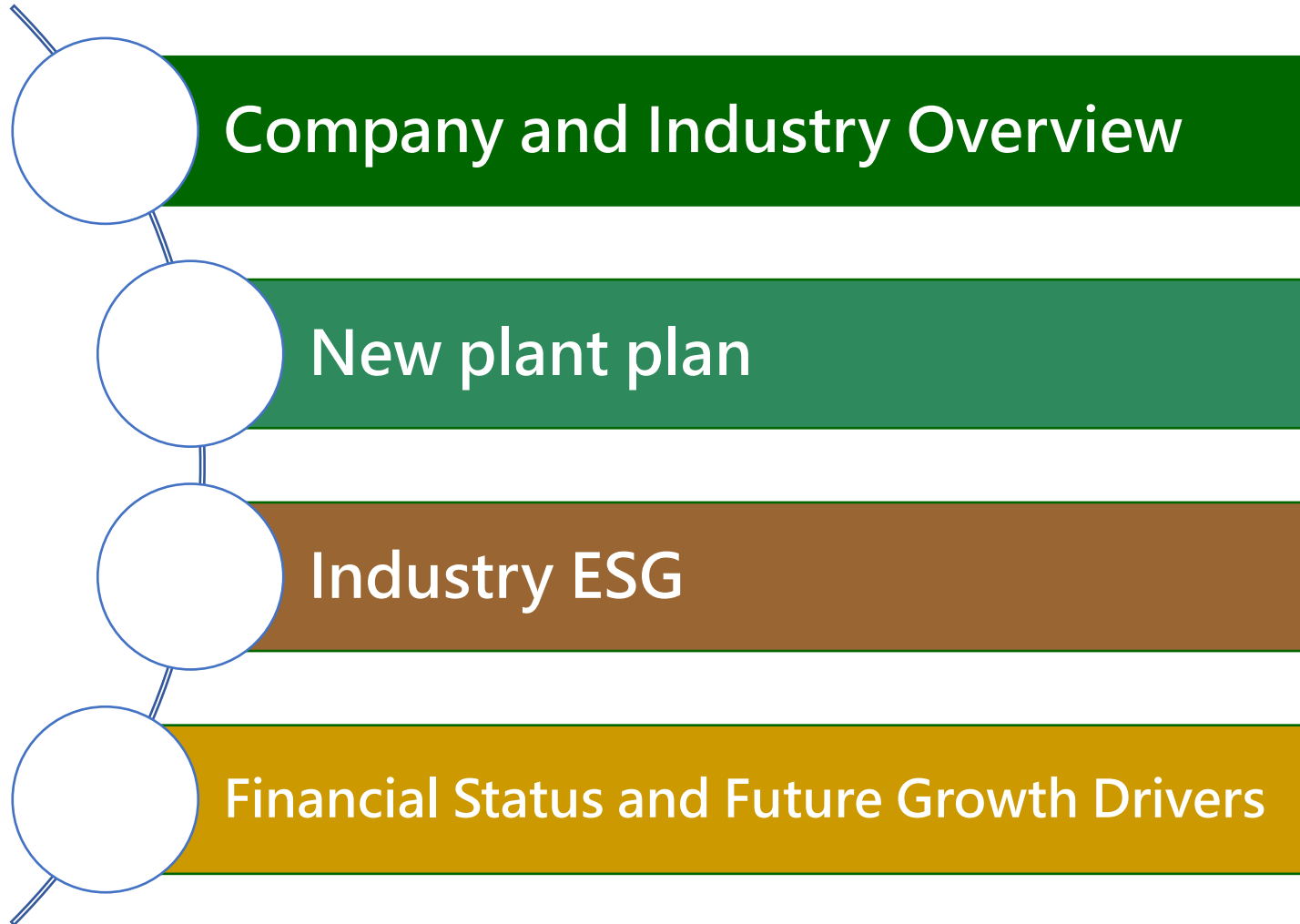


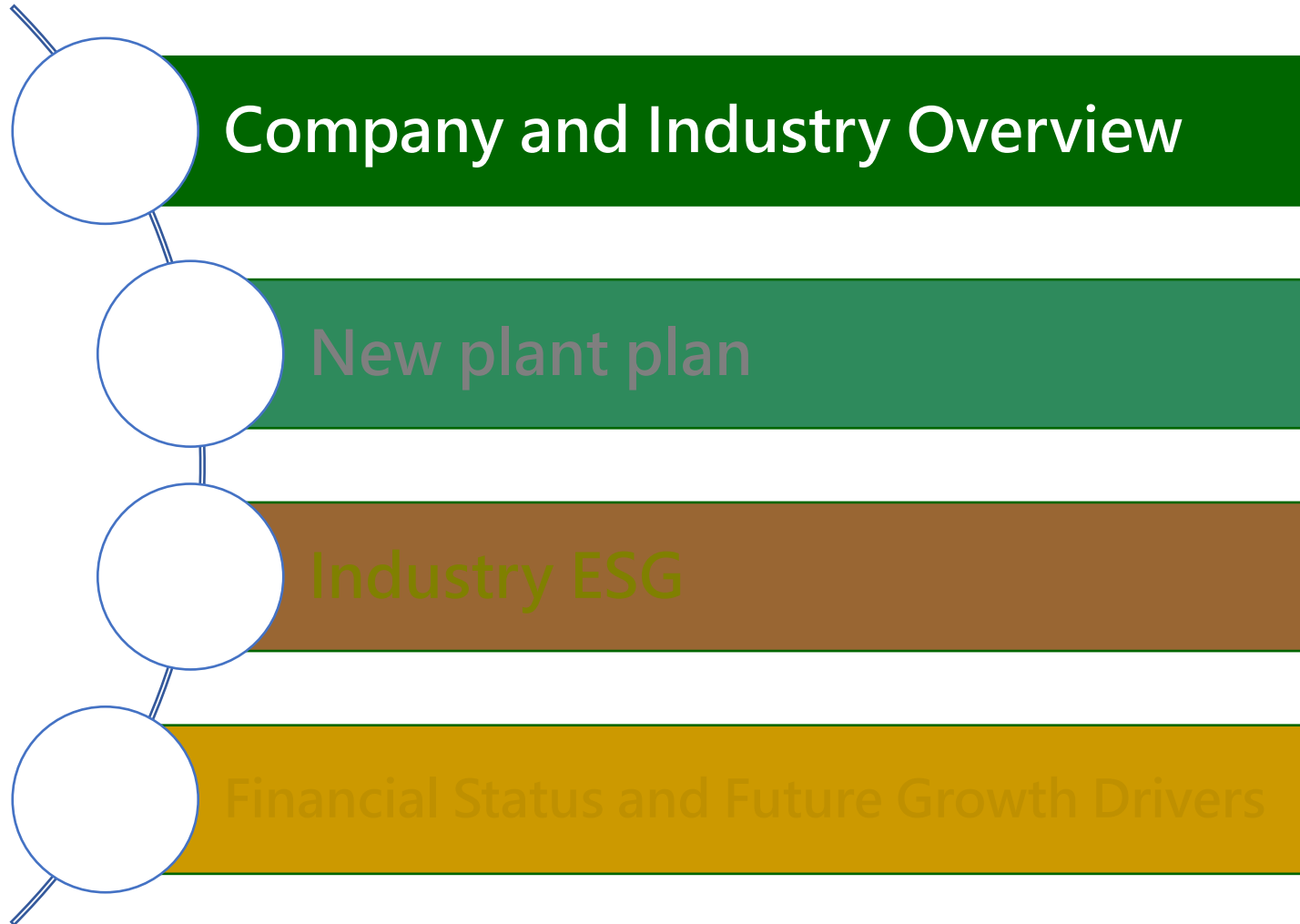
# 2024 Investor Conference

Skill First, Quality First, Service First.

Green Industry  
Circular Economy

2024.12.05





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)

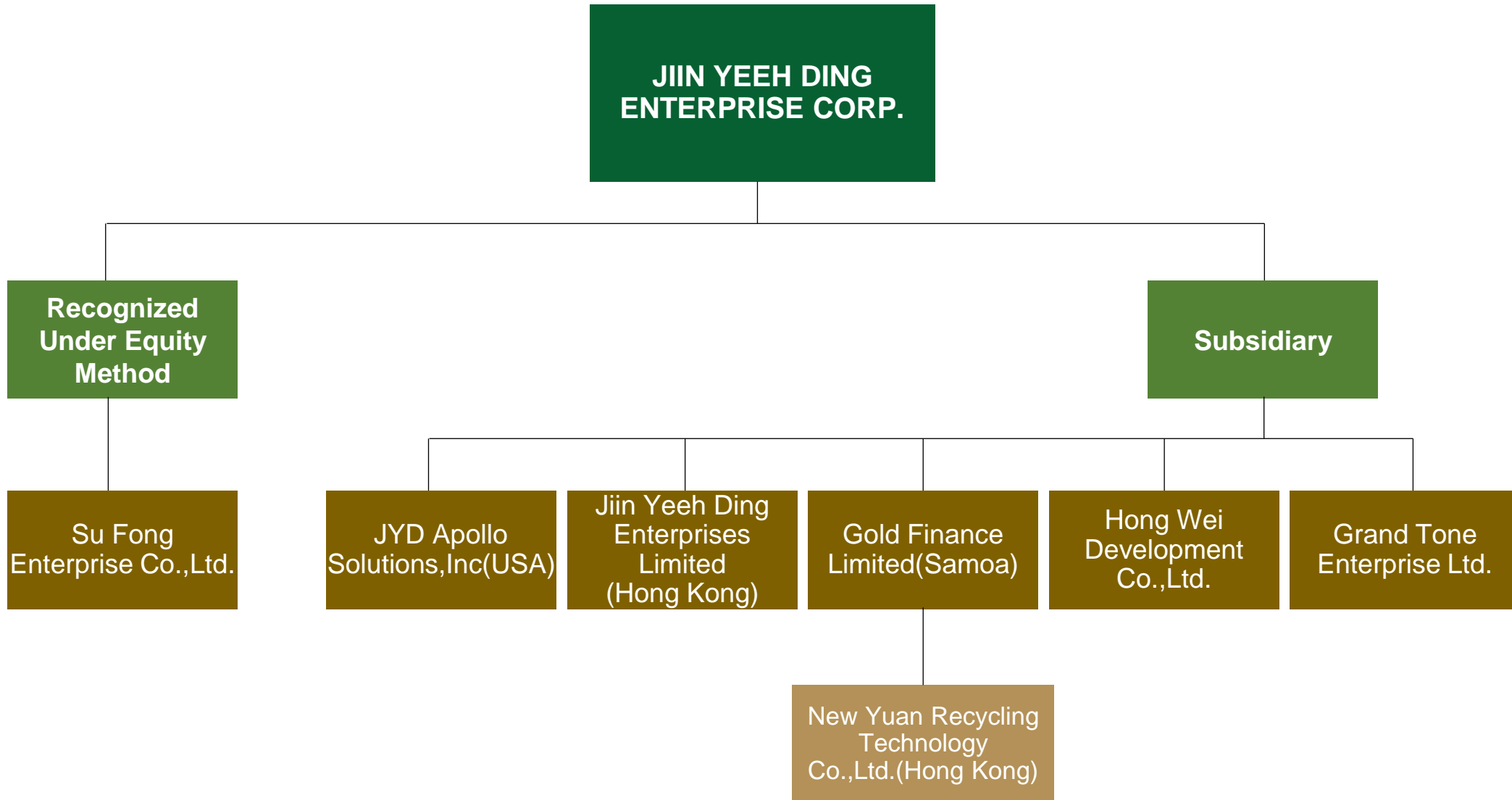


About J.Y.D  
QR Code

Investors (or stockholders) contact :  
Tel : 03-5182368 Ext.:205  
Fax : 03-5182968  
E-mail : [yen.chu@tw.jydgroup.com](mailto:yen.chu@tw.jydgroup.com)



# Group Structure





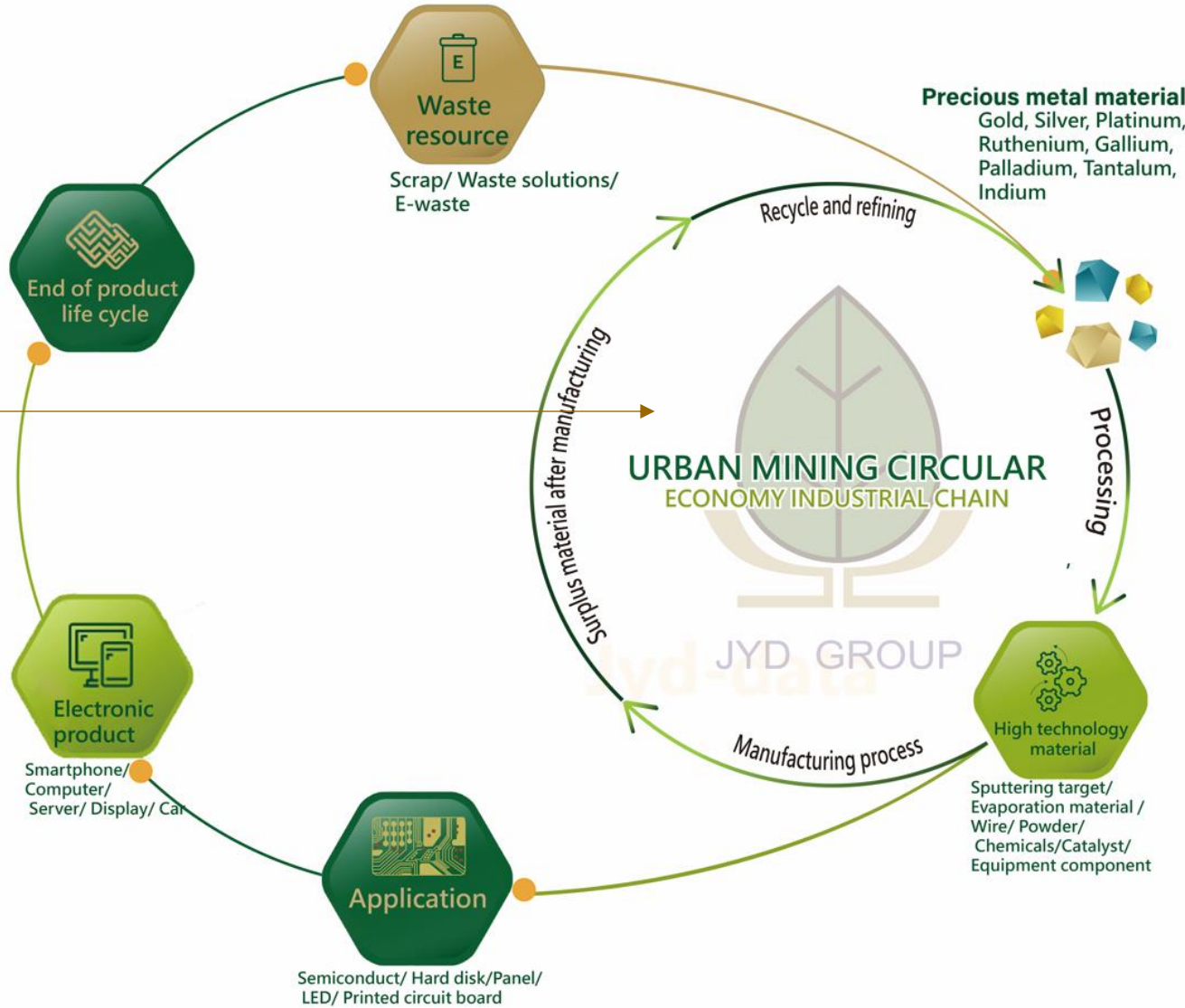


# Business Model-Circular Economy Chain

**Upstream**  
E-waste including scraps of motherboards, PCBs, electronic parts and components, and plating solutions generated by the electronics industry

**Midstream**  
JYD creates valuable copper, aluminum, gold, and precious metals which can be utilized as raw materials for production processes after collection, sorting, and processing of E-waste.

**Downstream**  
Supply of such recovered raw materials to manufacturer for production.





# Domestic business model





## Recycling industry leader

### Extensive Operational Scope

Jin Yi Ding has established a Class A professional cleaning, recycling, and treatment plant in Hsinchu City and a Class A professional cleaning plant in Kaohsiung City, providing services across Taiwan.

Recognized and trusted by major international companies, Jin Yi Ding has collaborated with these partners for over 15 years. Its service areas have expanded from Southeast Asia to Europe, the Americas, and the Australasian regions.

### Highly Mobile Dedicated Fleet

Jin Yi Ding operates a dedicated fleet for waste collection and transportation, equipped with GPS and integrated with an "Intelligent Fleet Management System." This allows for flexible adjustments based on customer needs and ensures clear tracking of waste flow throughout the disposal process.

### Professional Equipment

Jin Yi Ding owns advanced recycling and treatment equipment, including shutter cleaning equipment, precious metal recovery equipment, crushing and sorting equipment, and pollution prevention systems. With comprehensive processing procedures, the company ensures exceptional quality control.

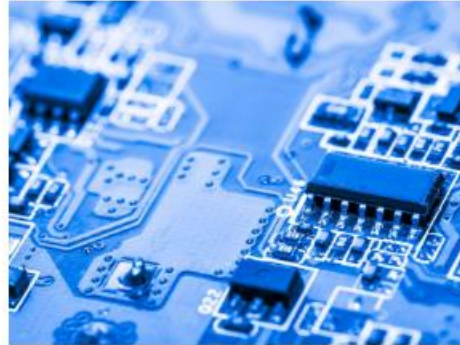




# Service Targets in Taiwan



**Conductor Industry**  
(design, manufacturing,  
packaging, testing, etc.)



**Printed circuit board industry**  
(PCB · BGA · FPC...)



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



**IC testing and package industry**



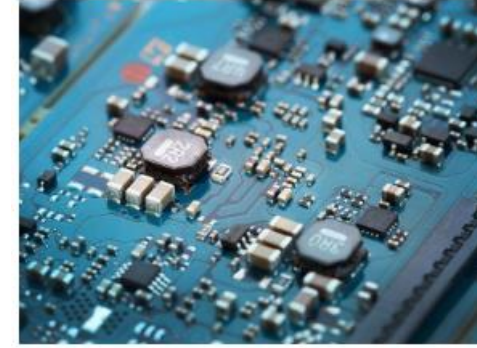
**Optoelectronics industry**  
(LCD, LED, etc.)



**Passive component industry**  
(capacitance, resistance,  
inductance)



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



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



# Products

<p>Gold</p>		<p>Precious metal composite products</p>	
<p>Silver</p>		<p>General metals</p>	
<p>Palladium</p>			
<p>Platinum</p>			





## 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 約10 ~ 50%
  - "Soft PCB" copper content 40 ~ 60%
  - "Trimmed PCB" copper content 25 ~ 60%
- End-of-life electronic and electrical products**

## Urban Mines > Raw Mines

Urban mines is secondary resource recycle 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**



# Annual gold/copper recycling volume compared to natural gold/copper mining volume



The carbon emissions per gram of recycled **gold** are 0.995 kg, while the carbon emissions per gram of **gold** extracted and refined from mines are 32.689 kg, a difference of about **32** times.

## JYD (Gold) Statistics

Year	Item	Converted metal weight(KG)	Converted ore weight(KG)
110	Gold	716	238,666,667
111	Gold	650	216,667,667
112	Gold	<b>529</b>	<b>176,449,969</b>

Gold(Au)content compared to crude ore:Crude ore has a gold(Au)content of approximately0.003g/kg

## JYD (Copper) Statistics

Year	Item	Converted metal weight(KG)	Converted ore weight(KG)
110	Copper	4,358,099	145,269,953
111	Copper	4,314,129	143,804,311
112	Copper	<b>4,856,428</b>	<b>161,880,934</b>

Copper(Cu)content compared to crude ore:Crude ore has a Copper(Cu)content of approximately3%







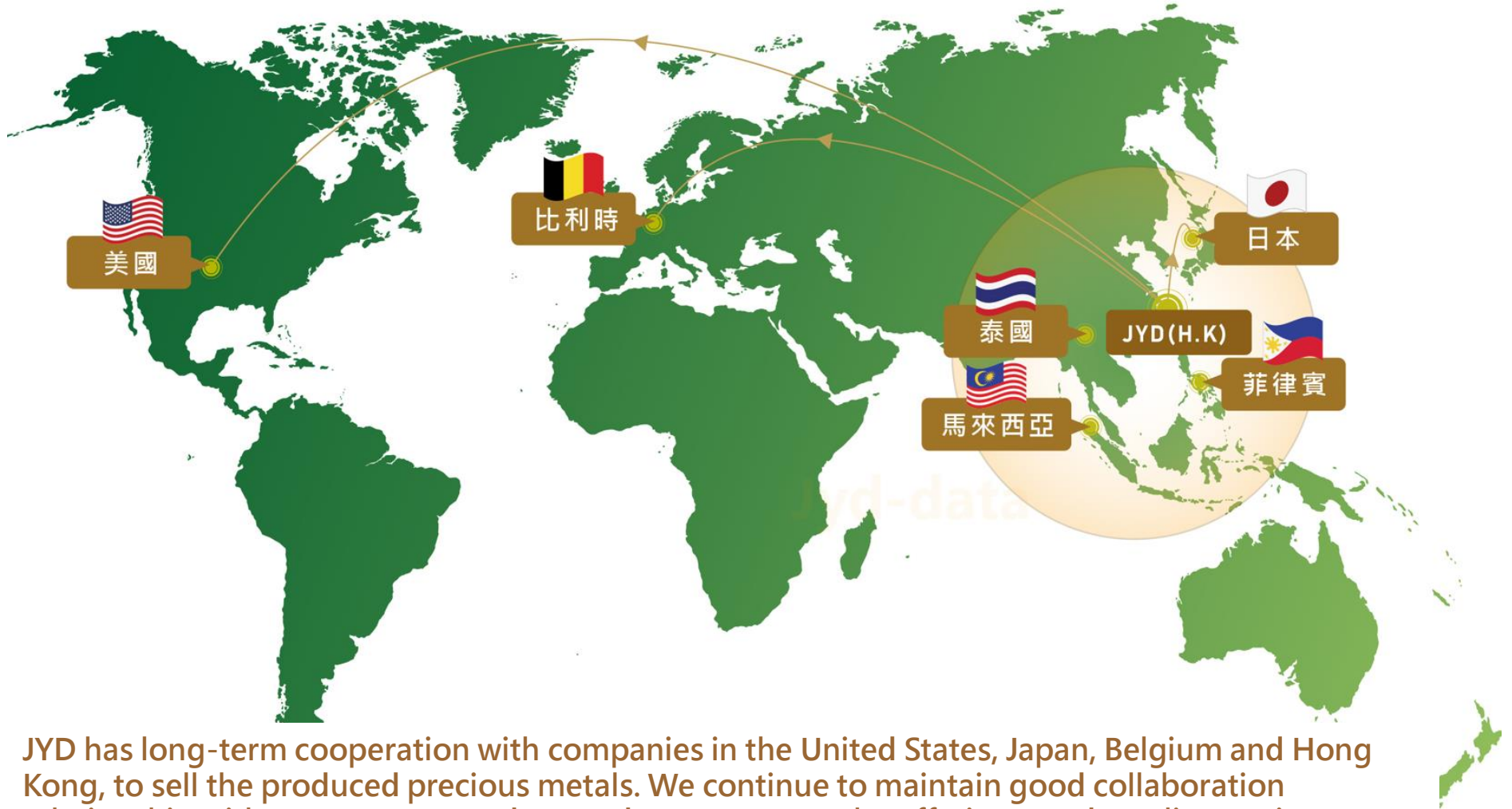
# Sources of Materials



- 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.



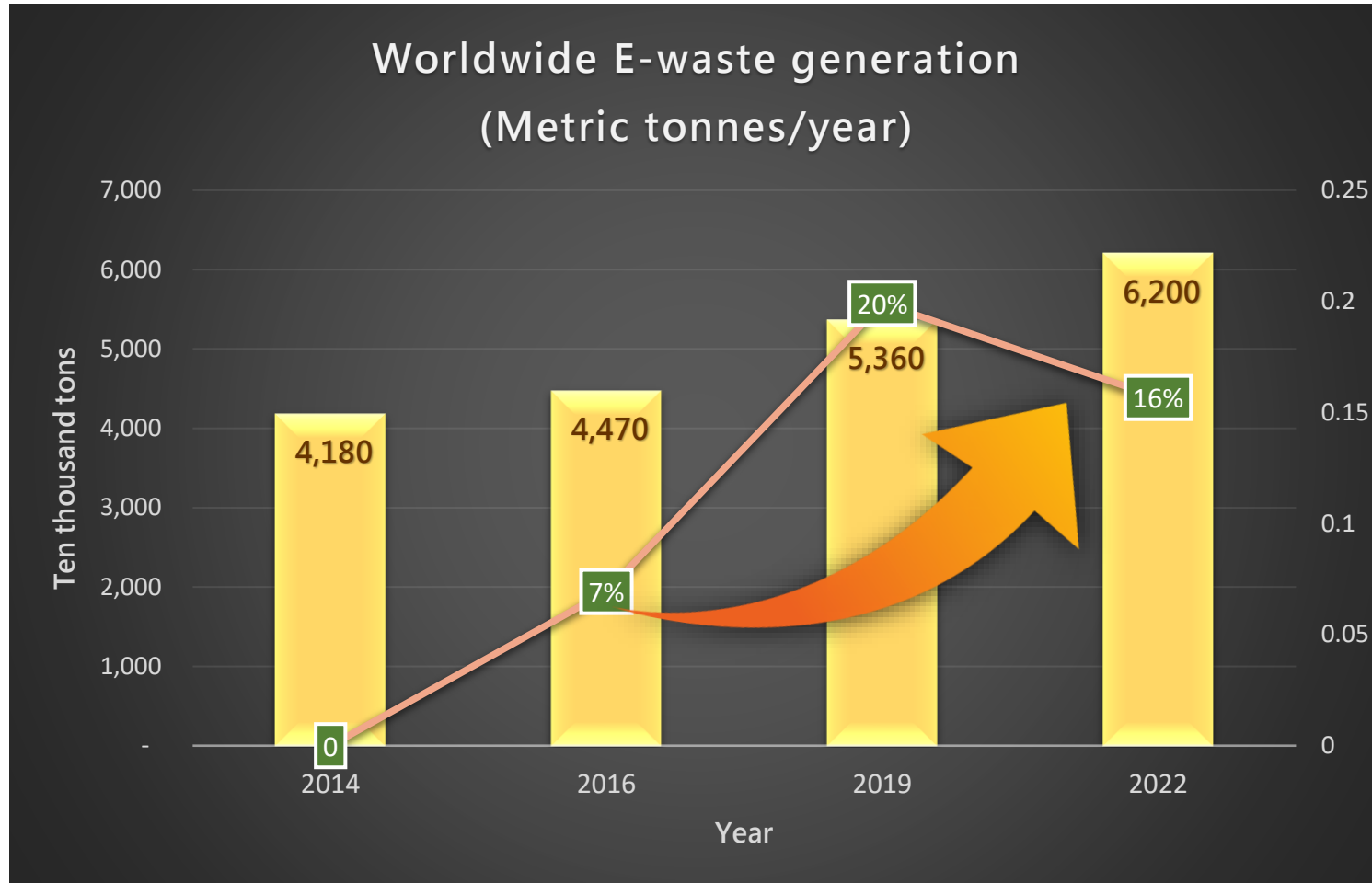
# J.Y.D partners, continuity of industrial chain



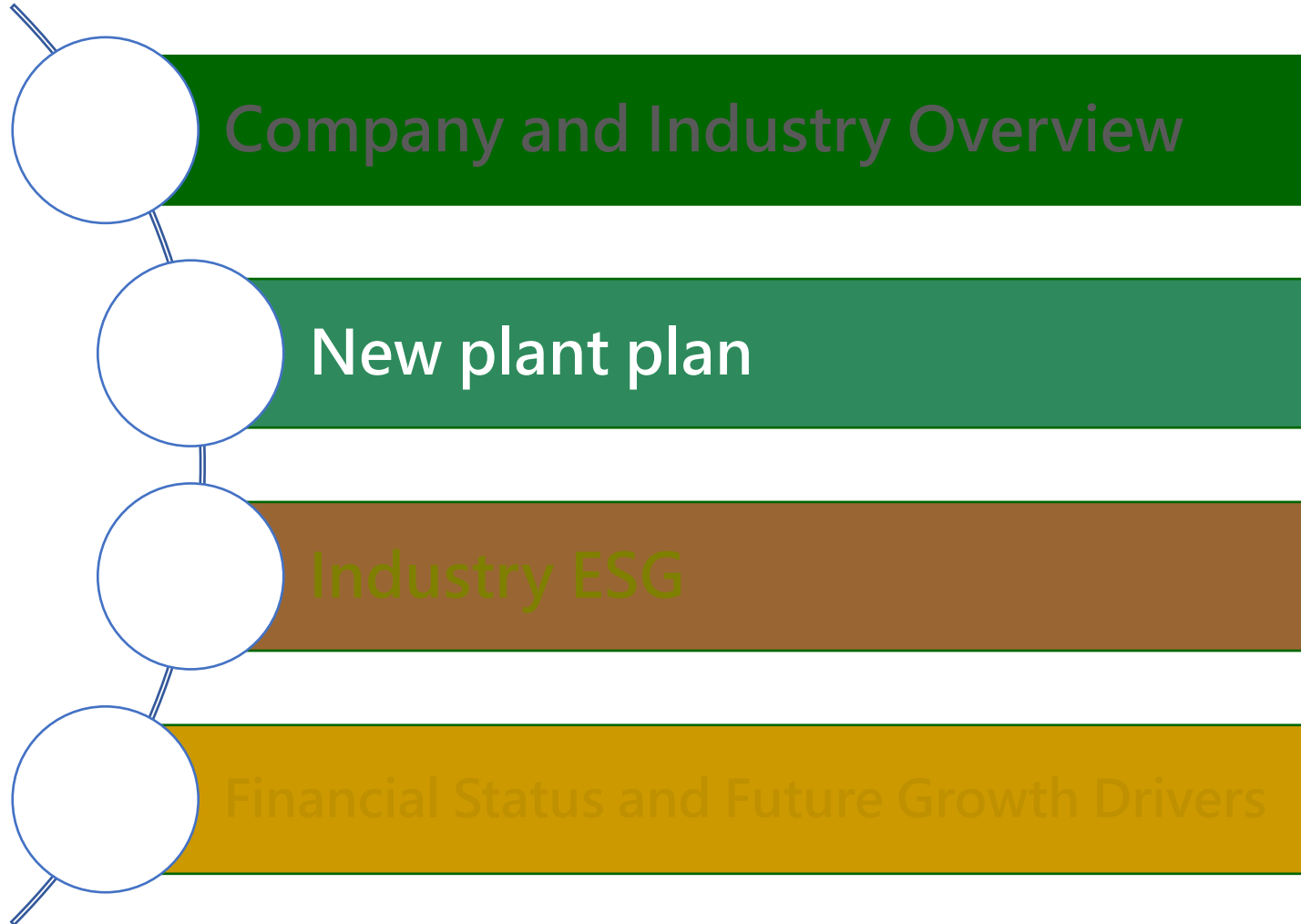
JYD has long-term cooperation with companies in the United States, Japan, Belgium and Hong Kong, to sell the produced precious metals. We continue to maintain good collaboration relationship with our partners, and expand our customers by offering good-quality services.



# The Global E-waste Monitor



Year	Ten thousand tons	Growth %
2014	4,180	-
2016	4,470	7%
2019	5,360	20%
2022	6,200	16%







# Xibin Factory Progress





# Factory expansion plan



<p><b>Planning a new factory</b></p>	<p>©Xibin Factory</p>		
<p><b>Processing Items</b></p>	<p>Small household appliances waste treatment</p> <p>In addition to four machines and computer, electrical appliances include weighing machines, blood pressure machines, scanners, electric fans, walkie-talkies, calculators, etc.</p>	<p>Solar panel waste disposal</p> <p>Solar panels waste</p>	<p>Mixed hardware disassembly</p> <p>Telecommunications equipment, machinery and equipment and semiconductor equipment filters</p>
<p><b>Disposal capacity</b></p>	<p><b>9,600 tons/year</b></p>	<p><b>21,600 tons/year</b></p>	<p><b>6,000 tons/year</b></p>
<p><b>Sources of Materials</b></p>	<p>Industry and civilian generation</p>	<p>Business institutions &amp; Solar power generation facility</p>	<p>Business institutions</p>



# Waste Solar Panel Recycling Technology

Before processing

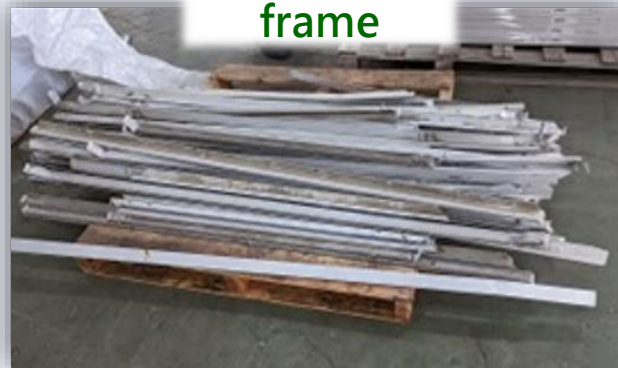


After processing  
( resource materials )

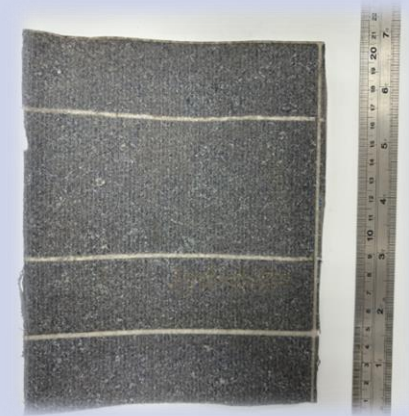
Glass



Aluminum  
frame



After processing ( precious  
metal containing materials )





# Solar Panel Recycling at New Facility with Advanced Patented Technology

## Patent application

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

### J.Y.D-Solar panel recycling system and recycling method (TW) patent application

Project Code	Execution Status	Category	Application Country	Application Date	Application Number	Application Status
B0161-23-016-I-TW	Obtained (Under Maintenance)	Invention	Taiwan	2023/05/12	112117765	Patent Certificate Received on 2024/7/2 Patent Number: I847691
B0161-23-016-M-JP	Obtained (Under Maintenance)	Utility Model	Japan	2023/11/07	2023-004018	Patent Approved by Japan Patent Office on 2023/12/27 Patent Number: 3245211

Patented technology can achieve complete recycling and zero landfilling

New plant plan





## JYD Apollo Solutions, Inc

Establishment date	Jan. 01, 2024
Factory address	9761 Clifford Dr STE 170, Dallas, TX. 75220
Factory area	21,947 Square feet

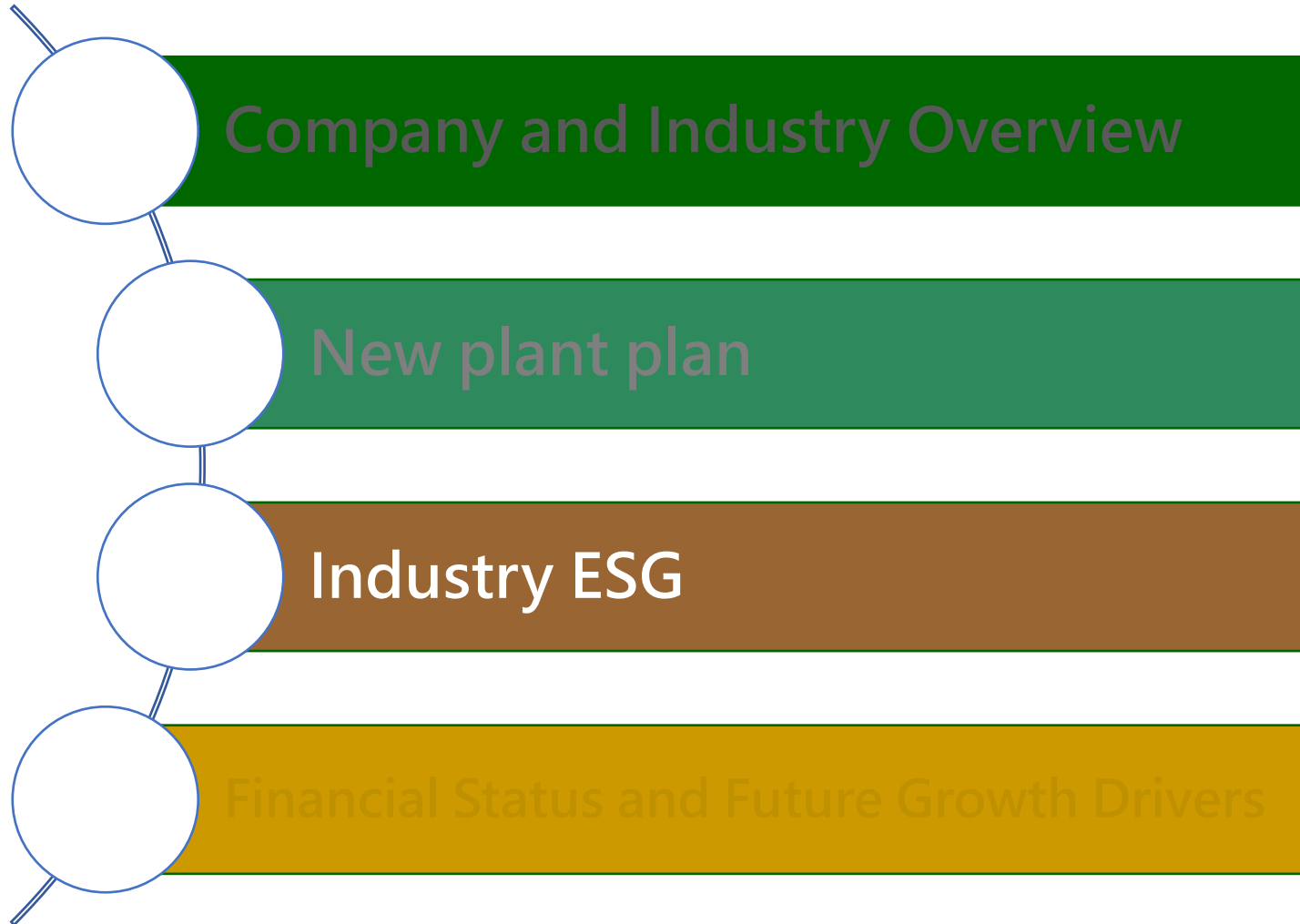


Company Entrance



Factory

New plant plan





# 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.

## Motivation

- In response to the impacts of climate change and the growing international attention to sustainability issues, Taiwanese companies should take proactive measures.

## Short-term Goals

- Achieve the RE10X10 green electricity initiative' s commitment to use 10% green electricity in 2025.
- Completion of annual GHG inventory work
- 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
- Completion of external verification for carbon neutrality by 2050





## Certified to the following standards :

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- ✓ R2v3 Responsible Recycling
  - ✓ UL2809 Gold Nugget contains 100% recycled content.
  - ✓ ISO 14064
  - ✓ ISO 9001
  - ✓ ISO 14001
  - ✓ ISO 45001
  - ✓ Gold Product Carbon Footprint Certification  
GOLD INGOT(1 G,PURITY>99.9% ) (2011)
- 



UL2809





# Deployment of green energy investment



Xibin Factory: Installation of approximately 1 million KW of solar panels (self-generation and self-use)

Jiin Yeeh Ding has no problem fulfilling the commitment!  
The commitment for RE10X10 by the end of 2025: Using 10% green energy, approximately 180,000 kWh.

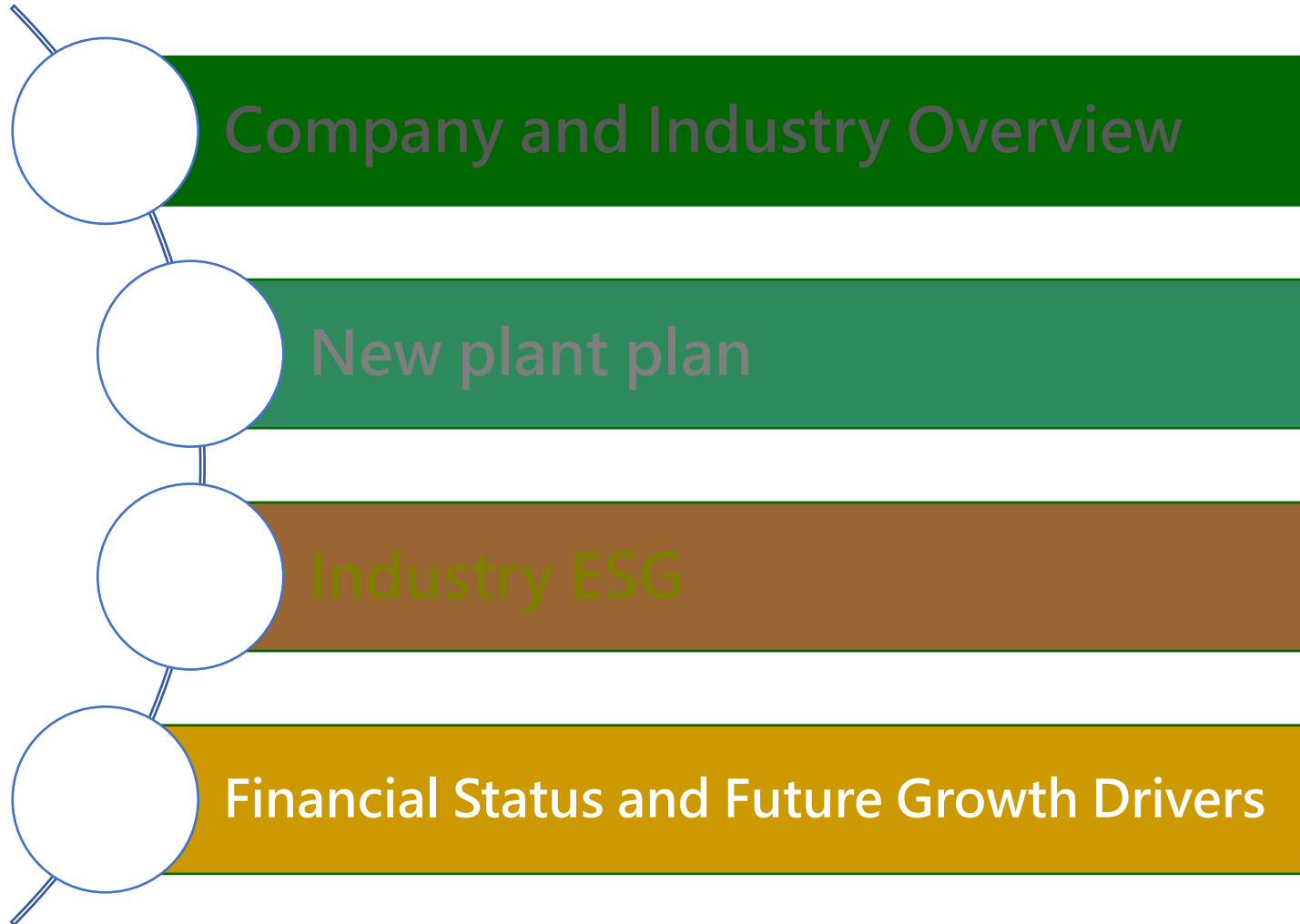
Fishery-Solar Hybrid Facility:  
Approximately 1.75 million KW per year



◎ Installed capacity \* average sunlight hours \* days

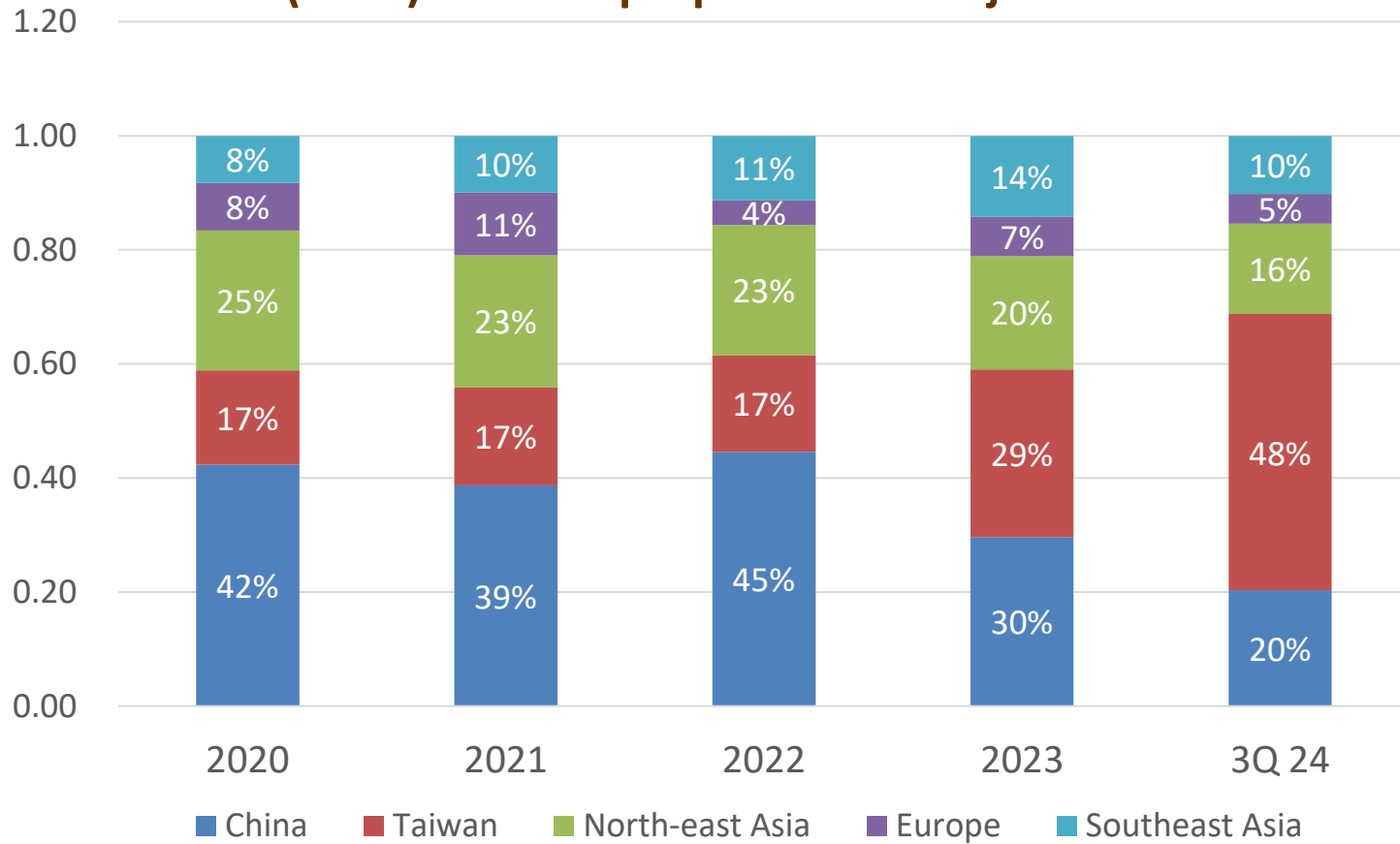
Xibin Factory  
 $889.575 * 3 * 365 = 974,084$  KW

Fishery-Solar Hybrid Facility  
 $1353.2 * 3.5 * 365 = 1,728,713$  KW



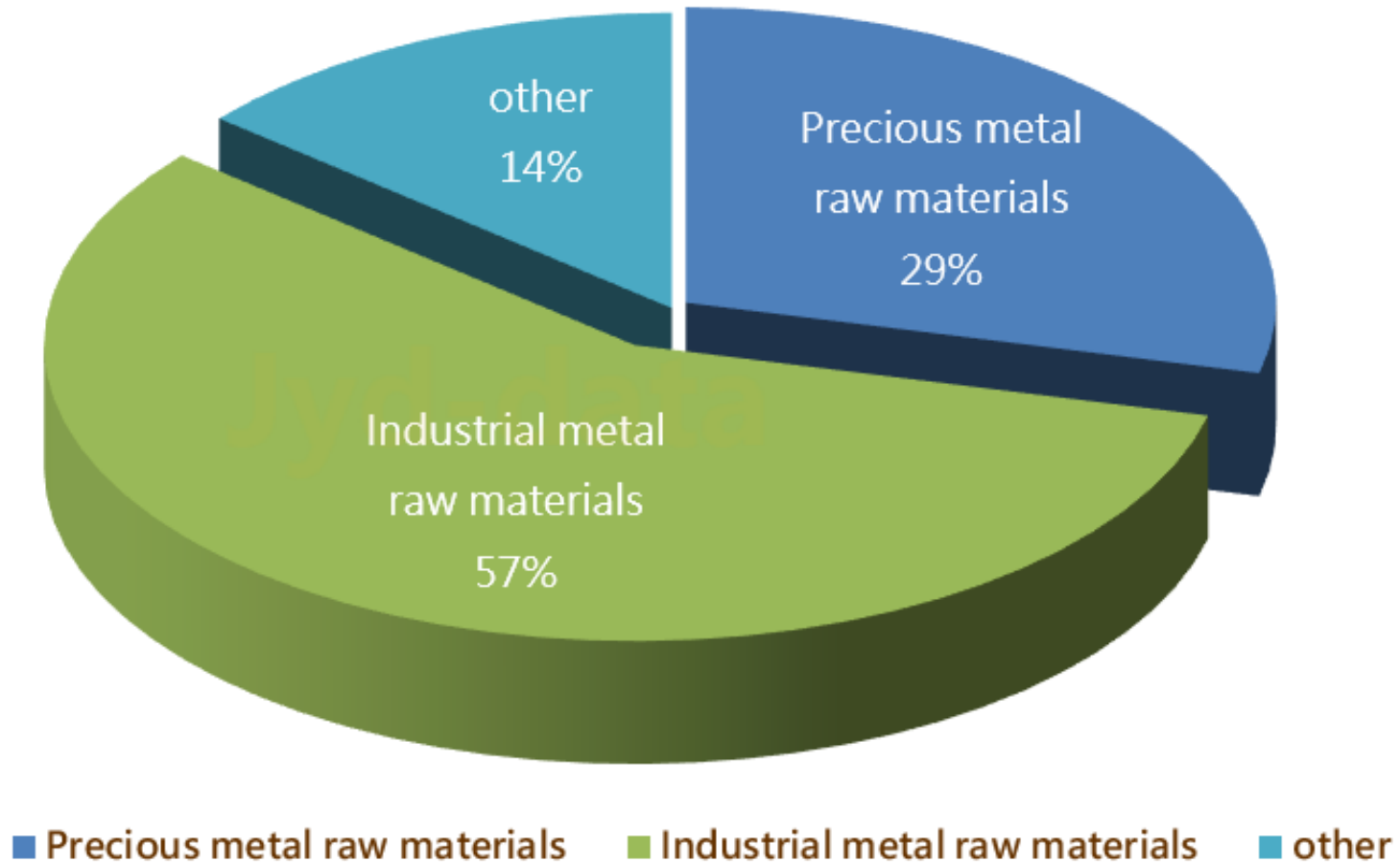


### J.Y.D(8390)Revenue proportion of major markets



% of revenue	2020	2021	2022	2023	3Q 24
China	42%	39%	45%	30%	20%
Taiwan	17%	17%	17%	29%	48%
North-east Asia	25%	23%	23%	20%	16%
Europe	8%	11%	4%	7%	5%
Southeast Asia	8%	10%	11%	14%	10%

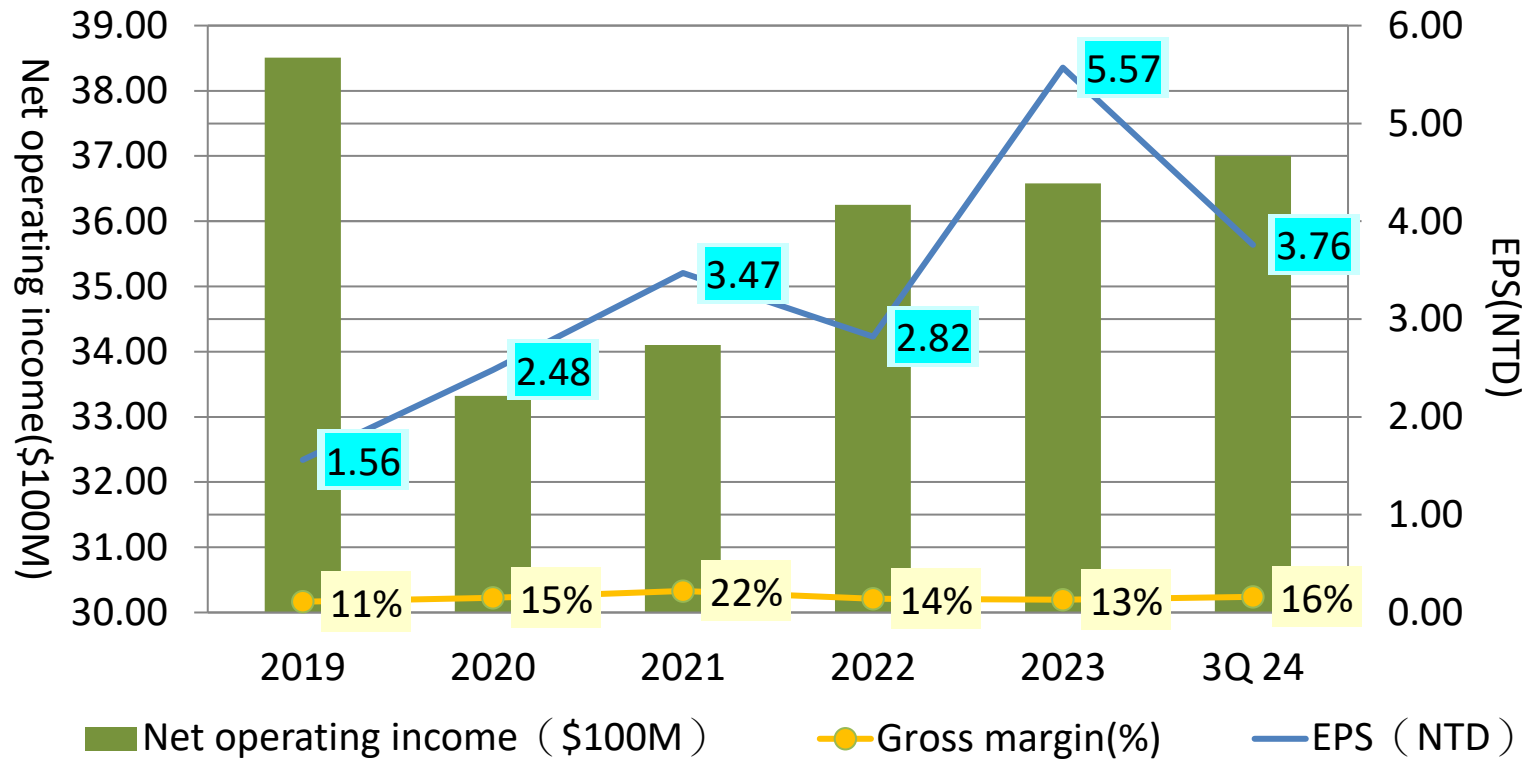
## Sales proportion





# J.Y.D(8390)

## Net operating income/EPS/Gross margin

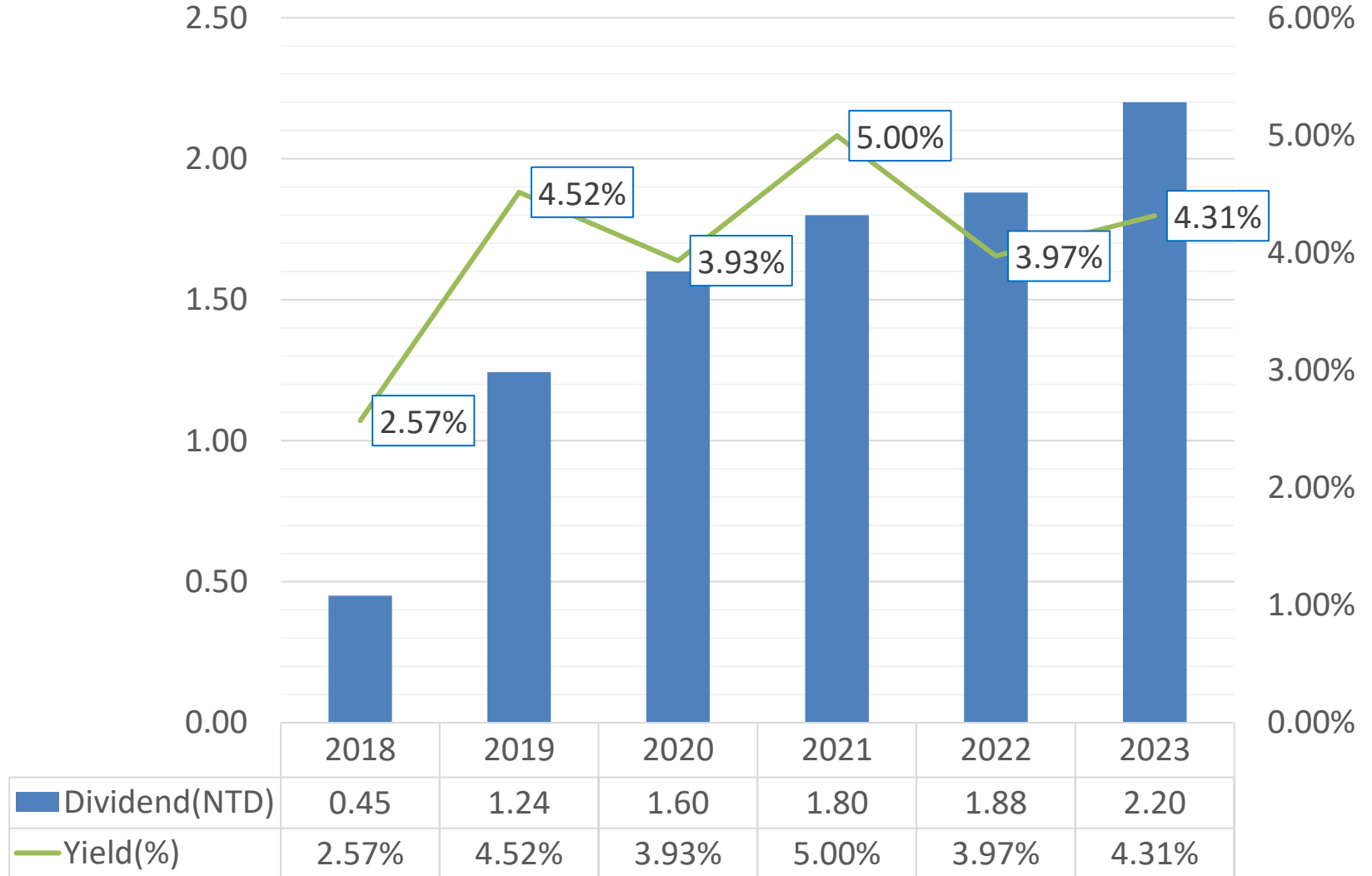


Year	2019	2020	2021	2022	2023	3Q 24
Net operating income ( \$100M )	38.51	33.32	34.10	36.25	36.58	37.00
Gross margin(%)	11%	15%	22%	14%	13%	16%
EPS ( NTD )	1.56	2.48	3.47	2.82	5.57	3.76



# J.Y.D(8390)Dividends over the years

(%)





# Future Operational Plan



01

Jiin Yeeh Ding Xibin Factory is scheduled to be completed and officially operation by 2025, boosting business revenue from Class A waste disposal of mixed hardware, including waste small household appliances and waste solar panels.



02

Establish a comprehensive processing procedure for waste solar panels and apply for patents in multiple countries (patents have already been granted in Taiwan and Japan). Continue patent applications globally while expanding into the waste solar panel recycling market in the United States.



03

Keep developing the market access and recycling of electronic waste and mixed metal in Southeast Asia.



04

Form strategic alliances with battery treatment plants to expand and extend the electronic waste disposal market.



05

Invest in green power, securing a 1,300-kilowatt fishery and electricity symbiosis project to fulfill the RE10X10 green power initiative's commitment of using 10% green power by 2025, with the ultimate goal of achieving net zero carbon emissions by 2050.



JYD GROUP

# End of Presentation Q&A



## Urban Mining Recycling and Refining

### Resource Circulation, A Glorious Transformation into Pure Gold Nuggets

Unlike gold jewelry extracted from gold mines, Jin Yi Ding's gold nuggets are refined from urban mines. Once discarded materials, through our complex refining processes, are transformed into shining 9999 pure gold nuggets, ready for you to treasure. We invite you to value the resources hidden within cities and support Jin Yi Ding in mining urban resources, promoting continuous resource circulation and sustainability.



About J.Y.D  
QR Code