

GlobalWafers (6488 TT) 2021 Results Presentation

March, 2022

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Executive Comments

Financial Highlights

Revenue

- ✓ Q421¹ → NTD \$15.8 billion, 11.4% YoY, record high!
- ✓ $2021^2 \rightarrow \text{NTD}$ \$ 61.1 billion, 10.4% YoY, record high!
- ✓ 8 consecutive quarters of growth

(NT\$ mn)	Q419	Q120	Q220	Q320	Q420	Q121	Q221	Q321	Q421
Revenue	13,506	13,515	13,701	14,006	14,137	14,806	15,208	15,364	15,752

• Gross Margin

- ✓ Q421¹ → 41.3%, 3 consecutive quarters of growth and reached record high!
- ✓ $2021^2 \rightarrow 38.1\%$, the second highest in the history!

Q121	Q221	Q321	Q421		
35.1%	36.7%	39.1%	41.3%		

Operating Profit Margin

✓ $2021^2 \rightarrow 28.9\%$, the third highest in the history!

• EPS

- $\checkmark \quad Q421^1 \text{ EPS} \rightarrow \text{NTD } 4.87$
- $\checkmark 2021^2 \text{ EPS} \rightarrow \text{NTD } 27.27$

1. Q421: Fourth quarter of 2021 / 2. 2021: Full year of 2021



> Prepayment

NT\$ 28,635 mn (US\$ 1,034.5 mn)¹

Capacity Expansion Plans

- Increasing Si content, 5G and numerous technological advancements surged in the aftermath of the coronavirus pandemic, the current level of production capacity is insufficient.
- Investments expand across Asia, Europe and the United States of up to NTD 100 billion spanning both brownfield and greenfield projects. Expected to ramp up in 2H23 and to be expanded on a quarterly basis.
- Products include 300mm wafer and EPI, 200mm and 300mm SOI, 200mm FZ, SiC (including SiC Epi), GaN on Si and other large-size next-generation products.



Industry & Overview

Global Economy

IMF predicts 5.9% global GDP growth in 2021; 4.4% in 2022, and 3.8% in 2023. Downside risks to recovery center around :

- 1) COVID-19 variant
- 2) Supply chain disruption
- 3) Energy price volatility
- 4) Geopolitical tensions
- 5) Climate emergency

Semiconductor Industry

Unprecedented demand is likely to continue through 2022, but supply chain constraints are expected to undercut the output until 2023.

Key status monitors for drivers of wafer industry:

- 1) Global macro-economy recovery
- 2) COVID-19
- 3) Data industry CapEx in memory
- 4) Smart phone sales



Chip Crunch

The chip crunch is not ending in 2022, as the lead time of some electronic components is stretching into 2023.

The chip shortage effects are expected to be corrected in 2-3 years.

Automotive

By finding alternative ways to address wafer shortage, automotive industry is anticipated to resume recovery in 202, however the Russian-Ukraine conflict further casts looming shadow. With policy support and major carmakers upping the ante in EV to retake the initiative, EV are gathering more momentum across most geographies.

• 5G

Pandemic highlighted the need for connectivity and accelerated digital transformation, contributing to rapid 5G uptake, fast roll-out and wide adoption in numerous applications.

• SiC, GaN

Likely to register substantial gains owing to the rising government determination toward renewable energy, increasing applications in consumer electronics, 5G and EVs.



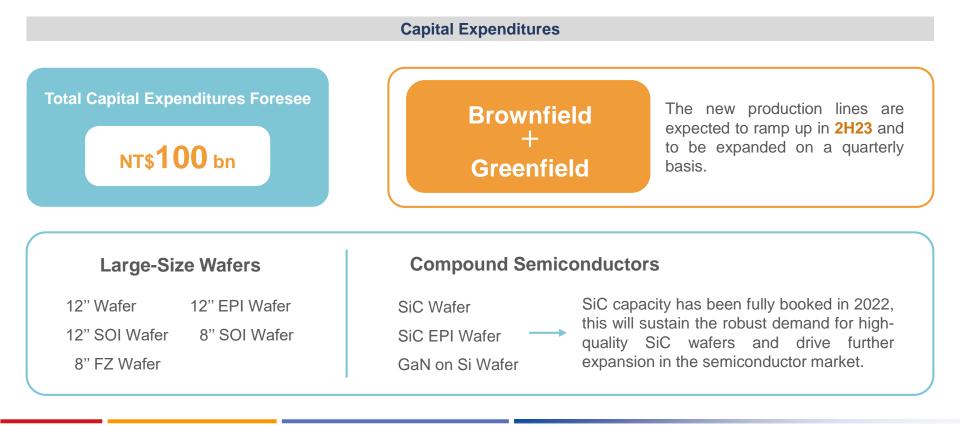
Capacity Expansion Plan

Advanced Technology



Development & Capacities Enhancement

- GlobalWafers estimates total capital expenditures of NT\$100 billion (US\$ 3.6 billion) including substantial brownfield and greenfield investments across Asia, Europe and the United States.
- GlobalWafers focuses on strengthening its growth by building new production lines, which specialize in next-generation products for advanced processes targeting large-size wafers and compound semiconductors.



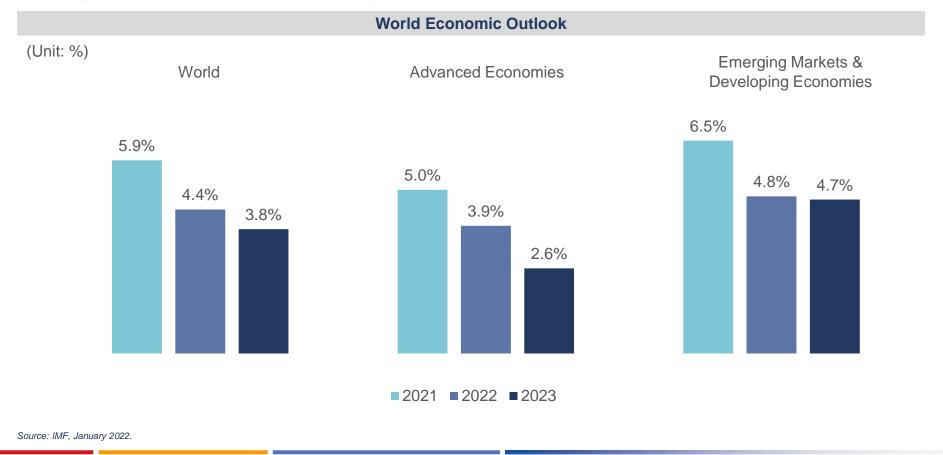


Industry Overview



Global GDP Growth Forecast

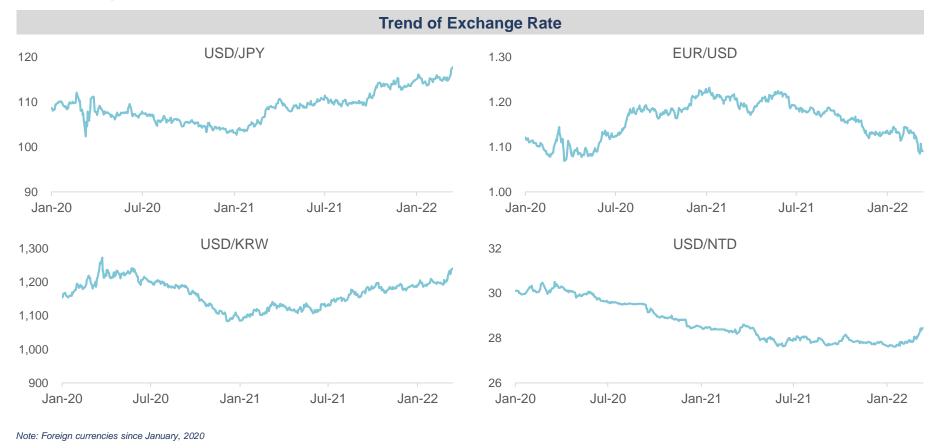
- IMF states that following by the booming growth in 2021, the global economy is set to expand in a weaker position with 4.4% in 2022 and 3.8% in 2023.
- Global recovery continues, but the momentum has weakened and uncertainty has increased due to rising energy prices, supply disruptions and higher inflation.





World Uncertainties Intensify FX Volatility

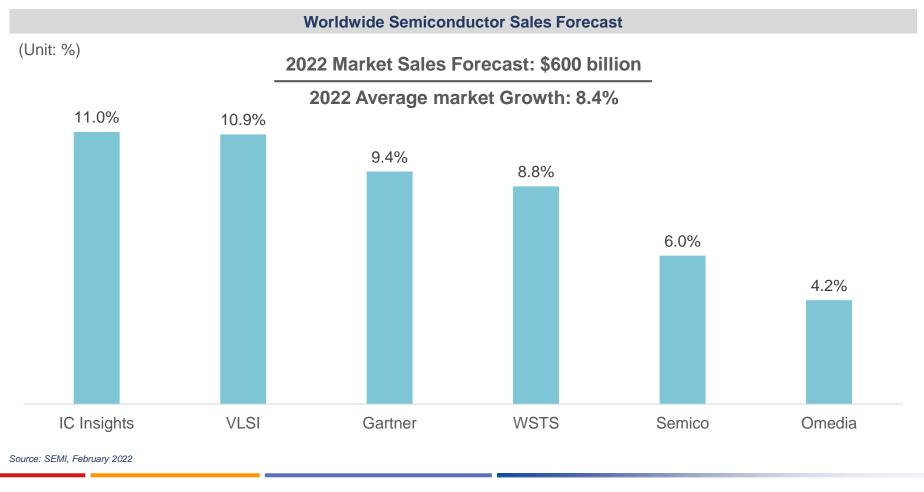
- Successful containment against COVID-19, strong exports, and foreign funds flowing into Taiwan have led to rising New Taiwan Dollars, which negatively reduces GobalWafers' US dollar-denominated revenues.
- Though NTD exchange rate shows strong appreciation, FX rate will be affected by Fed's Balance Sheet Shrinking Policy and Russo-Ukrainian War in 2022.





Worldwide Semiconductor Sales Forecast

After semiconductor worldwide revenues rebound from the outbreak of Covid-19 virus crisis, the average semiconductor sales growth rate in 2022 reaches 8.4%, crossing the \$600 billion milestone.

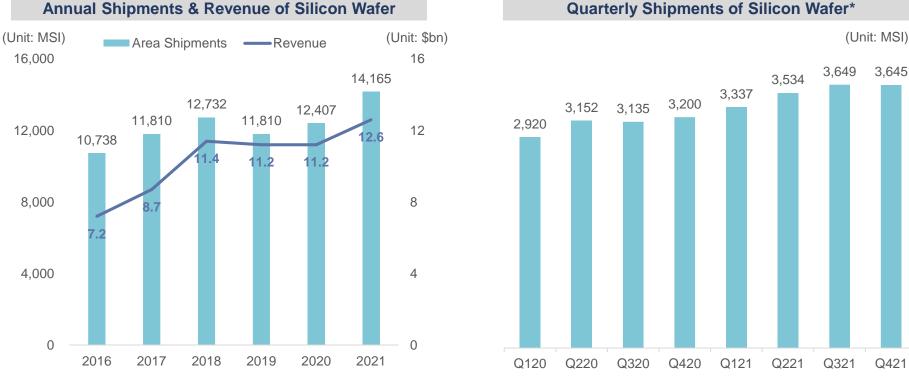


Worldwide Silicon Wafer



Shipments & Revenue Set New Records in 2021

- Worldwide silicon wafer area shipments in 2021 increased by 14% to 14,165 MSI while wafer revenue rose 13% to \$12.6 billion compared to 2020, reaching new all-time highs.
- Q421 total wafer market revenue went up both QoQ and YoY, setting the second consecutive all-time record. After 3 consecutive quarterly records, Q421 total shipments flat to Q3, but continued growth is expected in 2022.
- SEMI predicts silicon shipments will rise another 4.6% in 2022.

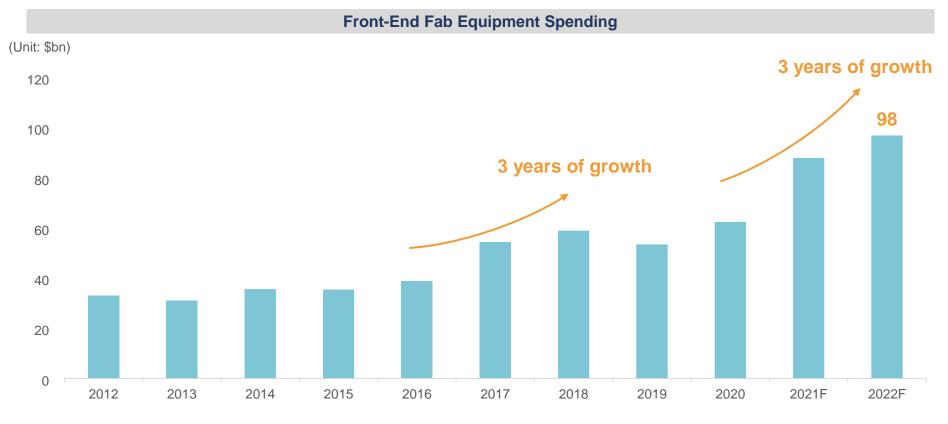


Source: SEMI, February 2022

Note: Shipments are for semiconductor applications only and do not include solar applications

Global Front-End Fab Equipment Spending Hits Record High in 2022

- Benefitted from a wide range use of AI and HPC, global front-end fab equipment spending in 2022 will grow 10% to \$98 billion, hitting an all-time high, marking a third consecutive year of growth again.
- South Korea will lead the fab equipment spending in 2022, followed by Taiwan and China, combining to account for 73% of total worldwide spending.



Source: SEMI World Fab Forecast Report, January 2022

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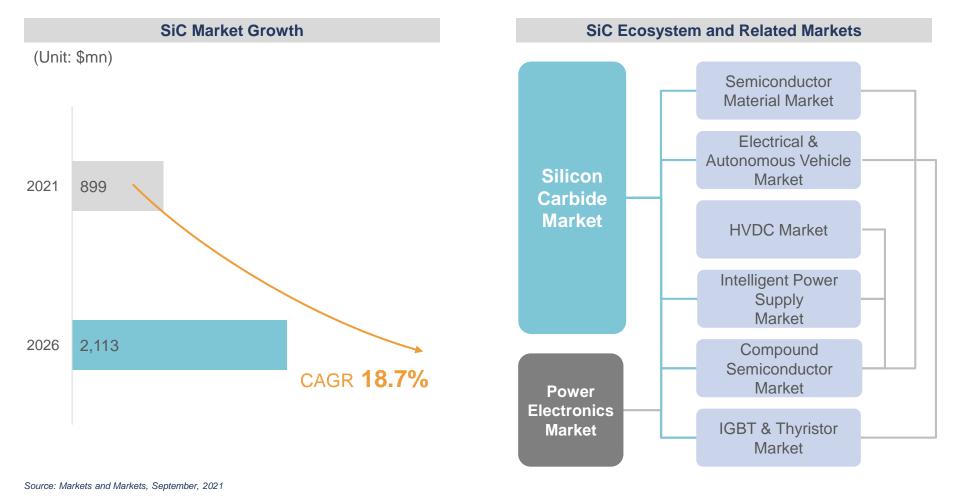
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Attractive Growth Opportunities in SiC Market

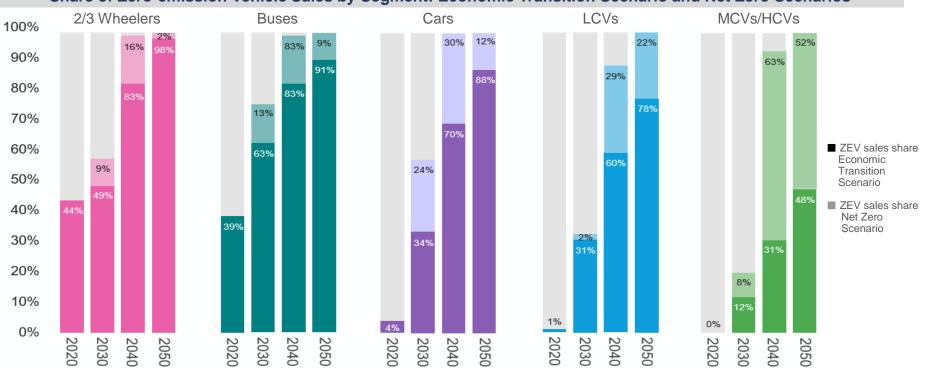
- > The Silicon carbide market is projected to reach US\$ 2,113 million by 2026 at a 18.7% CAGR.
- > Momentum comes from growing implementation of SiC in power devices applications and EV.





Electric Vehicle Outlook

- EV sales are surging due to a combination of policy support, improvements in battery technology and cost, more charging infrastructure being built, and new compelling models from automakers.
- Road transport is one of the largest contributors to global CO₂ emissions. To achieve net zero by 2050, as soon as 2030, nearly 60% of new car sales need to be zero emissions to stay on track for the Net Zero. Scenario.



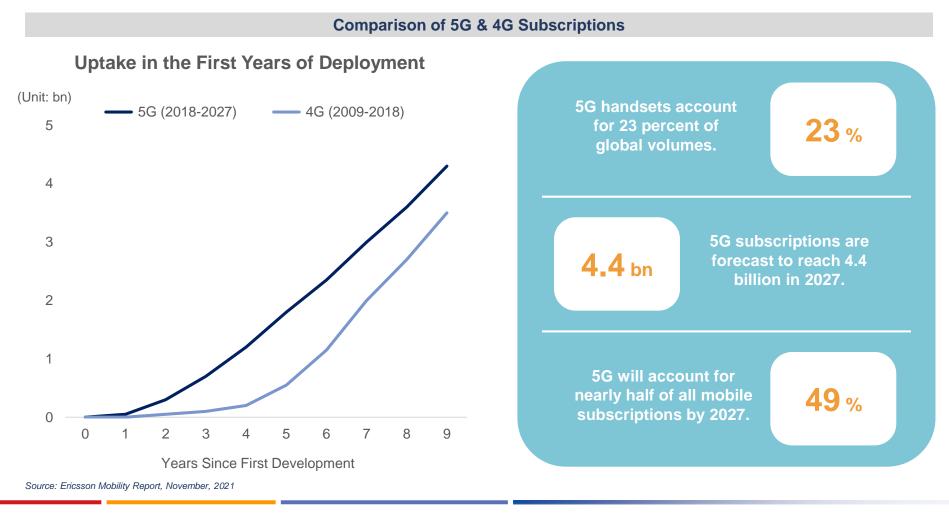
Share of Zero-emission Vehicle Sales by Segment: Economic Transition Scenario and Net Zero Scenarios

Source: BNEF. Note: 'LCVs, MCVs and HCVs are light-, medium- and heavy-duty commercial vehicles.'



5G Subscription Uptake

5G subscription uptake is expected to be faster than 4G, fueled by price falling and government's early engagement.

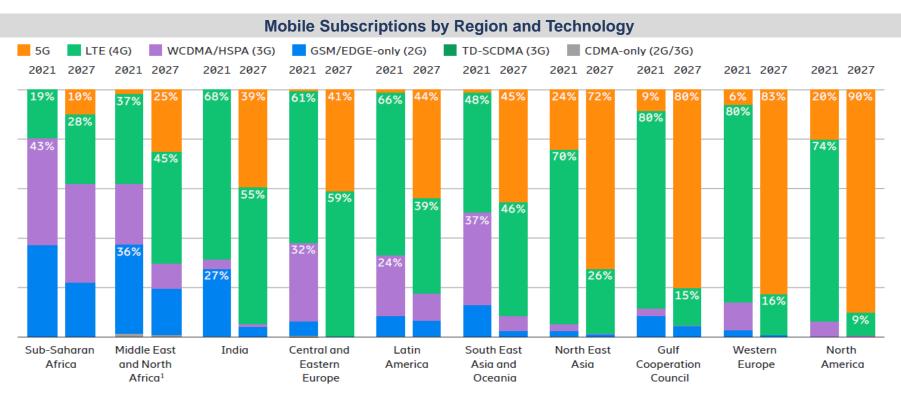




5G Subscriptions Become Mainstream

The build-out of 5G networks is continuing to accelerate, and 5G is expected to be the fastestdeployed mobile communication technology in history, and is forecast to cover 75% of world's population in 2027.





Source: Ericsson Mobility Report, November, 2021



Performance Update



Financial Highlight : 2021 vs. 2020

(NT\$ mn)	2021	2020	YoY	
Revenue	61,131	55,359	10.4%	
Gross Profit Margin %	38.1%	37.2%	0.9%	
Operating Profit	17,693	15,287	15.7%	
Operating Profit %	28.9%	27.6%	1.3%	
Net Profit	11,870	13,104	-9.4%	
Net Profit %	19.4%	23.7%	-4.3%	
EPS	NT\$27.27	NT\$30.11	-NT\$2.84	
EBITDA* ¹	22,507	21,967	2.5%	
EBITDA %	36.8%	39.7%	-2.9%	
EBIT	16,610	16,445	1.0%	
ROE ^{*2} (annualized)	26.4%	29.4%	-3.0%	
ROA ^{*3} (annualized)	9.9%	13.8%	-3.9%	

1. EBITDA = Net Profit + Tax + Interests + Depreciation + Amortization.

2. ROE = Net Profit / Average Shareholders Equity

3. ROA = (Net Profit + Interest*(1- Effective Tax Rate))/Average Asset



Financial Highlight : Q421 vs. Q321 vs. Q420

(NT\$ mn)	Q421	Q321	Q420	QoQ	YoY
Revenue	15,752	15,364	14,137	2.5%	11.4%
Gross Profit Margin %	41.3%	39.1%	36.3%	2.2%	5.0%
Operating Profit	4,819	4,664	3,175	3.3%	51.8%
Operating Profit %	30.6%	30.4%	22.5%	0.2%	8.1%
Net Profit	2,120	3,105	3,438	-31.7%	-38.3%
Net Profit %	13.5%	20.2%	24.3%	-6.7%	-10.8%
EPS	NT\$4.87	NT\$7.13	NT\$7.90	-NT\$2.26	-NT\$3.03
EBITDA* ¹	5,144	5,393	5,740	-4.6%	-10.4%
EBITDA %	32.7%	35.1%	40.6%	-2.4%	-7.9%
EBIT	3,689	3,939	4,194	-6.3%	-12.0%
ROE ^{*2} (annualized)	18.2%	26.7%	31.5%	-8.5%	-13.3%
ROA ^{*3} (annualized)	6.0%	9.4%	14.7%	-3.4%	-8.7%

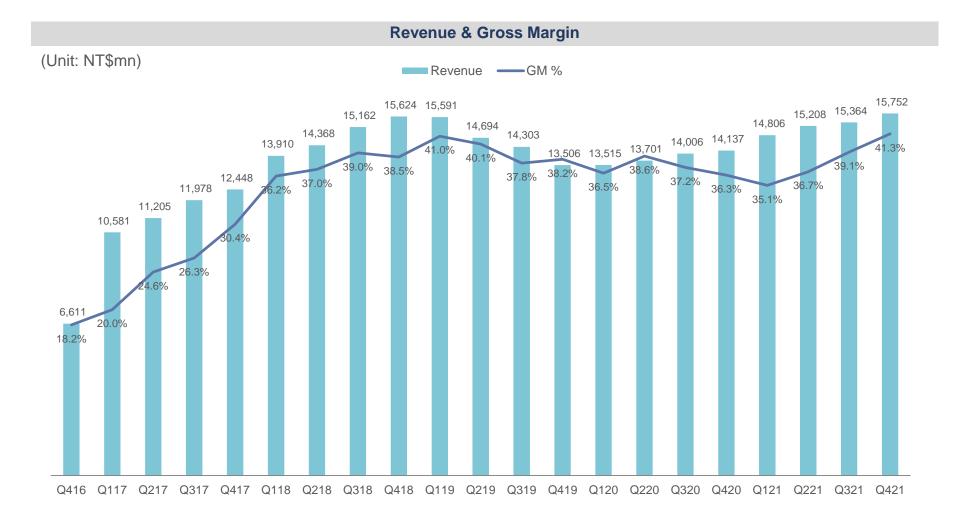
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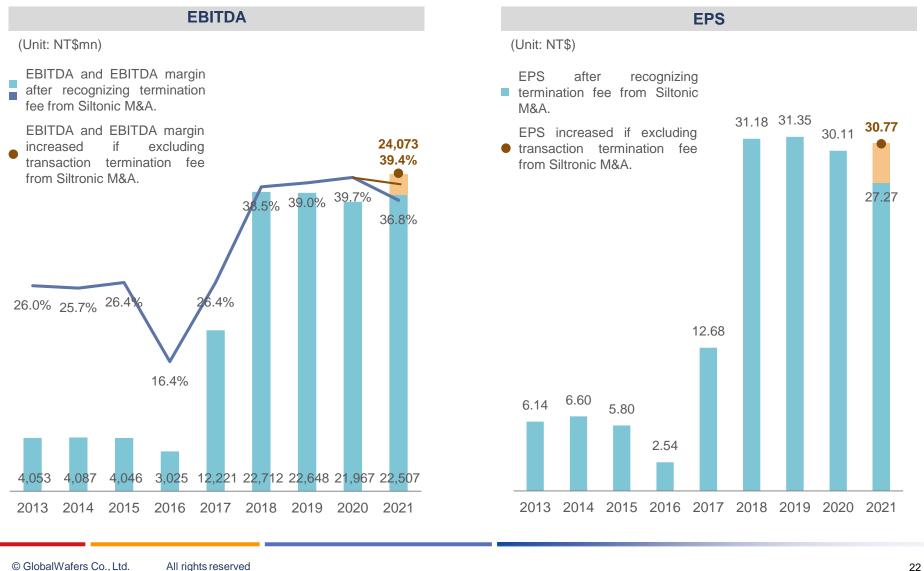


Revenue & Gross Margin





EBITDA & EPS





Income Statement

Incom	e Statement							
(NT\$mn)		2019	2020	2021	Q121	Q221	Q321	Q421
Revenue		58,094	55,359	61,131	14,806	15,208	15,364	15,752
	Growth (%)	-1.6%	-4.7%	10.4%	4.7%	2.7%	1.0%	2.5%
Gross Pro	fit	22,847	20,568	23,286	5,193	5,584	6,010 ²	6,498 ²
	Gross Profit Margin (%)	39.3%	37.2%	38.1%	35.1%	36.7%	39.1%	41.3%
EBITDA		22,648	21,967	22,507	5,051	6,919 ¹	5,393 ³	5,144
	EBITDA Margin (%)	39.0%	39.7%	36.8%	34.1%	45.5%	35.1%	32.7%
Operating	Profit	17,897	15,287	17,693	3,952	4,259	4,664	4,819
	Operating Profit Margin (%)	30.8%	27.6%	28.9%	26.7%	28.0%	30.4%	30.6%
Profit befo	re Tax	18,554	16,615	16,445	3,529	5,408 ¹	3,881 ³	3,627 ⁴
	Profit before Tax Margin (%)	31.9%	30.0%	26.9%	23.8%	35.6%	25.3%	23.0%
Net Profit		13,636	13,104	11,870	2,690	3,955	3,105	2,120
	Net Profit Margin (%)	23.5%	23.7%	19.4%	18.2%	26.0%	20.2%	13.5%
EPS (NT\$)		31.35	30.11	27.27	6.18	9.09	7.13	4.87

1&3. Due to Siltronic share evaluation at fair value.

2. Due to higher ASP and production mix.

4. Due to NT\$1.6 billion (EUR 50 million) of termination fee from Siltronic M&A.



Balance Sheet

Balan	ce Sheet							
(NT\$mn)		2019	2020	2021	Q121	Q221	Q321	Q421
Assets								
	Cash and cash equivalents	32,822	22,439	65,894	12,700 ¹	46,7684	56,919 ⁵	65,894
	Account receivable	8,140	8,037	9,118	9,094	8,874	9,176	9,118
	Inventories	6,849	7,208	7,295	6,772	6,974	7,036	7,295
	Property, plant and equipment	34,697	37,111	33,943	35,331	34,163	33,210	33,943
	Other assets	14,078	20,056	34,395	32,684 ²	34,723	33,407	34,395
Total asse	ets	96,586	94,852	150,645	96,581	131,502	139,747	150,645
Liabilities								
	Short-term loan	9,886	9,871	6,264	15,445 ³	10,543	6,464	6,264
	Account payable	3,837	3,895	4,340	4,075	4,027	3,918	4,340
	Long term loan	0	0	45,125	0	32,479 ⁴	45,0455	45,125
	Other liabilities	37,789	36,930	49,284	32,314	38,955	36,909	49,284
Total liabi	ilities	51,513	50,697	105,013	51,834	86,004	92,336	105,013

1. Due to Siltronic shares acquisition and cash dividends distribution

2. Due to Siltronic shares acquisition

3. Due to increasing bank loan for acquiring Siltronic shares

4. Due to issuance of ECB & corporate bond

5. Due to issuance of corporate bond

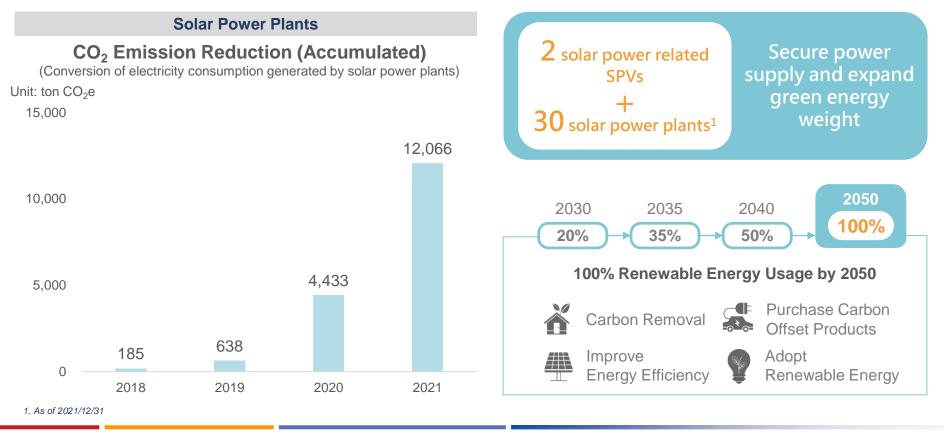


ESG Highlights



ESG Highlights – Sustainable Environment

- By practicing energy saving measures, GlobalWafers saved 2.59% in unit electricity consumption in 2020 compared to 2019.
- At the end of 2021, cumulative solar capacity reached 19.8 MW, which generated 24.04 million kWh electricity, equivalent to reducing 12,066 tons of CO₂ emissions and planting 1,096,928 trees per year.





ESG Highlights – Volunteering for Our Earth

- GlobalWafers held beach cleaning event along the coastline of Zhunan Long Fong Port (Miaoli, Taiwan) to raise awareness in marine pollution.
- > Total **123 employees** and their families volunteered and cleaned out nearly **500 kilograms of waste**.
- GlobalWafers hopes to contribute a better tomorrow by fostering a common goal among colleagues and arousing employees' awareness about environmental protection.







ESG Highlights – Social Concern

- GlobalWafers holds charity events covering 4 aspects: education, children, disability and volunteer to foster a belief about sharing and giving back to the society.
- In Taiwan, our activities include "College Students Aiding Plan", "Food Box for Children", "Living Goods and Materials Raising Plan", etc. These social welfare activities embody our wish to people in need and share our love with warmth.













ESG Highlights – Employee Welfare

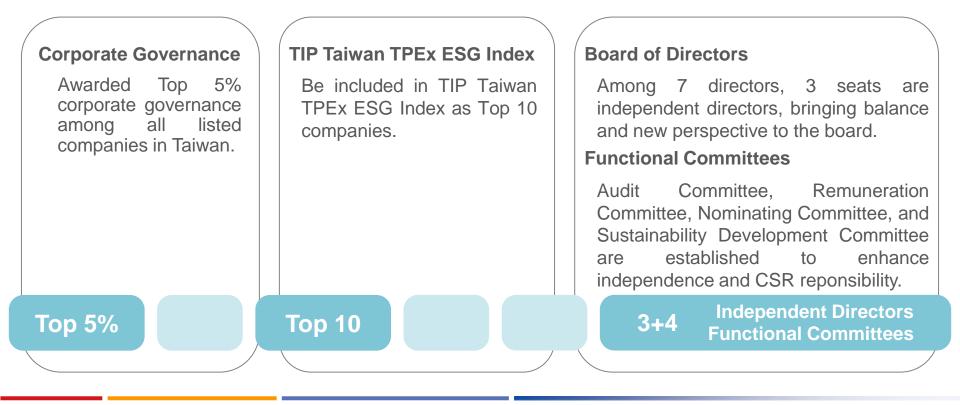
- GlobalWafers encourages employees to receive vaccination and regularly updates the epidemic footprint to protect the health of the workplace and maintain stable operation within the Group.
- By collaborating with Employee Assistance Program Service Center (EPAC), GlobalWafers provides hotline for employees' psychological counseling to build a joyful working atmosphere.
- GlobalWafers regularly publishes legal articles to enhance employees' legal awareness and literacy.





ESG Highlights – Corporate Governance

- GlobalWafers has been awarded top 5% corporate governance among all listed companies for 3 consecutive years and included as Top 10 companies in TIP Taiwan TPEx ESG Index.
- GlobalWafers is dedicated to embodying transparency and ethical management to fulfill its social responsibility and strive to become the benchmark of the world.
- > The gender, tenure, and expertise diversity as well as the independence of the board directors are the guidance for GlobalWafers to nimbly navigate in the competitive industry.











Thank You