

SUNON FIRST CHOICE GLOBALLY Cooling Solutions

2024 Q4 Operating Results

Sunonwealth Electric Machine Industry Co., Ltd.

2421.TW / 2421 TT

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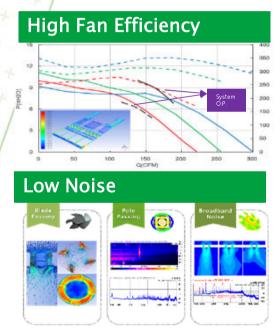


SUNON Thermal Everywhere



Thermal Technology Keeps Pace With the Times

Future will be supported by powerful computing capacity and the ultra-speed Internet with high reliability, which tests the effectiveness of thermal solutions. The change in the world stimulates thermal technology to update and advance to be suitable for real-time computing systems' needs. Technological advancement in heat dissipation provides the most effective operating temperature management to achieve excellence.

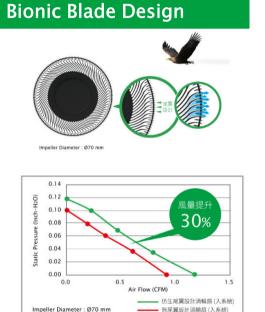




Energy Saving Power saving 14000 12000 10000 8000 6000 GMA(%) Reliability Salt solution: 0.05 % NaCl + 0.35 % ammonia sulphate (Flow is reduced to 20% of a normal ASTM G85 test) ■ Chamber temperature: 35° C Test cycles first 35 days: 15 min. spray/fog followed of 45 min. drying. 3 day with Salt solution 2 days demineralized water Test cycles after 35 days: 30 min. spray/fog followed of 30 min. drying. 3 day with Salt solution 2 days demineralized water ■ Test duration: 40 days # Fans are running during the entire test Fans are checked once a day ■ 1f Fan stops: Try to start fan with finger

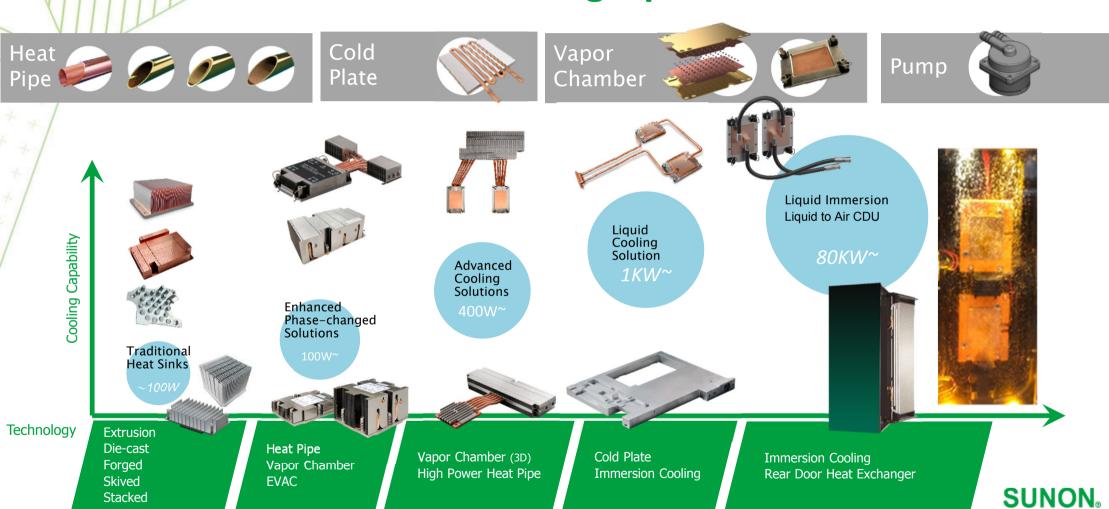
"Exercise" with pressurized air

3. "Dry out" Fan in 45" C oven for 24 Hours.





More Cooling Options



Cooling Solution Trend Immersion Cooling Liquid Cooling



Liquid cooling



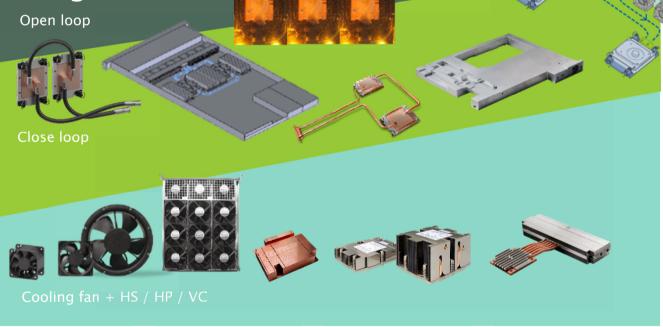
350W Air cooling



1500W

1KW

500W



~Y2022 \ Y2023

Y2024

Y2025

Y2026

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Fan is still the key component for Liquid cooled Al

NVIDIA	Single B200	B200	B100	H200	H100	
	GB200 NVL72	DGX/HGX	HGX	SXM	SXM	
GPU architecture		Blackwell		Hopper		
TDP	1200W	1000W	700W	700W	700W	
Cooling	Liquid	Air	Air	Air	Air	
	Cooling	Cooling	Cooling	Cooling	Cooling	

Estimated # of fans used for GB200 NVL72

Rack: 4cm dual fan*8 each tray, total #18 computer trays;

NV Link Switch: 4cm dual fan*7 each tray, total #9 trays

Power Supplies: at least #50 fans

In-rack system: Up to #257 cooling fans applied

At lease #16 200mm Axial fans installed in RDHx

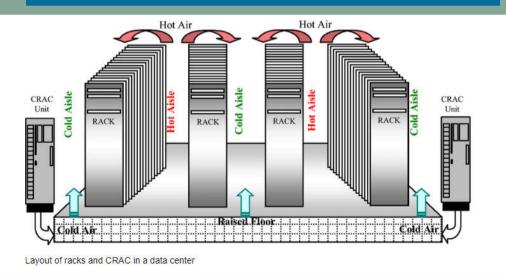


Data Center Thermal Layout

Existed Data Center

Existed CRAC system (Compute Room Air Conditioner)

Air-cooling
Fan + 3DVC → Hot air
Liquid cooling (Liquid to Air)
Cold Plate → Sidecar/RHDx → Hot air

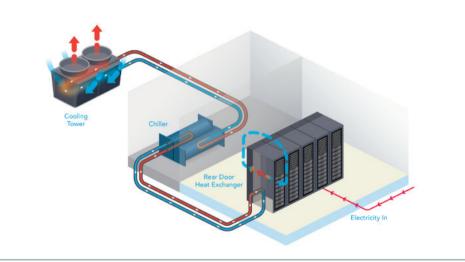


New Data Center

Extra chiller and/or cooling tower

Liquid cooling (Liquid to Liquid)
Cold Plate → Chiller → Hot water

Immersion cooling (Liquid to Liquid)
Boiler/Heatsink → Chiller → Hot liquid



Picture Source : Internet

Air Cooling vs. Direct Liquid Cooling

Air Cooling (Fan + 3DVC)

Refer to MGX platform SMCI model ARS-111GL-NHR

Direct Liquid Cooling (Fan + Cold Plate)

Refer to MGX platform SMCI model ARS-111GL-DNHR-LCC



For same chassis layout, fan is must needed key component for thermal solution



Air Cooling vs. Direct Liquid Cooling

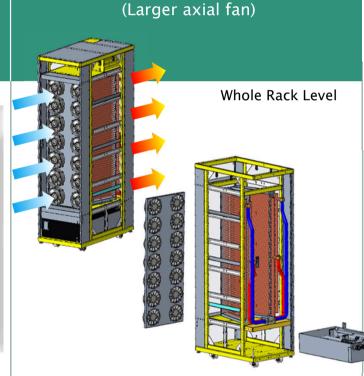
Direct Liquid Cooling (Fan + Cold Plate)

Refer to MGX platform
SMCI model GPU ARS-111GL-DNHR-LCC

Rear Door Heat Exchanger Larger axial fan

Whole Rack Level





Sidecar

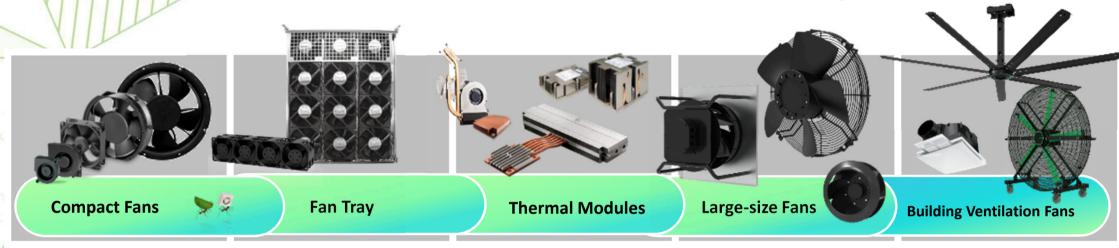
Air Assisted Liquid Cooling



Single Chassis Level

Picture Source: Internet

SUNON Total Thermal Solutions, One-stop Service













Sidecar CDU / Fan wall

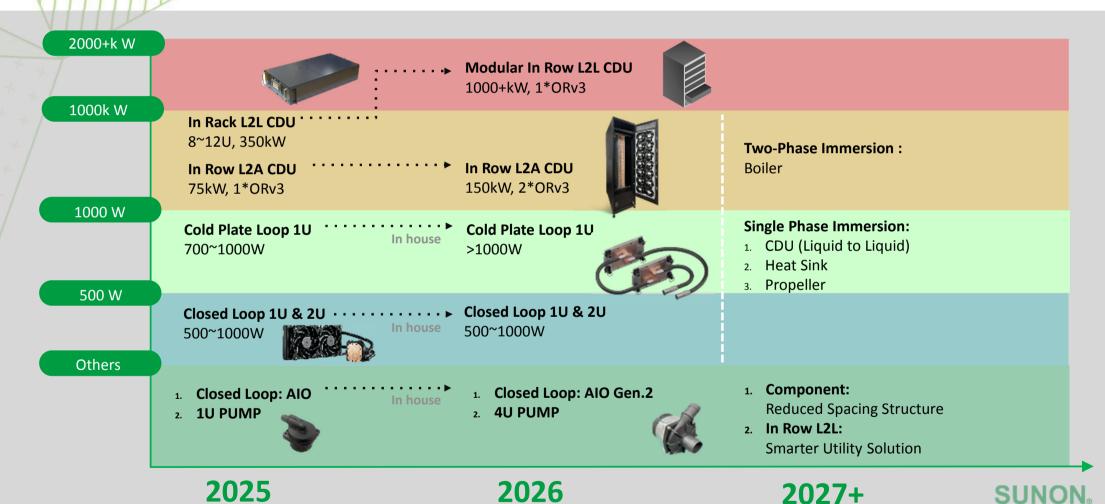
RPU

Two-phase Liquid Cooler

Water pump / Boiler

Liquid-cooled Modules

SUNON Liquid & Immersion Cooling Development



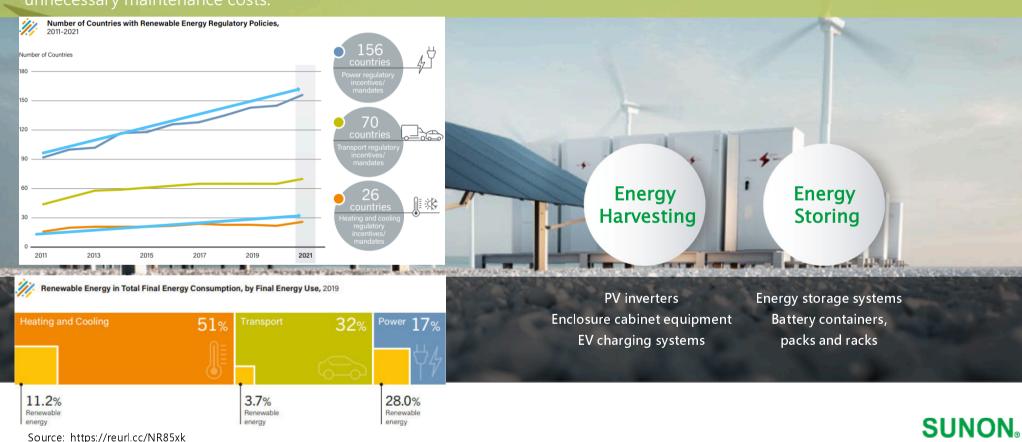
Electric Vehicles / Auto Cooling Solution

SUNON has more than 20 years of experience in cooling solutions for the automotive industry, and can provide various cooling fans, cooling modules and liquid cooling products that meet the quality standards of the automotive industry



Net zero emissions by 2050

Energy Transition Energy Transition Business Opportunities



Renewable Energy Cooling Solution

SUNON is an important partner of global high-quality energy system cooling solutions, providing a full range of cooling solutions.

PV Inverter Cooling

ESS Cooling







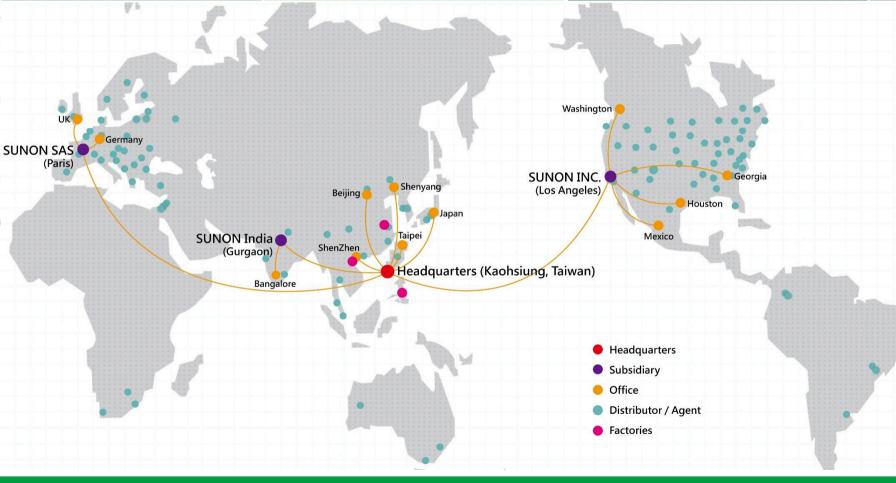








Factories



14Subsidiary & Office

122Distributor & Agent

1000+
Sales & Service sites

SUNON_®

Sufficient Capability

production bases
Cooling Fans
19 M pcs/month
Cooling Module
2.68 M pcs/month



Kaohsiung, Taiwan

1M pcs /month





Beihai, Guangxi (A Building \ B Building) Fans 7.2M pcs/month



Beihai, Guangxi (C Building) Fans 2.7M pcs/month



Kunshan, Jiangsu 5.3 M pcs/month(FAN) 2.5 M pcs/month(CM)



Bataan, Philippines 2.8 M pcs/month 180 K pcs/month(CM)



EGS Performance Highlights

Society

- Average employee training hours exceeded 48 hours per year.
- Production bases in Taiwan and China have both passed ISO 45001 certification.
- Provided care to 9,867 households in the "Support and Care Campaign" from 2018 to 2023.

Environment

- Implemented greenhouse gas inventory across the entire group, and passed third-party external verification.
- The solar power generation of the Guangxing plant has exceeded 680,000 kWh.
- Continuously passed IECQ QC 080000 certification each year.

Governance

- Net income reached 13.33 billion NTD, a 22.5% increase from 2022.
- The Company ranks among the top 3 leading brands in terms of market share.
- A sustainability development committee has been established.
- Zero cases of corruption.



Products

- Saved 532 million kWh of electricity with product R&D. Reduced GHG emissions by 260,000 MTCO2e.
- 100.0% pass rate of hazardous substance inspection for three consecutive years from 2021 to 2023.
- Obtained 3,394 invention patents.



Supply Chain

- 100% pass rates for new suppliers audits.
- 100% pass rates for annual supplier audits.
- Local procurement rates exceed 74%.



Net Zero Carbon Reduction

2030 \$\mathref{1}\$ 50% 2050 **NET ZERO**





Quarterly Revenue



In B. NT

Revenue Performance



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Revenue

→Growth rate

UNIT: NTD (

UNIT: NTD (M)

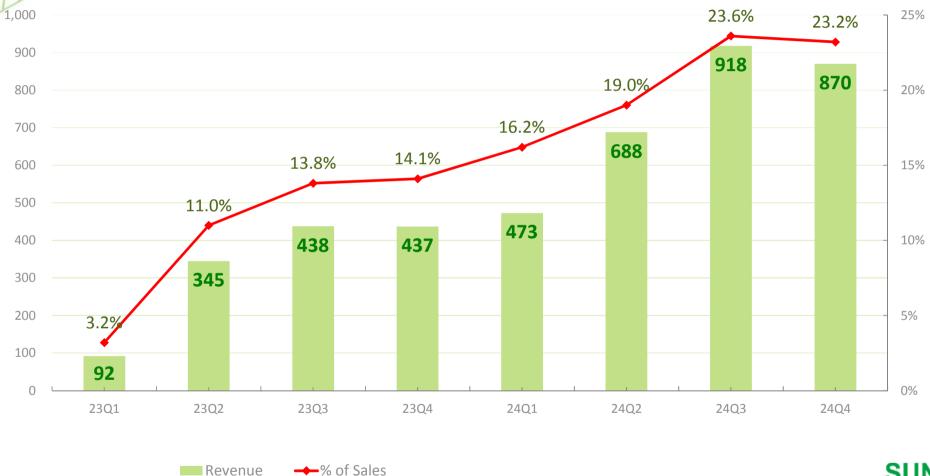
Quarterly Revenue in Server



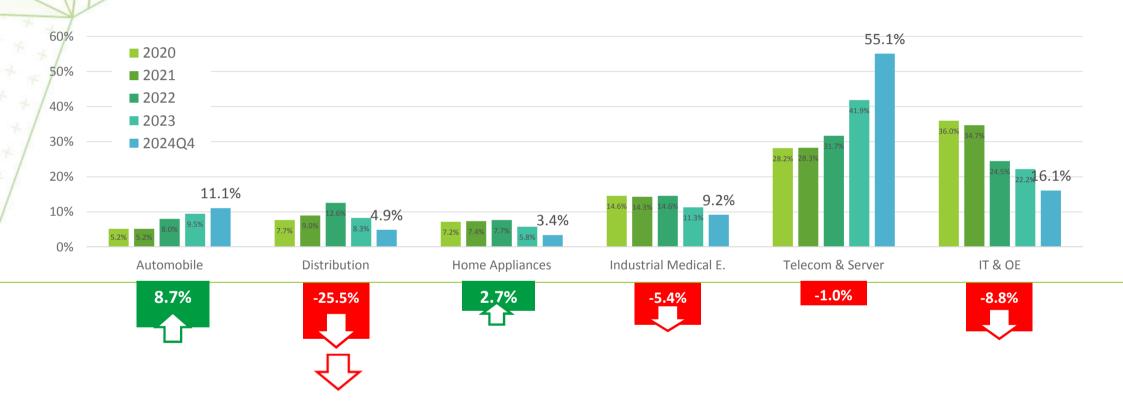
→ % of Sales

Revenue

Quarterly Revenue in AI Server

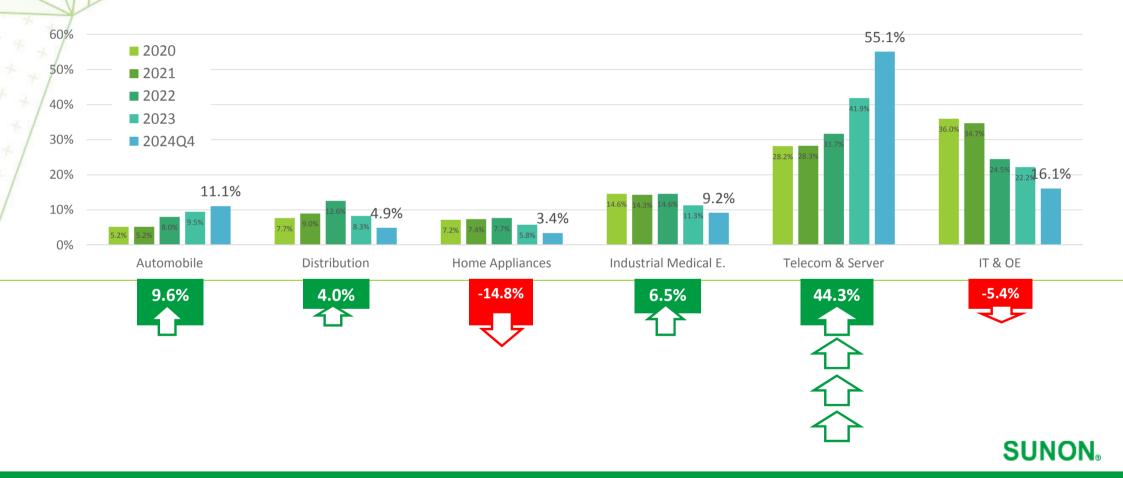


Products Application & QoQ Growth

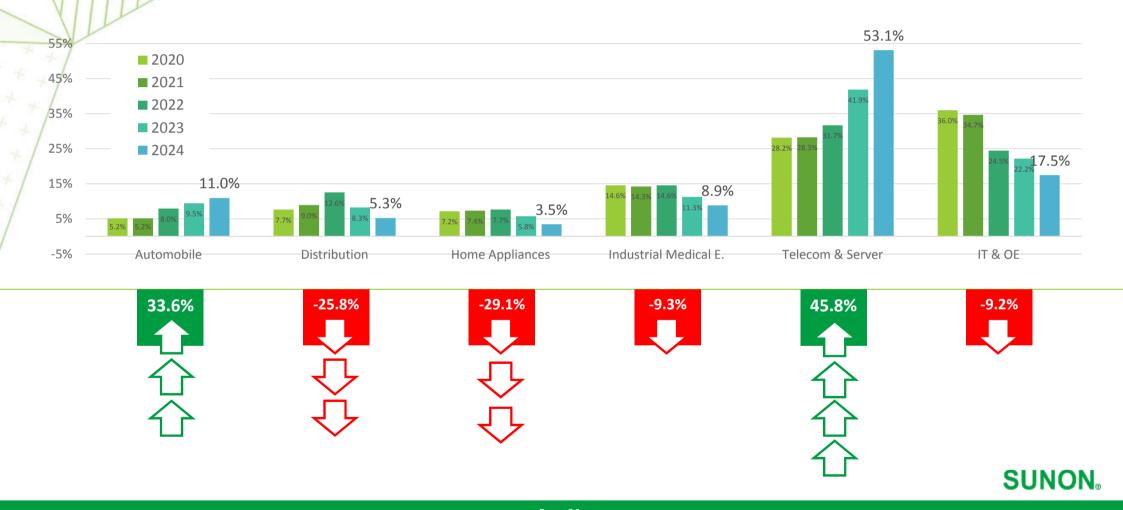




Products Application & YoY Growth



Products Application & YoY Growth



Profit Margin





Operating Margin



Net Margin





Quarterly Earning



Earning & Cash Dividend



	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020	Y2021	Y2022	Y2023	Y2024
Payout Ratio	85%	88%	88%	83%	74%	68%	70%	60%	68%	68%



Appendix I

CONSOLIDATED BALANCE SHEETS									
NT\$ M	2021.12.31	2022.12.31	2023.12.31	2024.12.31	2022	Change(%) 2023	2024		
TOTAL ASSETS	11517	12,192	12,615	14,998	5.9%	3.5%	18.9%		
Cash	1912	2,457	4,031	4,678	28.5%	64.1%	16.1%		
A/R, N/R	3459	3,414	3,079	4,103	-1.3%	-9.8%	33.3%		
Inventories	2508	2,651	2,052	2,181	5.7%	-22.6%	6.3%		
PP&E	2059	2,273	2,171	2,461	10.4%	-4.5%	13.4%		
TOTAL LIABILITIES	7150	6,989	5,396	7,078	-2.3%	-22.8%	31.2%		
Short-term loans	1950	1,288	458	928	-33.9%	-64.4%	102.6%		
A/P	2926	3,179	2,737	3,435	8.6%	-13.9%	25.5%		
Long-term loans	524	287	213	478	-45.2%	-25.8%	124.4%		
TOTAL EQUITY	4367	5,203	7,219	7,920	19.1%	38.7%	9.7%		
Days sales outstanding	90	89	92	90					
Days sales of inventory	70	86	92	74					
Current Ratio	1.34	1.43	2.03	1.88					



Appendix II

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME									
NT\$ M	2021	2022	2023	2024	2022	YOY(%) 2023	2024		
OPERATING REVENUES	13,562	14,063	12,915	14,624	3.7%	-8.2%	13.2%		
GROSS PROFIT	2,536	3,171	3,601	4,157	25.0%	13.6%	15.4%		
OPERATING EXPENSES	2,072	2,049	2,071	2,480	-1.1%	1.1%	19.7%		
INCOME FROM OPERATIONS	464	1,122	1,530	1,677	141.8%	36.4%	9.6%		
NON-OPERATING INCOME AND EXPENSES	121	304	221	305	151.2%	-27.3%	38.0%		
INCOME BEFORE INCOME TAX	585	1,426	1,751	1,982	143.8%	22.8%	13.2%		
NET INCOME attribute to owners	429	1,089	1,334	1,492	153.8%	22.5%	11.8%		
EPS (NT\$)	1.71	4.34	5.16	5.46					
Gross Margin	18.7%	22.5%	27.9%	28.4%					
Operating Margin	3.4%	8.0%	11.8%	11.5%					
Net Margin(*)	3.2%	7.7%	10.3%	10.2%					

(*) Net Margin=Net Income attribute to owners / Revenue





Thanks

for Your Attention!



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