



金益鼎企業股份有限公司
Jiin Yeeh Ding Enterprise CORP.

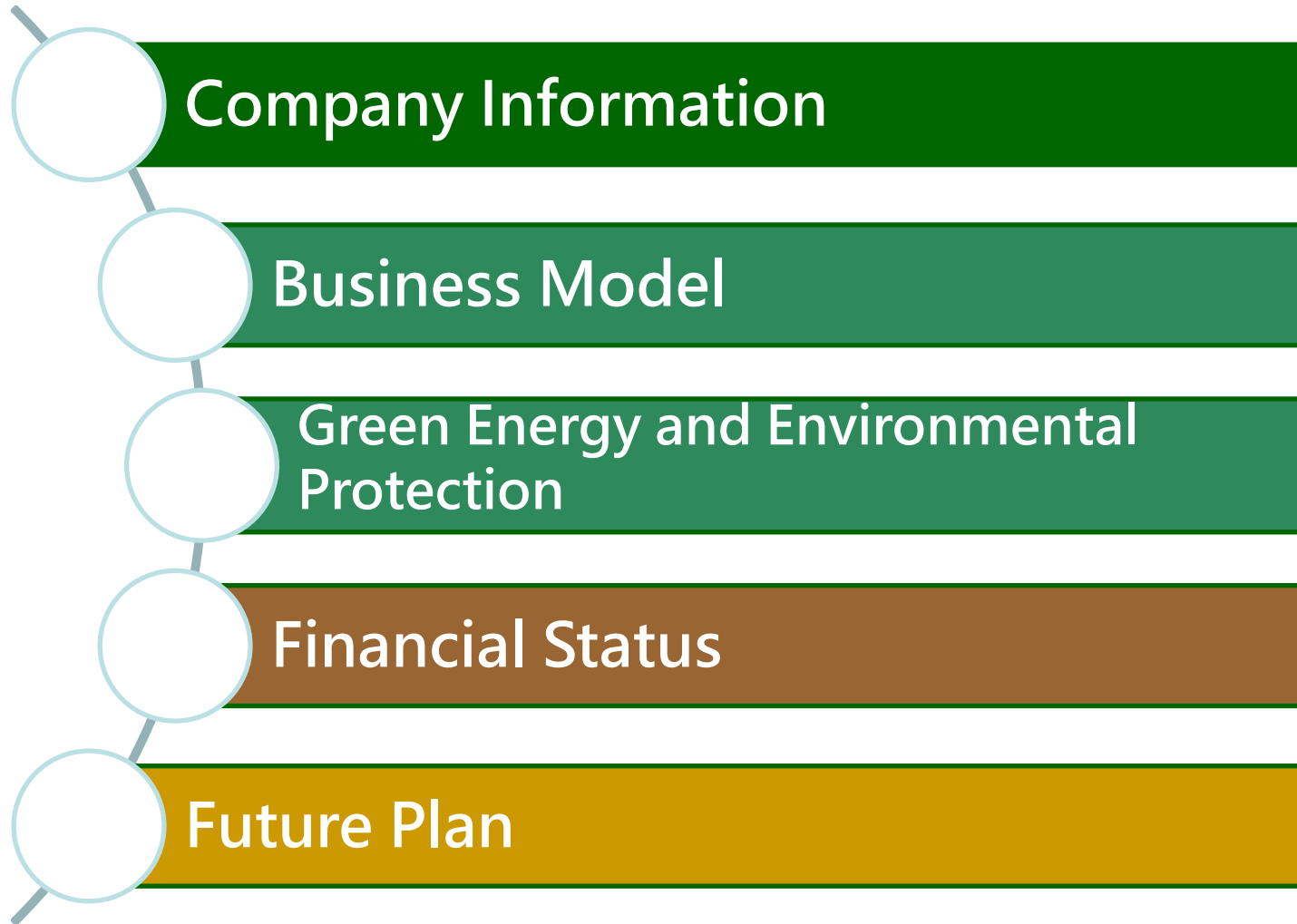
Investor Conference

Skill First, Quality First, Service First.

Green Industry
Circular Economy

Investors (or stockholders) contact :
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Fax : 03-5182968
E-mail : yen.chu@tw.jydgroupp.com

2023.12.14



Company Information

JIIN YEEH DING Enterprise Corp.

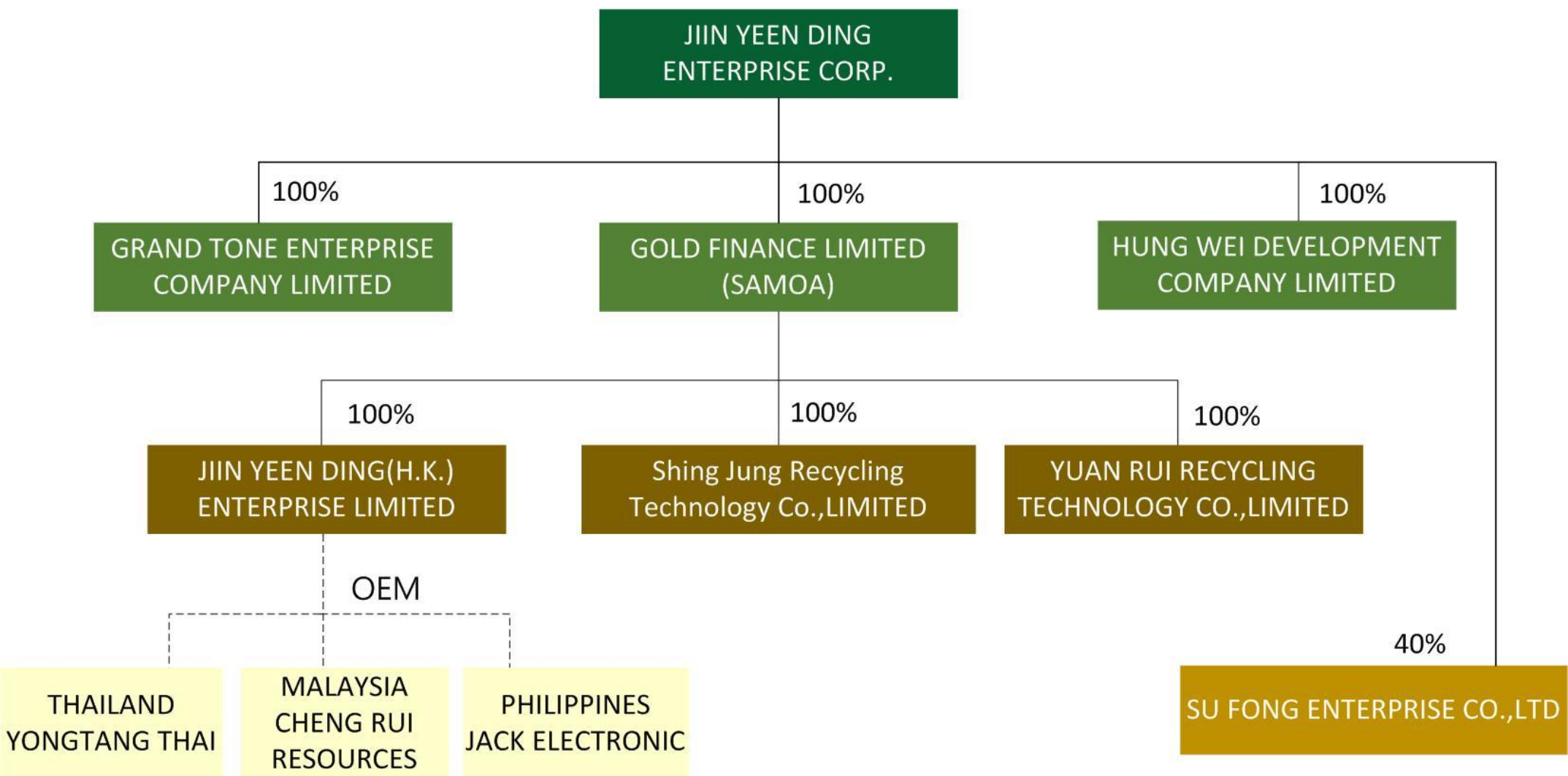
Date of establishment	April 1997
Capital amount	960 Million
Chairman	CHUANG, CHING-CHI
President	CHUANG, JUI-YUAN

Industry: Waste resource collection & disposal Precious metal recycling

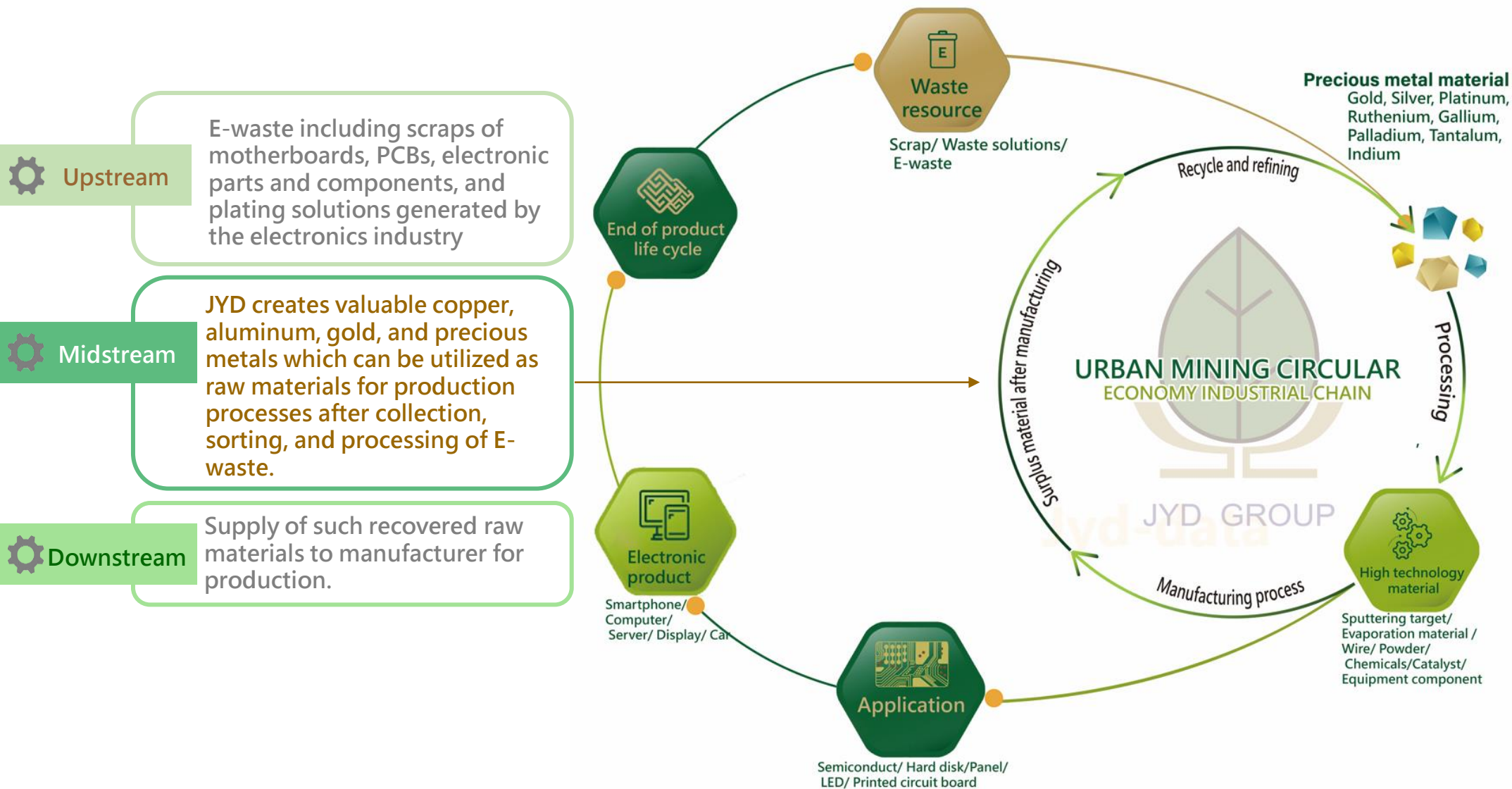
Hsinchu head office	No. 599, Sec. 6, Xibin Road, Xiangshan District., Hsinchu City
Kaohsiung office	No. 5, Tiandan 2nd Street, Daliao District, Kaohsiung City
Factory location	Nangang Factory, Xibin Factory (under construction)



Company Information



Business Model-Circular Economy Chain



Business Model

The metal content of urban mine is greater than that of raw mine.

Urban Mines > Raw Mines

E-waste from cities :

◆ IC	Gold content 0.5g~2g/kg
◆ Parts clean	Gold content above 75%
◆ Gold-plated PC board	Gold content 0.1g~3g/kg
◆ Gold-plated copper	Copper 90%, gold 0.2g~1g/kg
◆ Scrap printed circuit board	"Hard PCB" copper content 10 ~ 50%
	"Soft PCB" copper content 40~60%
	"Trimmed PCB" copper content 25~60%

Urban mines is secondary resource reuse with less equipment investment, pollution and energy consumption.

- ◆ Gold content of gold mine is about 0.003~0.03g/kg.
- ◆ Copper content of copper mine is about 3~5%.

~Urban mine is much valuable than raw mines~

Recycling is a must

Business Model –

Metal recycling can reduce raw mine consumption.

The quantity of gold and copper recycled from E-waste corresponds to the consumption of gold and copper mines.

JYD(Gold) Statistics



Yer	Item	Converted metal weight est. (KG)	Converted ore weight est. (KG)
2020	Gold	585	195,000,000
2021	Gold	716	238,666,667
2022	Gold	650	216,667,667

Gold (Au) content compared to crude ore: Crude ore has a gold (Au) content of approximately 0.003g/kg

JYD (Copper) Statistics



Yer	Item	Converted metal weight est. (KG)	Converted ore weight est. (KG)
2020	Copper	6,437,279	214,575,967
2021	Copper	4,358,099	145,269,967
2022	Copper	4,314,129	143,804,300

Copper (Cu) content compared to crude ore: Crude ore has a copper (Cu) content of approximately 3%

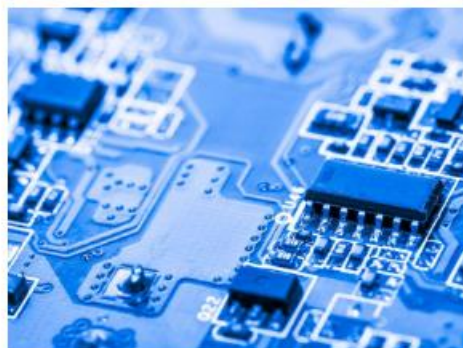


Business Model – Service targets

• Service Targets in Taiwan



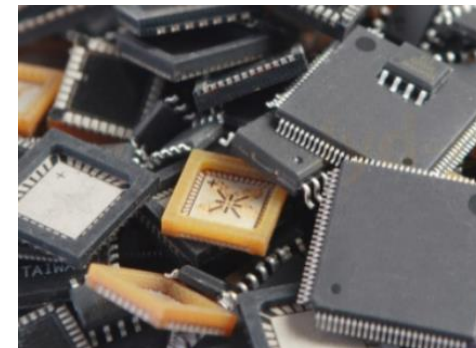
Conductor Industry
(equipment 、 design 、
manufacturing)



Printed circuit board industry
(PCB 、 BGA 、 FPC...)



Computer components industry
(CPU, motherboard, RAM,
etc.)



IC Test and Package industry



Optoelectronics industry
(LCD, LED, etc.)



Passive component industry
(capacitance, resistance,
inductance)



Telecommunications and communications industry
(cable, wireless, optical systems, etc.)



Others
(precious-metal containing industrial waste with recycling value)

Business Model - Operation process in Taiwan



Business Model - Foreign operation

• Sources of Materials



- Recognized by international electronics manufacturers and became close cooperation partner.
- Recognized by international recycling companies. In addition to partnering with companies in Asia, JYD has extended its partnership to companies in America, New Zealand and Australia.
- Raw materials are obtained through the establishment of alliances, which further stabilizes the sources of materials.

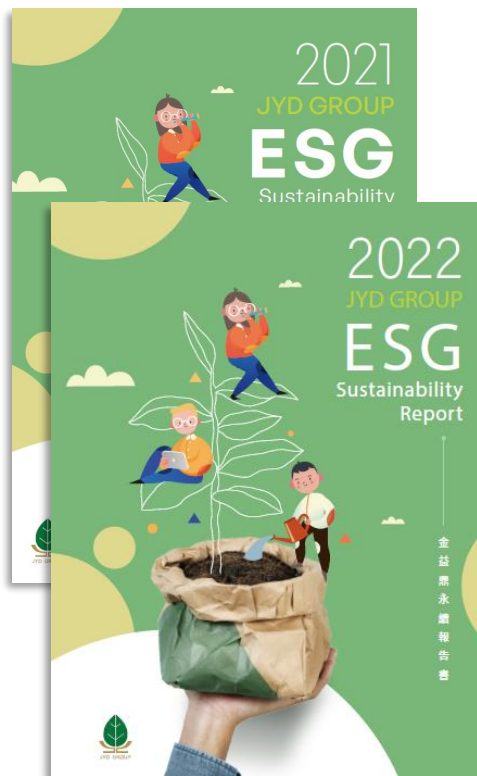
Business Model – Partners

- JYD partners, continuity of industrial chain



JYD has long-term cooperation with companies in the United States, Japan, Belgium and Hong Kong, to sell the produced precious metals. We continue to maintain good collaboration relationship with our partners, and expand our customers by offering good-quality services.

Green Energy and Environmental Protection-ESG



Significance for the Company

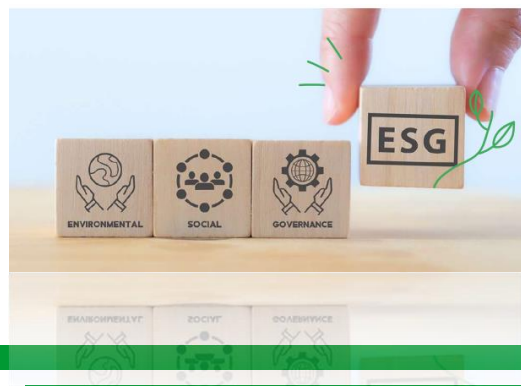
- In view of the fact that rising GHG emissions and climate change caused by global activities result in constant flooding and droughts which have a significant impact on business operations, JYD Group is committed to the effective implementation of GHG reduction measures with the goal of making a valid contribution to slow down global warming and full its responsibility as a member of the global community.

Short-term Goals

- Achieve the RE10X10 green electricity initiative' s commitment to use 10% green electricity in 2025.
- Acquisition of GHG verification statements
- Successful implementation of GHG reduction measures to achieve the goal of a 20% reduction by 2030

Mid- and Long-term Goals

- Step-by-step implementation of GHG reduction measures and substitution strategies to achieve carbon neutrality and completion of reports
- Attainment of carbon neutrality and completion of external verifications by 2050



Green Energy and Environmental Protection

Recycled material verification

- UL 2809 Recycled Gold certification

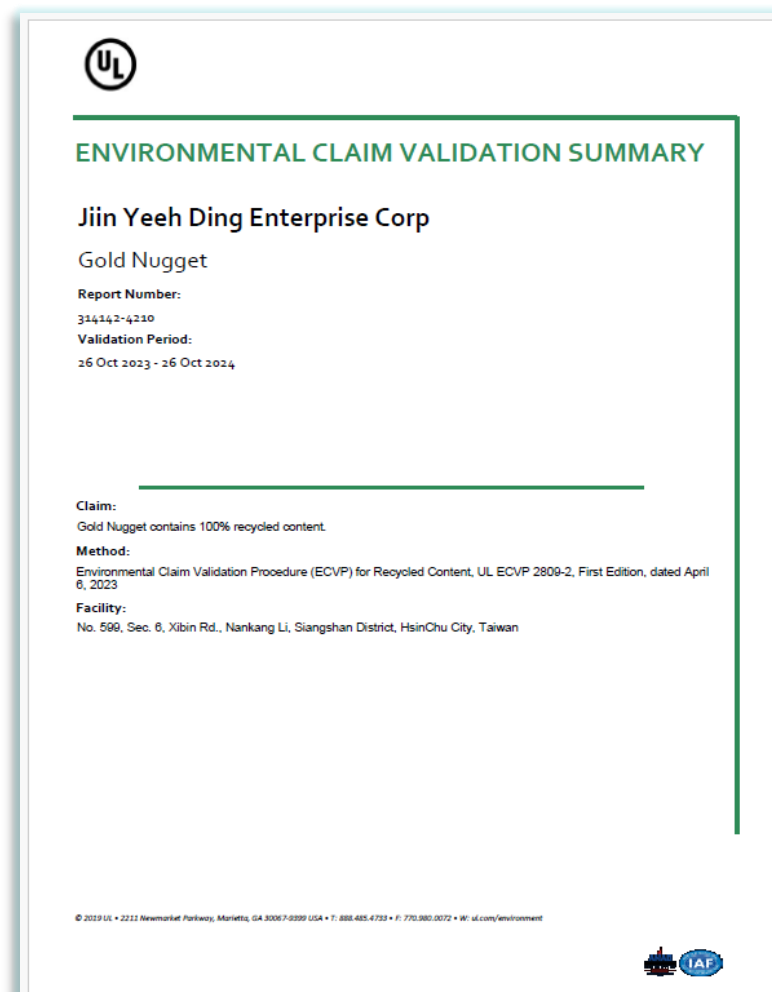
Obtained October, 2023

Gold Nugget contains 100% recycled content.



The purpose of using recycled materials is to extend the service life of the materials, reduce natural resource consumption, and obtain considerable environmental benefits.

UL Recycled Content Validation



UL

ENVIRONMENTAL CLAIM VALIDATION SUMMARY

Jiin Yeeh Ding Enterprise Corp

Gold Nugget

Report Number:
314142-4210


Validation Period:
26 Oct 2023 - 26 Oct 2024

Claim:
Gold Nugget contains 100% recycled content.

Method:
Environmental Claim Validation Procedure (ECVP) for Recycled Content, UL ECVP 2809-2, First Edition, dated April 6, 2023

Facility:
No. 509, Sec. 8, Xibin Rd., Nankang Li, Siangshan District, HsinChu City, Taiwan

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Green Energy and Environmental Protection

R2V3 certified

- R2V3(Responsible Recycling)



R2 is responsible recycling, aims to support legal and responsible operating processes, and is a third-party international verification standard recognized by the electronic waste recycling industry.

By obtain R2v3 certification, our main purpose is to ensure that electronic waste is used reasonably, safely, environmentally friendly and sustainably and that all data in the device is safely destroyed and ultimately reused. By following such operating standards, we contribute our part to the circular economy.



Green Energy and Environmental Protection

Gold footprint certification

• JYD' s Gold Product Carbon Footprint Certification

Owing to the concern in global warming issues, JYD has been implementing carbon-reduction measures, hoping to reduce the emission of greenhouse gases. JYD passed the gold product carbon footprint certification conducted by the DNV GL Business Assurance in September 2012.

The results indicate that carbon emissions per gram of recovered gold amount to 0.995kg, while emissions per gram of gold extracted from ores total 32.689 kg., which is around **32** times of the carbon emissions generated by JYD.



**VERIFICATION STATEMENT OF
PRODUCT LIFE CYCLE GREENHOUSE GAS ASSERTIONS**
Statement No. 00003-2012-CFP-TWN
Page 1 of 2

Jiin Yeeh Ding Enterprise Corp.
initiate reporting of
**Product Life Cycle GHG Emission Inventory Report of
GOLD INGOT (1 G, PURITY > 99.9%) (2011)**

Scope of Verification
Det Norske Veritas Certification (hereafter "DNV") has been commissioned by Jiin Yeeh Ding Enterprise Corp. (hereafter "the Company") to perform a verification of the product life cycle greenhouse gas assertion of the Company's Product Life Cycle Greenhouse Gas Inventory Report (hereafter "the Inventory Report") with respect to the following product: GOLD INGOT (1 G, PURITY > 99.9%), and the data from Jiin Yeeh Ding Enterprise Corp. at No. 599, Sec. 6, Xibin Rd., Nankang Li, Siangshan District, HsinChu City, Taiwan R.O.C., and the time period is from January 1, 2011 to December 31, 2011.

Boundary of Verification
☐ Business to Consumer ☒ Business to Business

Verification Criteria and GHG Programme
The verification was performed on the basis of PAS 2050:2011 for given to provide for consistent product life cycle GHG emission identification, calculation, monitoring and reporting.

Verification Statement
It is DNV's opinion that with reasonable assurance the product life cycle greenhouse gas assertion of the Inventory Report of GOLD INGOT (1 G, PURITY > 99.9%) (2011), which was published on July 20, 2012 (Rev. 3), is free from material discrepancies in accordance with PAS 2050:2011.

Hsiantin Tim Kuo
GHG Verifier
September 7, 2012 

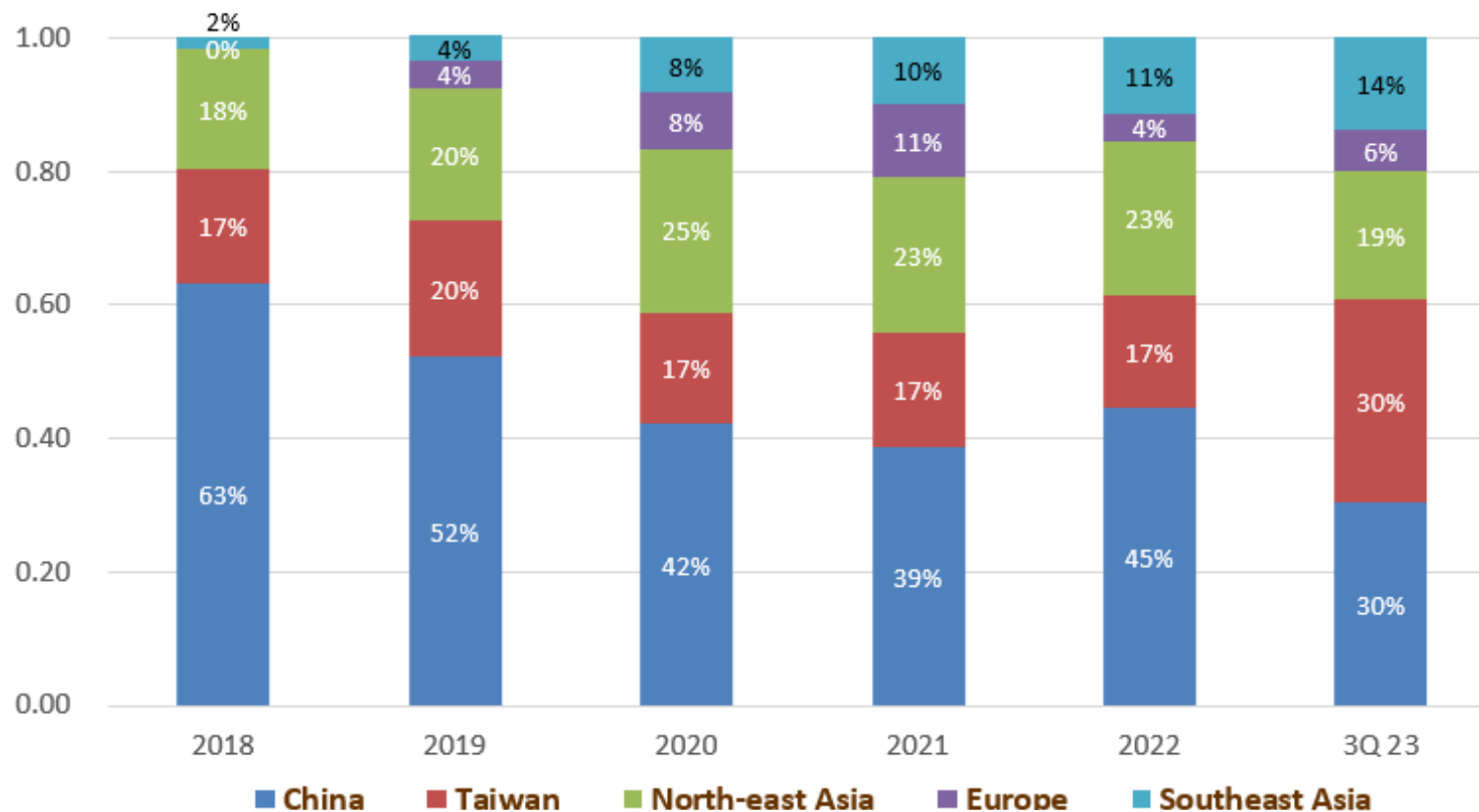
David Hsieh
District Manager
DNV Certification Taiwan 

This Verification Opinion is based on the information made available to us and the engagement conditions detailed above. Hence, DNV can not guarantee the accuracy or completeness of the information. DNV can not be held liable by any party relying or acting upon the Verification Opinion.
立思威國際驗證股份有限公司, 新北市 220 板橋區文化路 2 段 293 號 29 樓 TEL: +886 2 82537800



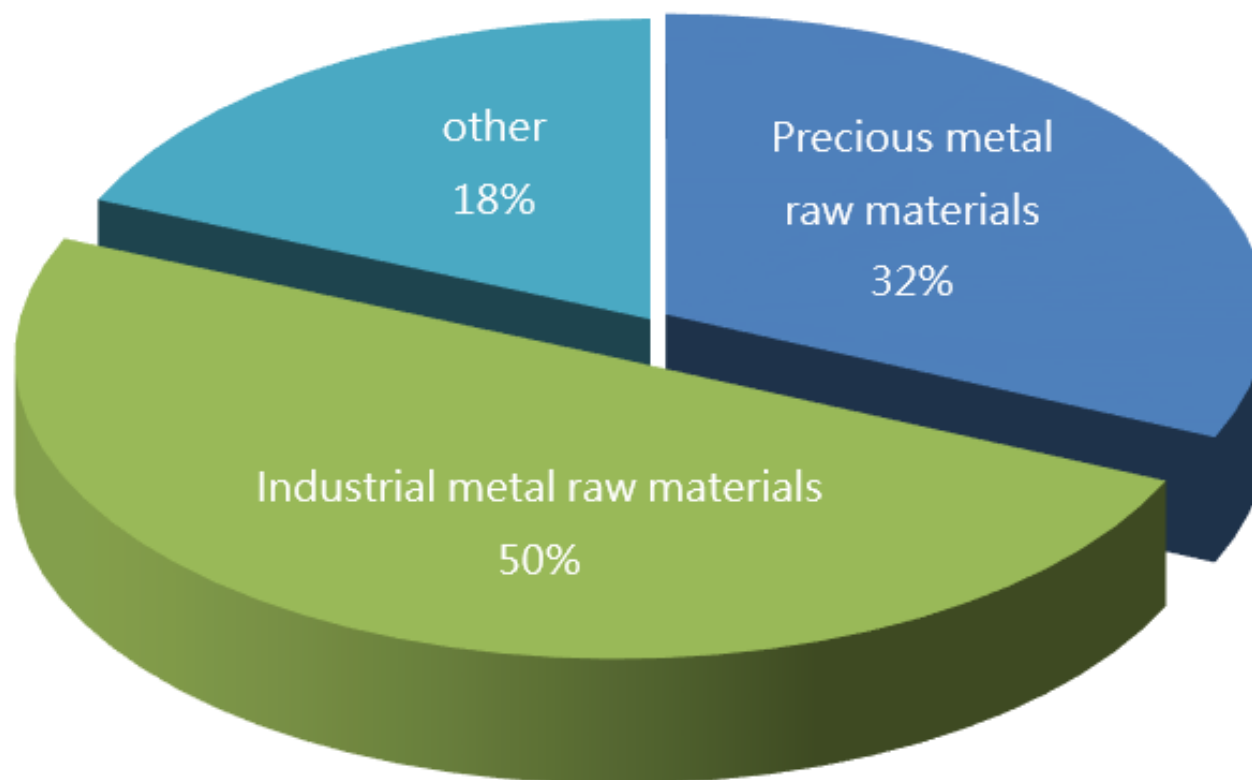
Financial Status

J.Y.D(8390)Revenue proportion of major markets



% of revenue	2018	2019	2020	2021	2022	3Q 23
China	63%	52%	42%	39%	45%	30%
Taiwan	17%	20%	17%	17%	17%	30%
North-east Asia	18%	20%	25%	23%	23%	19%
Europe	0%	4%	8%	11%	4%	6%
Southeast Asia	2%	4%	8%	10%	11%	14%

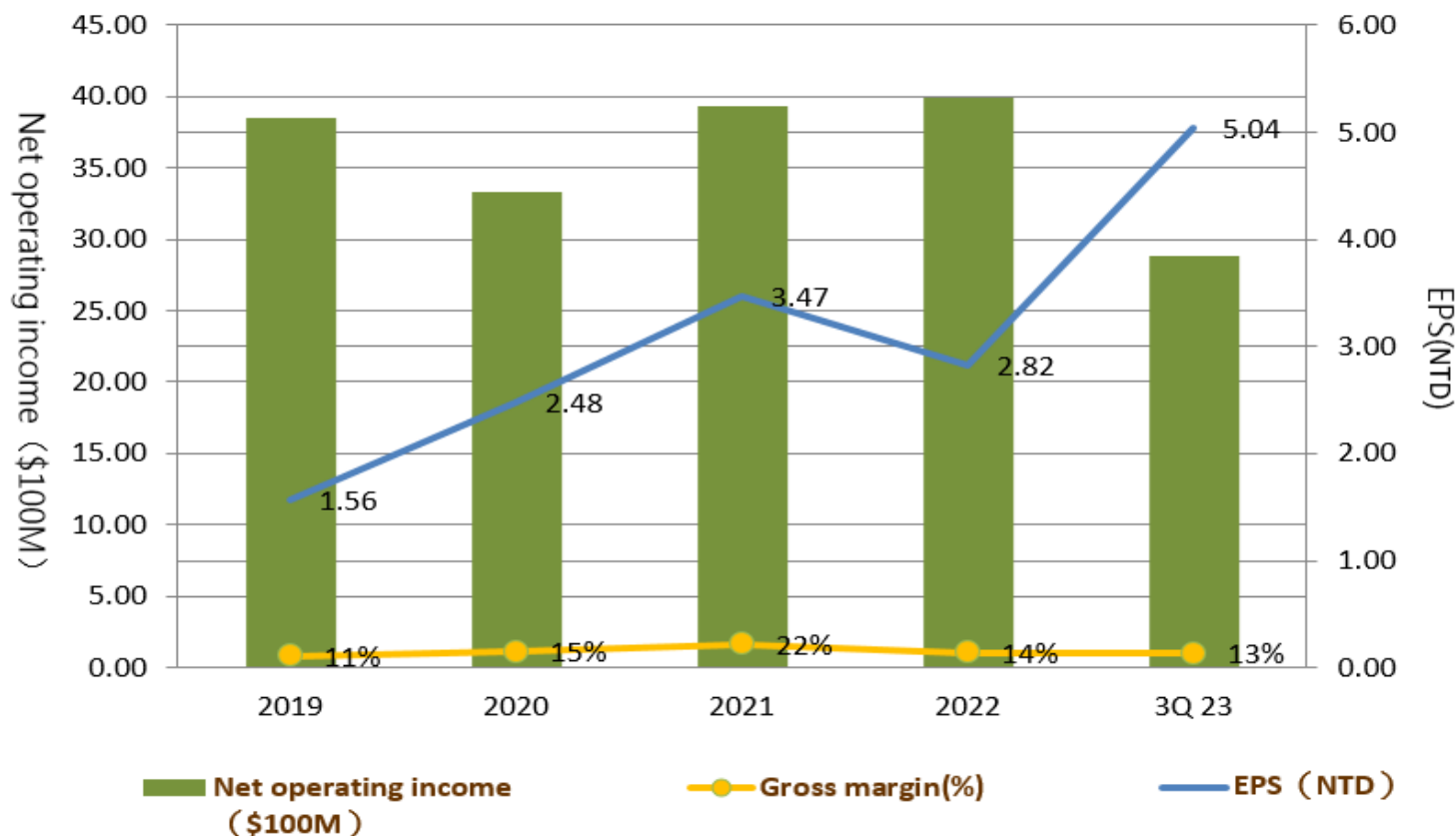
J.Y.D(8390)-Sales mix



■ Precious metal raw materials ■ Industrial metal raw materials ■ other

Financial Status

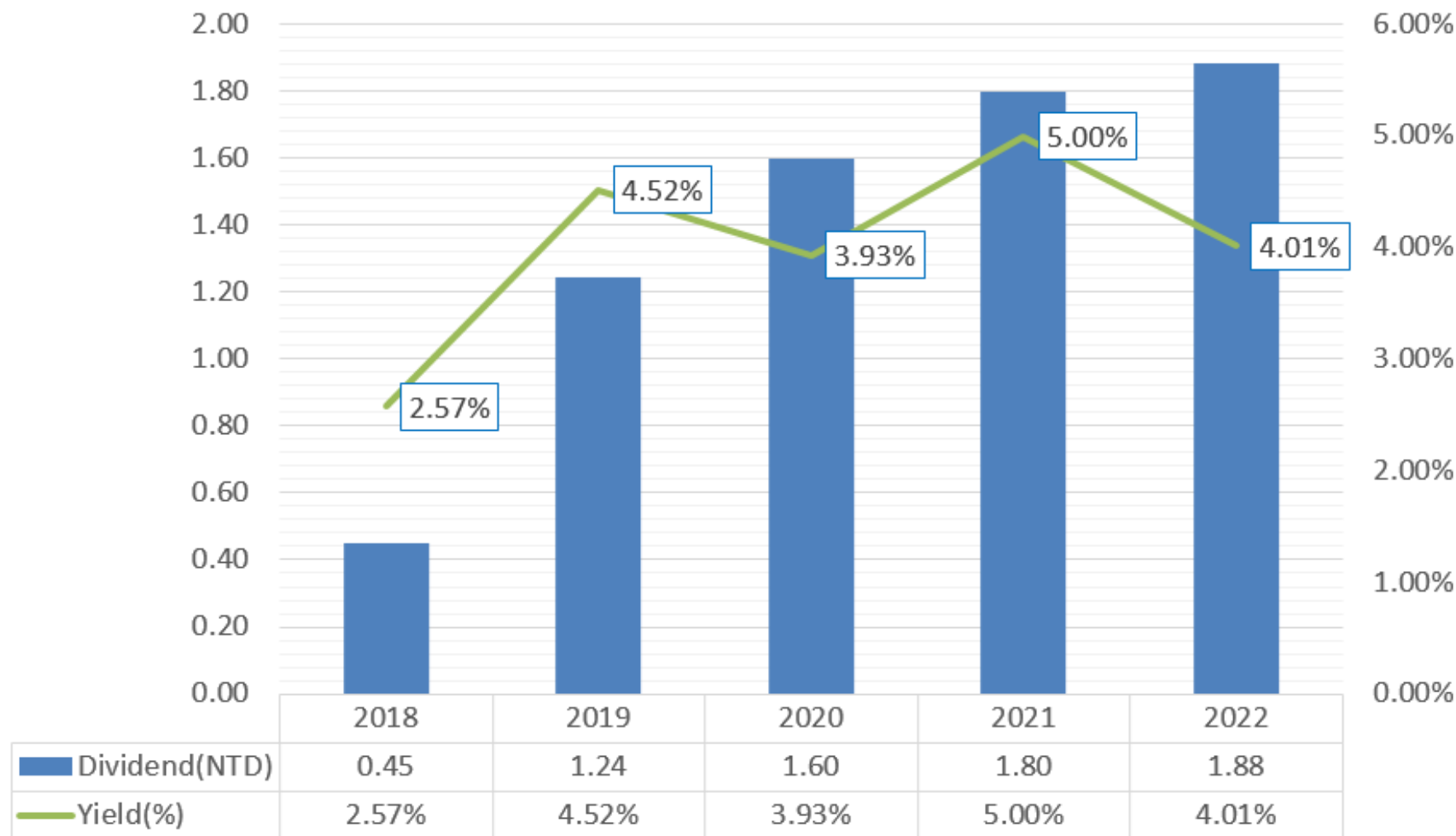
J.Y.D(8390)-Net operating income/EPS/Gross margin



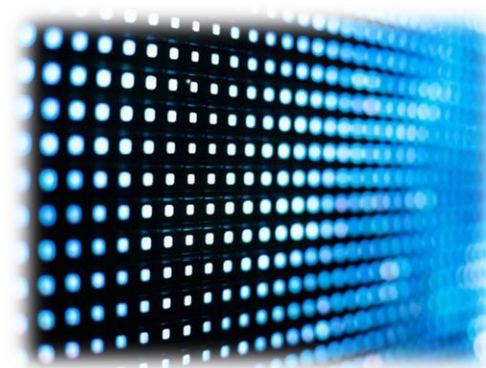
年	2019	2020	2021	2022	3Q 23
Net operating income (\$100M)	38.51	33.32	39.36	39.94	28.83
Gross margin(%)	11%	15%	22%	14%	13%
EPS (NTD)	1.56	2.48	3.47	2.82	5.04

Financial Status

(NTD) **JYD(8390)-Dividends over the years** (%)



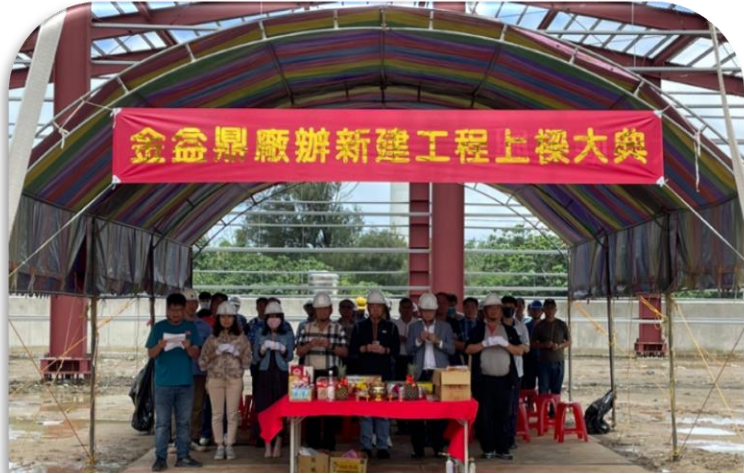
● Factory expansion plan



Planning a new factory	©Xibin Factory		
Processing Items	Small household appliances waste treatment	Solar panel waste disposal	Mixed hardware disassembly
	In addition to four machines and computer, electrical appliances include weighing machines, blood pressure machines, scanners, electric fans, walkie-talkies, calculators, etc.(9,600 tons/year)	Solar panels waste (21,600 tons/year)	Telecommunications equipment, machinery and equipment and semiconductor equipment filters (6,000 tons/year)
Sources of Materials	Factory & private production	Business institutions & cases	Business institutions

Future Plan

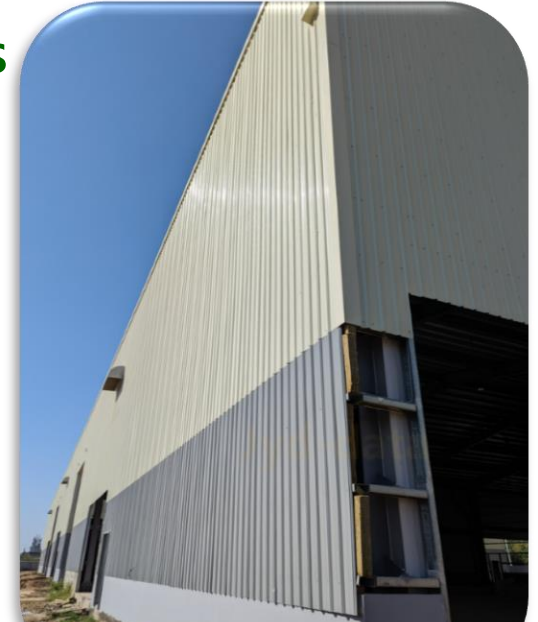
- Factory expansion plan-factory construction progress



June 1, 2023 Lifting Ceremony



November 2023



December 2023



December 2023



December 2023



3D diagram

Future Plan

- Solar panel waste processing technology (applied for patents in various countries)

Before processing



After processing
(resourced products)

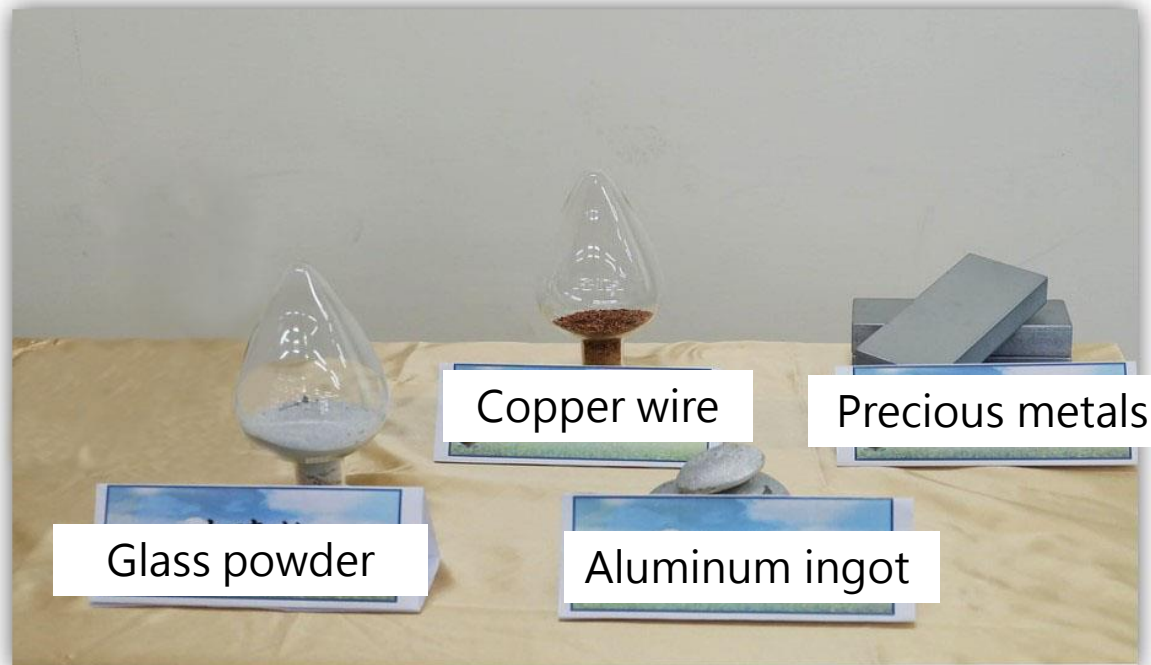


After processing (resource
item with precious metal)



Future Plan

- Products after patented solar panel waste treatment process



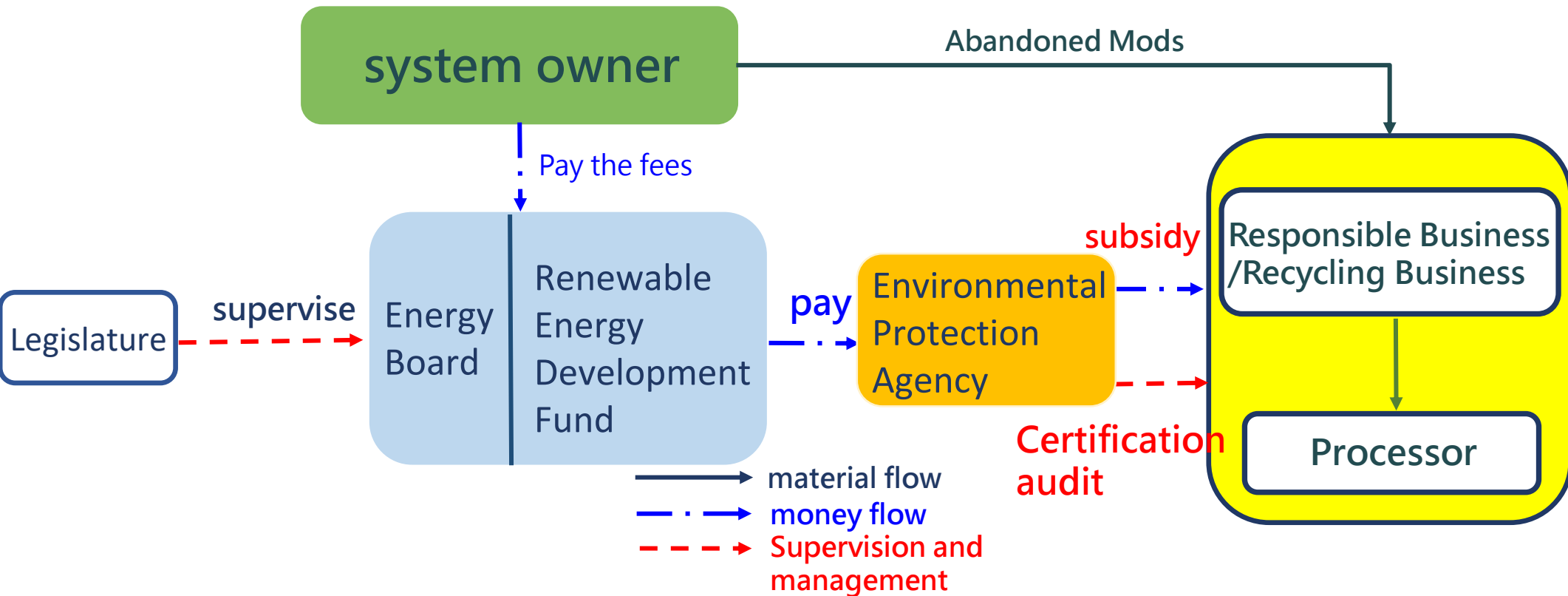
Patent application

- Taiwan
- Japan
- South Korea
- Canada
- USA
- China
- European Union
- Thailand

▲ After processing the solar panels waste, valuable metals, glass and other substances can be separated and reused.

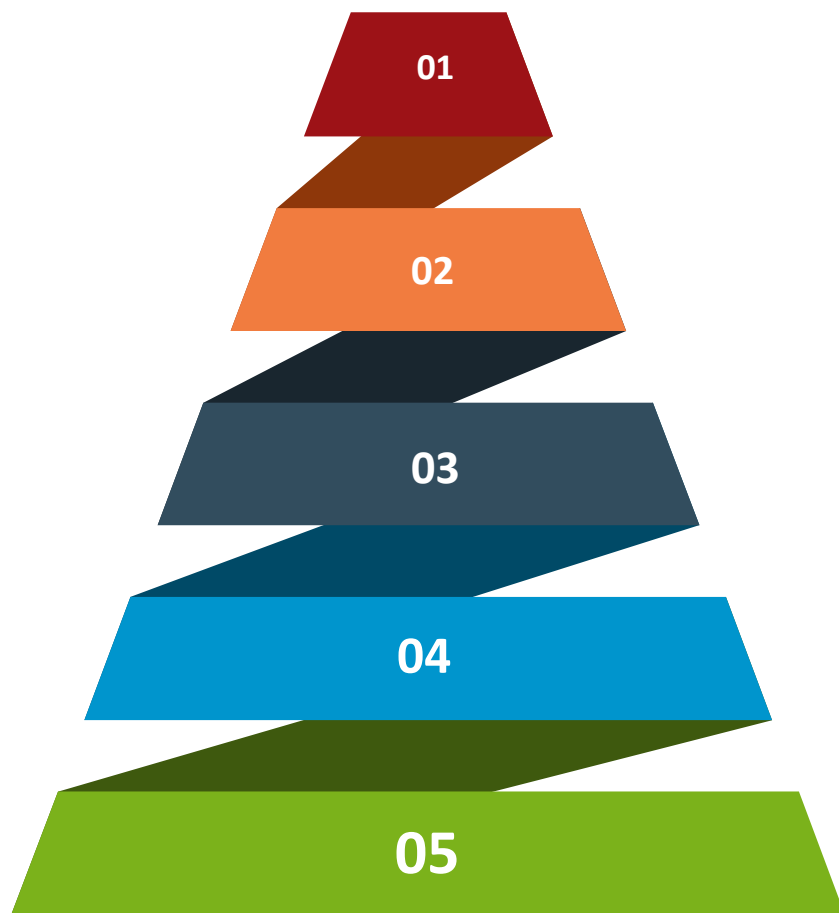
Patented technology can achieve complete recycling and zero landfilling

Taiwan's solar panel waste recycling division of labor principles



Source: Energy Administration, Ministry of Economic Affairs

Future Plan-Company vision



Design by Showeet.com

1. Jiin Yeeh Ding Xibin Factory is under construction and is expected to be completed and officially operational by the end of 2024, increasing business revenue from Class A waste mixed hardware (including small household appliances waste and solar panels waste).
2. Establish a complete processing process for solar panels waste and apply for patents in various countries. Explore the solar panel waste recycling market in the United States.
3. Keep developing the market access and recycling of electronic waste and mixed metal in Southeast Asia.
4. Observe the mainstream direction and ingredients of battery manufacturing, and strategically alliance with battery treatment plants to expand the electronic waste treatment market.
5. Invest in green power, achieve the RE10X10 green power initiative' s commitment to use 10% green power in 2025, and achieve net zero carbon emissions in 2050.

資源再生利用 創造無限價值

環境保護先驅 積極研發技術

Management Strategies

Integration of Advanced Technology and Environment

Q & A