

Better water Better world
All rivers are clean and no water is polluted.



6641

GSD
Technologies
Co.,Ltd.

2024.03.27

GREEN · SAFE · DEVELOPMENT





CONTENTS

- 01  Company Profile
- 02  Operating Performance
- 03  Industry Overview
- 04  Operating Strategy



Company

Profile

01

GSD Technologies Co., Ltd.



Stock code

6641



Industry

Green Energy &
Environmental
Services



Established

2013/10



Staffs

609



Capital

NTD 370 m

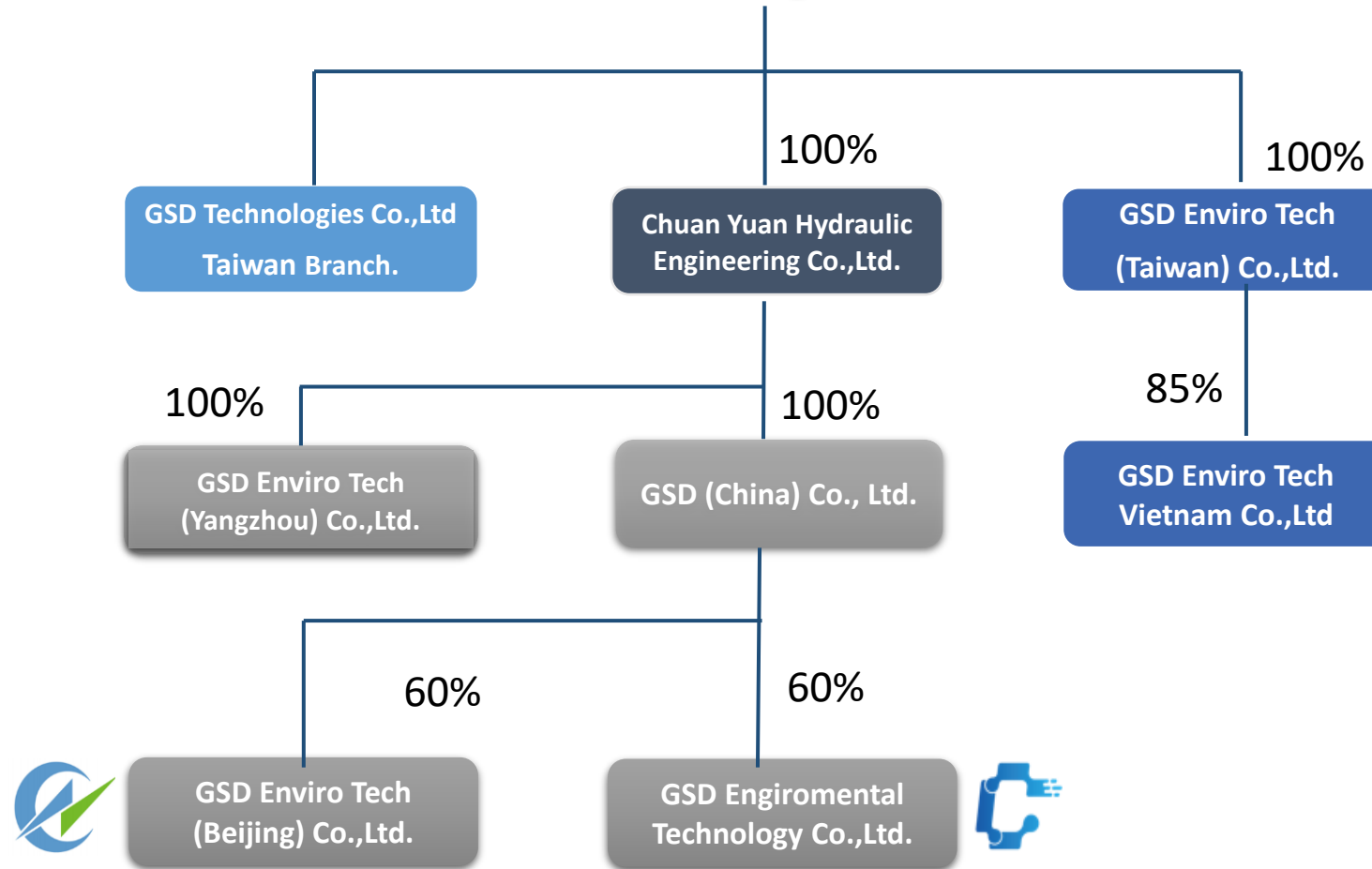
Major business

- ◆ Environmental equipment manufacturing, sales & technical services.

Brand
Plant

- ◆ GSD
- ◆ Pinghu in Zhejiang & Yangzhou in Jiangsu

GSD Technologies Co.,Ltd.



Philosophy

GREEN Friendly commitment to the earth's environment and ecology.

SAFE Responsible commitment to customer / supplier / employee / stakeholder/other relative organization.

DEVELOPMENT Commitment to sustainable development of the company.

Mission

To optimize the ecological environment and benefit to the world.

Vision

Environment : All rivers are clean and no water is dirty.

Company : Being paragon to all brands, being leader in WWTP industry.

Colleague : To enable our staff' s devotion in wonderful career and life.



Comprehensive provider of environmental governance



Equipment RD/Manufacturing

Over 11 product Series

Water recycle & delivery | Sludge treatment | Resource utilization



Equipment & process integration

Provide equipment integration general contracting services for various water treatment projects.



Energy saving solution

Providing assessment diagnosis, energy-saving solutions and equipment support for water treatment.



Environmental intelligence services

Provide intelligent energy-saving solutions for plant/system.

Equipment health management | Process optimization
Precise system control | Cost reduction & efficiency improvement management.



Operation & maintenance

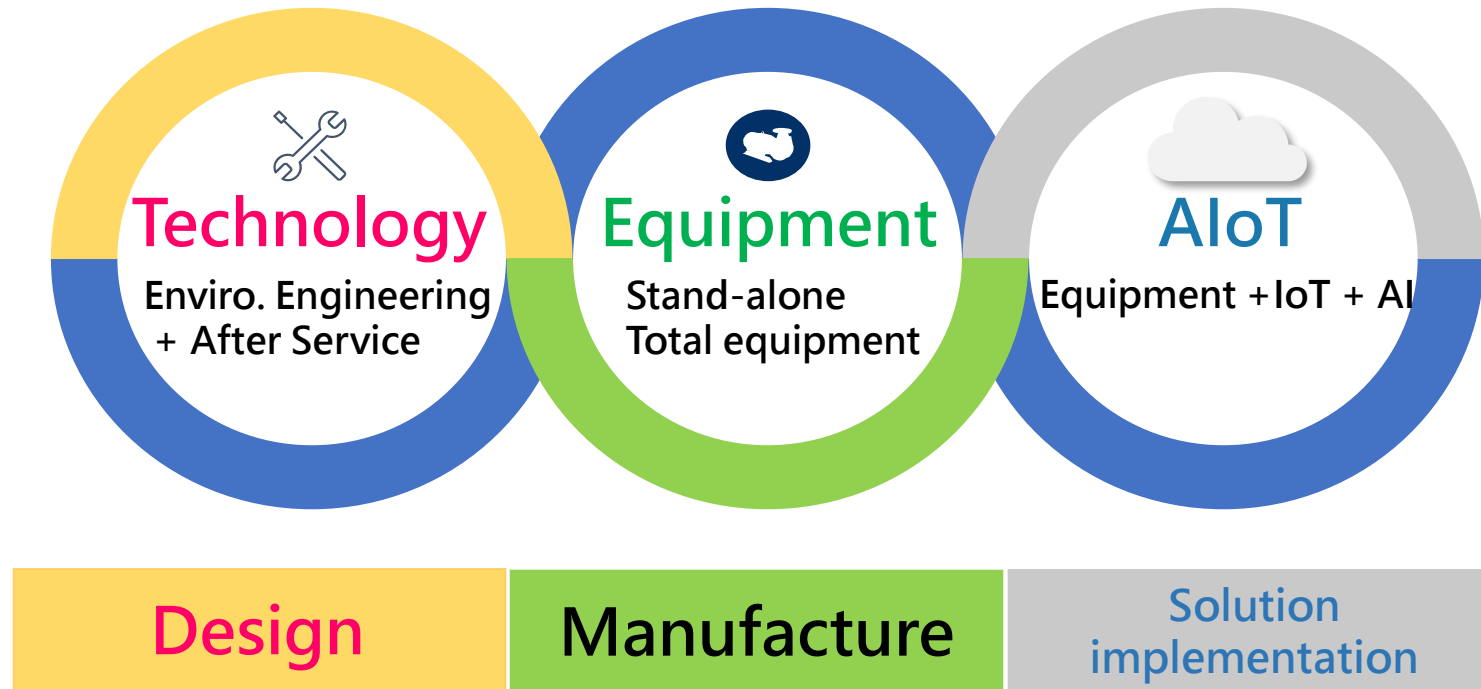
Undertake water treatment projects, equipment maintenance & repair services for municipal & industrial.



Sludge treatment solution

Various cooperation models help users with sludge disposal, efficient mud-water separation, drying, and resource utilization.

Comprehensive service provider of environmental governance





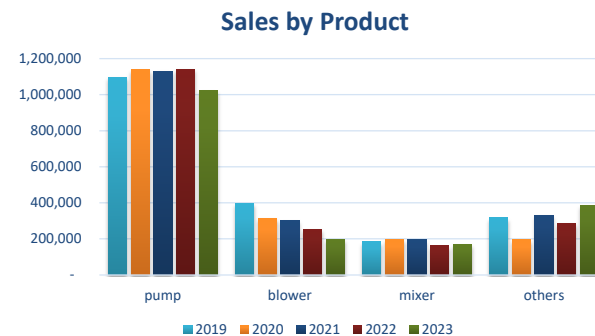
Operating Performance

02

Product Sales/ Income Statement

Items	2019	2020	2021	2022	2023
Revenue	1,992,051	1,846,674	1,960,518	1,840,584	1,774,243
Sales margin	771,093	739,951	751,949	660,284	569,600
Op. Income	240,532	262,105	203,227	115,651	-13,341
EBIT	282,631	290,949	256,126	201,685	43,647
Net income	227,154	215,511	212,274	173,925	38,182
EPS	6.79	6.52	6.30	5.00	1.28

item	2019		2020		2021		2022		2023	
	AMT	%	AMT	%	AMT	%	AMT	%	AMT	%
pump	1,097,049	55.07	1,138,671	61.66	1,130,537	57.67	1,141,152	62.00	1,020,794	57.53
blower	395,382	19.85	313,497	16.98	302,771	15.44	251,843	13.68	195,996	11.05
mixer	182,604	9.17	199,597	10.81	195,171	9.96	161,280	8.76	170,973	9.64
others	317,016	15.91	194,909	10.55	332,039	16.94	286,309	15.56	386,480	21.78
Total	1,992,051	100.00	1,846,674	100.00	1,960,518	100.00	1,840,584	100.00	1,774,243	100.00

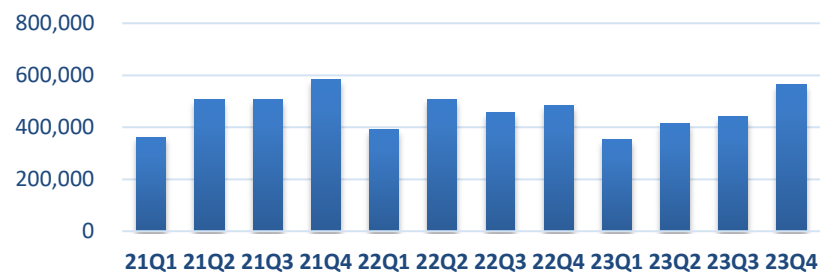


2023 Project contract revenue
144,737 thousands NTD(8.16%)

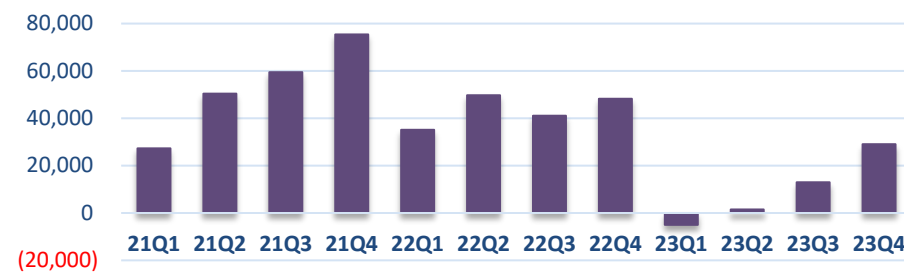
Income statement

Items	2021Q1	2021Q2	2021Q3	2021Q4	2022Q1	2022Q2	2022Q2	2022Q2	2023Q1	2023Q2	2023Q3	2023Q4
Net Sales	361,672	506,872	507,774	584,200	391,236	509,063	455,796	484,489	352,805	414,039	441,625	565,774
Sales margin	145,642	211,623	183,314	211,370	127,867	170,944	170,179	191,294	122,625	142,974	145,136	158,865
Op. Income	24,959	67,917	43,095	67,256	13,659	30,197	30,975	40,820	(7,673)	(4,761)	238	(1,145)
EBIT	30,530	62,506	76,860	86,230	32,735	58,067	47,239	63,644	(404)	3,721	13,944	26,386
Net income	27,205	50,316	59,438	75,315	35,017	49,698	41,026	48,184	(5,099)	1,379	12,856	29,046

Revenues



Net Income



EPS & dividend (NTD %)

Items	2019	2020	2020	2022	2023
EPS(1)	6.79	6.52	6.3	5.0	1.28
EPS(2)	6.79	6.55	5.91	5.0	1.28
Cash dividend	4.5	4.5	4.5	3.5	1.0
payout ratio (%) (N1)	66%	69%	76%	70%	78%

EPS(1): counted by average shares

EPS(2): counted by year end shares

N1: counted by EPS(2)



Industry Overview

03

TW

According to preliminary statistics from Taiwan's Accounting and Accounting Office, the annual economic growth rate in 2023 is estimated to be **1.31%**. The economic forecast was released in February, and the economic growth rate in 2024 was revised upward to **3.43%**, the best performance in the past three years. Economic growth momentum is driven by consumption, and the economy continues to recover.

CHINA

Mainland China's GDP growth rate in the fourth quarter of 2023 was 5.2%, slightly lower than market expectations of 5.3%. The full-year GDP growth in 2023 is 5.2%, in line with market expectations; the 2024 forecast is 5%.

Viet Nam

According to newly released data from the General Bureau of Statistics of Vietnam, Vietnam's GDP will grow by 5.05% in 2023, which is lower than the 6.5% set by the government. Vietnam's National Assembly adopted a full-year target of 6% to 6.5%. The positive news has restored growth momentum for Vietnam's manufacturing and export industries.

COP 28



Energy efficiency
management



2023 is the hottest year ever

Conclusions...

The "Global Stocktaking Resolution" states that to achieve temperature control goals, carbon emissions must be reduced **by 43% in 2030** compared with 2019, and countries must propose new nationally **determined carbon reduction contributions in 2025**.

Nearly 200 countries have pledged to “transform their energy systems **away from fossil fuels**” .

Accelerate **methane reduction** by 2030

Global **renewable energy** production capacity will be tripled by the end of 2030, and the **energy efficiency** improvement rate will be doubled.

Keywords for Mainland China Two Sessions

High-quality development has become the main theme

New productivity has the points for **high technology, high efficiency and high quality**. The key is advanced productivity.

Starting from 2024, **long-term special government bonds** will be issued for several consecutive years, with an initial issuance of **CNY 1 trillion**.

Green development is the foundation for high-quality development, giving priority to ecology and green development. Accelerate the development of green transformation and help reach carbon peak and carbon neutrality.

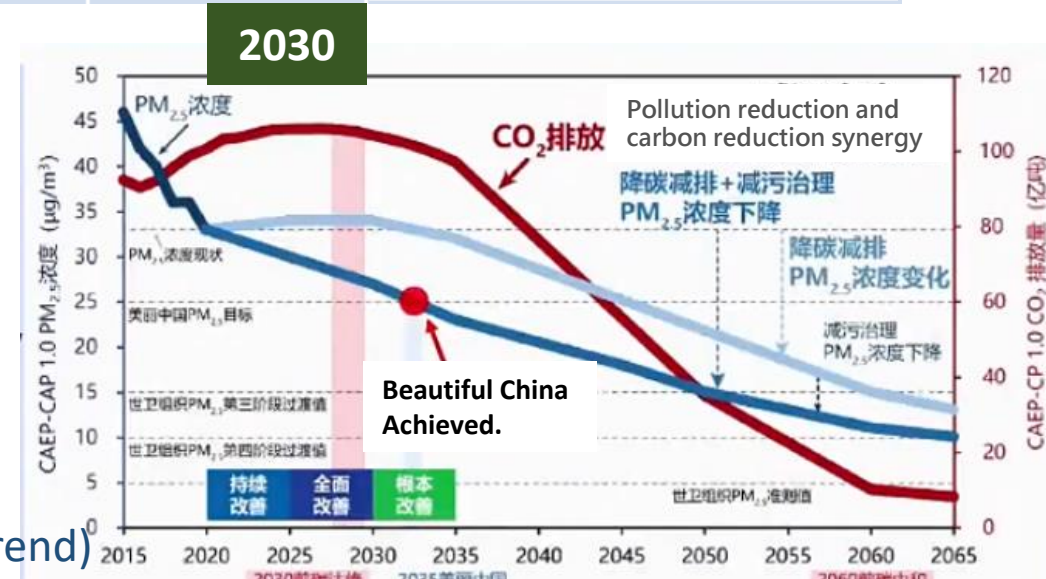
2016-2020	2021-2025	2026-2030	2031~
Water 10 th Stage 1	Water 10 th Stage 2		Water 10 th Stage 3
<ul style="list-style-type: none"> • Improve water quality. • Reduce polluted water. 	<ul style="list-style-type: none"> • Improve total water quality. • Initial restoration of aquatic eco-functions. 		<ul style="list-style-type: none"> • Improvement of ecological environment quality. • Make the ecosystem back to normal cycle.
13 th Five-plan	14 th Five	15 th Five	

Ecological policy

Carbon reduction 、 Pollution reduction
、 Green expansion 、 Growth

Pollution reduction and
carbon reduction synergy

(Pollution and carbon emissions are on a downward trend)



China establishes total carbon emission control system.

Total carbon emission control is carried out from 3 dimensions of national, local and industry.

"Dual control of carbon emissions" will change corporate behavior and force local economies to transition to zero-carbon.

Promote "dual control of energy consumption" to gradually shift to "dual control of carbon emissions"

China's total carbon emissions control system sets out goals and clarifies regional and industry responsibilities. For provinces where direct emissions have peaked, total carbon emission control will be implemented during the "14th Five-Year Plan" period. For provinces that have reached carbon emission peaks during the 14th Five-Year Plan period, both total carbon emissions and intensity controls will be implemented. For the 15th Five-Year Plan period, Provinces with carbon peaks will implement carbon emission intensity controls.

Such as steel, cement, non-ferrous metals and construction reached their peaks during the 14th Five-Year Plan, such as petrochemicals, coal chemicals and transportation reached their peaks at the end of the 15th Five-Year Plan and the power industry entered a peak platform at the end of the 15th Five-Year Plan.

Dual control of energy consumption refers to the implementation of "dual control" actions of total energy consumption and intensity.

Dual control of carbon emissions refers to the "dual control" action of the total amount and intensity of greenhouse gas emissions.

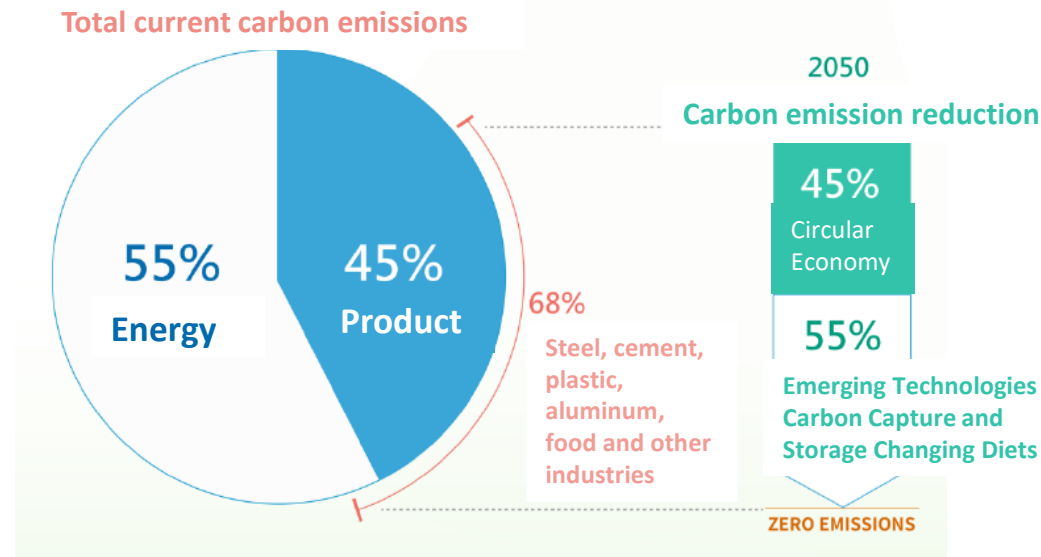
Taiwan's Net Zero Transition

Carbon reduction target raised to **24%±1%**

Taiwan plans to increase its carbon reduction target in 2030 from a 20% reduction compared to the base period of 2005 to **24% ± 1%**, and will maximize the carbon reduction results before 2030 through investment in "Twelve Key Strategies".

Twelve key strategies create **5.9 trillion** output value

By promoting the "Twelve Key Strategies", in addition to reducing carbon emissions equivalent to 29% in 2020, it can also create huge business opportunities. It is expected that from 2023 to 2030, it will drive private investment of more than **4 trillion** and create an output value of **5.9 trillion**.



Source: Resource recycling and zero waste key strategic action plan (draft)
Environmental Protection Department

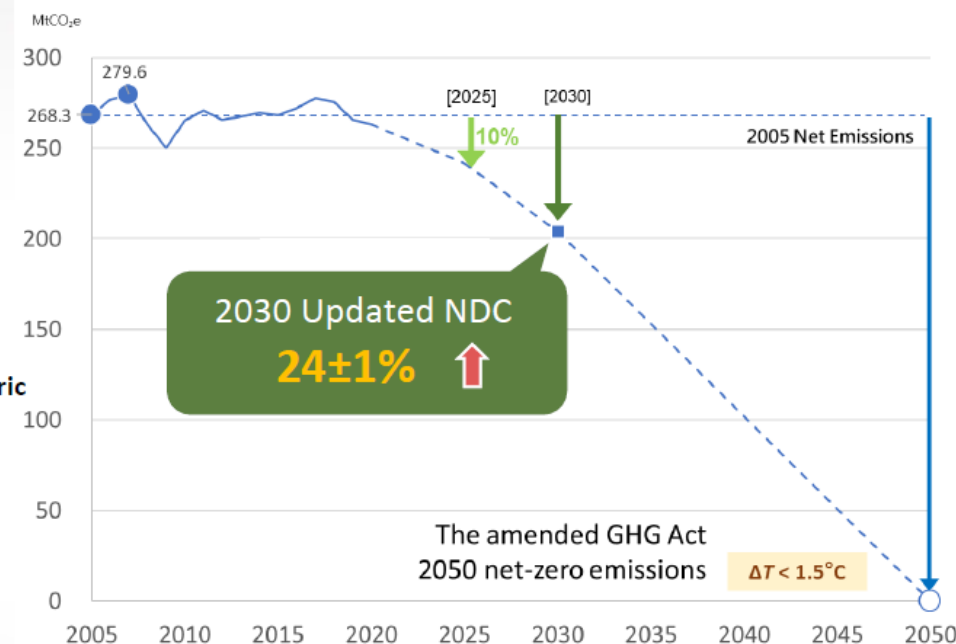
Taiwan's Net Zero Transition

2030 Updated NDC

Integrated implementation of 12 key strategies
Expand central/local/public-private collaboration and international cooperation to increase carbon reduction efforts and cultivate negative carbon potential

2030 Updated NDC Key Strategies

- All Renewables
 - ▶ Installed capacity increases from 9.6 GW in 2020 to 45.46 ~ 46.12 GW in 2030 (Offshore Wind 13.1 GW, Solar PV 31 GW)
- Energy Saving
 - ▶ Increasing electricity saving by 34.57 TWh
 - ▶ Saving heat by 2,273 MLOE
- Electric Vehicles
 - ▶ All urban buses and official vehicles are electric
 - ▶ New electric sedans up to 30%
 - ▶ New electric motor scooters up to 35%
- Carbon Sinks and Negative Emissions
 - ▶ Natural carbon sinks (forests/soil/ocean): 1.4 MtCO₂e
 - ▶ CCUS: 4.6 MtCO₂e
- International Collaboration
 - ▶ Responding to Article 6 of the Paris Agreement, promoting carbon reduction overseas



➤ Equivalent to 29% of GHG emissions of 2020



Operating Strategy

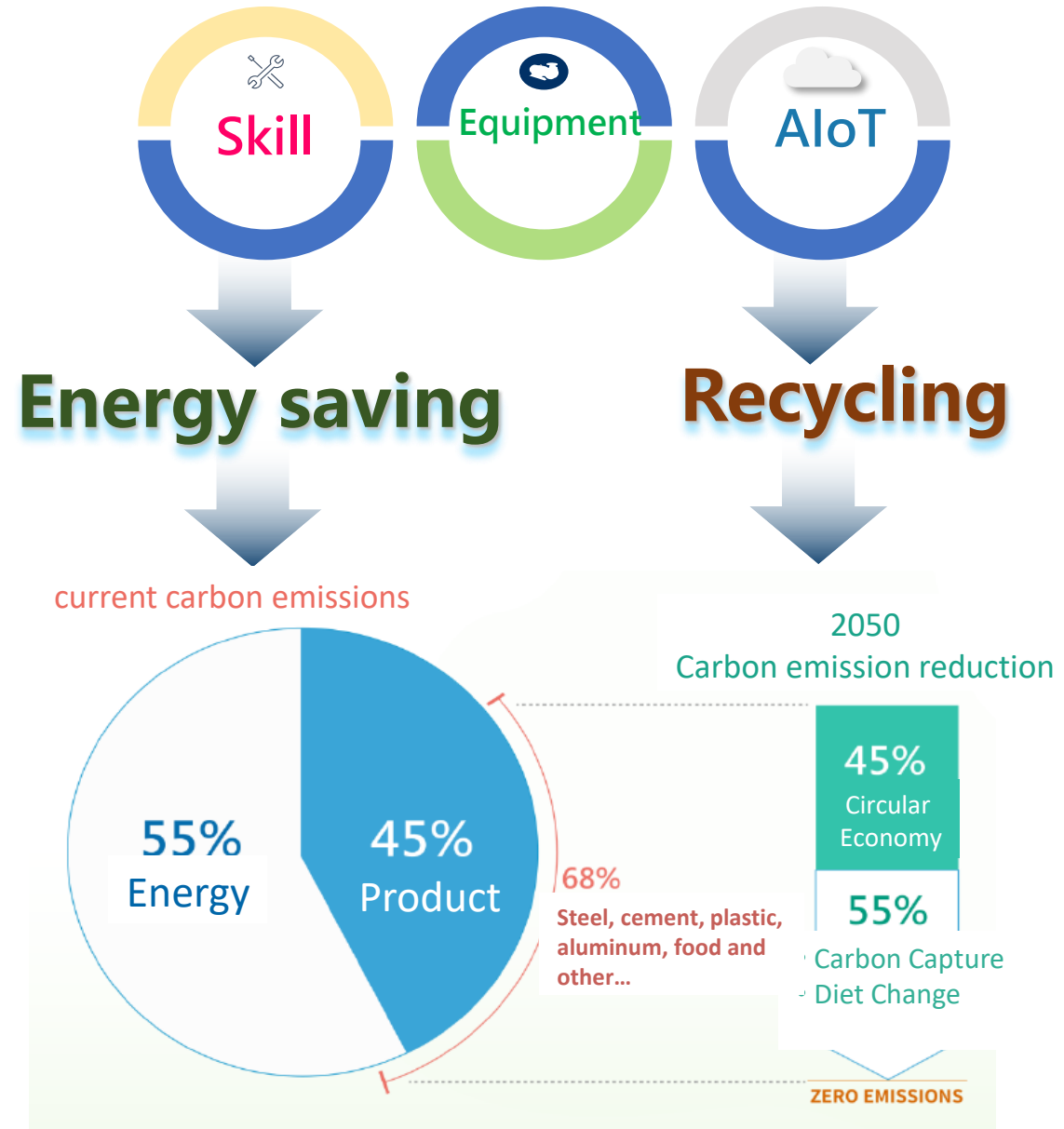
04

GSD

ESG

Green product

Green management



Mechanical energy saving

40% of total revenue

Upgrading & transformation

Improve energy eff. by process transformation

Energy saving

- To smart equipment
- AIoT process control
- Intelligent inspection

Participate in public construction

Promote green products
Assist owners in saving energy & reducing consumption

Green-manufacturing

- water-based paint
- recyclable turnover box
- solar energy generation

Employee Benefits

- Skill competition
- Physical activity
- Retired employees

Enviro Day

- Parent-child enviro education between employees.
- Feedback to our community
- Invite friend factory to participate

Green Product

- Energy saving to reduce carbon emissions, including mechanical & process .
- Smart energy saving & resource utilization (sludge, water recycling, SRF).

Green Management

Carbon emissions and carbon footprint inventory, setting 30/50 goals, ESG issues and formulating green investment strategies.

Sustainable operation

www.gsd.net.tw



15+ families

Disadvantaged families assistance



**Jiaxing
Green Factory
Award**

嘉兴市绿色工厂

嘉兴市经济和信息化局
2023年6月5日



330 ton

CO2 emission reduction



Vegetarian promotion



Recycle activities

Awards and honors

2023 Winner of the "Green Technology Innovation Award Competition" of the Ministry of Economic Affairs

The R&D team once again used the "Quantitative Analysis Solution for Microbial Load of Factory Wastewater Discharge" to solve the factory's problem such as increased production line output, the biological treatment unit in the wastewater system is overloaded, or the wastewater is failed to meet discharge standards. GSD won the championship, and join with Hopax Chemical Industrial Co., Ltd. to build an empirical field and create a win-win situation.

2022 Winner of the "Green Technology Innovation Award Competition" of the Ministry of Economic Affairs

Award " of the Small and Medium Enterprises Division of the Ministry of Economic Affairs. Two cases, the "Plant Wastewater Discharge PH/COD (Chemical Oxygen Content) Prediction System" and the "Waste Soil Abnormal Image Object Detection System". GSD was selected as the priority cooperation by Juhe International Co., Ltd.

2021 "Data Innovation and Application Competition"

2020 Winning the First "Urban Data Reality





A historical district project in Zhejiang Province

- Collect and monitor through SCADA;
- Information is uploaded to achieve centralized management;
- The database provides statistics and analysis.



Georgia GUDAURI water supply control system

- Solve the problem of equipment inspection to achieve fewer people on duty;
- One-stop management of reservoirs, water wells and sub-stations to improve operational efficiency;
- Use precise dosing to reduce consumption.

Tender name	Tender amount (tax included)	Project progress (end of December 2023)	Estimated finish time
New Taipei City Cleaning Team Sewage Treatment and Management Turnkey Project	39.88 M	64.13%	2024.3
The 3 rd and 4 th expansion project of the water resources treatment plant in the Agricultural Biotechnology Park.	244M	53.05%	2024.8
Pingtung Linbian Township A Line Water Pumping Station Project	23.98M	17.39%	2024.5

New tender obtained: Taoyuan Agricultural Logistics Park Construction Project-Sewage Treatment Plant Project and Three-Year Trial Operation: **NT\$194 million**, construction period **660 days**.

Yuh Shan Environmental Engineering Co., LTD. (Stock code: 7715)

Company Stock listed in TPEX Emerging stock market at NT\$**45**/share in 2024.1.12 .

Revenue in 2023 reached NT\$1.462 billion, with net profit of NT\$95.55 million.

In early 2023, GSD obtained the West District renovation project with an estimated total amount of **2.719 billion**.

Revenues	%
Environmental engineering revenue	89.59
Waste disposal revenue	9.30
Consultant Survey Income	1.11
Total	100.00



YUH SHAN

In recent years, Taiwan investment in ASEAN has accounted for nearly 50% of the overall foreign investment.

Verify investment and proportion in ASEAN

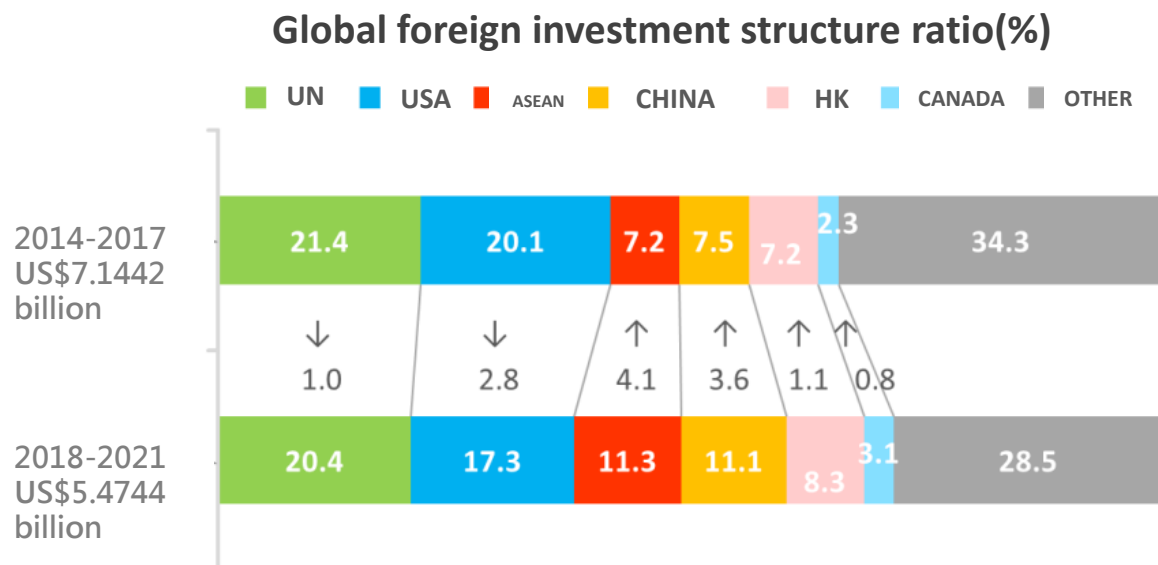


Taiwan's proportion of investment in ASEAN
Keep increasing

Taiwan's investment in ASEAN crossed the billion-dollar in 2006. In 2012, due to a major investment case in Singapore, the investment amount reached a historical high of 5,724 million U.S. dollars, accounting for more than 70% of the total approved foreign investment. In 2013- In 2017, the average annual investment in ASEAN was approximately US\$2.4 billion.

After the start of the U.S.-China trade war, as the supply chain shifted, China increased its investment in ASEAN, reaching US\$5,640 million and US\$4,732 million in 2021 and 2022 respectively, accounting for 44.8% and 44.8% of the overall approved foreign investment. 47.5%.

ASEAN foreign investment surpasses mainland China and ranks third in the world



Data source : UNCTADSTAT.

- After the trade and technology disputes between USA and China, as well as the baptism of risk control due to the raging epidemic, global foreign investment fell to US\$5.4744 billion from 2018 to 2021, a decrease of 23.4% from 2014-2017. However, investment in ASEAN bucked the trend and grew by more than 20%.
- From 2018 to 2021, the global proportion of foreign investment in ASEAN exceeded 10% and rose to 11.3%, an increase of 4.1 % from 2014-2017, and the ranking surpassed mainland China and jumped to the 3rd in the world.

Data source: 2023.6.29 Statistics Division of the Ministry of Economic Affairs: Overview of the current economic situation (Analysis of foreign direct investment in ASEAN in recent years)

ASEAN foreign
investment
Keep increasing

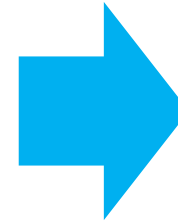
GSD Business Development Strategy in Southeast Asia

Taiwan's New Southbound Policy



PARD CENTER

- Combining the advantages
- Provide full range services
- Equipment procurement
- Project implementation
- Environmental engineering intelligence
- Maintenance services



ASEAN market



PARD CENTER :
Product Application +
Regional Development Center



Stock
Code : 6641

Disclaimer

- This presentation is a summary and assessment of the past, present and future operations of our company at the time of the presentation. It contains forward looking statements that will be affected by risks, uncertainties and inferences, some of which will partially be beyond our control. The actual conclusions may differ greatly from these forward-looking statements.
- The information provided (including views on the future) does not express or imply that it is correct, complete and reliable ; nor does it represent a complete exposition of the company, the state of the industry and the subsequent major developments.
- The expectation for the future in this presentation reflects our company's view so far. If there is any change or adjustment, our company is not responsible for reminding and updating at any time.

Thank you !