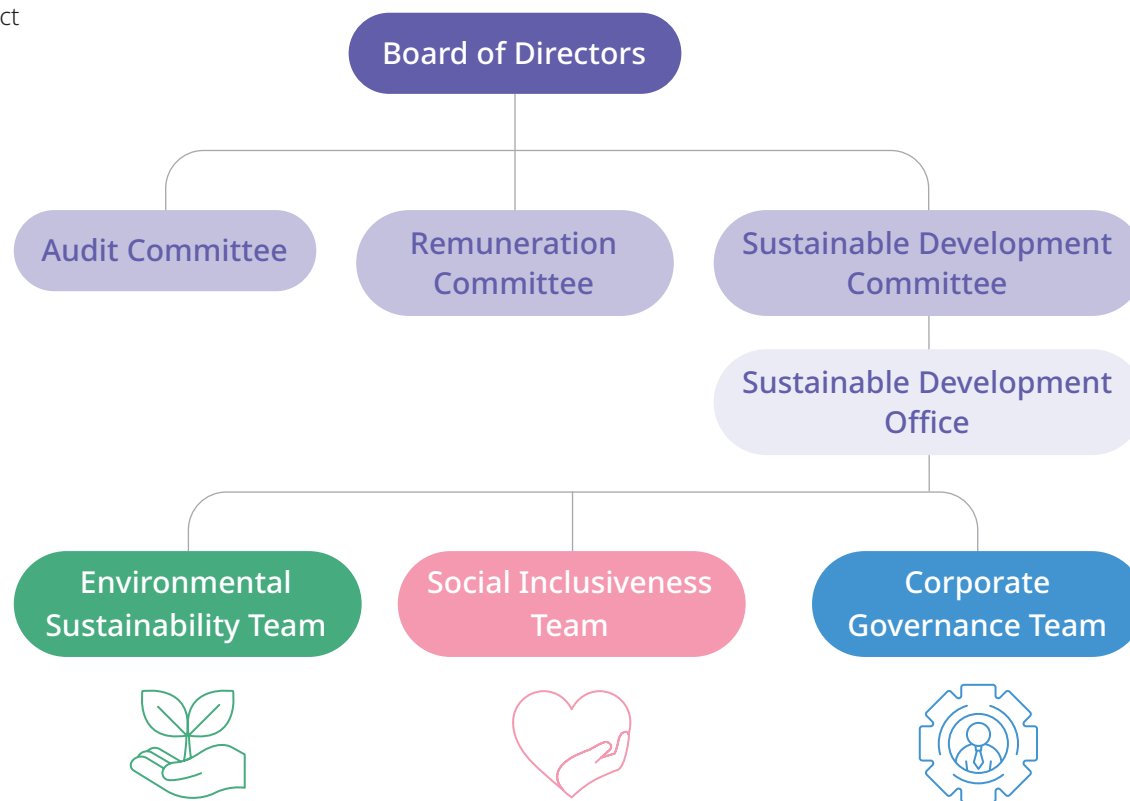


5.1 Climate Change Management

Climate Change Governance

The Board of Yunbao Energy J&V Energy is the highest supervisory body for climate change management and is responsible for supervising and reviewing climate risk policies and control systems. To respond to the risks and opportunities brought about by extreme weather, units of different levels actively participate in issue discussions to identify and assess the impacts of climate change, formulate relevant countermeasures, and refer to the Task Force on Climate-related Financial Disclosures (TCFD) to establish climate risk identification and assessment process for the benefit of analyzing climate risks and identify opportunities. Based on the probability and the level of impact identified, the Company makes an assessment through qualitative or quantitative approaches to identify potential operating and financial impacts brought by operations and businesses of the Company.




The “Sustainable Development Committee” was established under the Board of J&V Energy, with the Chairman as the chairperson and the General Manager as the convener. The Sustainable Development Office has been established under the Committee, with the Chief of Sustainability as the representative. Three ESG teams, including “environmental sustainability team,” “social inclusiveness team,” and “corporate governance team,” jointly promote risk management plans and operations in terms of operation, market, finance, human resources, climate change, and other different business scope and work with relevant departments of the Company to promote the planning and implementation of sustainability operation. The Sustainable Development Committee convenes meetings at least twice a year, and the operating status and achievements are reported to the Board.









Climate Change Response Strategies

According to the identification results of climate change risks and opportunities, among all risks, policy and regulatory risks in transition risk have the highest level of impact and are considered major risks.

Transition risk						
Risk item	Climate-related issue	Potential financial impact	Impact timing	Level of Impact	Scenario description	Response strategies
Policies and regulations	Electrical industry-related regulations	Operating income ↑	Short-term	High	In response to the official implementation of the large power user clause of the Renewable Energy Development Act, domestic large power users fulfill their obligations by building renewable energy power generation equipment, purchasing renewable energy and electricity, installing energy storage equipment, certificates, and paying fees, allowing the increasing demand for the building of renewable energy power plants, energy storage equipment, and green electricity.	J&V Energy provides customers with one-stop services for the planning, design, construction, maintenance and operation of renewable energy power plants and energy storage equipment construction. Meanwhile, it expanded its investments in renewable energy power plants to provide diverse and stable green electricity sources to customers and create operating income for the Company.
Policies and regulations	Fuel/energy tax-related regulations	Operating costs ↑	Short-term	High	In response to the relevant national regulations on energy consumption reduction and equipment energy efficiency, power-saving and carbon reduction measures have been implemented to comply with the regulations, resulting in an increase in operating costs.	J&V Energy has introduced ISO 14064-1 GHG inventory, ISO 14001 environmental management, and other management systems and has established its short-, mid-, and long-term carbon reduction actions and goals.
Market risk	Change in customer demand	Operating income ↑	Mid-term	High	Major international enterprises have initiated the 100% green power commitment, requiring the supply chain to use green power, and the goal is to achieve net-zero carbon emissions.	J&V Energy invests in the deployment of various types of renewable energy power plants to create a stable source of power supply. We also replicate Taiwan's experience overseas to assist customers in building renewable energy power plants, and grasp the opportunities derived from climate to create operating income for the Company.
Reputation risk	Change in stakeholders' perception	Investment willingness ↓	Mid-term	High	In response to climate change, whether or not J&V Energy can implement corporate sustainability and assist customers in low-carbon transformation, energy conservation and carbon reduction will affect the perception of stakeholders (shareholders, customers, and suppliers) regarding the Company's image and reputation.	In response to international trends, changes in regulations, and market development trends, J&V Energy has carried out internal management regulation adjustments, transparent disclosures, and timely responses to enhance its corporate image of low-carbon and green energy. The Company also performs stakeholder engagement by describing its business deployment and future planning through investor conferences and external activities.

Physical risk						
Risk item	Climate-related issue	Potential financial impact	Impact timing	Level of Impact	Scenario description	Response strategies
Climate	Typhoons and floods Heat and rising sea level	Operating income  Property damage  Operating costs 	Short-term	High	Assessment description J&V Energy promotes the construction of solar power plants and energy storage equipment. There are 61 solar power plants and one energy storage equipment with meters installed in Taiwan, all of which are the Company's important assets. In the Global Risks Report 2023, it was shown that extreme weather events are one of the short-term risks. Solar power plants may be damaged by typhoons and floods, resulting in increased operating costs. Before suffering from extreme weather risks, J&V Energy believes that it is necessary to conduct a scientific scenario analysis to assess the potential financial impact for the benefit of timely response and remedy. Driving factor Solar power plants suffer losses due to extreme weather events (i.e. typhoons and floods). Assessment result The assessment was carried out using the inundation risk tool of the "Taiwan Climate Change Projection Information and Adaptation Knowledge Platform Program (TCCIP)" of the Ministry of Science and Technology. Under the scenario analysis of RCP8.5, risks are divided into five levels, with level 5 as the region with the highest risks; level 5 means solar power project site that may trigger floods. According to the analysis results in 2023, the Company's current project site areas do not involve level 5 risk standards. In the future, we will continue to conduct climate scenario analysis, consider and prevent possible power plant disasters in the event of extreme weather events, and formulate corresponding preventive strategies and preventive measures in a timely manner.	During the stages of site selection, design, and construction before project site development, the stability of the power generation system was considered. For cable and design, the waterproofing issue was also considered. To ensure the minimization of possible effects caused by disasters, we purchased relevant natural disaster insurance for each power plant; it is estimated that the insurance expenditure for natural disasters for one year is approximately NT\$3.41 million. Develop alternative raw materials to reduce the impact of rising raw material prices; on the other hand, find suppliers in other regions to avoid price monopoly caused by the concentrated procurement from specific suppliers.

Opportunity for transformation						
Type of opportunity	Climate-related issue	Potential financial impact	Impact timing	Level of Impact	Scenario description	Response strategies
Opportunity for transformation	Energy consumption	Operating income  Operating costs 	Short-term	Low	In response to international sustainability trends and domestic energy transformation goals, the demand for renewable energy is increasing, and the Company promotes internal energy conservation and carbon reduction.	J&V Energy develops and invests in PV, wind power generation, biomass energy, energy storage, and other business items. It established its Sustainable Development Office to promote corporate energy conservation and carbon reduction, improve energy efficiency, and formulate renewable energy consumption targets.
Opportunity for transformation	Resource efficiency	Operating income  Operating costs 	Mid-term	Low	Regarding the issue of insufficient domestic water resources, particularly frequent water rationing in summer, industries with high water consumption (i.e. semiconductor, panel, and iron and steel industries) invest in long-term water resource sustainability management work.	J&V Energy has invested in Weisheng Envirotech, a water treatment subsidiary, to develop the reuse of industrial wastewater and domestic wastewater, as well as the desalination treatment of seawater, to make full use of water resources and improve the niche for industrial development; the Company has installed water-saving equipment and promotes water consumption reduction.
Opportunity for transformation	Products and services	Operating income 	Short-term	High	In response to the international RE100 trend and domestic regulations for large power users, the demand for renewable energy services and green power from enterprises has increased significantly.	By investing in the construction of diverse renewable energy power plants, establishing a power sales company, Greenet, and investing in an energy storage subsidiary, TPE Energy, we can provide one-stop services for energy generation, energy storage, and green power trading to satisfy customers' demand and increase profit opportunities.
Opportunity for transformation	Market changes	Operating income 	Long-term	High	Due to international trends, government policies, and other factors, enterprises have an increasing demand for renewable energy and low-carbon products, increasing profit opportunities.	In line with government policies, J&V Energy has invested in the deployment of various types of renewable energy power plants, and invested in biomass energy, energy storage equipment, and circular economy projects to grasp market demand.

Opportunity for transformation						
Type of opportunity	Climate-related issue	Potential financial impact	Impact timing	Level of Impact	Scenario description	Response strategies
Opportunity for transformation	Energy sources	Operating income ↑	Short-term	High	<p>Assessment description Taiwan's 2050 net-zero emissions pathway has been announced, and energy transformation is one of the four major strategies. It will increase the demand for green power consumption throughout Taiwan. J&V Energy is actively developing solar and other renewable energy power generation businesses and has established a green power sales platform, Greenet, which is beneficial for increasing J&V Energy's operating income.</p> <p>Driver Description The demand for green power will increase in the future. The Company participates in the development, investment in, and construction of renewable energy power plants (i.e. solar power) and supplies green power to customers through the subsidiary of power sales platform, which can increase operating income.</p> <p>Assessment result As of the end of 2023, the total capacity of solar power plants developed and constructed by J&V Energy reached 600MW. In addition to bulk sales, the power generated by the power plants is also supplied to domestic and foreign enterprises. It is expected that the business will continue to expand to 2025, and the estimated contracted green power supply volume will reach 12.5 billion kWh.</p>	Continue to pay attention to international energy trends and cooperate with government policies to establish diverse renewable energy project sites. Through its subsidiary of a power sales platform, Greenet, the Company provides green power consultation and sales and commits to satisfying green power required by customers. In the future, our goal is to become an "integrated circular economy service provider," expand to the field of circular economy, and create a low-carbon sustainable living environment.
Opportunity for transformation	Operational resilience	Operating income ↑	Long-term	High	Actively pay attention to climate risks and opportunities to ensure the Company's response capacity in the face of disasters and the sensitivity to climate opportunities.	Identify and grasp climate risks and opportunities through TCFD, establish a systematic governance structure, enhance the Company's response capacity to climate change risks, and enhance financial performance through climate opportunities.

Climate Risk Identification and Management

To respond to the risks and opportunities brought about by extreme weather, units of different levels actively participate in issue discussions to identify and assess the impacts of climate change, formulate relevant countermeasures, and refer to the Task Force on Climate-related Financial Disclosures (TCFD) to establish climate risk identification and assessment process for the benefit of analyzing climate risks and identify opportunities. Based on the probability and the level of impact identified, the Company makes an assessment through qualitative or quantitative approaches to identify potential operating and financial impacts brought by operations and businesses of J&V Energy.

Identification

The TCFD framework was adopted to identify risks and opportunities, and department interviews were conducted to preliminarily identify potential climate risks and opportunities of J&V Energy through a qualitative approach and to perform an inventory of the impact of each climate risk on J&V Energy.

Assessment

Identify climate risk and opportunity factors that J&V Energy should pay attention to by conducting qualitative or quantitative assessments based on the probability/level of impact of climate-related risks and opportunities.

Analysis

Formulate countermeasures or monitoring systems for climate change-related risks and opportunities based on the above identification results.

Control

Disclose the results of climate risk and opportunity identification, describe the possible impacts on J&V Energy when facing various climate risks and opportunities, and propose strategies and management methods to respond to each risk.

Indicators and Targets

To effectively manage climate risks and reduce the possible impact on the environment during the course operation, J&V Energy formulated corresponding plans and targets and implemented them accordingly based on the risk management proposed by the Sustainable Development Committee.

1. In response to the Taiwan government's "Net-Zero Carbon Emissions by 2050" policy, the Company will use 100% of green power by 2024
2. The Company continues to maintain the ISO 14064-1 certification
3. Obtained ISO 50001 energy management certification
4. Complete replacement with water-saving equipment in the Taipei Office
5. Complete replacement with energy-saving equipment in the Taipei office
6. 10% per capita reduction of office waste and garbage, with 2023 as the base year
7. Implement and promote the matters required by the management system of operating areas (including project sites) and occupational safety and health matters to comply with the ISO 45001 certification standard

Green Power Consumption

Short-term Goals (2-3 years)	Mid-term Goals (3-5 years)	Long-term Goals (over 5 years)
25.07% green power supply and power sales in 2023	Use 100% green power supply throughout 2024	Continuous implementation

Achievement and performance

The green power supply target of the Taipei Office in 2023 achieved 25.07%

Replacement of equipment (energy-saving and water-saving)

Short-term Goals (2-3 years)	Mid-term Goals (3-5 years)	Long-term Goals (over 5 years)
<ul style="list-style-type: none"> • Use slogans in the office to promote turning off the lights and saving water. • Set the temperature of A/C in the office to 26°C during summer. • Provide mugs for employees and visitors to reduce the use of plastic cups. • Microwaves, electric cookers and other heating equipment are provided in the staff lounge to encourage employees to bring lunch boxes to heat food and use environmentally friendly tableware. 	Continuous implementation	Continuous implementation

Waste reduction (office and project site construction)

Short-term Goals (2-3 years)	Mid-term Goals (3-5 years)	Long-term Goals (over 5 years)
Office – digitalization of administrative operations <ul style="list-style-type: none"> • Introduce the electronic sign-off system to reduce the use of paper. • Establish a resource recycling area, properly implement garbage classification, and the building appoint a qualified clearance supplier for disposal. Project site – waste reduction in engineering activities <ul style="list-style-type: none"> • Control the waste of engineering materials below 1% through systematic engineering management and use the supplies saved as spare parts. • Reuse packaging materials and accessories used for transportation or shipping. • Replaced materials may reinforce the existing project sites through restructuring and reformation. If wastes are duly disposed of, the majority of them are valuable supplies that can be directly recycled by professional companies. 	Continuous implementation	Continuous implementation

GHG Inventory Plan and Carbon Pricing Basis

In response to the national carbon reduction policy and the global trend of responding to climate risks, J&V Energy has set phased carbon reduction targets for 2025 and 2030, aims to achieve net-zero emissions by 2050 as its long-term goal, and continues to carefully assess the climate change risks and opportunities.

Based on the risk identification results and international trends, J&V Energy planned relevant action plans to respond to climate change, set performance management indicators, established short-, mid-, and long-term targets for GHG management, energy and resource management, and water management, and regularly examined the achievement progress of targets and effects.

In line with the “Sustainable Development Roadmap for Listed Companies” implemented by the government, J&V Energy adopted 2023 as the base year, introduced ISO 14064-1:2018 GHG inventory standards, and carried out GHG inventory on December 15, 2023. It obtained the third-party external verification on June 14, 2024. In addition, regarding GHG inventory and confirmation of subsidiaries in the consolidated statements, the Company estimates to carry out GHG inventory in 2024 and complete the third-party external verification in 2025.

According to “GHG Protocol,” we performed an inventory of GHG emissions from direct emissions (Scope 1), indirect emissions (Scope 2), and other indirect

emissions (Scope 3), examined effects caused by operations and potential impacts we faced, and passed the ISO 14064-1 GHG inventory verification.

J&V Energy is of an energy service nature. This report discloses the GHG emissions in 2023. In response to the global development trend, the adoption of ESG actions is imminent. The Company established the Sustainable Development Committee to carry out net-zero carbon emission planning, the goal is to achieve RE100 by 2024 in the future. It also introduced the ISO 50001 energy management system to effectively manage energy performance. The Company continues to implement energy-saving and carbon reduction improvement actions in the hope of exerting its influence and, in turn, minimizing environmental impact. The Company does not have a specifically planned internal carbon pricing system. However, we will continue to study the internal carbon pricing system and carefully evaluate the implementation methods to facilitate the management and reduction of carbon emissions.

Green Power Consumption in 2023

Green power supply volume	29,292 kWh	Procurement of green power certificate	9 certificates
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Achieve RE25 goals

5.2 Energy Management

Energy consumption

Energy and resources used by J&V Energy include purchased electricity, green electricity, and gasoline. Gasoline is the main source of energy, primarily used by company vehicles for commuting due to the requirements of project site establishment and surveys during the operation.

Energy-saving Benefits

To effectively manage the consumption of energy and resources and reduce energy consumption, J&V Energy implements office energy-saving management, green energy consumption, and other energy-saving measures.

In 2023, the power consumption of the Taipei Office decreased by 17% from 2022. Together with the purchase of nine green power certificates (9,000kWh of green power), the Headquarters achieved the consumption of 25.07% renewable energy (RE 25), achieving effective energy-saving benefits for office energy-saving management.

	2022	2023
Annual power consumption (kWh/year)	150,480	152,733
Average power consumption per person (kWh/year)	2006.40	1660.14

In terms of green power consumption, Greenet, the subsidiary in the power sales industry, provides PV supply services. In 2023, the PV supply services reduced a total of 204,118,900tCO₂e for customers.

Overview of energy consumption of J&V Energy in 2023

Quantitative indicator	Unit	2023
Electricity consumption	kWh/year	156,105.15
	GJ	561.90
Gasoline consumption	L/year	21,087.07
	GJ	688.18
Total energy consumption	GJ	1,250.08
Energy intensity	GJ/number of employees	10.59

Remarks:

1. The heating value of electricity is converted at 1kWh = 0.0036GJ.
2. The conversion coefficients are based on the Environmental Protection Administration's Emission Factor Management Table (version 6.0.4). The fuel heating value is 7,800kcal/L for gasoline, 8,400kcal/L for diesel, 8,000kcal/m³ for natural gas, and 6,635kcal/L for LPG; 1kcal=4.184KJ.

The results of the energy-saving action plan implemented by J&V Energy are shown in the following table:

J&V Energy's energy conservation measures and estimated conservation volume in 2023

Energy conservation measures	Specific actions	Volume saved	Achievement
Office energy-saving management	Turn off the lights for one hour during the lunch break to effectively reduce office energy consumption. We also provide employees with a quiet and comfortable rest space and atmosphere to promote energy conservation and healthy life.	323,000kWh	Achieved
Green Power Consumption	In 2023, the office in the Headquarters plans to procure green power and realize a green power supply of RE25; we hope the office in the Headquarters to realize the green power consumption target of RE100 in 2024.	204,118,900tCO ₂ e	Achieved

5.3 GHG Emission Management

In line with the “Sustainable Development Roadmap for Listed Companies” implemented by the government, J&V Energy began to conduct independent GHG inventory at the end of 2023. In June 2023, a third-party institution to conduct carried out the verification operations, and the Company obtained the GHG Verification Statement. The Company's GHG-related inventory work is mainly based on the ISO 14064-1:2018 standard, with reference to the Regulations Governing Greenhouse Gas Emissions Inventory and Registration of the Environmental Protection Administration.

The Company's total GHG emissions in 2023 were approximately 223.7809 tCO₂e, most of which came from employees' commuting and the use of electricity and energy. The Company will continue to use green power, and it expects to achieve the RE 100 target for the northern offices by 2024; it has adopted various energy-saving measures to achieve the vision of net-zero emissions.

Overview of GHG emissions of J&V Energy

Item	2023
Scope 1: Direct GHG emissions (tCO ₂ e)	52.9175
Scope 2: Indirect GHG emissions (tCO ₂ e)	78.7417
Scope 3: Other indirect emission sources (tCO ₂ e)	92.1217
Total emissions = Scope 1 + Scope 2 + Scope 3 (tCO ₂ e)	223.7809
GHG emission intensity (tCO ₂ e/number of employees)	1.90

Remarks:

1. Scope 1 focuses on the emission sources directly owned or controlled by the Company, including stationary combustion sources, emissions from processes, mobile combustion sources of transportation, and fugitive emission sources. The emission coefficient is based on the latest data announced by the Bureau of Energy, Ministry of Economic Affairs (version 6.0.4) (IPCC Sixth Assessment Report).
2. Scope 2 refers to indirect emissions from energy (i.e. purchased electricity).
3. Types of GHG emissions: CO₂, CH₄, N₂O, and HFCs.

The purchased electricity is based on the electricity emission coefficient announced by the Energy Administration, Ministry of Economic Affairs. The electricity emission coefficient in 2023 is 0.494 kgCO₂e/kWh.

ISO 14064-1: 2018 GHG inventory verification

afnor 法國標準協會 (AFNOR) 艾法諾集團

驗證/查證審查結果通知書
Review result notification

File No. YH24-299 日期: 2024年6月14日

被證公司/單位名稱: 雲豹能源科技股份有限公司
To Company

管理代表/負責人: 廖維生
Management Representative/Responsible person

審查結果:
Review Result:
貴公司於 2024-06-04 ~ 2024-06-07 ~ 2024-06-14
執行 ISO 14064-1:2018 驗證/查證審查, 應本公司審查結果如下: (打✓)
Your company conducted ISO 14064-1:2018 certification review on 2024-06-04 ~ 2024-06-07 ~ 2024-06-14, the review result by us is as below (see ✓)
■ 矯正措施符合驗證標準要求。
Corrective actions conform to certification requirements
☐ 現場稽核未發現不符合項目。No nonconformity is found at on-site audit
經驗證決定小組決定: Determined by the certification decision team:
■ 予以發證。Acceptance of issuing certificate
☐ 此次驗證通過, 證書持續有效。
This certification is completed, and maintain the effectiveness of certificate
☐ 現場稽核, 尚未符合驗證標準要求, 本公司需再赴現場進行複查, 複查計畫將另行通知。
By on-site check, still in non-compliance with certification requirements, our company needs to revisit on site and revisit plan will be notified later

艾法諾國際股份有限公司
AFNOR Asia, Ltd
驗證經理 Certification Manager

2024年6月14日 2024-06-14

艾法諾國際股份有限公司

Air Pollution Control

Due to the excessive industrialization and industrial development of modern times, air pollution has become one of the causes of damage to the ecological environment. It will have a negative impact on climate, ecological environment, air quality, other species and human beings. Unfavorable air quality can lead to acid rain, ecosystem deterioration, social injustice, and health impacts. As a green energy and environmental protection enterprise, J&V Energy mainly provides green power supply and power sale services. In 2023, the Company did not emit ozone-depleting substances (ODS), nor did it produce relevant air pollutants that caused adverse impacts on the environment.

5.4 Water Resource Management

Water Resource Utilization Policy

With the increasing demand for water resources, the impact of climate change and the pressure for sustainability have been increasing. J&V Energy continues to pay attention to the issue of water shortage. It invested in Weisheng Envirotech Co., Ltd, a water treatment business, to provide overall sewage and wastewater treatment solutions and technical services for customers. The Company also managed to reduce its water consumption or improve the water recycling efficiency as a response.

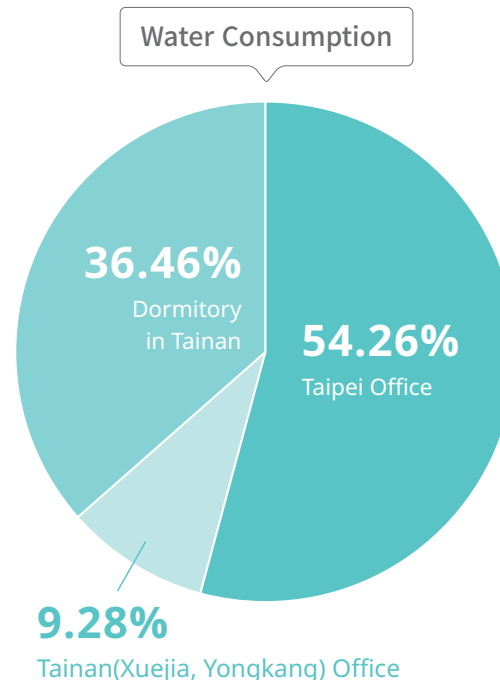
Water-saving measures planned by J&V Energy

- ✓ Use slogans in the office to promote turning off the lights and saving water.
- ✓ Strengthen the circular use of water resources and make full replacement with water-saving equipment in the Taipei Office.
- ✓ Introduce aquaculture water resource circulation technology.
- ✓ Automated water-saving cleaning systems will be introduced for water consumption of project sites in the future.

Water Consumption by Office Operations

The main water consumption conditions of J&V Energy can be divided into water consumption of internal office operations and external PV project sites. The internal business locations are Taipei Headquarters, Xuejia Office in Tainan City, and Yongkang Office in Tainan City. By using the "water resource risk assessment tool," the regions are identified as regions with mid-to-low risks. Subject to the location, water resources are mainly supplied by Taiwan Water Corporation and Taipei Water Department.

The Company attaches great importance to water resource conservation and other environmental protection issues. In 2023, the total water consumption of all office locations was 1228m³. The Company operates in the office, and the water consumed is domestic water consumption; therefore, no wastewater testing was performed. In the future, we will earnestly implement water-saving plans, starting from the comprehensive implementation of water conservation in daily life and making more effective use of water resources to achieve greater benefits.



Water Consumption by PV Project Sites

For PV project sites invested and held by J&V Energy, including ground-mounted, rooftop, and floatovoltaics, the cleaning for solar panels is arranged quarterly or biannually based on local climate features and weather. The module cleaning is performed with water and high-pressure water cannon, together with washing tools, to clean surface sundries and dirt on the module; therefore, it will not cause environmental pollution. After cleaning, water resources will be directly discharged.

Material Topic Waste

Sustainability Topic

Waste

Corresponding GRI Indicators

GRI 306 Waste

Importance to J&V Energy

J&V Energy values waste disposal and environmental protection. To reduce the negative impact of man-made waste on the environment, we have set up various waste recycling and disposal facilities, cooperated with site preparation and material stacking operations, and performed audits of the shipping documents of materials used to ensure that there will not be substances harmful to environment emitted before adoption. If there is no proper management and disposal, it may easily cause environmental, economic, and human rights harms and losses and trigger negative public opinion, affecting corporate image and business performance.

Effects and Impacts

Environmental Effects and Impacts

Noises and vibrations generated by mechanical and electrical machinery during the construction period may affect nearby residents and inhabit animals. If the material waste and water used for construction generated during the course are not properly disposed of, it may cause environmental pollution risks and harm ecological environments and the habitats of animals and plants.

Economic Effects and Impacts

Business waste can be recycled and resold to recycling companies or recycled and reused to reduce waste clearance expenses, which contributes to the development of the circular economy, implementing the spirit of sustainability. Failure to properly dispose of the waste generated from operating activities will affect the environment and result in penalties for violating environmental regulations, affecting the Company's image and giving stakeholders a negative perception.

Human Rights Effects and Impacts

Failure to properly dispose of business wastes may indirectly affect the environmental maintenance and living quality of local communities and residents.

Policy/Strategy

Waste recycling and disposal measures

- Establish various waste recycling and disposal facilities during the construction period.
- All the waste disposal contractors are qualified suppliers with transparent clearance facts.

Goals and Targets

Short-term Goals (2-3 years)

Control the waste of engineering materials below 1% through systematic engineering management and use the supplies saved as spare parts.

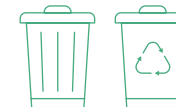
- Reuse packaging materials and accessories used for transportation or shipping.
- Replaced materials may reinforce the existing project sites through restructuring and reformation. If wastes are duly disposed of, the majority of them are valuable supplies that can be directly recycled by professional companies.

Mid-term Goals (3-5 years)

Continuous implementation

Long-term Goals (over 5 years)

Continuous implementation



Management Evaluation System

Formulate a waste clearance plan and include the plan in the contract specifications of project contractors.

Performance and Adjustment

Number of fine notices related to environmental issues: In 2022, the Company received one air pollution fine notice and one fine notice for waste. In 2023, the Company received two fine notices for waste.

In 2023, the goal of zero fine notice for environmental-related issues has not been achieved, and it is necessary to strengthen the supervision of the contractors for waste disposal and disposal.

Preventive or Remedial Measures

- Properly investigate the local environment and environmental regulations before construction and eliminate various risks of waste generation in the design stage.
- Add on-site supervising personnel.
- Regularly have patrol inspections of the temporary waste storage facilities established for different projects.
- Standardize the proof of flow of waste after clearance by contractors.

5.5 Materials and Waste Management

Material Use

J&V Energy specializes in the construction of PV systems, energy storage, and other energy projects. The materials used are mainly non-renewable raw materials, including solar modules and solar inverters. Solar modules are the main raw material consumed.

The table below shows the consumption of raw materials of the Company:

Raw Material Statistics of J&V Energy			
Raw material	Unit	Whether it is renewable	2023
Solar module	Piece	Non-renewable	26,825
Solar inverter	Unit	Non-renewable	102

Remarks:

1. The types of materials include primitive natural resources (i.e. ores, iron, wood, and plastic pellets), lubricants used in machines, semi-finished parts or components, and packaging materials.
2. Non-renewable refers to resources that cannot be replenished in a short period of time (i.e. coal, natural gas, metals, minerals, and petroleum); renewable refers to resources that will grow back after harvesting.



Waste Management

During the course of project site development, the construction generates the most waste, which is classified as general waste and construction waste. Meanwhile, it specifies in the contracts that contractors shall engage clearance suppliers approved by the competent authority to dispose of relevant waste. Furthermore, after the expiry of the operating period of the PV system, it engages suppliers qualified by the Environmental Protection Administration to dispose of and recycle the waste PV panels according to the regulations of the Ministry of Economic Affairs.

According to the waste disposal plan sent to the Environmental Protection Bureau of the Tainan City Government, there was no serious leakage of waste by J&V Energy in 2023, and no materials and objects used in routine projects were prone to leakage. There has been no leakage of oil, fuel, waste, or chemical substances. The Company's waste disposal methods are in compliance with laws and regulations and the Company's management procedures.

Waste Management and Disposal Methods

Stage	Waste	Disposal method
Construction period	General waste Waste wood and paper in the construction stage	It can be placed with domestic waste and recycled like general waste.
	Construction waste Metal blocks, supporting parts, waste plastic pipes, PV parts and components, and waste oil	Can evaluate whether to include in management as spare parts or consumables or return to the original supplier for recycling/return.
After the expiry of the operating period	PV module	After the expiry of the operating period, the PV systems are handed over to suppliers qualified by the Environmental Protection Administration according to the regulations of the Ministry of Economic Affairs for recycling and disposal.



The table below shows the percentage by weight of the Company's waste:

Waste Statistics of J&V Energy				
Waste classification	Type	Content	Ton	Consumption percentage
General waste	Waste wood	Waste pallets and template	14	36.36%
	Paper	Packaging paper and cartons	10	25.98%
	Others	General domestic waste	1.5	3.90%
Construction waste	Metal waste	Waste wires and cables, brackets, and briquettes	2	5.19%
	Waste plastic	Piping materials, construction waste, silicone, and packaging materials	5	12.99%
	Waste PV parts and components	Solar panel	1	2.60%
	Waste oil	Waterproofing asphalt residue and crushed concrete rocks	5	12.99%



Waste generation and disposal

Waste composition	Hazardous/non-hazardous	On-site		Off-site	
Item		Waste generated (ton)	Disposal method	Waste generated (ton)	Disposal method
Waste wood	Non-hazardous	0	0	14	Other recycling operations

Remarks:

1. The disposal methods are divided into incineration (including energy recycling), incineration (excluding energy recycling), landfill, heat treatment and other recycling operations.
2. Other recycling operations: Washing, recycling, and reuse (to be used as a raw material for reuse).

06

Ecological Friendliness



MATERIAL TOPIC: BIODIVERSITY 78
6.1 ECOLOGICAL MONITORING PLANNING AND SURVEY 81

Material Topic Biodiversity

Sustainability Topic

Biodiversity

Corresponding GRI Indicators

GRI 304 Biodiversity

Importance to J&V Energy

The Company understands that natural biodiversity is a precious asset and an important core of sustainable development. We are committed to protecting biodiversity and abiding by Taiwan's natural environment-related laws and policies, avoiding ecologically sensitive areas for operating activities and striving to reduce ecological impacts so as to achieve the concept of sustainable coexistence.



Effects and Impacts

Environmental Effects and Impacts

The development of the project site may cause damage to the environment, affect the local ecology, compress the habitat of organisms, and cause ecological impacts.

Human Rights Effects and Impacts

If the construction of the project site causes damage or pollution to the environment, it may also directly affect the rights, interests and livelihood of local communities and residents.

Policy/Strategy

Upholding the principle of the co-prosperity and coexistence of human beings and all creatures in the earth's biosphere, J&V Energy is committed to reducing environmental impacts in its operations, actively implementing ecological conservation, environmental education and afforestation, adopting the impact mitigation strategy of "avoid, reduce, restore, and offset," and implementing corresponding actions (i.e. avoiding development in key biodiversity areas). When engaging in business activities in biodiversity areas, avoid impacts, examine the progress through the internal sustainable governance system, and specifically fulfill the commitments.

Goals and Targets

Short-term Goals (2–3 years)

To maintain the protection of the ecological environment, we have established an environment monitoring system at project sites to regularly inspect the ecological environment around the project sites.

Mid-term Goals (3–5 years)

Regularly evaluate the circumstances of project sites during the development stage and set possible environmental impacts as default to carry out the ecological compensation of the surrounding environment.

Long-term Goals (over 5 years)

Conduct ecological impact assessment and ecological design during the development stage and take measures (i.e. actively restoring habitats and establishing environmental protection mechanisms) after completion to strengthen local participation.

Performance and Adjustment

There were no significant abnormalities in the monitoring items conducted by the Company during the year, and the short-term target effects were achieved. The Company will continue to conduct environmental monitoring and continue to pay attention to biodiversity issues.

Preventive or Remedial Measures

- Conduct environmental and social inspections before developing project sites and adopt environmentally friendly measures
- Regular environmental monitoring at project sites in operation
- Implement ecological compensation plans for the surrounding environment of project sites.

Management Evaluation System

Perform evaluations of biodiversity issues by adopting the PDCA cycle each year.

Before the construction of the project site, the surrounding environment will be monitored to collect the current environmental conditions and species composition to maintain the development of biodiversity.

Conduct environmental and social inspections, soil and water assessments, and ecological monitoring according to stages. Furthermore, after analyzing and compiling the ecological and social issues reviewed by environmental and social inspections, we develop countermeasures in accordance with the PV planning and design to minimize the impact on the surrounding environment of project sites and society.



Natural Environment and Biodiversity Maintenance

J&V Energy supports global biodiversity conservation covenants. To facilitate sustainable ecological development and realize SDGs (SDG7 Affordable and Clean Energy, SDG13 Climate Action, and SDG15 Life on Land), its natural environment and biodiversity development strategies focus on three major themes of “environmental sustainability, ecological conservation, and local co-prosperity.” When developing project sites, we adhere to the principle of not changing the original topography, evaluate the natural environment and biodiversity, and develop renewable energy with multiple uses in one place to allow the green energy, the environment, and ecology to jointly prosper and develop with the local area, hoping to create a beautiful Taiwan and contribute to a sustainable planet.



Project Site History and Evaluation System

1. Planning and design stage: Conduct environmental and social inspections of the proposed project site to be developed, analyze and summarize ecological issues, and develop countermeasures in accordance with PV planning and design to minimize the impact on the surrounding environment and society. The process is as follows:

Data collection for the surrounding area of the project site

1. Ecological database records
2. Surrounding

On-site investigation to confirm impacts

1. Habitat mapping
2. Animal and plant survey
3. Clarify ecological and cultural issues

Development of countermeasures

1. Ecological standard value evaluation
2. Set countermeasures
3. Monitoring effects of countermeasures

Based on the developed countermeasures, measures including PV design adjustment, increasing monitoring items, and habitat preservation are adopted to reduce the ecological impact of environmental development.

2. Construction:

Monitor the ecology and water quality of areas surrounding the project site to ensure safety and changes in the surrounding environment during the construction period. Accumulate and record the data of animal and plant groups and species background values to understand the changes in the project site environment, and provide the information to relevant units for reference.

3. Operating period:

Continue to monitor the ecology and water quality to ensure the safety of the water environment during the operating period. Continue to understand the changes in bird flocks surrounding the project site and make use of the break of fishery ponds.

4. Collaborate with environmental groups to plan and select suitable habitats for ecological compensation.

Key Actions in 2023

1. For the fishery and electricity symbiosis project site in Beimen, Tainan City, the bird and water quality monitoring reports were completed before and during the construction. Fishery and electricity symbiosis development project sites are mostly located in coastal areas. To maintain the natural ecological balance, the development method that minimizes disturbance or avoids negative ecological impact is the priority. Therefore, we carried out the environmental and social inspection, water and land evaluation, and ecological monitoring based on the stages of planning and design, construction, and operation. In addition, we actively cooperated with environmental groups to seek suitable locations for the ecological compensation plan in the hope of considering the target of sustainable development of society, ecology, and enterprises.
2. During the development stage of the Dongshih construction site in Chiayi, environmental social inspections, assessments, and countermeasures were completed. Based on the countermeasures, the PV arrangement design is adjusted, and the compensation measures are adopted to preserve seeds of vegetation in topsoil and within topsoil to maintain biodiversity so as to achieve the target of sustainable development.

2024 Plan

J&V Energy expects to cooperate with environmental groups to select the National Important Wetland in Qigu District, Tainan City, to implement the ecological compensation plan. The purpose of the plan includes the implementation of the conservation and restoration of the black-faced spoonbill, an endangering species, improving habitats and biodiversity, promoting environmental education, and combining local areas for utilization to achieve the target of sustainable development.

6.1 Ecological Monitoring Planning and Survey

Dongshih Fishery and Electricity Symbiosis Field in Chiayi

I. Bird Ecological Survey

(1) Survey Method

Zhangtan Village, where the project site is located, is an alternative habitat for the National Important Puzi Estuary Wetland. During high tide, when the coastal wetland and Puzi River are inundated, waterbirds, mainly Scolopacidae and Charadriidae, will move inland to the fishpond in the east. Therefore, we selected the time three hours before and after the high tide on the spring tide or medium tide of the month to use 8x to 10x binoculars to observe the birds along the route, supplemented with the chirping sound identification, to record the species and quantity of all birds we saw and heard.

(2) Survey period

December 21 to 23 and 26 to 27, 2022

January 9 to 13, 2023

February 6 to 9 and 23, 2023

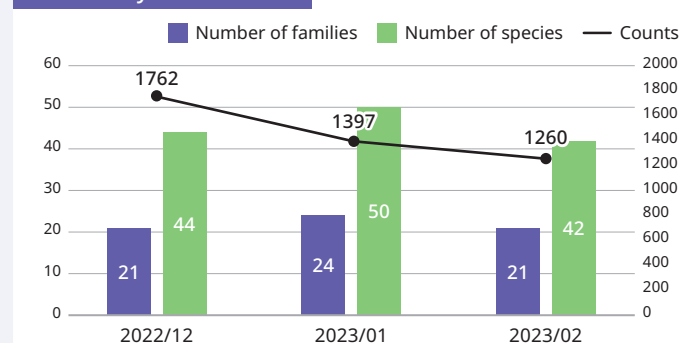
Conduct monthly on-site bird and bat surveys

II. Overall Survey Results

During the survey period, a total of 26 families and 59 species of birds, totaling 4,419 birds, were recorded within the scope of the survey, and Ardeidae, Hirundinidae, and Recurvirostridae accounted for the most families in the records. In terms of bird species composition, there are 31 species of resident birds (including migratory birds with resident individuals) (accounting for 53%) and 28 species of migratory birds (accounting for 47%).

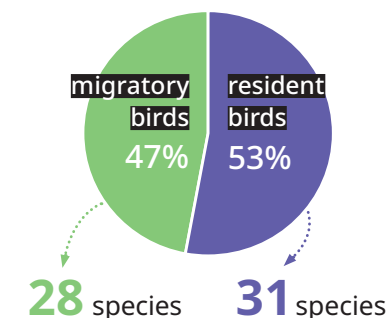
According to the waterbird group list of eBird published by the Taiwan Biodiversity Research Institute, Ministry of Agriculture, there are 32 species of waterbirds (accounting for 54%) with 2,767 counts (63%). The dominant species are black-winged stilt (457 counts), chlidonias hybrida (300 counts), and recurvirostra avosetta (290 counts). For land birds, the dominant species are hirundo tahitica (491 counts), sparrow (201 counts), and riparia chinensis (158 counts).

Bird Survey and Statistics



✓ 26 families and 59 species of birds, totaling 4,419 birds.

🐦 In terms of bird species composition



✓ 32 species of waterbirds



Dongshih Fishery and Electricity Symbiosis Field in Chiayi

The plan surveys a total of three protected species, including level I endangering protected species black-faced spoonbill and level II precious and rare protected species sternula albifrons and elanus caeruleus. Among the protected species, the black-faced spoonbill recorded the most with 10 individuals, while all other protected species only recorded one count. In addition, there were four endemic subspecies, including the black drongo, house swift, Chinese bulbul, and Tawny prinia.

✓ a total of **3** protected species and **4** endemic subspecies

including

Black-faced spoonbill

level I endangering protected species

Sternula albifrons

level II precious and rare protected species

Elanus caeruleus

Black drongo

House swift

Chinese bulbul

Tawny prinia



Survey month		2022/12	2023/01	2023/02	Total of the survey
Protected species	Level I (species/count)	0/0	0/0	1/13	1/13
	Level II (species/count)	2/2	1/3	1/1	2/6
Endemic subspecies (species/count)		3/14	3/30	3/30	4/74

III. Bird Ecological Analysis

In the most recent five years, there are only a total of 1,259 entries of observation records after 2020 in the eBird database, and we obtained the data for March 2023. Use the maximum single quantity of each category in the records of each year and calculate the average after having the sum to calculate the analysis result of the ecological background value of each category.

Category		Black-faced spoonbill	Waders	Anatidae	Ardeidae	Laridae	Other waterbirds
	Description of groups	Including platalea leucorodia	Recurvirostridae, haematopodidae, charadriidae, scolopaciidae, and rostratulidae	Anatidae	Ardeidae	Laridae	Black-crowned Night Heron, rallidae, jacanidae, podicipedidae sp., and phalacrocoracidae
Ecological background value (count/time)	Scope of the project site	0	60.3	26.3	12.7	23.0	11.3
	Scope of survey	3.3	89.0	51.7	72.7	31.7	18.7
	Scope of survey for the plan in the eBird database	0	38.0	50.5	52.8	93.5	14.8

IV. Countermeasures for Ecological Maintenance

1. The site selection process avoided ecologically sensitive fishponds, including black-faced spoonbills or Anatidae habitats.
2. Reduce PV arrangements and take the initiative to reserve a fishpond for compensation as a near-natural ecological area.
3. Lower the placement height of PV panels to align with the surrounding forests to reduce the visual impacts on waterbirds nearing the fishpond, committing to minimizing the impact.
4. Preserve the topsoil and seeds (chenopodium glaucum) of the project site before the construction. After the end of the construction, adopt the compensation measures to re-plant the seeds to restore regional vegetation for the embankment of the fishpond on the water side.

Beimen Fishery and Electricity Symbiosis Field in Tainan

I. Waterbird Ecological Monitoring

The main ecological issue is bird flocks in the fishpond areas in Beimen District, Tainan City. The ecological monitoring plan focuses on bird flocks. The monitoring targets during the construction are proposed based on the survey results in the initial planning period and the project site establishment project, and corresponding response measures are adopted for the monitoring results to minimize the effects of the construction on the surrounding environment.



Waterbird Ecological Monitoring Targets for Fishpond Areas in Beimen District, Tainan

NO.	Monitoring items	Monitoring methods
1	Immediate reporting of protected species or species of concern	For circumstances that occur at the construction area during the course of the construction, make evaluations and provide recommendations on whether to adjust the construction schedule or other response measures.
2	Monitor the changes in time of bird flocks during construction	Collect the survey results before the construction and compare the number and species composition of bird flocks before, during, and after the construction. It is expected that the number of bird flocks may decrease during the construction. However, the highlight is to monitor when the bird flocks return and the returning circumstances. Compare whether the changes are due to the effect of the construction or regional changes through areas with no construction.
3	Monitor the use of fishponds by waterbirds during high tide	Confirm whether Keliao is continuously used by the protected species saundersilarus saundersi.
4	Confirm the bird usage and habitat preference of different types of fishery and electricity symbiosis project sites	Assess the impact of PV facilities on birds, whether they prefer to use specific structures or are related to the operation method, and provide reference suggestions for operation and management improvement based on the bird's preference results.

Beimen Fishery and Electricity Symbiosis Field in Tainan

II. Monitor Time and Space Changes of Bird Flocking

The monitoring plan is located in the Keliao Section, Baoji Section, Yonglong Section, and Xidiliao Section (Sanliaowan Subsection) in Beimen District, Tainan City. The area is an offshore fishpond environment and extended habitats for waterbirds. The emergence and activities of birds are related to breeding behaviors, mainly forage in fishponds or fishponds with low management.

Waterbird flocks in the area are affected by the fishpond management method and the tide, and they do not use fixed specific areas. Therefore, waterbird flock surveys adopt the line transect method and the counting flocks method.

J&V Energy referred to bird survey lists, migration attributes, and species identification in accordance with the "2023 Checklist of Birds of Taiwan" published by the Taiwan Wild Bird Federation in 2023. In addition, the list of protected species referred to the List of Protected Land Animal Species published by the Council of Agriculture, Executive Yuan, in 2019. In addition to species and quantity statistics, congregation changes were also analyzed by guilds. According to the taxon and habitat preferences of waterbirds, they are mainly divided into six guilds.

Waterbird group and taxon			
No.	Coastal cluster taxon	Taxon included	Preferred habitat
A	Anatidae, podiceps and podicipediformes, and cormorant	Anatidae, podicipedidae sp., and cormorant	Deeper waters
B	Ardeidae and threskiornithidae	Ardeidae and threskiornithidae	Various habitats, such as forests, wetlands, river courses, banks, and fishponds
C	Rallidae, rostratulidae, jacanidae, and alcedinidae	Rallidae, rostratulidae, jacanidae, and alcedinidae	Various habitats, such as wetlands, river courses, thickets, and fishponds.
D	Waders	Recurvirostridae, haematopodidae, haematopodidae, and scolopacidae	Wetlands, river courses, fishponds, and other habitats
E	Laridae	Laridae	Wetlands and fishponds
F	Seabirds	Fregatidae and other seabirds	The ocean outside the seawall, open water wetlands, and fishponds

Beimen Fishery and Electricity Symbiosis Field in Tainan

III. Analysis of Bird Flock Changes

Waterbird surveys provide baseline data for ecological monitoring and before-after comparison. By setting transects inside and outside the project site and establishing the waterbird diversity and flock composition background within the scope of the project site before the PV development, we can make comparisons during and after PV construction. The transect records of waterbirds in the control group outside the scope of the project site can be used as a reference for the fluctuations of wild bird volume in the macro environment to assess whether PV development has changed the number or structure of waterbirds in the fishpond.

(1) Survey period



From October 2021 to September 2023, water bird surveys were conducted once a month.

The basic information of the waterbird survey results is hereby compiled and presented, and the flocking characteristics of migratory waterbirds of concern in the southwest coastal areas are analyzed. Only waterbirds within the fishponds were included in the data analysis, while land birds and survey data not within the scope of fishponds were excluded.

(2) Seasonal Changes of Waterbird Flock Composition

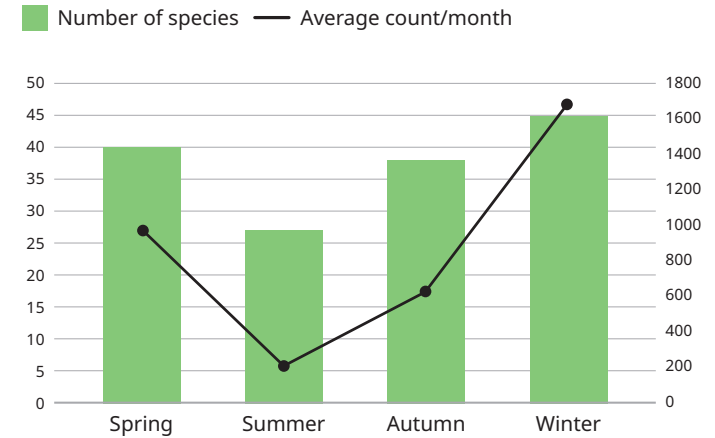
The seasonal report includes the survey results for seasons one to eight (24 months). The migratory birds' migration season is divided into winter migratory bird season (November to February next year), spring transit season (March to April), summer migratory bird season (May to July), and autumn transit season (August to October). This plan includes the survey for a total of seven complete migratory birds' migration seasons.

A total of 22,269 counts of 50 species of 10 families were recorded within the scope of Beimen Fishery and Electricity Symbiosis and the surrounding control group. The waterbird species and the number in the winter migratory bird season are the highest, and the waterbird species and the average number of water birds in the summer migratory bird season are far lower than those of the other three seasons.



A total of **22,269** counts of **50** species of **10** families were recorded.

Survey on the number of migratory birds in each season



	Spring	Summer	Autumn	Winter
Number of species	40	27	38	45
Average count/month	967.3	207.5	620.0	1,679.3

Beimen Fishery and Electricity Symbiosis Field in Tainan

IV. Overall Survey Results

(1) Summer (July to September)

The Company regularly conducts ecological monitoring in summer every year. According to our investigation, summer is usually the season with fewer waterbird species. However, the summer monitoring in the past two years has found that bird species have increased instead of decreasing. Compared with the same period (S4 and S8), the number of families increased by 1, representing an increase of 14%. The number of migratory bird species and large flocks has increased, and the number of species and taxons has increased. The species composition of waterbirds has also changed slightly. The number of birds decreased by 92 counts, representing a decrease of 23.8% from S4 and S8.



Season	Cycle	Investigation results	Protected species records
S4	Monthly average of each season	<p>✓ A total of 29 species of 7 families were recorded during the survey of this season, with a monthly average of 386 counts of shorebirds each season.</p> <ul style="list-style-type: none"> • Scope of the survey: Mainly the environment of abandoned salt fields and fishpond • From the breeding season in S4 to the autumn transit season, the species composition of shorebirds changed slightly. The transit birds sporadically transit through the surveyed environment. The summer breeding birds born in 2023 are mostly independent of their parent birds. The surrounding shallot field attracted a large number of transit birds to gather due to irrigation, which is one of the features of shorebirds in the shallot field environment in Beimen during transit. However, it is not a fishpond environment and is not included in the survey records. 	<p>✓ A total of 2 protected species were recorded in the survey this season, the precious and rare level 2 protected birds sternula albifrons and thalasseus bergii.</p>
S8	Monthly average of each season	<p>✓ A total of 28 species of 8 families were recorded during the survey of this season, with a monthly average of 294 counts of shorebirds each season.</p> <ul style="list-style-type: none"> • Scope of the survey: Mainly the environment of abandoned salt fields and various fishponds • S8 is entering the transit season of autumn migratory birds; the records of the species of transiting migratory birds and large flocks increased, the number of species and taxons increased, and the species composition of waterbirds also changed slightly. 	<p>✓ A total of 1 protected species were recorded in the survey this season, the precious and rare level 2 protected birds sternula albifrons.</p>



Beimen Fishery and Electricity Symbiosis Field in Tainan

(2) Winter (October to December next year)

The Company regularly conducts ecological monitoring in winter every year. After investigation, it was found that in the past two years, the number of birds in S9 has decreased by 166 counts compared to S5 due to the change in landform, representing a decrease of 22.6%.

The bird composition of the ecological monitoring area at the Beimen Project Site in Tainan is as follows:

- (1) Common resident birds in plains: sparrows, Chinese bulbul, spotted dove, and javan myna
- (2) Transit and winter shorebirds: mainly ardeidae, terns, and waders

This survey focuses on shorebirds as the monitoring target. The shorebird survey results are presented as follows.

Season	Cycle	Investigation results	Protected species records
S5	Monthly average of each season	<p>✓ A total of 37 species of 8 families were recorded during the survey of this season, with a monthly average of 734 counts of shorebirds each season.</p> <ul style="list-style-type: none"> • Scope of the survey: Mainly the environment of abandoned salt fields and fishpond • From the autumn transit season in S5 to the winter migratory bird season, the species composition of waterbirds changed slightly, the number of birds increased on a monthly basis, and the number of winter migratory birds became more frequent on a monthly basis. 	<p>✓ A total of 2 protected species were recorded in the survey this season, the precious and rare level 2 protected birds sternula albifrons and saundersilarus saundersi.</p>
S9	Monthly average of each season	<p>✓ A total of 28 species of 7 families were recorded during the survey of this season, with a monthly average of 568 counts of shorebirds each season.</p> <ul style="list-style-type: none"> • Scope of the survey: Mainly the environment of abandoned salt fields and fishpond • S9 is the winter season for winter migratory birds. The species composition of the survey is also mainly composed of winter migratory birds. Except for the drying ponds in the fishpond environment, the rest of the fishponds are mostly converted to normal breeding operations with higher water levels. This survey covers mostly small-scale winter waders. 	<p>✓ A total of 1 protected species were recorded in the survey this season, the level 3 protected birds numenius arquata.</p>

Beimen Fishery and Electricity Symbiosis Field in Tainan

V. Countermeasures for Ecological Maintenance

After the assessment and survey, the Company found that the birds do not gather or stay in the same area due to differences in their habits. Most of the bird flocks are for foraging factors. During the construction period, a shallow ditch was reserved as a shelter for waterbirds. In addition, the bottom soil of the fishpond was kept moist to reduce dust hazards and maintain the ecological environment and biological habitat.

Ecological environment maintenance operations are regularly conducted at development project sites, and short-, mid-, and long-term goals are set.

Ecological Maintenance Plans and Actions

Short-term	To maintain the protection of the ecological environment, we have established an environment monitoring system at project sites to regularly inspect the ecological environment around the project sites.
Mid-term	Regularly evaluate the circumstances of project sites during the development stage and set possible environmental impacts as default to carry out the ecological compensation of the surrounding environment.
Long-term	Conduct ecological impact assessment and ecological design during the development stage and take measures (i.e. actively restoring habitats and establishing environmental protection mechanisms) after completion to strengthen local participation.



07

Friendly Workplace



MATERIAL TOPIC: TALENT CULTIVATION 90

7.1 TALENT SELECTION, RECRUITMENT, CULTIVATION AND TRAINING 91

7.2 EMPLOYEE RIGHTS AND INTERESTS AND REMUNERATION AND WELFARE 100

MATERIAL TOPIC: OCCUPATIONAL SAFETY AND HEALTH 107

7.3 VALUE OCCUPATIONAL SAFETY AND HEALTH 108



Material Topic Talent cultivation

Sustainability Topic

Talent cultivation

Corresponding GRI Indicators

Custom Topics

Importance to J&V Energy

Talent cultivation is one of the keys to sustainable corporate operation. Through comprehensive education, training and competency development, we built a diversified training system to cultivate employees' professional capabilities so as to improve corporate competitiveness.



Effects and Impacts

Economic Effects and Impacts

Establish a comprehensive cultivation system and provide premium training courses to facilitate the improvement of employees' professional skills, allowing employees to continue to learn and improve outside of work. We attract and retain outstanding talents and enhance the perception of stakeholders to create a diverse and multi-functional smart workplace.

Human Rights Effects and Impacts

Professional cultivation and training can enhance the competitiveness and career development of employees.

Policy/Strategy

J&V Energy has formulated its education and training management regulations, established a comprehensive cultivation system and diverse training courses, offered general knowledge courses from time to time, and hired external lecturers to teach management training courses in order to achieve the goal of a learning organization and sustainable corporate development.

Goals and Targets

Short-term Goals (2-3 years)

- Complete routine new employee training.
- Add management training courses.

Mid-term Goals (3-5 years)

- Diversify internal education and training courses.
- Increase the training hours of all employees.

Long-term Goals (over 5 years)

- Continue to construct a comprehensive career map and learning blueprint and continue to cultivate management talents so as to make arrangements for the sustainable development of the Company in advance.

Management Evaluation System

The number of hours of employee education and training will be included in the annual department performance targets and individual performance targets.

Performance and Adjustment

Employees can accumulate training hours by participating in various education and training. At the end of the year, employees can obtain the total hours from human resources and use them in performance evaluation. In addition, the Human Resources Team of the General Operation Department regularly examines employees' in-class responses and after-class feedback. At the end of the year, a questionnaire is used to collect employees' thoughts and expectations on education and training. The results of the questionnaire are used to plan education and training courses for the following year.

Preventive or Remedial Measures



The human resources department encourages employees who fail to achieve the set education and training targets and announces various course information in advance so that employees can reserve time for classes. In addition, we also collect external course and lecturer information from multiple sources to diversify internal education and training courses and increase the education and training hours of all employees.

7.1 Talent Selection, Recruitment, Cultivation and Training

Human Rights Policy and Management

Upholding the principles of “respect human rights” and “employment of qualified personnel,” we adhere to various internationally recognized human rights standards in the implementation of human rights policies, including workplace equality, safe and healthy workplace, and harmonious labor-management relations. We are committed to building a healthy and safe work environment. Furthermore, to fulfill our commitment to protecting human rights, we have clearly stated the protection of employees’ human rights in our “Work Rules,” “Regulations Governing Sexual Harassment Prevention,” and other internal rules.

The employment policy of human resources is based on human rights and protects the equal working rights and interests of employees regardless of gender, ethnicity, religion or other factors. The Company has established relevant complaint and consultation channels in the event of harm to labor rights and is able to provide an effective and appropriate grievance mechanism in a timely manner to ensure the equality and transparency of the grievance process, taking good care of the physical and mental health of employees.

Legal Compliance	Labor Standards Act, Employment Service Act, Act of Gender Equality in Employment, Sexual Harassment Prevention Act, and Occupational Safety and Health Act	
Human Rights Protection	We formulate and implement various human rights policies in accordance with the OECD principles and internationally recognized human rights standards, including the UN Universal Declaration of Human Rights, the United Nations Global Compact, and the ILO Declaration on Fundamental Principles and Rights at Work.	
Implementation of Equality	We prohibit child labor and forced labor, eliminate employment discrimination, uphold workplace equality, establish safe and healthy workplaces, promote harmonious labor-management relations, respect employees’ freedom of association, assist employees in maintaining physical and mental health and work balance, and conduct awareness-raising campaigns on gender equality and human rights.	

In 2023, there was no child labor, no discrimination, and no forced and compulsory labor, and we implemented J&V Energy’s human rights policy and practices:

1. Provide relevant legal compliance matters during the pre-service training for new employees and for in-service employees.
2. No discrimination in employee recruitment, training, and employment processes
3. Provide a safe and healthy work environment
4. Assist employees in maintaining physical and mental health and prohibit forced labor

To ensure the implementation of labor human rights and to comply with the “Labor Standards Act” and the “Act of Gender Equality in Employment” of the Republic of China, we occasionally examine the implementation of child labor and underage workers, forced labor, sexual harassment, labor-management communication, and freedom of expression, and other issues.

Workplace Sexual Harassment Prevention

To protect the Company's employees, job applicants, or service personnel from sexual harassment in the work and service environment, we adopted appropriate preventive, corrective, disciplinary, and handling measures. To protect the rights, interests, and privacy of the party involved, we established the regulations according to the Act of Gender Equality in Employment, Regulations for Establishing Measures of Prevention, Correction, Complaint and Punishment of Sexual Harassment at Workplace, and Sexual Harassment Prevention Act.

The Company has established a Sexual Harassment Complaint Investigation Committee composed of labor representatives and management representatives to handle sexual harassment complaints. The Complaint Investigation Committee has one chairperson, who is also the chairperson of meetings. If the chairperson is unable to host the meeting due to other causes, he/she may appoint another member to act on his/her behalf. There shall be three to five members, and the female representatives of the Committee shall be no less than half of the members, and a single gender shall be no less than one-third of the members; experts and scholars may be engaged as members subject to the requirements.

Employee Sexual Harassment Compliant Handling Channel



- During the investigation of a sexual harassment incident, depending on the physical and mental condition of the party involved, the Company may take the initiative to refer the person to or provide psychological counseling, medical and legal assistance.
- There shall be no inappropriate differentiated treatment against persons who complain, inform, denounce, file a lawsuit, testify, provide assistance, or otherwise participate in the act during the investigation, investigation, or trial procedures of a sexual harassment case.

Complaint Channel	Acceptance unit
Complaint hotline: (02)2657-0355 #7995 E-mail: 885@jv-holding.com	Human Resources Team, General Operation Department

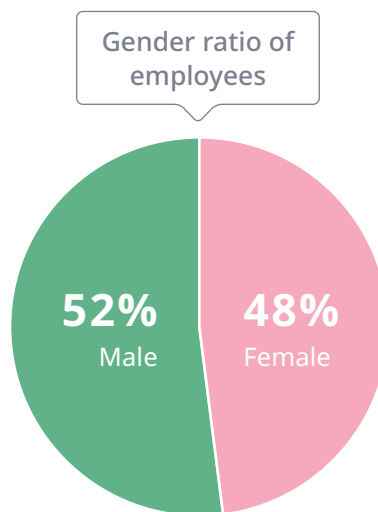
Human rights education and training

Training item	Number of people trained	Training fee (NT\$)
Workplace unlawful infringement education and training	69	0

Employee Structure

As of the end of 2023, J&V Energy had a total of 118 employees, including full-time and part-time employees and three non-employee workers who were appointed as professional consultants.

Type and Number of Employees in 2023			
Type	Female	Male	Total number
Number of employees	57	61	118
Number of official employees	57	61	118
Number of temporary employees	0	0	0
Number of full-time employees	56	61	117
Number of part-time employees	1	0	1
Number of employees with no guaranteed hours	0	0	0
Remarks: 1. Part-time jobs: The Company's part-time employees are cleaning personnel. 2. The table adopts the number of people/full-time equivalent method for calculation.			



Types and Number of Non-employee Workers in 2023		
Worker type	Contractual relationship with the Company	Total number of workers
Professional consultants	Appointment	3
Remarks: 1. Statistical area: Taipei Headquarters 2. The statistics in the table are as of December 31, 2023.		

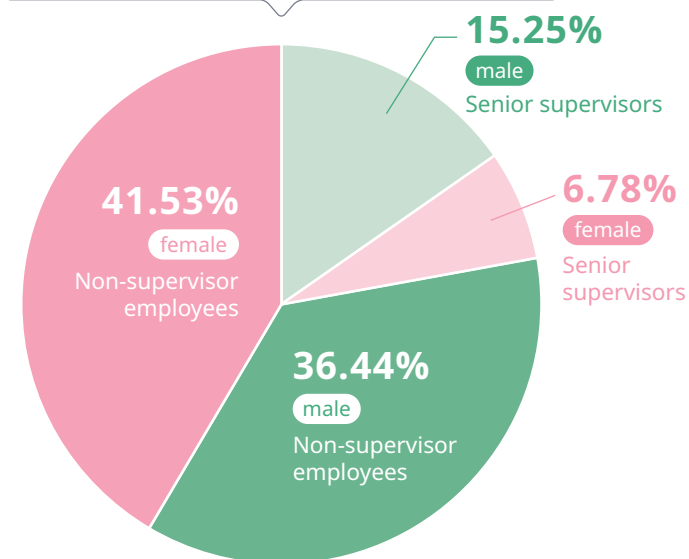
Local Management Employment Ratio

J&V Energy focuses on local operation, actively establishes harmonious relationships with local communities, and ensures the employment stability of employees; therefore, the personnel recruited are mostly local residents in Taiwan. In 2023, there are a total of 26 senior supervisors above the level of Senior Manager, and there are 18 males and 8 females; the male supervisor ratio was approximately 69.23%, and the female supervisor ratio was approximately 30.76%. All of them are local residents of Taiwan.

Distribution of Employees Position in the Most Recent Three Years

Year			2021	2022	2023
Item/gender		Age	Number of persons	Number of persons	Number of persons
Senior supervisors	Male	Under 30 years old	0	0	1
		30–50 years old	10	13	14
		Above 50 years old	3	1	3
	Female	Under 30 years old	0	0	0
		30–50 years old	4	6	8
		Above 50 years old	1	1	0
Total number of supervisors			18	21	26
Non-supervisor employees	Male	Under 30 years old	5	7	12
		30–50 years old	7	16	27
		Above 50 years old	1	1	4
	Female	Under 30 years old	7	9	20
		30–50 years old	21	25	28
		Above 50 years old	0	1	1
Total number of non-supervisor employees			41	59	92
Total number of official employees			59	80	118

Distribution by grade and gender in 2023



Remarks:

1. The Company's senior supervisor is defined as a senior supervisor above the level of Assistant Vice President
2. The number of persons in the table is as of December 31, 2023

Recruitment and Retention

New Employee Recruitment Rate

In 2023, the number of new employees of J&V Energy was 57 persons, and the total recruitment rate was 48.31%. Due to the Company's expansion and development in recent years, the number of new employees in 2023 increased significantly.

Overview of New Employees in the Most Recent Three Years							
Year		2021		2022		2023	
Age	Gender	Number of persons	Recruitment rate (%)	Number of persons	Recruitment rate (%)	Number of persons	Recruitment rate (%)
Under 30 years old	Male	2	3.39	4	5.00	8	6.78
	Female	8	13.56	6	7.50	11	9.32
30-50 years old	Male	7	11.86	18	22.50	16	13.56
	Female	10	16.98	11	13.75	15	12.71
Above 51 years old	Male	2	3.39	0	0.00	6	5.08
	Female	0	0.00	1	1.25	1	0.85
Total number of new employees		29		40		57	
Total number of employees		59		80		118	
Total recruitment rate (%)		49.15		50.00		48.31	

Remarks:

1. The number of persons in the table is as of December 31, 2023
2. The number of new employees includes those who resigned midway.
3. Male (female) employee recruitment rate for the age group = number of new male (female) employees of the age group of the year/total number of persons at the business location at the end of the year
4. Total recruitment rate = number of new employees of the year/total number of persons at the business location at the end of the year

Employee Turnover Rate

In 2023, the number of employees who left J&V Energy was 19, and the total turnover rate was 16.1%. Compared with the total turnover rate in 2022, the total turnover rate decreased by 7.65%, and the retention rate reached 82.5%. To improve employees' cohesion, allow them to show their value, improve employees' will to stay, actively provide guidance for employees with poor performance, and reduce turnover rate, the Company provides generous bonuses, welfare, and salary adjustment ranges each year, understand employees' requirements through regular interviews, and provide duty rotation, function development, or job level promotion, and other plans to retain outstanding talents. Meanwhile, we also plan to implement a performance improvement plan, job rotation, and other arrangements for employees with poor performance to allow the Company and employees to achieve the purpose of performance improvement and reduce the turnover ratio due to impropriety.

Employee Resignation in the Most Recent Three Years							
Year		2021		2022		2023	
Age	Gender	Number of persons	Turnover rate (%)	Number of persons	Turnover rate (%)	Number of persons	Turnover rate (%)
Under 30 years old	Male	3	5.17	2	2.50	1	0.85
	Female	3	5.17	4	5.00	0	0.00
30-50 years old	Male	6	5.17	6	7.50	5	4.24
	Female	0	10.34	5	6.25	10	8.47
Above 51 years old	Male	0	0.00	2	2.50	1	0.85
	Female	0	0.00	0	0.00	2	1.69
Total number of employees resigned		15		19		19	
Total number of employees		58		80		118	
Total turnover rate (%)		25.86		23.75		16.10	

Remarks:

1. The number of persons in the table is as of December 31, 2023
2. Definition of the type of employees who left the Company: Resignation (self-applied or dismissed).
3. Male (female) employee turnover rate for the age group = number of resigned male (female) employees of the age group of the year/total number of persons at the business location at the end of the year
4. Total turnover rate = number of resigned employees of the year/total number of persons at the business location at the end of the year

Diversified Workplace

J&V Energy is committed to building a diverse and inclusive workplace, actively protecting equal employment opportunities for disadvantaged groups and relevant groups, and recruiting employees from the disadvantaged groups in compliance with the "Employment Service Act" and the "People with Disabilities Rights Protection Act." In 2023, the Company did not infringe upon the rights of Indigenous peoples.

Diverse Group Employment Distribution of Employees in the Most Recent Three Years

Year			2021	2022	2023
Item/gender	Age		Number of persons	Number of persons	Number of persons
Minority or disadvantaged groups	Male	Under 30 years old	0	0	0
		30-50 years old	0	1	1
		Above 51 years old	0	0	0
	Female	Under 30 years old	0	0	0
		30-50 years old	0	0	0
		Above 51 years old	0	0	0

Note: Minority or disadvantaged groups: The severity of the negative impact on groups with certain conditions or characteristics (e.g. economy, physiology, politics, and society) may be greater than general groups due to their organizational activities.

Talent cultivation and training

J&V Energy upholds a people-oriented spirit and values the functional development of each employee. It has established a comprehensive talent cultivation system and formulated the "Regulations for Education and Training" to plan for diverse cultivation courses by adopting the target of a learning organization and sustainable corporate development so as to allow employees to comprehensively learn and experience. Strengthening the competence and development of employees in all aspects and enhancing the competitiveness of the industry is also the cornerstone of sustainable corporate operation.

Education and Training Achievement in 2023

Total investment in education and training	Total training hours of all employees	Average training hours per employee
NT\$587,360	2,287 hours	19.38 hours

Employee Functional Education and Training

New Employee Education and Training	We provide new employees with courses on the Company's organization, management system, working environment, safety and health, sexual harassment prevention, and others to assist new employees in shortening the adjustment period and showing their capabilities as soon as practicable.
Internal Education and Training	We invite department supervisors and employees to open up courses with a wide range of contents, allowing employees to better understand the work of each department and fostering tacit understanding for teamwork.
Management Training Courses	External lecturers are hired to offer courses on time management and logical thinking. Case studies and role-playing methods are used to improve overall management efficiency and leadership skills.
External Education and Training	We encourage employees to participate in professional courses based on their work requirements and provide them with course subsidies to enhance their professional capabilities and thereby enhance the Company's industrial competitiveness.

External Training Courses

Course category	Number of courses	Total time (hour)	Number of participants
Workplace skills training	12	143.5	21
Occupational safety and health	7	148	20
Internal audit training	7	79	7
Corporate Governance Officer continuing education	3	18	3

Education and Training Photo



Education and Training Classification

Item/category		Management		Non-management		Direct employees		Indirect employees	
Unit/gender		Male	Female	Male	Female	Male	Female	Male	Female
Total number of persons	persons	19	8	42	49	0	0	61	57
Total training hours	hours	434	152	835	866	0	0	1,269	1,018
Average total training hours	hour/person	22.84	19	19.88	17.67	0	0	20.80	17.86
Training expenses	NT\$	115,101	47,821	278,285	146,153	0	0	393,386	193,974

Remarks:

1. (Total number of management personnel + total number of non-management personnel) = total number of persons at the business location.
2. (Total number of direct employees + total number of indirect employees) = total number of employees at the business location.



Fair Performance Management System

- I. Before the annual evaluation period, the supervisor of the department assists employees in setting their “annual work targets” and provides guidance to the employees to clearly understand the targets and work content.
- II. Department supervisors adopt the work achievements of employees during the evaluation period as the basis and record their general work performance for the evaluation. If an employee has exceptional or unsatisfactory performance, it shall be recorded in the “Performance Evaluation Form,” and the reason or an example shall be clearly stated.
- III. At the end of each year, department supervisors carry out the evaluation based on the “annual work targets” and actual performance by adopting fair and justifiable methods.
- IV. Human resources statistics and analysis of employees’ evaluation scores and performance grades are used as a reference for human resources-related operations (i.e. salary adjustment, job level and position promotion, and dividend subscription).

Security practices

The Company engaged a professional security institution (Taiwan Secom) for its security system, which adopts a comprehensive electronic management system to carry out remote management. There is no security personnel stationed at the Company, and there is no relevant security training and management.

Percentage of employees evaluated				
Item	Management	Non-management	Direct employees	Indirect employees
Percentage of male employees evaluated(%)	77.78	64.10	0.00	78.68
Percentage of female employees evaluated(%)	50.00	81.63	0.00	68.42

Note: If the percentage of employees evaluated is less than 100%, please specify the targets of exclusion and the reason (e.g. Chairman and new employee who joined the Company for less than three months).

7.2 Employee Rights and Interests and Remuneration and Welfare

Employee remuneration system

The Company adheres to the concept of profit sharing and joint growth with employees to attract, retain, cultivate, and motivate outstanding talents from all fields. Whether it is "salary" or "welfare," we offer packages more favorable than the regulations. We uphold the spirit of equal pay for equal work and gender equality and do not treat employees differently due to gender, ethnicity, religion, political stance, and marital status. We also regularly review government policies, economic conditions, peer payment standards, and international market survey reports and plan and adjust remuneration policies to ensure the Company's market competitiveness and care for internal remuneration fairness.

Regarding the remuneration standard of new employees, the salary level for recruitment is approved based on "education and background," "professional knowledge and skills," "professional qualifications," and "personal performance." After the employees are hired, the Company evaluates their performance every year, offers salary adjustment and promotion opportunities, and rewards employees for their hard work. It also provides employees with remuneration commensurate to their work performance. Special salary adjustments are given to outstanding talents with excellent performance in order to achieve a market-competitive salary level.

Currently, entry-level employees recruited by the Company are mainly divided into engineering personnel and administrative personnel, and salaries are offered based on their professional technical skills and duties, regardless of gender, age, or ethnicity.

Ratio of Entry-level Salary Standard to Local Salary in Taiwan by Gender in 2023		
Duty \ Gender	Male	Female
Engineering personnel	1.40	1.40
Administrative personnel	1.04	1.04

Remarks:

1. In 2023, the minimum wage stipulated by the government in Taiwan was NT\$26,400.
2. Local minimum wage ratio = minimum salary standard of the Company by gender/local minimum salary of plants

Remuneration Ratio

Employee salary growth is mainly based on promotion of position or job level, supplemented by regular salary adjustment. Every employee is J&V Energy's most important partner. We share our business performance with our employees. The business achievements are fully reflected in the overall employee remuneration to create a balance between the Company and its employees.

The average salary adjustment of J&V Energy has been increasing on a yearly basis. We are committed to improving the competitiveness of employees' salaries and creating a more equal salary structure to create a happy enterprise with multiple benefits.

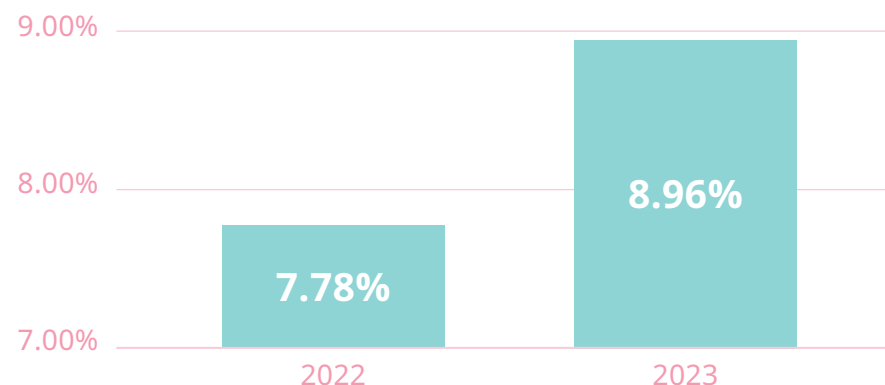
Remuneration Ratio of Non-manager Employees by Gender in 2023			Unit: NT\$ thousand
Item	Male	Female	Remuneration Ratio by Gender
Average salary of non-management full-time employees	1,169	828	1.34
Median salary of non-management full-time employees	706	526	
Total salary of non-management full-time employees	43,256	31,461	

Remarks:

1. Remuneration ratio by gender = median of salary of male employees/median of salary of female employees
2. Non-management full-time employees: all employees of the Company, excluding managers, part-time employees, short-term employees with an employment period of less than six months, and new or resigned employees with a salary payment period of less than six months

Salary Level of Non-management Full-time Employees		Unit: NT\$ thousand
Year	Median salary of non-management full-time employees	
2022	818	
2023	855	

Average salary adjustment trend



Total remuneration ratio in 2023		
Country/region	The ratio of the Company's highest-paid individual's annual total remuneration (excluding the highest-paid individual) to the median of employees' annual total compensation	The increase ratio of the Company's annual total remuneration of the highest-paid individual (excluding the highest-paid individual) to the annual total remuneration of employees
Taiwan	21.80	7.77

Remarks:

1. The Chairman is not considered the highest-paid individual unless the Chairman is concurrently the General Manager/CEO.
2. The formula for calculating the median ratio of annual remuneration: the annual salary of the individual with the highest annual salary of the year/the annual salary of the individual with the median annual salary of the year.
3. The formula for calculating the increase ratio of annual remuneration: the increase ratio of the annual salary of the individual with the highest annual salary of the year/the increase ratio of the annual salary of the individual with the median annual salary of the year.

Employee Care and Rights Protection



Quality Work Environment

At the labor-management meeting in June 2023, an employee proposed that due to the recent frequent occurrence of sexual harassment in the workplace and the increasing number of employees in the Company, relevant departments shall once again communicate with employees in terms of rejecting workplace sexual harassment and the internal sexual harassment complaint channels. The proposal was passed unanimously by all committee members and is planned and executed by the General Operation Department to strengthen the publicity of eliminating workplace sexual harassment and bullying so as to make J&V Energy a high-quality environment where everyone can work with peace of mind.



Generous Employee Welfare



To fulfill the responsibility to care for employees and protect their rights and interests and other welfare, J&V Energy established its Employee Welfare Committee according to the law for employees to elect members to manage the welfare money. The Committee established various subsidy standards and organized diverse employee activities based on employees' requirements, respected employees' freedom of association and rights granted by laws, and spared no efforts in providing unblocked labor-management communication channels, including labor-management meetings, annual employee interviews, and cross-department gatherings, in the hope of integrating all resources to jointly strive for the common goals.

Currently, J&V Energy has not established its labor union and has not signed a collective bargaining agreement. Labor-management meetings are held on a regular basis; however, we have not received the requirements to negotiate for a collective bargaining agreement so far. The Company holds labor-management meetings on a regular basis, and a total of four labor-management meetings were convened in 2023. Labor representatives and management representatives both account for 50%, complying with relevant regulations. The attendance rate of labor-management meetings reached 100%.

Comprehensive Employee Welfare

We put our employees first. While employees devote their hearts and minds to work to create profits for the Company, we also take on the responsibility of taking care of, caring for, and giving back to our employees. The Company provides a variety of welfare and has established the Employee Welfare Committee to be responsible for planning domestic and overseas trips, birthday dinners, and others to enhance the friendship between employees, improve cohesion between employees and the Company, and stimulate employees' sense of identity and cohesion with the Company so as to achieve the target of employee first.

Employee Welfare of J&V Energy		
Insurance welfare	Labor insurance	Group accident insurance
	Health Insurance	Group medical insurance
Subsidy welfare	Allowances and subsidies (marriage, childbirth, hospitalization, and funeral)	Employee in-service education and training Subsidies for domestic and overseas training
Dividend/share dividend	Employee bonus	
Bonus welfare	Bonuses and gifts for the three major festivals	Case development bonus
	Performance bonus	
System Welfare	Comprehensive education and training	Job rotation mechanism
	Annual promotion and salary adjustment	
Leisure welfare	Employee Welfare Committee provides travel subsidies	Domestic and foreign trips of employees
	Birthday activities and birthday gift money	Long vacation for three major festivals/ flexible commuting
	Afternoon tea from time to time	Provide comfortable nursery rooms
	Quarterly cross-department gatherings	J&V Energy's Family Day
	Massage service	Annual health inspection
	Year-end banquet/spring party	Company activities from time to time (watching ball games and beach cleaning)



J&V Energy Company
Trip Photo



Photos of Birthday
Celebrations and
Gatherings Held
by J&V Energy



Implementation of Unpaid Parental Leave

The Company arranges unpaid parental leave in accordance with the “Regulations Governing the Resignation and Unpaid Leave,” the “Gender Equality in Employment Act,” and the “Regulations for Implementing Unpaid Parental Leave for Raising Children.”

Unpaid Parental Leave Applications in the Most Recent Three Years									
Year	2021			2022			2023		
Gender/total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Number of employees qualified to apply for unpaid parental leave A	0	0	0	0	2	2	0	1	1
Number of employees applied for unpaid parental leave during the year B	0	0	0	0	2	2	0	0	0
Number of employees expected to be reinstated from unpaid parental leave during the year C	0	0	0	0	0	0	0	2	2
Number of employees reinstated from unpaid parental leave during the year D	0	0	0	0	0	0	0	1	1
Number of employees reinstated from unpaid parental leave in the previous year E	0	0	0	0	0	0	0	0	0
Number of employees reinstated from unpaid parental leave in the previous year and continued working for one year F	0	0	0	0	0	0	0	0	0
Reinstatement rate from unpaid parental leave of the year % (D/C)	-	-	-	-	-	-	-	50.00	50.00
Retention rate from unpaid parental leave of the year % (F/E)	-	-	-	-	-	-	-	-	-

Calculation method:

1. Number of employees to be reinstated = number of employees expected to be reinstated from unpaid parental leave during the year.
2. Number of employees retained in N (N) = number of employees reinstated in year N-1 and still in service on December 31, N.

Employee Retirement System and Implementation

To effectively manage the resignation process of employees and maintain the integrity of job handovers to facilitate the implementation of various businesses of the Company, the Company has formulated the “Regulations Governing the Resignation and Unpaid Leave.” The applicable requirements are as follows:

- (I) Voluntary resignation: An employee voluntarily resigns if he/she cannot continue their service for any reason.
- (II) Non-voluntary resignation: An employee who has been dismissed by the Company under Article 11 of the Labor Standards Act.
- (III) Removal from office: An employee who is dismissed as a punishment for violating Article 12 of the Labor Standards Act.
- (IV) Retirement: An employee voluntarily applies for retirement in accordance with Article 53 of the Labor Standards Act, or an employer initiates mandatory retirement in accordance with Article 54 of the Labor Standards Act.
- (V) Unpaid leave: An employee who is allowed to retain his/her position without being paid due to military service, childcare, or other special reasons with the approval of the responsible supervisor.

The Company complies with the “J&V Energy’s Regulations Governing the Resignation and Unpaid Leave,” the “Labor Standards Act,” and the “Labor Pension Act” when handling employee retirement matters.

Pension System and Its Implementation	
Pension System	New system
Applicable law	Labor Pension Act
Appropriation method	6% is appropriated according to the employee's level of insurance coverage to the personal account with the Bureau of Labor Insurance
Appropriation amount	The Group appropriated NT\$3,348 thousand in 2022; the Company appropriated NT\$4,252 thousand in 2023.
Employee Self-appropriation Status	In 2022, employees' self-appropriation amount was NT\$533 thousand, and the self-appropriation rate was 1%–6%. In 2023, employees' self-appropriation amount was NT\$834 thousand, and the self-appropriation rate was 1%–6%.

Minimum Notice Period for Operational Changes

In compliance with the government's Labor Standards Act and with reference to internationally recognized principles of basic labor human rights, J&V Energy has formulated work rules and relevant personnel management regulations to protect the legitimate rights and interests of employees.

J&V Energy complies with labor and employment laws and international standards, values labor human rights and occupational safety and health, strives to maintain a favorable, safe and healthy work environment, and bans tangible or intangible sexual harassment and discrimination in the workplace, including ethnicity, religion, skin color, nationality, gender, freedom of association, privacy, prohibition of forced labor, prohibition of child labor, and any improper employment. In addition, the Company attaches great importance to harmonious labor-management relations, and neither the Company nor suppliers force employees to work overtime.

To ensure the protection of the employees' working rights, the Company complies with the Labor Standards Act and the relevant laws and regulations. If the Company has major operational changes or intends to terminate an employment relationship, the labor contracts with employees will be terminated in accordance with the government's requirements. The notice periods are subject to the requirements in the following subparagraphs:

- I. A 10-day notice in advance for an employee who worked continuously for over three months but less than one year.
- II. A 20-day notice in advance for an employee who worked continuously for over one year but less than three years.
- III. A 30-day notice in advance for an employee who has worked continuously for over three years.

The Company's basic salaries are in accordance with the minimum wage of the Labor Standards Act, regardless of gender. However, remuneration is based on seniority, work performance, and other considerations, which may lead to differences in remuneration ratios for different positions. The annual remuneration ratio during the reporting period is shown in the table below:

Remuneration Ratio by Position	Number of persons		Remuneration ratio	
	Female	Male	Female	Male
Management	8	19	1	0.92
Non-management	49	42	1	1.25
Direct employees	0	0	–	–
Indirect employees	57	61	1	1.62

Remarks:

1. Male to female remuneration ratio (annual salary ratio): average annual salary of male in the category/average annual salary of female in the category
2. If there is a significant difference between the basic salary ratios between women and men, please explain the reason.

Salary Ratio by Position	Number of persons		Salary ratio	
	Female	Male	Female	Male
Management	8	19	1	0.84
Non-management	49	42	1	1.11
Direct employees	0	0	1	0
Indirect employees	57	61	1	1.22

Remarks:

1. Compare the average monthly salary of females with the average monthly salary of male

Material Topic Occupational safety and health

Sustainability Topic

Occupational safety and health

Corresponding GRI Indicators

GRI 403 Occupational Health and Safety

Importance to J&V Energy

Occupational safety and health is a topic that we and our stakeholders attach great importance to. We protect the health and safety of all employees and external suppliers and are committed to creating a "zero" occupational disaster work environment and strictly complying with occupational safety regulations.

Effects and Impacts

Economic Effects and Impacts

Establishing a sound occupational safety system and comprehensive occupational safety training can prevent and reduce occupational safety incidents and avoid the loss of human resources and production interruptions. Failure to duly implement occupational safety training and protect the personal safety of employees may lead to high medical and insurance expenses, compensation, legal litigation, and other expenses, which will affect the corporate image and result in negative press public opinion.

Human Rights Effects and Impacts

Providing a safe work environment can enhance employees' cohesion and enthusiasm for the Company. In the event of an industrial safety accident, the employee may be severely disabled and unable to work, which will affect their livelihood and cause harm to their health and safety.

Goals and Targets

Short-term Goals (2-3 years)

In compliance with the occupational safety laws and regulations, we have established an Occupational Safety and Health Committee to ensure the safety and health of employees, implemented operating environment testing, hired on-site nursing practitioners and physicians, promoted the four major programs, and executed illegal abuse program evaluations.

Mid-term Goals (3-5 years)

We plan to introduce an occupational safety system and obtain ISO 45001 certification to improve the Company's occupational safety and health mechanism.

Long-term Goals (over 5 years)

Build a sustainable, disaster-free and healthy workplace and make progress toward the goal of zero work-related injuries and zero occupational disasters.

Performance and Adjustment

The Occupational Safety and Health Office was just established in 2023; the first stage is to implement regulations, and this management policy is not adjusted.

Preventive or Remedial Measures

No effective preventive or remedial measures have been adopted for the major topic. In the future, we will enhance the issue through system certification planning in the future.



Policy/Strategy

Comply with laws and regulations related to occupational safety and health, establish favorable communication channels, and promote the full participation of employees. Provide employees with environmental safety and health awareness and sound environmental safety and health education and training and continue to create a safe, worry-free, and healthy workplace for employees.

Management Evaluation System

Investigate the occurrence rate of occupational disasters every month and continue to grasp the health classification data and working hours status.

Formulate the occupational accident reporting and handling process and reporting and handling methods and evaluate the incident for reporting or convene an examination meeting when an occupational disaster occurs.

7.3 Value Occupational Safety and Health

Occupational Safety and Health Management

Providing a safe working environment is our basic commitment to our employees, and we are committed to creating a safe, secure, and happy workplace. The ISO 45001 occupational safety management system has not yet been introduced. To establish a sound occupational safety management system, it is expected to establish the ISO 45001 occupational safety management system in 2024.

The Company complies with the occupational health and safety regulations, which cover the workplace, areas, equipment, and routine and non-routine

operations under the jurisdiction of J&V Energy, including all operating activities performed by external units and contractors (i.e. equipment repairers) who enter the areas under our jurisdiction. The total number of full-time employees of the Company is 118 persons; there are three non-employees. The number of persons from contractors is approximately 60-100 persons.

In response to the development trend of international safety and health management and in accordance with occupational safety and health regulations, the Company strictly complies with the following laws:

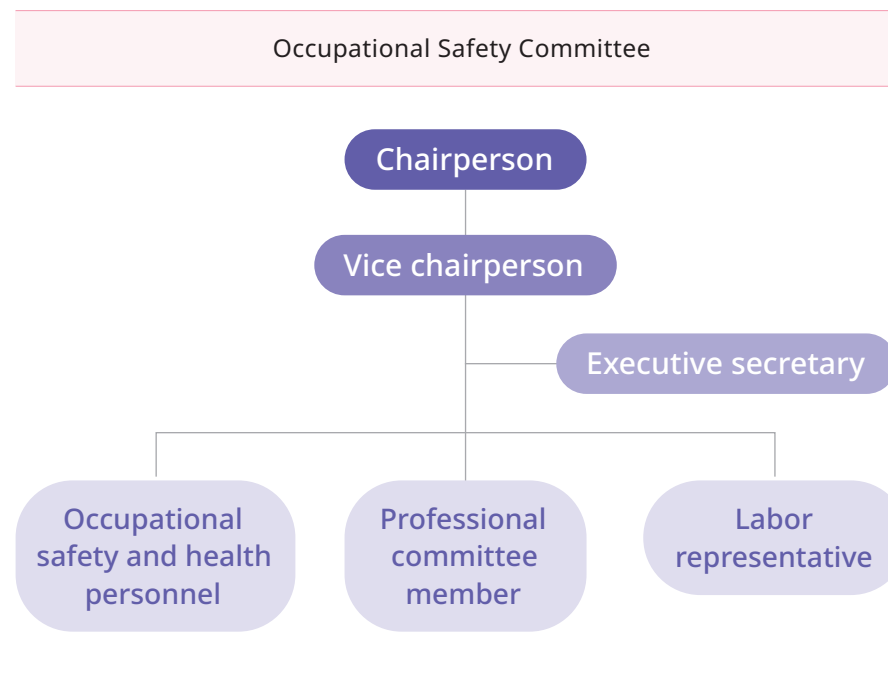
Occupational Safety and Health Act	
I	Promote four major plans as stated in Article 6-2 and Article 22 of the Occupational Safety and Health Act. In accordance with the Regulations of Labor Health Protection, occupational nursing practitioners and occupational physicians are hired to provide on-site services.
II	Paragraph 1, Article 12 of the Occupational Safety and Health Act: "For job sites where the central competent authority has stipulated permissible exposure limits, the employers shall ensure that laborers' hazard exposure is under the permissible level."
III	Paragraph 3, Article 12 of the Occupational Safety and Health Act: "Employers of job site designated by the central competent authority shall formulate a job site monitoring plan, and establish organizations or commission a job site monitoring agency approved by the central competent authority to carry out monitoring."
IV	Paragraph 4, Article 12 of the Occupational Safety and Health Act: "The employers shall publicly disclose and report to the central competent authority the monitoring plans and monitoring results referred to in the preceding paragraph. The central competent authority or a labor inspection agency may examine the plans and results."
V	Business units with Article 2-1 and paragraph 2, Article 6 applicable under Article 10 of the Occupational Safety and Health Act shall have an Occupational Safety and Health Committee in place.

Occupational Safety Committee

The Company has established the "Occupational Safety and Health Committee" in accordance with the provisions of the Occupational Safety and Health Act. The General Manager serves as the chairperson, and nine members are elected from among department supervisors and labor representatives. There are five labor representatives who are elected by employees, accounting for 55% of all members. The Occupational Safety and Health Committee meeting is convened quarterly for members to propose recommendations regarding safety policies formulated by the Company, jointly discuss with the management, coordinate and recommend occupational safety and health plans, and implement employee participation, consultation, and communication. With the goal of preventing occupational accidents and protecting the safety and health of employees, we held the first Safety Committee meeting in December 2023.

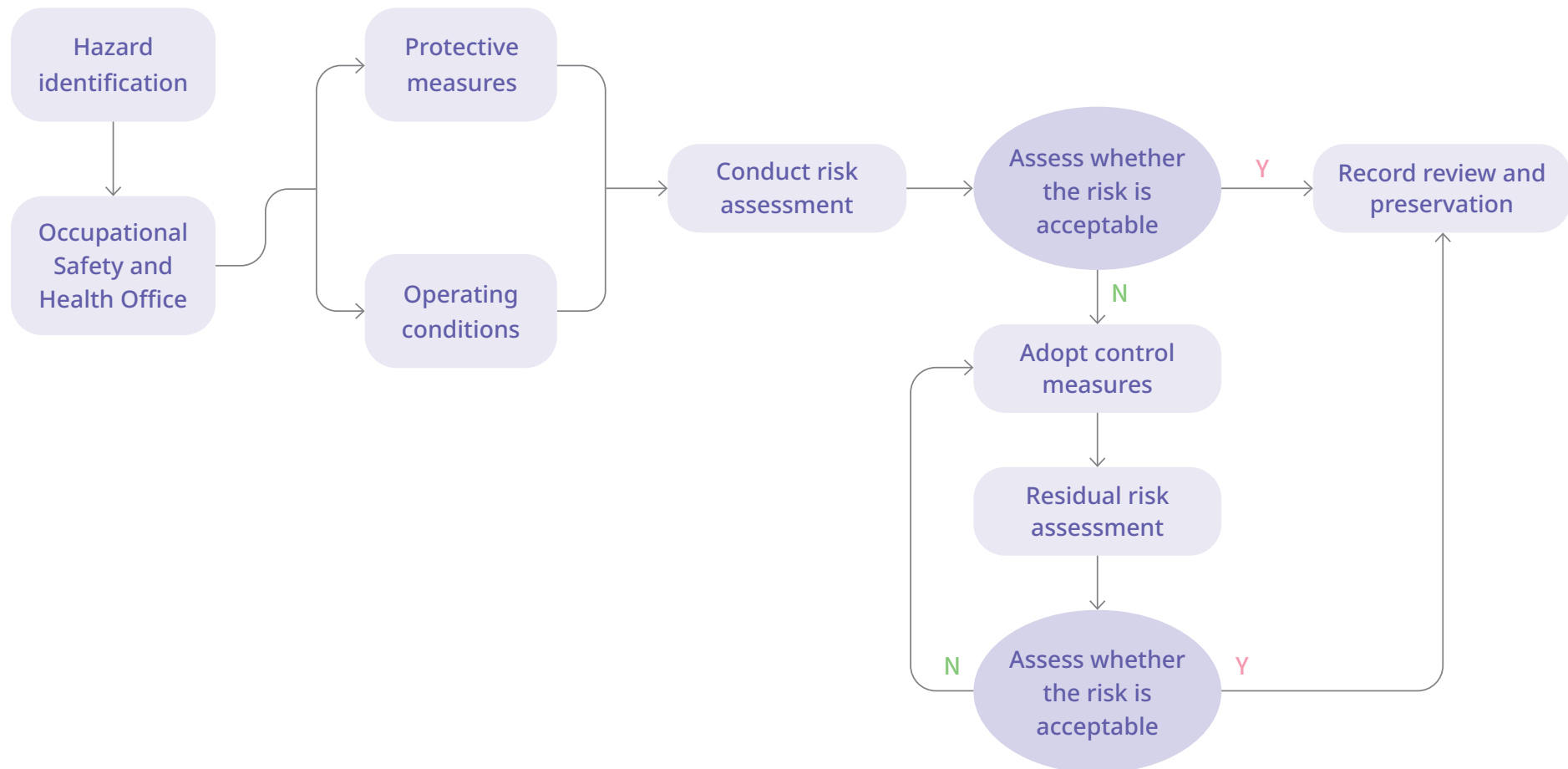
Department	License held
Occupational Safety and Health Office	Class A occupational safety and health affairs managers
Occupational Safety and Health Office	Class B occupational safety and health management personnel

The first Safety Committee meeting of the 1st session was held on December 18, 2023. The meeting mainly discussed the formulation of the Safety Committee Charter and reported the results of the occupational disaster investigation and the results of the environmental monitoring plan. In addition, the office planting plan to improve office air quality and the mechanism of internal disaster and illegal infringement reporting procedures were also discussed. Relevant measures and plans will be implemented after they are formulated. In 2024, regular meetings of the Safety Committee will be convened on a quarterly basis.



Hazard Identification and Risk Assessment

According to the provisions of ISO 45001:2018, J&V Energy conducted hazard identification and risk assessment for its business location in Taipei. Based on the environmental and regulatory aspects, it identified that the business location in Taipei is a low-risk workplace. In addition, the Company has not completed the assessment for other project sites. In the future, it will carry out a more comprehensive inventory of hazard identification and risk assessment. The ISO 45001 occupational safety management system has not yet been introduced. To establish a sound occupational safety management system, it is expected to introduce the ISO 45001 occupational safety management system in 2024.



Occupational Health Service

J&V Energy cares about the physical and mental health of all its employees, plans comprehensive health examinations that are more favorable than the regulations each year, and provides occupational nursing services to ensure that it can promptly track and grasp employees' physical and mental health, creating a safe work environment.

Occupational Safety Education and Training

As of 2023, no occupational safety and health-related training has been conducted. At the beginning of 2024, we plan to complete the grouping and training of fire management personnel and first-aid personnel, as well as the annual occupational safety and health education and training plan.

As the Occupational Safety and Health Office was established at the end of 2023, no project site training and other plans have been formulated. However, all on-site operators hold relevant licenses (roof operations supervisors and aerial work vehicle operators). In 2024, the Occupational Safety and Health Office will formulate management procedures for dedicated environmental safety and health personnel and arrange appropriate training courses for employees to receive training.

General Tale for the Number of Participants and Expenses of the Employee Health Inspection

General health inspection	
Number of participants	80 people
Inspection fee	NT\$10,000

The Company's employees are required to receive education and training related to occupational safety and health. The training statistics during the reporting period are shown in the table below:

Statistics on Occupational Safety and Health Training Items

Training item	Number of people trained	Training fee (NT\$)
Workplace unlawful infringement education and training	69	0

Remarks:

1. Include employees and non-employee workers whose work and/or workplace is controlled by the organization.
2. Non-employee workers whose work and/or workplace is controlled by the organization (i.e. security, cleaning personnel, construction personnel, and other contractors and subcontractors).
3. Occupational safety and health-related education and training include general training or training for specific occupational hazards and dangerous conditions.

Physical and Mental Health Improvement Activities

Health Improvement Activities	Content
Physical and Mental Health Consultation Services	<ul style="list-style-type: none"> We provide physical and mental health consultation in person and over the phone during on-site services by making appointments in advance and by arrangement with a nursing practitioner. We provide on-site services four times a month for two hours each time, and each person occupies about 30 minutes. Based on the analysis of on-site nursing practitioners and physicians, the Company evaluates employees' health inspection records, actively cares for employees based on the risk attribute, provides on-site services when necessary, and arranges interviews with employees to provide health guidance and care.
Workplace Violence Prevention Seminar	Risk assessment and needs investigation are carried out through the use of scale, appropriate treatment is made for laborers with risks, and lectures on the prevention of workplace violence are arranged to eliminate illegal infringement in the workplace.
Health Inspection and Care	We offer health inspections and care that exceed legal requirements. Our health inspection packages can be tailored to different factors such as age and high-risk health factors, and employees' family members are also eligible for participation.



J&V Energy Carbon Reduction Day

J&V Energy is committed to promoting various sports cultures in Taiwan. Sports and fitness are also an important driving force for sustainable development. The Company has established the "J&V Energy Carbon Reduction Day" internally and jointly organized the "J&V Energy Carbon Reduction Cup 3x3 Basketball Tournament" every year with the Company's professional basketball team, with full participation of all employees. The event invited five popular basketball stars of J&V Energy's professional basketball team, including Jiang, Yu-An, Gao, Jin-Wei, Zheng, Wei, Lu, Jie-Min, and Chen, Shiao-Rong, to join the carbon reduction action and engage in enthusiastic games with J&V Energy's employees. Meanwhile, we also organized a vegetarian banquet to take action in realizing green and low-carbon dining so as to respond to international environmental protection actions and contribute to the earth.



J&V Energy Badminton Club

In addition, the Company actively creates a “good work and good life” environment for employees and encourages the establishment of sports clubs to enhance the Company’s internal sports culture, develop basic physical fitness, and cultivate the spirit of cooperation. The badminton club was formed by a group of employees of the J&V Energy Group who are passionate about playing badminton. Through weekly practice, the club not only relieves work pressure but also helps to reduce the distance among colleagues in a relaxed and team-based atmosphere, thereby improving work focus, enthusiasm, and teamwork.



J&V Energy Sports Competition



There is a strong culture of sports within J&V Energy. We encourage our employees to exercise more to maintain their physical and mental health and positive work attitude, and their work efficiency increased, contributing to the Company’s cohesion and solidarity. We organize various sports events and activities to cultivate employees’ interest and habit of sports. The Welfare Committee held a laser gun shooting group competition. All employees were divided into groups for the competition. They persevered until the last moment to secure points, demonstrating their determination to fight hard, and the company-wide friendship was fully demonstrated at the moment.



Contractor Safety and Health Regulations

To protect the health and safety of contractors and construction personnel (including foreign workers, who must have a qualified work permit), J&V Energy has established the "Regulations for Contractor Safety and Health Management" for contractor management obligations to protect the rights and interests of contractors, ensure safety management, and regulate that relevant construction insurance shall be obtained and relevant education and training shall be completed before the entry for construction. In 2023, there were no occupational injuries or occupational safety incidents that occurred to contractors.

J&V Energy has formulated contractor management regulations for contractor management to control related hazards and risks. Summarized as follows:

Regulations for Contractor Safety and Health Management	
I	Assist relevant units in informing contractors of hazards before commencing work.
II	Supervise the contractor's safety and health education and training, review various operation applications, and impose fines and penalties for violations.
III	Conduct on-site safety and health audits.
IV	Cooperate with the reporting of major accidents and accident investigations by reporting online at https://isafe.osha.gov.tw/ .
V	Request the contractor to confirm and sign the "Contractor's Commitment to Safety, Health and Environmental Protection."
VI	Inform the contractor of the "workplace environment" and "possible hazards" and sign the hazard notice form.
VII	Supervise and control the access of the contractor's personnel.
VIII	Assist the contractor in the safety of machinery and equipment, and electricity consumption safety control.
IX	Designate personnel to negotiate with and contact the contractor for work and assist in supervising safety and health-related operations.

Occupational Disaster Statistics

J&V Energy values the work safety and health of its employees and complies with the occupational safety and health regulations according to the law. The occupational safety and health unit sets occupational safety and health management goals, provides employees with environmental safety and health knowledge, improves environmental safety and health education and training, and continues to create a safe and healthy workplace for employees. The Company aims at building a sustainable, disaster-free and healthy workplace and making progress toward the goal of zero work-related injuries and zero occupational disasters.

In 2023, there were no occupational injuries or occupational diseases that occurred to employees and non-employee workers of J&V Energy.

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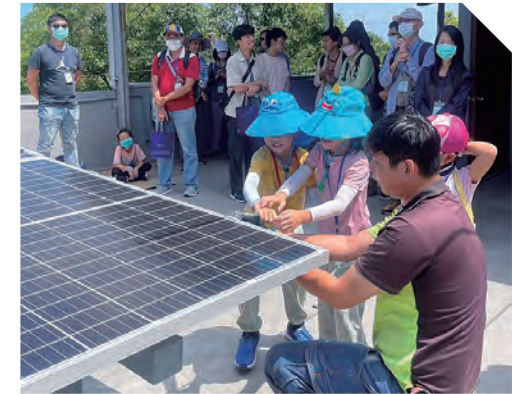
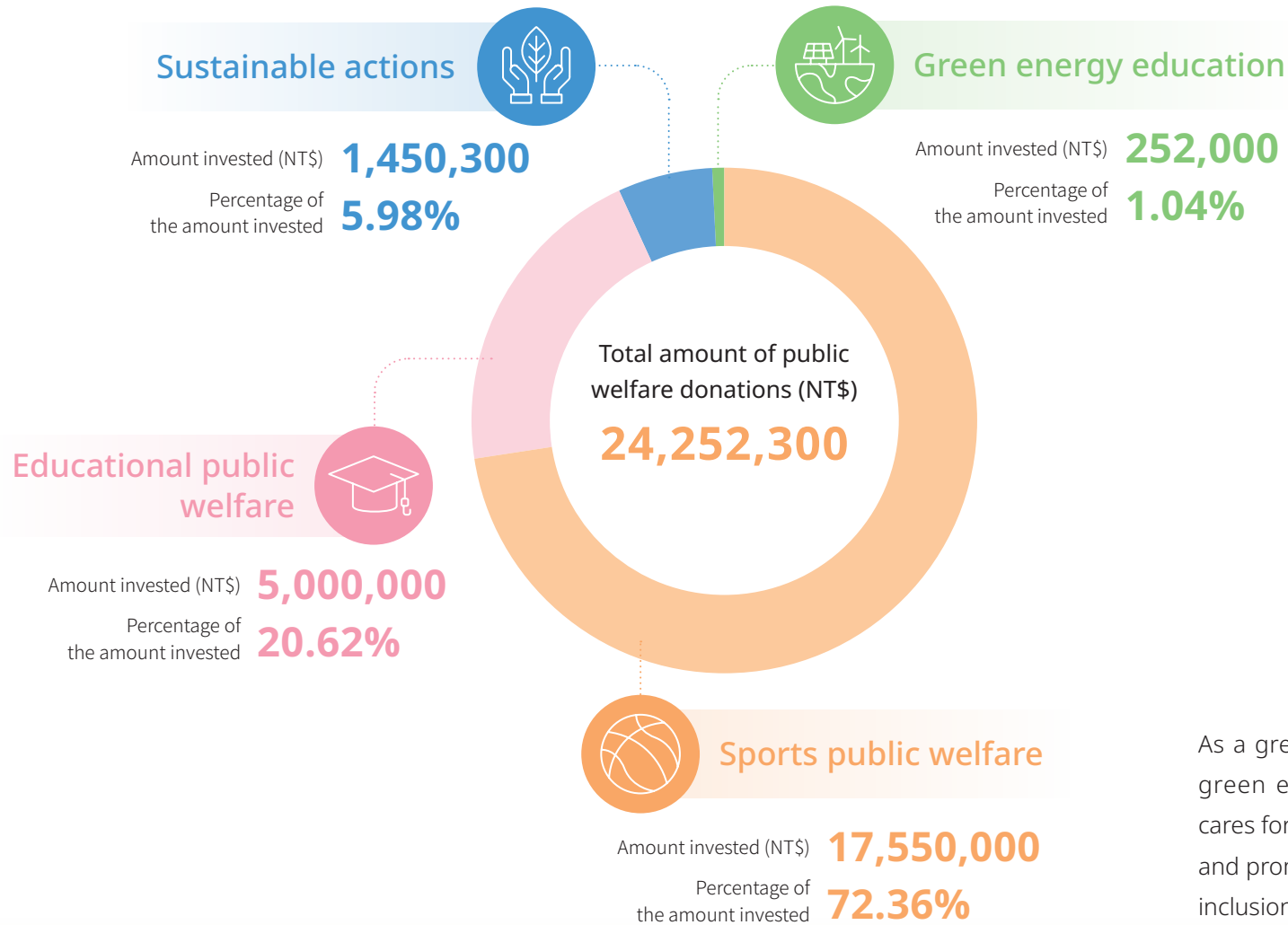
Happy Society



8.1 COMMUNITY ENGAGEMENT AND GIVING BACK
TO SOCIETY 116



8.1 Community Engagement and Giving Back to Society



As a green energy leader valuing the environment, green energy, sports, and education, J&V Energy cares for the disadvantaged, engages in communities, and promotes sports, health, and education for social inclusion and common goods.

Sustainability Rooting Plan Green Energy Knowledge Workshop Nurtures Warm Energy



The “J&V Energy Sustainability Rooting Plan” is the Company’s cross-field public welfare action. We cooperated with NGOs, schools, churches, and enterprises to reduce the electricity bill burden on disadvantaged groups by donating PV equipment in remote townships and cultivating children to become the seeds of sustainability through the “Green Knowledge Workshop.” The cumulative number of beneficiaries is **36,148 persons**, and the number of internal and external volunteers is **50 persons**.

Since its inception in 2017, the J&V Energy Sustainability Rooting Plan has been successfully implemented in **15 locations** across Taiwan, including Tainan, Orchid Island, Taitung, Hualien, Yunlin, and New Taipei City, and the locations include rural churches, aboriginal mother tongue schools, workshops of tribes, elderly canteens, hunter schools, and ecological farms. The total cumulative installed capacity of solar devices donated by us is **26kW**, with an annual power generation capacity of **30,000 kWh**, which can reduce **16 tons** of carbon every year, equivalent to planting **900 trees**. The public welfare power plants not only save electricity expenses for rural schools and disadvantaged groups every month but also achieve the benefits of carbon reduction and environmental protection.



Clean the Beach to Love the Earth Protect the Green Ecosystem

According to the “Top Ten Facts About Plastic Pollution” released by EARTHDAY.ORG, 8 million tons of plastic are discharged into the ocean every year, which is enough to fill every inch of coastlines around the world. J&V Energy has been focusing on the Taoyuan area. It engaged in the development and construction of PV and energy storage project sites, selected Taoyuan City as the home stadium of J&V Energy’s professional basketball team, and subscribed for beach cleaning for the 500m coastline on the north shore of Yongan Fishing Harbor in Taoyuan before the Earth Day (April 22). The Chairman took the

lead and encouraged all employees around Taiwan to participate in beach cleaning. With the cooperation and concerted efforts of all employees, a total of 200 kg of marine debris (i.e. bottles, Styrofoam, discarded fishing nets, plastics, and gas buckets) was cleaned out to help restore the coastline to a tidy state.



Zero Gap in Talent Cultivation between Urban and Rural Areas Promote the CountryEDU Charity Foundation

Due to the inequality of resources between urban and rural areas, many local high school/vocational high school students cannot implement the learning profile of the 108 syllabus under the current education system. Seeing the problem, J&V Energy immediately launched the “Education Public Welfare Program.” The program began its operation at the beginning of 2021, providing systematic courses for schools in urban and rural areas. As of the end of 2023, there were **11**

cooperating counties/cities, with **24 high schools/vocational high schools** in cooperation, and **15 celebrity lectures** were organized, reaching **5,561 high school/vocational high school students**.



Support Children's Soccer from An Early Age

We have implemented the children's football public welfare project for seven consecutive years. In 2023, we expanded our title sponsorship to the "J&V Energy National Elementary School Mini Soccer Game" to encourage families to join hands in cultivating the habit of exercise, thereby enhancing the health of the citizens and realizing a new sustainable life.



J&V Energy Hearing Impaired Cavaliers Baseball Team Encourage the Underprivileged to Pursue Their Dreams Bravely

In 2020, J&V Energy cooperated with the Chinese Taipei Deaf Sports Federation to form the "J&V Energy Hearing Impaired Cavaliers Baseball Team." We continue to support the operation of the team and hope that such players will not leave any change behind, exhibit their special talents on the court, and create diverse dreams of life.

J&V Energy Sponsored Black Panther Flag to Support Student Sports

J&V Energy has been sponsoring the “CTBC Black Panther Flag Cup National High School Baseball Tournament” since 2022 to provide young athletes with an opportunity to express themselves and challenge their limits, hoping to help more students with passion take root in sports. Through the combination of renewable energy and baseball games, we allow more audiences to learn about our determination and efforts made to support sports.



Establish Professional Basketball Team Bring on the Upsurge in Sports

In 2021, J&V Energy made an investment and announced the establishment of the Taoyuan Leopards Professional Basketball Team to inject the corporate culture of innovation, liveliness, and edutainment into the team's operations. The team joined the Taiwan Beer Basketball Association in 2023 to participate in the game by using the name “Taiwan Beer Leopard” to create a brand-new situation by joining forces, leading Taiwan's basketball to new heights.

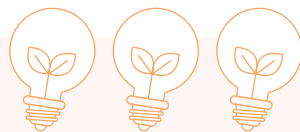
In addition, the introduction of NBA star Dwight Howard in 2022 caused a “Whirlwind of Dwight” all over Taiwan. 15,000 tickets for a single game were sold out within seven minutes from the start of sales. The number of real-time viewers watching Howard's debut on YouTube was even more than 180,000 persons. This year, we even brought in NBA star DeMarcus Cousins to show the world Taiwan's basketball.

Tens of thousands of fans of the professional basketball team came to know the parent company, J&V Energy, and indirectly understood the importance of renewable energy to a sustainable environment. Through sports, we exerted our sustainable influence and jointly realized our corporate vision of a low-carbon, sustainable homeland.



Invite Basketball Fans to Join Earth Hour Created the Largest Scale in Taiwan

Since 2022, together with its Taoyuan Leopard professional basketball team, J&V Energy has participated in the world's largest public welfare carbon reduction initiative, EarthHour, on home games to allow the world to witness our efforts made to protect the earth. We will also continue to practice ESG and corporate sustainability spirit to drive the development of green energy through actions.



Take Root in Sports Take Wenshan Elementary School in Beimen, Taiwan, to Watch A Basketball Game

J&V Energy focuses on local communities and promotes local education through sports. We invited 50 teachers and students from Wenshan Elementary School in Beimen District, Tainan City, where our project site is located, to visit Taoyuan to watch the basketball game at the home stadium of the Leopard professional basketball team, and they even took photos with Dwight Howard. At the same time, a green action class was held at Wenshan Elementary School, where an employee of the Energy Engineering Department of J&V Energy became the “black panther” and gave a friendly introduction to renewable energy and solar power generation. The children were also invited to be creative and draw pictures of solar power and wind power to express their basic understanding of renewable energy. A student showed his/her creativity and drew a cute leopard baby playing basketball. In their heart, J&V Energy has become a part of their lives.



Operate TUMT Taipei Leopards Futsal Team under the Professional Basketball Model

The “TUMT Taipei Leopards” futsal team sponsored by J&V Energy made futsal flourish in Taiwan through practical actions. The professional basketball model was introduced to allow more potential players to show their brilliance on the court.

J&V Energy Sponsored Why Not Me Facilitate the Development of Diverse Sports

J&V Energy has long been investing efforts in sports public welfare projects. We sponsored the “Why Not Me” to encourage student-athletes to strive for more honors and take root in youth sports by supporting youth sports events in the hope of integrating green energy and sports through more forms in the future to implement corporate social responsibility through diverse angles.



J&V Energy Supports Diverse Sports Sponsored the Taiwan Strongman Game & Strength Festival

After three years of pandemic, the public pays more attention to their health. In the post-pandemic era, many people return to the gym to regain their exercise and training habits. There are also large-scale international fitness, bodybuilding, and power competitions.

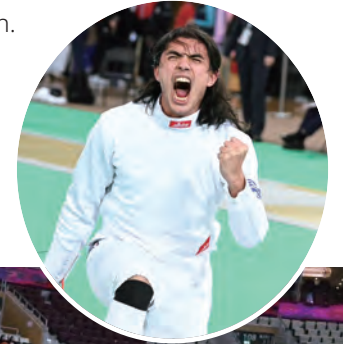


J&V Energy has long been supporting sports. By sponsoring the SBD Taiwan Strongman Game & Strength Festival, it provides a stage for domestic bodybuilders and fitness athletes to demonstrate their physical fitness.

J&V Energy Sponsored the Epee Players to Help Achieve Their Dreams

In Taiwan, rapier (epee) is not a popular sport. There are fencing clubs in many elementary schools, middle schools, and high schools. The children practice fencing from childhood, but in the end, due to lacking resources, fencing can only become a hobby, and they cannot make it to world-class competitions.

Seeing sports as an important driving force for sustainable development, J&V Energy believes that every athlete has an equal right to pursue their dreams; therefore, it supported Ge Yi-Lu, who is currently the number one epee player in Taiwan. Ge Yi-Lu is half Taiwanese and half French. He fell in love with fencing while living in Taiwan; therefore, he gave up his French identity and represented Taiwan team. J&V Energy sponsored his competition funds, hoping that the young athlete will shine, pursue his dreams, and stand in the world-class arena.



Appendix 1 GRI Standards Comparison Table

Statement of Use	J&V Energy Technology Co., Ltd. has reported the information quoted in the GRI content index for the year ended December 31, 2023 in accordance with the GRI Standards.
GRI 1 Use	GRI 1: Foundation 2021
Applicable GRI Industry Standards	None

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
1. Organization and Reporting Practices					
GRI 2 General Disclosures 2021	2-1	Organization Details	3.1 About J&V Energy	33	
	2-2	Entities Included in the Organization's Sustainability Report	About the Report	5	
	2-3	Reporting Period, Frequency, and Contact	About the Report	5	
	2-4	Restatements of Information	About the Report	5	
	2-5	External Guarantee/Assurance	About the Report	5	
2. Activities and Workers					
GRI 2 General Disclosures 2021	2-6	Activities, Value Chain, and Other Business Relationships	3.1 About J&V Energy	33	
	2-7	Employees	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	2-8	Non-employee Workers	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
3. Governance					
GRI 2 General Disclosures 2021	2-9	Governance Structure and Composition	3.2 Corporate Governance	39	
	2-10	Nomination and Selection of the Highest Governance Body	3.2 Corporate Governance	39	

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
GRI 2 General Disclosures 2021	2-11	Chairperson of the Highest Governance Body	3.2 Corporate Governance	39	
	2-12	Role of the Highest Governance Body in Overseeing the Impact Management	2.1 Sustainability Strategy Management	22	
	2-13	Person in Charge of Impact Management	2.1 Sustainability Strategy Management	22	
	2-14	Role of the Highest Governance Body in Sustainability Reporting	2.1 Sustainability Strategy Management	22	
	2-15	Conflicts of Interest	3.2 Corporate Governance	39	
	2-16	Communicating Key Material Events	3.2 Corporate Governance	39	
	2-17	Group Intelligence of the Highest Governance Body	3.2 Corporate Governance	39	
	2-18	Performance Evaluation of the Highest Governance Body	3.2 Corporate Governance	39	
	2-19	Remuneration Policy	3.2 Corporate Governance	39	
	2-20	Remuneration Determination Process	3.2 Corporate Governance	39	
	2-21	Annual Total Remuneration Ratio	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
4. Strategies, Policies and Practices					
GRI 2 General Disclosures 2021	2-22	Statement of Sustainable Development Strategy	Letter from the Chairman	3	
	2-23	Policy Commitment	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	2-24	Incorporation of Policy Commitment	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	2-25	Procedures for Remediating Negative Impacts	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	2-26	Mechanisms for Seeking Advice and Raising Concerns	3.5 Ethical Corporate Management	53	
	2-27	Legal Compliance	3.5 Ethical Corporate Management	53	
	2-28	Membership in Associations	3.1 About J&V Energy	33	

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
5. Stakeholder Engagement					
GRI 2 General Disclosures 2021	2-29	Stakeholder Engagement Policy	2.2 Stakeholder Engagement	24	
	2-30	Collective Bargaining Agreement	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
Topic-specific Standards: 200 Series (Economic Topics)					
Economic performance					
GRI 201 Economic Performance Topic Disclosure 2016	201-1	Direct Economic Value Generated and Distributed by the Organization	3.3 Operational Performance	49	
	201-2	Financial Impacts and Other Risks and Opportunities Arising from Climate Change	5.1 Climate Change Management	62	
	201-3	Defined Benefit Plan Obligations and Other Retirement Plans	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
	201-4	Financial Assistance Received from the Government	3.3 Operational Performance	49	
Market position					
GRI 202 Market Position Topic Disclosure 2016	202-1	Ratio of Salary of Entry-level Personnel and Local Minimum Wages by Gender	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
	202-2	Ratio of Employment of Local Residents as Senior Management	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
Indirect economic impacts					
GRI 203 Indirect Economic Impact Topic Disclosure 2016	203-1	Development and Impacts of Investments in and Supportive Services of Infrastructure	8.1 Community Engagement and Giving Back to Society	116	
	203-2	Significant Indirect Economic Impacts	8.1 Community Engagement and Giving Back to Society	116	
Procurement practices					
GRI 204 Procurement Practices Topic Disclosure 2016	204-1	Proportion of Expenditure for Procurement from Local Suppliers	4.1 Sustainable Supply Chain Management	57	

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
Anti-corruption					
GRI 205 Anti-corruption Topic Disclosure 2016	205-1	Business Locations with Anti-corruption Risk Assessments Performed	3.5 Ethical Corporate Management	53	
	205-2	Communication and Training on Anti-corruption Policies and Procedures	3.5 Ethical Corporate Management	53	
	205-3	Confirmed Incidents of Corruption and Actions Adopted	3.5 Ethical Corporate Management	53	
Anti-competitive Behavior					
GRI 206 Anti-competitive Behavior Topic Disclosure 2016	206-1	Legal actions for Anti-competitive Practices, Anti-trust, and Monopoly Practices	—		None
Taxation					
GRI 207 Tax Topic Management Disclosure 2019	207-1	Tax policy	3.3 Operational Performance	49	
	207-2	Tax Governance, Control and Risk Management	3.3 Operational Performance	49	
	207-3	Stakeholder Communication and Management for Tax-related Issues			Non-disclosure
GRI 207 Tax Topic Disclosure 2019	207-4	Country-by-country Report			None
Topic-specific Standards: 300 Series (Environmental Topics)					
Supplies					
GRI 301 Materials Topic Disclosure 2016	301-1	Weight or Volume of Materials Used	5.5 Materials and Waste Management	74	
	301-2	Use of Recycled and Reused Materials	5.5 Materials and Waste Management	74	
	301-3	Recycled Products and Their Packaging Materials	5.5 Materials and Waste Management	74	

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
Energy					
GRI 302 Energy Topic Disclosure 2016	302-1	Energy Consumption within the Organization	5.2 Energy Management	70	
	302-2	Energy Consumption Outside of the Organization	5.2 Energy Management	70	
	302-3	Energy intensity	5.2 Energy Management	70	
	302-4	Reduce Energy Consumption	5.2 Energy Management	70	
	302-5	Reduce the Energy Requirements of Products and Services	5.2 Energy Management	70	
Water and Effluents					
GRI 303 Water and Effluents Topic Management Disclosure 2018	303-1	Mutual Effects of Sharing Water Resources	3.3 Water Resource Management	49	
	303-2	Management of Drainage-related Impacts	3.3 Water Resource Management	49	
GRI 303 Water and Effluents Topic Disclosure 2018	303-3	Water Withdrawal	3.3 Water Resource Management	49	
	303-4	Water Discharge	3.3 Water Resource Management	49	
	303-5	Water Consumption	3.3 Water Resource Management	49	
Biodiversity					
GRI 304 Biodiversity Topic Disclosure 2016	304-1	Business Locations Owned, Leased, or Managed by the Organization or Neighboring Locations within Environmental Protection Zones or Other Areas of High Biodiversity Value	6.1 Ecological Monitoring Planning and Survey	81	
	304-2	Significant Impacts of Activities, Products and Services on Biodiversity	6.1 Ecological Monitoring Planning and Survey	81	
	304-3	Habitats Protected or Restored	6.1 Ecological Monitoring Planning and Survey	81	
	304-4	Species in the Habitats Affected by the Operations that are Included in the IUCN Red List of Threatened Species and the National Conservation List	6.1 Ecological Monitoring Planning and Survey	81	

71	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
Emissions					
GRI 305 Emissions Topic Disclosure 2016	305-1	Direct (Scope 1) GHG Emissions	5.3 GHG Emission Management	71	
	305-2	Indirect (Scope 2) GHG Emissions from Energy	5.3 GHG Emission Management	71	
	305-3	Other Indirect (Scope 3) GHG Emissions	5.3 GHG Emission Management	71	
	305-4	GHG Emission Intensity	5.3 GHG Emission Management	71	
	305-5	GHG Emission Reduction	5.3 GHG Emission Management	71	
	305-6	ODS Emissions	5.3 GHG Emission Management	71	
	305-7	NOx, SOx, and Other Significant Gas Emissions	5.3 GHG Emission Management	71	
Waste					
GRI 306 Waste Topic Management Disclosure 2020	306-1	Waste Generation and Significant Waste-related Impacts	5.5 Materials and Waste Management	74	
	306-2	Management of Significant Waste-Related Impacts	5.5 Materials and Waste Management	74	
GRI 306 Waste Topic Disclosure 2020	306-3	Waste Generation	5.5 Materials and Waste Management	74	
	306-4	Disposal and Removal of Waste	5.5 Materials and Waste Management	74	
	306-5	Direct Disposal of Waste	5.5 Materials and Waste Management	74	
GRI 306 Effluents and Waste Topic Disclosure 2016	306-3	Major Leakage	5.5 Materials and Waste Management	74	
Supplier environmental assessment					
GRI 308 Supplier Environmental Assessment Topic Disclosure 2016	308-1	Select New Suppliers Using Environmental Criteria	4.1 Sustainable Supply Chain Management	57	
	308-2	Negative Environmental Impacts in the Supply Chain and Actions Adopted	4.1 Sustainable Supply Chain Management	57	

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
Topic-specific Standards: 400 Series (Social Topics)					
Labor relation					
GRI 401 Employment Topic Disclosure 2016	401-1	New Employees and Resigned Employees	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	401-2	Welfare Provided to Full-time Employees (Excluding Temporary or Part-time Employees)	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
	401-3	Parental leave	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
Labor/Management Relations					
GRI 402 Labor/Management Relations Topic Disclosure 2016	402-1	Minimum Notice Period for Operational Changes	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
Occupational safety and health					
GRI 403 Occupational safety and health Topic Management Disclosure 2018	403-1	Occupational Safety and Health Management System	7.3 Value Occupational Safety and Health	108	
	403-2	Hazard Identification, Risk Assessment, and Incident Investigation	7.3 Value Occupational Safety and Health	108	
	403-3	Occupational Health Service	7.3 Value Occupational Safety and Health	108	
	403-4	Worker Participation, Consultation, and Communication on Occupational Safety and Health	7.3 Value Occupational Safety and Health	108	
	403-5	Worker Training on Occupational Safety and Health	7.3 Value Occupational Safety and Health	108	
	403-6	Worker Health Improvement	7.3 Value Occupational Safety and Health	108	
	403-7	Prevention and Mitigation of Occupational Safety and Health Impacts Directly Linked to Business Relationships	7.3 Value Occupational Safety and Health	108	
GRI 403 Occupational Safety and Health Topics Disclosure 2018	403-8	Workers Covered by the Occupational Safety and Health Management System	7.3 Value Occupational Safety and Health	108	
	403-9	Occupational Injury	7.3 Value Occupational Safety and Health	108	
	403-10	Occupational Disease	7.3 Value Occupational Safety and Health	108	

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
Training and education					
GRI 404 Training and Education Topic Disclosure 2016	404-1	Average Hours of Training Per Year Per Employee	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	404-2	Programs for Upgrading Employee Competencies and Transition Assistance Programs	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	404-3	Percentage of Employees Receiving Regular Performance and Career Development Reviews	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
Employee diversity and equal opportunity					
GRI 405 Employee diversity and equal opportunity Topic Disclosure 2016	405-1	Diversification of Governance Body and Employees	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
	405-2	Female-to-male Basic Salary and Remuneration Ratio	7.2 Employee Rights and Interests and Remuneration and Welfare	100	
Non-discrimination					
GRI 406 Non-discrimination Topic Disclosure 2016	406-1	Discrimination Incidents and Improvement Actions Adopted by the Organization	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
Freedom of association and collective bargaining					
GRI 407 Freedom of association and collective bargaining Topic Disclosure 2016	407-1	Business Locations or Suppliers that May Face Risks Related to Freedom of Association and Collective Bargaining	—		None
Child labor					
GRI 408 Child Labor Topic Disclosure 2016	408-1	Significant Risks of the Use of Child Labor by Business Locations and Suppliers	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
Forced or compulsory labor					
GRI 409 Forced or Compulsory Labor Topic Disclosure 2016	409-1	Business Locations and Suppliers with Significant Risks of Forced or Compulsory Labor	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
Security practices					
GRI 410 Security Practices Topic Disclosure 2016	410-1	Security Personnel Receiving Training in Human Rights Policies or Procedures	7.1 Talent Selection, Recruitment, Cultivation and Training	91	

GRI Standard Category/Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
Rights of indigenous peoples					
GRI 411 Rights of Indigenous Peoples Topic Disclosure 2016	411-1	Incidents Involving Violations of Indigenous Peoples' Rights	7.1 Talent Selection, Recruitment, Cultivation and Training	91	
Local communities					
GRI 413 Local Communities Topic Disclosure 2016	413-1	Operating Activities with Local Community Engagement, Impact Assessment, and Development Plan	8.1 Community Engagement and Giving Back to Society	116	
	413-2	Operating Activities with Significant Actual or Potential Negative Impacts on Local Communities	8.1 Community Engagement and Giving Back to Society	116	
Supplier social assessment					
GRI 414 Supplier Social Assessment Topic Disclosure 2016	414-1	Select New Suppliers Using Social Criteria	4.1 Sustainable Supply Chain Management	57	
	414-2	Negative Social Impacts in the Supply Chain and Actions Adopted	4.1 Sustainable Supply Chain Management	57	
Public policy					
GRI 415 Public Policy Topic Disclosure 2016	415-1	Political Donation	—		Non-disclosure
Customer health and safety					
GRI 416 Customer Health and Safety Topic Disclosure 2016	416-1	Assess the Impacts of Products and Services on Health and Safety	4.2 Customer Safety and Product Management	59	
	416-2	Incidents of Violation of Health and Safety Regulations Related to Products and Services	4.2 Customer Safety and Product Management	59	
Marketing and labeling					
GRI 417 Marketing and Labeling Topic Disclosure 2016	417-1	Requirements for Product and Service Information and Labeling	4.2 Customer Safety and Product Management	59	
	417-2	Incidents of Non-compliance with Regulations Related to Product and Service Information and Labeling	4.2 Customer Safety and Product Management	59	
	417-3	Incidents of Non-compliance Regulations Related to Marketing and Broadcasting	4.2 Customer Safety and Product Management	59	
Customer privacy					
GRI 418 Customer Privacy Topic Disclosure 2016	418-1	Verified Complaints of Abuse of Customer Privacy or Loss of Customer Data	4.2 Customer Safety and Product Management	59	

Material Topic Disclosure

GRI No.	Issue	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
GRI 3: Material Topics 2021	Management Policy	3-1	Process for Determining Material Topics	2.3 Identification and Analysis of Material Topics	28	
GRI 3: Material Topics 2021	Management Policy	3-2	List of Material Topics	2.3 Identification and Analysis of Material Topics	28	
Material topic: Supplier Environmental Assessment (GRI 308)						
GRI 3: Material Topics 2021	Management Policy	3-3	Material Topic Management	4. Sustainability Partner, the Caring J&V Energy	55	
GRI 308	Supplier Environmental Assessment Topic Disclosure 2016	308-1	Select New Suppliers Using Environmental Criteria	4.1 Sustainable Supply Chain Management	57	
		308-2	Negative Environmental Impacts in the Supply Chain and Actions Adopted	4.1 Sustainable Supply Chain Management	57	
Material Topic: Energy (GRI 302)						
GRI 3: Material Topics 2021	Management Policy	3-3	Material Topic Management	5. Environmental Friendliness, with J&V Energy's Sincerity	60	
GRI 302	Energy Topic Disclosure 2016	302-1	Energy Consumption within the Organization	5.2 Energy Management	70	
		302-2	Energy Consumption Outside of the Organization	5.2 Energy Management	70	
		302-3	Energy intensity	5.2 Energy Management	70	
		302-4	Reduce Energy Consumption	5.2 Energy Management	70	
		302-5	Reduce the Energy Requirements of Products and Services	5.2 Energy Management	70	
Material Topic: Waste (GRI 306)						
GRI 3: Material Topics 2021	Management Policy	3-3	Material Topic Management	5. Environmental Friendliness, with J&V Energy's Sincerity	60	
GRI 306	Waste Topic Management Disclosure 2020	306-1	Waste Generation and Significant Waste-related Impacts	5.5 Materials and Waste Management	74	
		306-2	Management of Significant Waste-Related Impacts	5.5 Materials and Waste Management	74	

GRI No.	Issue	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
GRI 306	Waste Topic Management Disclosure 2020	306-4	Waste Generation	5.5 Materials and Waste Management	74	
		306-5	Disposal and Removal of Waste	5.5 Materials and Waste Management	74	
		306-3	Direct Disposal of Waste	5.5 Materials and Waste Management	74	
GRI 306	Effluents and Waste Topic Disclosure 2016	306-3	Major Leakage	5.5 Materials and Waste Management	74	
Material Topic: Biodiversity (GRI 304)						
GRI 3: Material Topics 2021	Management Policy	3-3	Material Topic Management	6. Ecological Friendliness, J&V Energy Cares	77	
GRI 304	Biodiversity Topic Disclosure 2016	304-1	Business Locations Owned, Leased, or Managed by the Organization or Neighboring Locations within Environmental Protection Zones or Other Areas of High Biodiversity Value	6.1 Ecological Monitoring Planning and Survey	81	
		304-2	Significant Impacts of Activities, Products and Services on Biodiversity	6.1 Ecological Monitoring Planning and Survey	81	
		304-3	Habitats Protected or Restored	6.1 Ecological Monitoring Planning and Survey	81	
		304-4	Species in the Habitats Affected by the Operations that are Included in the IUCN Red List of Threatened Species and the National Conservation List	6.1 Ecological Monitoring Planning and Survey	81	
Material Topic: Occupational Safety and Health (GRI 403)						
GRI 3: Material Topics 2021	Management Policy	3-3	Material Topic Management	7. Friendly Workplace, Happy J&V Energy	89	
GRI 403	Occupational safety and health Topic Disclosure 2016	403-1	Occupational Safety and Health Management System	7.3 Value Occupational Safety and Health	108	
		403-2	Hazard Identification, Risk Assessment, and Incident Investigation	7.3 Value Occupational Safety and Health	108	
		403-3	Occupational Health Service	7.3 Value Occupational Safety and Health	108	

GRI No.	Issue	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
GRI 403	Occupational safety and health Topic Disclosure 2016	403-4	Worker Participation, Consultation, and Communication on Occupational Safety and Health	7.3 Value Occupational Safety and Health	108	
		403-5	Worker Training on Occupational Safety and Health	7.3 Value Occupational Safety and Health	108	
		403-6	Worker Health Improvement	7.3 Value Occupational Safety and Health	108	
		403-7	Prevention and Mitigation of Occupational Safety and Health Impacts Directly Linked to Business Relationships	7.3 Value Occupational Safety and Health	108	
		403-8	Workers Covered by the Occupational Safety and Health Management System	7.3 Value Occupational Safety and Health	108	
		403-9	Occupational Injury	7.3 Value Occupational Safety and Health	108	
		403-10	Occupational Disease	7.3 Value Occupational Safety and Health	108	

*Custom Topic	No.	Disclosures under the GRI Standards	Corresponding chapter	Page	Omission/remarks
*Renewable energy					
GRI 3 Renewable Energy Management Policy	3-3	Material Topic Management	1. Sustainable Energy, J&V Energy Makes Efforts	9	
*Talent cultivation					
GRI 3 Sustainable Governance Management Policy	3-3	Material Topic Management	7. Friendly Workplace, Happy J&V Energy	89	

Appendix 2 SASB Comparison Table

Industry: Renewable and Alternative Energy – Solar Power Technology and Manufacturing Industry

Disclosure topic	Indicator No.	Disclosure indicator	Disclosure in 2023	Comparison with Report Contents and Chapters	Page
Energy Management in the Manufacturing Stage	RR-ST-130a.1	1. Total energy consumption 2. Ratio of electricity consumption from the grid 3. Ratio of renewable energy consumption to total energy consumption	1. Total energy consumption of J&V Energy in 2023: 1,250.08 GJ. 2. The electricity consumption ratio of J&V Energy in 2023 was 74.95%. 3. J&V Energy consumed 25.05% renewable energy in 2023.	5.2 Energy Management	70
Water Management in the Manufacturing Stage	RR-ST-140a.1	1. Total water withdrawal 2. Total water consumption 3. Percentage of water withdrawal in areas with high or extremely high water pressure 4. Percentage of water consumption in areas with high or extremely high water pressure	1. The total water withdrawal in 2023 was 1.13 million liters. 2. The total water consumption in 2023 was 0 million liters. 3. The Company does not withdraw water from areas with high or extremely high water pressure 4. The Company does not consume water from areas with high or extremely high water pressure	5.4 Water Resource Management	72
	RR-ST-140a.2	Description of Water Resource Management Risks and Mitigation Strategies and Practices	J&V Energy has invested in Weisheng Envirotech, a water treatment subsidiary, to develop the reuse of industrial wastewater and domestic wastewater, as well as the desalination treatment of seawater, to make full use of water resources and improve the niche for industrial development; the Company has installed water-saving equipment and promotes water consumption reduction.	5.4 Water Resource Management	72
Hazardous Waste Management	RR-ST-150a.1	Total hazardous waste and ratio of waste recycling and reuse	In 2023, the Company did not generate hazardous business waste.	5.5 Materials and Waste Management	74
	RR-ST-150a.2	Number of leakages, total leakage volume, and recovered volume of hazardous waste	In 2023, the Company had no serious leakage.	5.5 Materials and Waste Management	74
Ecological Impacts of Project Development	RR-ST-160a.1	Number of projects delayed due to ecological impact factors and the number of days delayed	In 2023, the Company had no project delayed due to ecological impacts.	6.1 Ecological Monitoring Planning and Survey	81
	RR-ST-160a.2	Describe the investment made by the solar energy system development project considering the community and ecological impact	Please refer to: 6.1 Ecological Monitoring Planning and Survey	6.1 Ecological Monitoring Planning and Survey	81

Industry: Renewable and Alternative Energy – Solar Power Technology and Manufacturing Industry

Disclosure topic	Indicator No.	Disclosure indicator	Disclosure in 2023	Comparison with Report Contents and Chapters	Page
Energy infrastructure integration and management of relevant laws and regulations	RR-ST-410a.1	Describe the risks associated with integrating solar power with existing energy infrastructure and discuss the investments required to manage these risks	Solar power project sites of different types may be affected by natural disasters (i.e. earthquakes, typhoons, and floods), which may result in damage to equipment or abnormal power generation. The Company regularly carries out safety inspections at all project sites for such risks and makes arrangements to carry out a patrol inspection of project sites after typhoons. Insurance is purchased for all projects to minimize losses caused by natural disasters.	—	
	RR-ST-410a.2	Describe energy policies related to integrating solar power with existing energy infrastructure and the risks and opportunities it brought	Risk: If domestic renewable energy policies reduce the proportion of renewable energy consumption, the land and roofs that can be used for installation will no longer be available, reducing the Company's potential installation capacity. Opportunity: If the domestic renewable energy policies increase the proportion of renewable energy consumption and the land and roofs available for installation increases, the Company can stably cooperate with the domestic renewable energy policy and provide an alternative source of electricity supply to Taipower.	—	
Product Lifecycle Management	RR-ST-410b.1	Percentage of sold products that can be recycled or reused	The Company did not recycle, reuse, or repeat the use of sold products in 2023.	—	
	RR-ST-410b.2	Weight of scrapped products recycled and reused, and its percentage	In 2023, the Company did not recycle scrapped materials.	—	
	RR-ST-410b.3	Percentage of IEC 62474 declarable substances, arsenides, antimonides, and beryllides in products under income	Not applicable to the Company	—	
	RR-ST-410b.4	Describe the policies and strategies to design products with high recycling and reuse value	Not applicable to the Company	—	
Traceability of Raw Materials	RT-ST-440a.1	Describe the risk management practices for the use of key controversial raw materials	Not applicable to the Company	—	
	RT-ST-440a.2	Describe environmental risk management related to the polysilicon supply chain	Not applicable to the Company	—	

Activity indicator	No.	Measurement unit	Disclosure in 2023
Total installed capacity generated by PV modules	RT-ST-000.A	Megawatts (MW)	Not applicable to the Company
Total installed capacity of completed solar power systems	RT-ST-000.B	Megawatts (MW)	33.31MW
Total assets of project development	RT-ST-000.C	Amount	NT\$1,888,496,594

Appendix 3 Climate-related Information of TWSE/TPEX Listed Companies

Item	Corresponding chapter	Page
1. Describe the supervision and governance of climate-related risks and opportunities by the Board and the management.	5.1 Climate Change Management	62
2. Describe how the identified climate risks and opportunities affect the Company's business, strategy, and finances (short, mid, and long term).	5.1 Climate Change Management	62
3. Describe the impacts on finance of extreme weather events and transition actions.	5.1 Climate Change Management	62
4. Describe how climate risk identification, assessment, and management processes are integrated with the overall risk management system.	5.1 Climate Change Management	62
5. If a scenario analysis is used to assess resilience to climate change risks, specify the scenarios, parameters, assumptions, analysis factors used, and main financial impacts.	5.1 Climate Change Management	62
6. If there is a transition plan in place to respond to climate-related risks, describe the content of the plan and the indicators and targets used to identify and manage physical and transition risks.	5.1 Climate Change Management	62
7. If internal carbon pricing is used as a planning tool, the basis for setting the price shall be stated.	5.1 Climate Change Management	62
8. If climate-related goals are set, the activities covered, the scope of GHG emissions, the planning period, and the progress of each year shall be explained; if carbon offsets or renewable energy certificates (RECs) were used to achieve relevant targets, the source and quantity of carbon reduction credits for offsetting and the quantity of RECs shall be specified.	5.1 Climate Change Management 5.3 GHG Emission Management	62.71
9. GHG Inventory and Assurance. (Table 1-1 and Table 1-2)	5.3 GHG Emission Management	71

1-1 GHG Inventory and Assurance

Basic information of the Company

- ☐ A company with a capital of over NT\$10 billion, iron and steel industry, and cement industry
- ☐ A company with a capital of over NT\$5 billion but less than NT\$10 billion
- ☒ A company with a capital of less than NT\$5 billion

According to the Sustainable Development Roadmap for Listed Companies," at least the following shall be disclosed

- ☒ Individual inventory of the parent company
- ☐ Inventory of subsidiaries in the consolidated financial statements
- ☒ Individual assurance of the parent company
- ☐ Assurance of subsidiaries in the consolidated financial statements

1-1-1 GHG Inventory Information

Total GHG emissions in 2023		
Reporting period: January 1, 2023 to December 31, 2023		
Scope 1	Total emissions (tCO ₂ e)	Intensity (tCO ₂ e/NT\$ million)
J&V Energy	52.9175	0.0078
Scope 2	Total emissions (tCO ₂ e)	Intensity (tCO ₂ e/NT\$ million)
J&V Energy	78.7417	0.0116
Scope 3	Total emissions (tCO ₂ e)	Intensity (tCO ₂ e/NT\$ million)
J&V Energy	92.1217	0.0136

Note 1: Direct emissions (Scope 1, directly from emission sources owned or controlled by the Company), indirect emissions from energy (Scope 2, indirect GHG emissions from imported electricity, heat, or steam), and other indirect emissions (Scope 3 emissions, emissions arising from corporate activities that are not indirect emissions from energy but from sources owned or controlled by other companies).

Note 2: The data coverage of direct emissions and indirect emissions from energy shall be subject to the schedule specified in paragraph 2, Article 4-1 of the "Regulations for the Preparation and Filing or Sustainability Report of Listed Companies" (the "Regulations") of TWSE, the information on other indirect emissions may be voluntarily disclosed.

Note 3: GHG inventory standard: ISO 14064-1 published by the International Organization for Standardization (ISO).

Note 4: The intensity of GHG emissions is calculated based on turnover (NT\$ thousand).

1-1-2 GHG Assurance Information

J&V Energy started to carry out GHG inventory and assurance in 2023. The scope of inventory includes the office of Taipei Headquarters, offices in Xuejia District and Yongkang District, and the dormitory in Jiali District in Tainan City. Afnor Asia verified the GHG inventory in 2023, and the scope of inventory includes the office of Taipei Headquarters, offices in Xuejia District and Yongkang District, and the dormitory in Jiali District in Tainan City. Regarding the GHG inventory report and inventory lists, J&V Energy declares that the results of the GHG inventory report fully complied with relevant regulations and that GHG information had been appropriately and accurately disclosed. On June 14, 2024, we obtained the third-party verification of ISO 14064-1:2018. In the future, we will expand the GHG inventory scope of PV project sites.

ISO 14064-1:2018
GHG inventory verification

afnor 法國標準協會 (AFNOR) 艾法諾集團

驗證/查證審查結果通知書
Review result notification

File No. TH24-299 日期: 2024年6月14日

被驗證公司/單位名稱: 雲豹能源科技股份有限公司
To Company

管理代表/負責人: 廖維生
Management Representative/Responsible person

審查結果:
Review Result:

貴公司於 2024-06-04 ~ 2024-06-07 ~ 2024-06-14
執行 ISO 14064-1:2018 驗證/查證審查, 經本公司審查結果如下: (打✓)
(金)

Your company conducted ISO 14064-1:2018 certification review on 2024-06-04 ~ 2024-06-07 ~ 2024-06-14, the review result by us is as below (see ✓)

■ 矯正措施符合驗證標準要求。
Corrective actions conform to certification requirements

☐ 現場稽核未發現不符合項目。No nonconformity is found at on-site audit
應驗證決定小組決定: Determined by the certification decision team:

■ 予以發證。Acceptance of issuing certificate
■ 此次驗證通過, 證書持續有效。
This certification is completed, and maintain the effectiveness of certificate

☐ 經現場稽核, 尚未符合驗證標準要求, 本公司需再赴現場進行複查, 複查計畫將另行通知。
By on-site check, still in non-compliance with certification requirements, our company needs to revisit on site and revisit plan will be notified later

艾法諾國際股份有限公司
AFNOR Asia, Ltd.
驗證經理 Certification Manager

2024年6月 21日 Sign: 2024

艾法諾國際股份有限公司

1-2 GHG Reduction Targets, Strategies, and Specific Action Plans

Basic information of the Company

- ☐ A company with a capital of over NT\$10 billion, iron and steel industry, and cement industry
- ☐ A company with a capital of over NT\$5 billion but less than NT\$10 billion
- ☒ A company with a capital of less than NT\$5 billion

According to the Sustainable Development Roadmap for Listed Companies," at least the following shall be disclosed

- ☐ Disclose the reduction targets, strategies, and specific action plans for the preceding year in 2025
- ☐ Disclose the reduction targets, strategies, and specific action plans for the preceding year in 2026
- ☒ Disclose the reduction targets, strategies, and specific action plans for the preceding year in 2027

GHG Reduction Strategy

As a green benchmark enterprise, the Company promotes paperless measures, replaces power consuming equipment, changes to EVs, promotes water and power conservation, garbage reduction, and recycling to employees, and adopts other environmental protection measures. Also, it performs GHG inventory at offices each year to grasp the internal carbon emissions through data management so as to strengthen GHG emission management measures. In 2023, J&V Energy's Taipei Office consumed 25.07% green power.

GHG Reduction Goals

Short-term Goals	Expect to achieve the RE100 net-zero goal by 2024	Mid-term Goals	Continue to implement "green power utilization" and "energy-saving measures"	Long-term Goals	Continue to implement "green power utilization" and "energy-saving measures"
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Reduction achieved in 2023

Energy and GHG Emissions Reduction	<p>With 2023 as the base year, the Company has introduced and followed the requirements of the ISO 14064-1:2018 GHG inventory standard to perform the inventory of the office of Taipei Headquarters, offices in Xuejia District and Yongkang District, and other business locations. The GHG emissions (tCO₂e) in 2023 are as follows:</p> <p>Scope 1: 52.9175 (tCO₂e)</p> <p>Scope 2: 78.7417 (tCO₂e)</p> <p>Scope 3: 92.1217 (tCO₂e)</p> <p>Total emissions = Scope 1 + Scope 2 + Scope 3: 223.7809 (tCO₂e)</p>
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Note 1: Performed according to the schedule specified in paragraph 4, Article 4-1 of the Regulations.

Note 2: The base year shall be the year completing the inventory based on the boundary of the consolidated financial statements. For instance, according to paragraph 2, Article 4-1 of the Regulations, a company with a capital over NT\$10 billion shall complete the inventory for the 2024 consolidated financial statements in 2025; therefore, the base year is 2024. If the Company had completed the inventory of the consolidated financial statements in advance, it may adopt the earlier year as the base year. In addition, the data of the base year shall be calculated based on the average value of a single year or multiple years.

Note 3: For the disclosed content, please refer to the best practice samples on the website of the Corporate Governance Center of TWSE.

Appendix 4 CPA's Limited Assurance Report



To J&V Energy Technology Co., Ltd.

We have been engaged by **J&V Energy Technology Co., Ltd.** ("the Company") to perform assurance procedures in respect of the key performance indicators identified by the Company and reported in the 2023 Sustainability Report (hereinafter referred to as the "Identified Key Performance Indicators") and have issued a limited assurance report based on the result of our work performed.

Subject Matter Information and Applicable Criteria

The subject matter information is the Identified Key Performance Indicators of the Company. The Identified Key Performance Indicators and the respective applicable criteria are stated in the "Summary of Subject Matter Assured" on page 126 of the Sustainability Report. The scope of the aforementioned Identified Key Performance Indicators is set out in the "Scope and Boundary" on page 3 of the Sustainability Report.

Management's Responsibility

The Management of the Company is responsible for the preparation of the Identified Key Performance Indicators disclosed in the Sustainability Report in accordance with the respective applicable criteria. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation of the Identified Key Performance Indicators that are free from material misstatement, whether due to fraud or error.

Inherent Limitations

Certain subject matter information assured involves non-financial data which is subject to more inherent limitations than financial data. Qualitative interpretations of the relevance, materiality and the accuracy of data are more dependent on individual assumptions and judgments.

Compliance of Independence and Quality Management Requirement

We are independent of the Company in accordance with the Norm of Professional Ethics for Certified Public Accountant of the Republic of China, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

Our firm applies the Standard on Quality Management 1, "Quality Management for Public Accounting Firms" of the Republic of China, which requires the firm to design, implement and operate a system of quality management including policies or procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

資誠聯合會計師事務所 PricewaterhouseCoopers, Taiwan
 110208 臺北市信義區基隆路一段333號27樓
 27F, No. 333, Sec. 1, Keelung Rd., Xinyi Dist., Taipei 110208, Taiwan
 T: +886 (2) 2729 6666, F: +886 (2) 2729 6686, www.pwc.tw



Our Responsibility

Our responsibility is to express a limited assurance conclusion on the Identified Key Performance Indicators based on the procedures we have performed and the evidence we have obtained. We conducted our limited assurance engagement in accordance with the Standard on Assurance Engagements 3000, "Assurance Engagements other than Audits or Reviews of Historical Financial Information" of the Republic of China. This standard requires that we plan and perform this engagement to obtain limited assurance about whether the Identified Key Performance Indicators are free from material misstatement.

Under the requirements of the aforementioned standards, our limited assurance engagement involves assessing the suitability in the circumstances of the Company's use of the criteria as the basis for the preparation of the Identified Key Performance Indicators, assessing the risks of material misstatement of the Identified Key Performance Indicators whether due to fraud or error, responding to the assessed risks as necessary in the circumstances and evaluating the overall presentation of the Identified Key Performance Indicators. A limited assurance engagement is substantially less in scope than a reasonable assurance engagement in relation to both the risk assessment procedures, including an understanding of internal control, and the procedures performed in response to the assessed risks.

The procedures we performed were based on our professional judgment and included inquiries, observation of processes performed, inspection of documents, and evaluating the appropriateness of quantification methods, and agreeing or reconciling with underlying records.

Given the circumstances of the engagement, in performing the procedures listed above, we:

- Made inquiries of the persons responsible for the Identified Key Performance Indicators to obtain an understanding of the processes, information systems, and the relevant internal controls relating to the preparation of the aforementioned information to identify the areas where there may be risks of material misstatement; and
- Based on the above understanding and the areas identified, performed analytical procedures on the Identified Key Performance Indicators and performed substantive testing on a selective basis, including inquiries, observation, inspection, and reperformance to obtain evidence for limited assurance.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement. Accordingly, we do not express a reasonable assurance opinion about whether the Company's Identified Key Performance Indicators have been prepared, in all material respects, in accordance with the respective applicable criteria.



We also do not provide any assurance on the Sustainability Report as a whole or on the design or operating effectiveness of the relevant internal controls. Furthermore, our assurance does not extend to information disclosed in the Sustainability Report for the period ended December 31, 2023 or prior periods.

Limited Assurance Conclusion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Identified Key Performance Indicators in the Sustainability Report are not prepared, in all material respects, in accordance with the applicable criteria.

Other Matter

The Management of the Company is responsible for maintaining the Company's website. We have no responsibility to re-perform any procedures regarding the Identified Key Performance Indicators after the date of our assurance report, even if the Identified Key Performance Indicators or the applicable criteria have been subsequently modified.

LIN, YA-HUI

LIN, YA-HUI

For and on behalf of PricewaterhouseCoopers, Taiwan
14 May, 2024

Appendix 5 GHG Verification Report Opinion

afaq Certificate

Report no.: (TH24-299 / version 1)

Greenhouse Gas Verification Report Opinion

THGHG24299-00

Verification: J & V ENERGY TECHNOLOGY CO., LTD.
Scope: 4 F.A., No. 1, Jhu Rd., Neihu Dist., Taipei City 114006, Taiwan (R.O.C.)
☒ The information of other sites are listed on the subsequent page.

Verification Criteria: ISO 14064-1: 2018

Verification Objectives: According to ISO 14064-3:2019, AFNOR Asia Ltd. (AFNOR ASIA) confirms that the GHG statement (GHG inventory report of the above-mentioned organization(s)) is reported in accordance with the verification criteria agreed by both parties. AFNOR performs the verification with an objective and fair position and principle (relevant, complete, consistent, accurate, and transparent).

Data Period: 2023/01/01-2023/12/31 (The data is historical data.)

Verification: Direct GHG emissions (category 1): 52.9175 tons CO₂e
 Energy indirect GHG emissions (category 2): 78.7417 tons CO₂e
 Date: Indirect GHG emissions (category 3-6): 32.1217 tons CO₂e

Global Warming Potential (GWP): refer to IPCC 2021 Year, the 9th assessment report

Statement Basis: This statement must be interpreted as a whole with the following:
 GHG inventory report (version: 4 / Date: 08.06.2024)
 GHG inventory (version: 3 / Date: 08.06.2024)

Materiality: 5% (category 1 and category 2)

Type of Opinion: ☒ Unqualified ☐ Qualified (see the subsequent page) ☐ Disclaim the issuance

Verification Conclusion: Confirms that the organization submits a GHG statement in accordance with the requirements of the verification criteria agreed by both parties, and fairly presents the GHG data and related information, which is consistent with the verification criteria, objectives and criteria agreed by both parties. Declares that the reasonable assurance level of the inventory data in category 1 and category 2.

Date of Issuance: 08.16.2024

APPROVED BY:

 Patrick Ni
 Director for Certification
 ON BEHALF OF
 AFNOR ASIA

Page 1 of 4
 (This document cannot be used on a single page. Using a single page is invalid.)

afnor

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Report no.: (TH24-299 / version 1)

The Geographical Location of Multiple Sites:

Site	Address
Taipei Headquarters Office	4 F.A., No. 1, Jhu Rd., Neihu Dist., Taipei City 114006, Taiwan (R.O.C.)
Xuejin District Office	No. 202, Xingye Rd., Xuejin Dist., Tainan City 726004, Taiwan (R.O.C.)
Yongkang District Office	13F, No. 128, Zhongshan Rd., Yongkang Dist., Tainan City 710044, Taiwan (R.O.C.)
Jiali Dormitory	No. 42, Lin 99, Jialai Rd., Jiali Dist., Tainan City 722001, Taiwan (R.O.C.)

Emissions Data for Each Category:

Category	Description of content	GHG emissions (tons CO ₂ e)	Note
(Category 1) Direct GHG emissions	Mobile emissions, Fugitive emissions	52.9175	
(Category 2) Indirect GHG emissions from purchased electricity	Indirect emissions from purchased electricity	78.7417	local standard
(Category 3) Indirect GHG emissions from transportation	Upstream transport and distribution, Employee commuting, Business travel	64.6396	
(Category 4) Indirect GHG emissions from purchased goods, fuel and energy	Purchased goods, Fuel and energy	27.4821	
(Category 5) Indirect GHG emissions associated with the use of products from the organization	NS		NS
(Category 6) Indirect GHG emissions from other sources	NS		NS

Biomass burning emission: 0.0000 tons CO₂e

Page 2 of 4
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afaq Certificate

Report no.: (TH24-299 / version 1)

Other Related Verification Information:

Organization boundaries: operational control

GHG type: Carbon dioxide (CO₂), Methane (CH₄), Nitrous oxide (N₂O), Hydrofluorocarbon (HFCs), Perfluorocarbon (PFCs), Sulfur hexafluoride (SF₆), Nitrogen trifluoride (NF₃)

Purpose of intended use: Understanding voluntarily the status of GHG emissions as a basis for developing reduction strategies.
 (This statement of responsibility applies only to the purpose of intended use mentioned above and not to any other purpose.)

Criteria for significance of indirect emissions:
☒ Identified stakeholder requirements: ☐ Yes ☒ No
☒ Identified regulation requirements: ☐ Yes ☒ No
☒ Identified magnitude of emissions: ☐ Yes ☒ No
☐ Others:

Purchased power factor: Refer to the 2023 annual green factor announced by the Bureau of Energy, Ministry of Economic Affairs on April 26, 2024.
☒ The primary data is collected from on-site operation activities.
☒ Category 3-6 emissions are calculated with estimated data.
 The secondary data sources are: Carbon Footprint Information Platform, EMSAPHP-Transport database

Data sources:
☒ On-site
☐ Others:

Verification method: ☒ On-site

Qualified opinion: NO

Others: From October 2023 to December 2023, the Taipei office purchased 26,292 re-usable Mowat hours from Sunshin Vista Electric Co., Ltd. and 8 green electricity certificates from the Taipei City Government Industrial Development Bureau's Xincheng Park Dream Hall.

Verification date: 06.06.2024
 06.14.2024

Report date: 08.02.2024

Page 3 of 4
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afaq Certificate

Report no.: (TH24-299 / version 1)

Verification team and technical review

Lead Verifier: LU MU-CHENG 吳: Lu Mu-Cheng

Verifier: Hsiao Kuoang Ling 吳: C. Kuoang

Verifier: James Cheng 吳: James Cheng

Verifier: Micky Wang 吳: Micky Wang

Independent review: Shih-Ting Tseng 吳: Shih-Ting Tseng

Verification processes

AFNOR is based on risk assessment methods and controls. Evidence collection procedures are including pre-audit assessment, on-site visits, interviews with site personnel, confirmation of documented evidence provided, sampling of emission data, evaluation of data management systems, confirming the collection and compilation of emission data, analysis between production and energy consumption, and confirmation of whether the terms of the agreement referred to are properly applied.

Roles and Responsibilities

The verified organization is responsible for preparing and submitting a GHG statement in accordance with the verification criteria. This responsibility includes the planning, implementation and maintenance of data management systems related to GHG declarations, GHG inventory and GHG inventory reports.

AFNOR provides independent third-party verification of the reported GHG emissions and issues verification opinions for the organizational GHG emissions. The verification team is independent and impartial, and there is no conflict of interest.

Page 4 of 4
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J&V Energy Technology Sustainability Report

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