

GlobalWafers (6488 TT) Q320 Results Presentation

November, 2020

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Executive Comments

≻ Q320

- Semiconductor market has remained largely resistant to global macroeconomic headwinds.
- Sequential improvement in revenue and shipment QoQ.
- Utilization
 - ✓ 8" good
 - ✓ SOI improving
 - ✓ 12" hit an all-time record high on both EPI and Polished Wafers, demands for 12" advanced wafers are very strong.
- Accumulated cash flow from operations of NT\$ 9,411mn (US\$323mn) and cash*² of NT\$ 32,651mn (US\$ 1,122mn)*¹ reflect our correct operation strategy and emphasize the strength of our business model and financial moats.

Note:

- 1. FX Rate: NTD:USD = 29.10
- 2. Cash = cash and the equivalent + restricted cash



Outlook

- Continue QoQ revenue growth in Q4.
- Substantial market uncertainty remains for the rest of the year: FX volatility, pandemic concerns, geopolitical issues.
- Automotive industry is recovering from 2H20.
- 2021 semiconductor market will grow again!
- SiC & GaN
 - ✓ Despite the short-term impact stricken by the pandemic, SiC device market revenue continues its growth.
 - ✓ Automotive application and mainstream consumer applications are expected to drive the SiC and GaN power device market in the coming years.



- Industry shifts and geopolitical responses
 - ✓ Semiconductor companies are reconfiguring their supply chains to improve resiliency, local production and supply chain are prioritized.
 → With extensive global footprint, GlobalWafers is well-positioned to supply GLOBALLY and LOCALLY.
 - ✓ Strategy -
 - Strengthen supply chain risk management and BCP (Business Continuity Plan).
 - Forward-thinking and prioritize on advanced products to create irreplaceable and unassailable position.



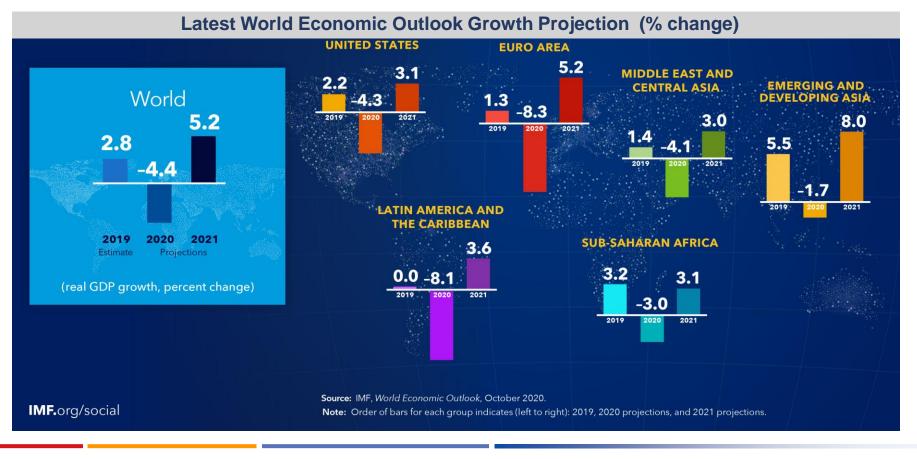
GlobalWafers Co., Ltd. 環球晶圓股份有限公司

Industry Overview



Latest World Economic Outlook

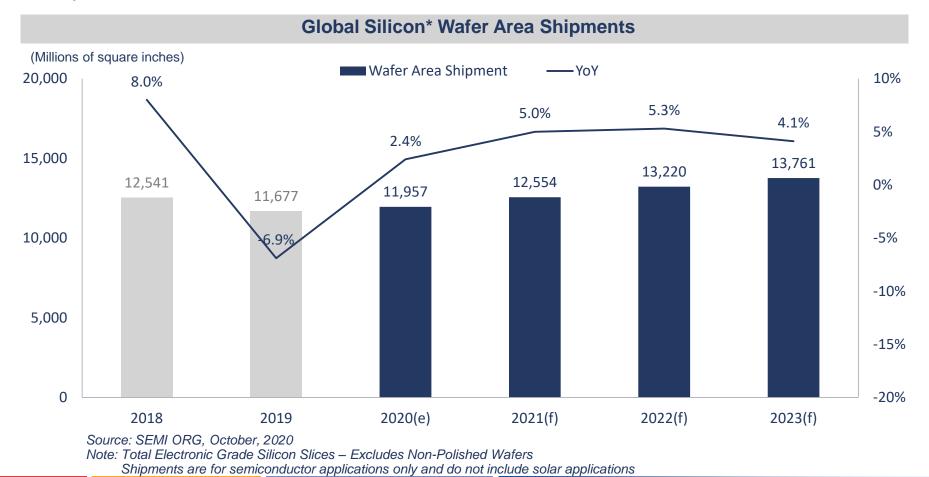
- IMF estimates that the global economy will contract by 4.4% this year, a slight increase over it's June prediction (-4.9%), and growth in 2021 is projected to rebound to 5.2%,
- Though many economies have started to recover at a faster pace than anticipated after reopening, the recovery is not assured while the pandemic continues to spread.





Global Silicon Wafer Area Shipments

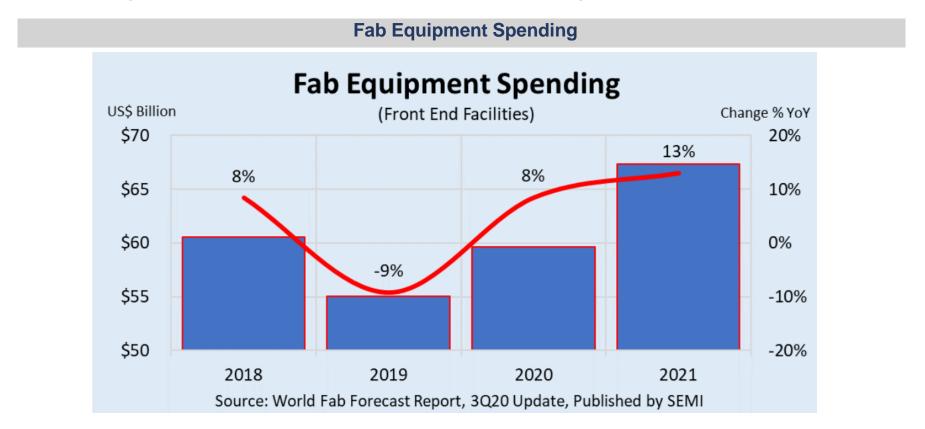
Global silicon wafer shipments are set to increase 2.4% YoY in 2020, with growth continuing in 2021 and shipments reaching a record high in 2022 according to research report.





COVID-19 Drives Rise in Global Fab Equipment Spending

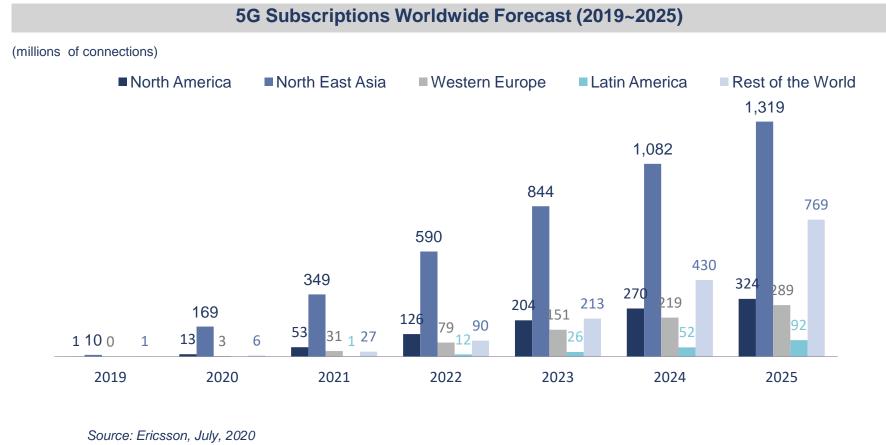
Soaring pandemic-inspired demand for chips, rising demand for semiconductors for datacenter infrastructures and server storage along with the buildup of safety stock as U.S.-China trade tensions intensify will drive an 8% increase in global fab equipment spending in 2020 and a 13% increase in 2021, according to SEMI Report.





5G Subscriptions Worldwide Forecast

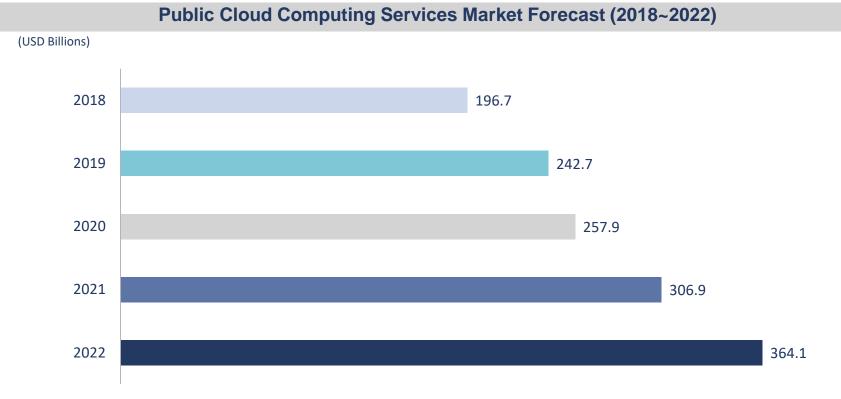
5G subscriptions are forecast to increase worldwide from 2019 to 2025. The number of 5G mobile subscriptions worldwide is forecast to exceed 2.7 billion at 197% CAGR by 2025, with North East Asia, North America, and Western Europe having the most 5G subscriptions.





Public Cloud Computing Services Market Forecast

The worldwide public cloud services market is forecast to grow 6.3% in 2020 to total \$257.9 bn and by 2022 market revenue is forecast to exceed 364 bn, representing 16.4% CAGR from 2018 to 2022. Cloud spending in many regions is expected to grow rapidly as economies reopen and more normal economic activity resumes



Note: This encompasses business process, platform, infrastructure, software, management, security, and advertising services

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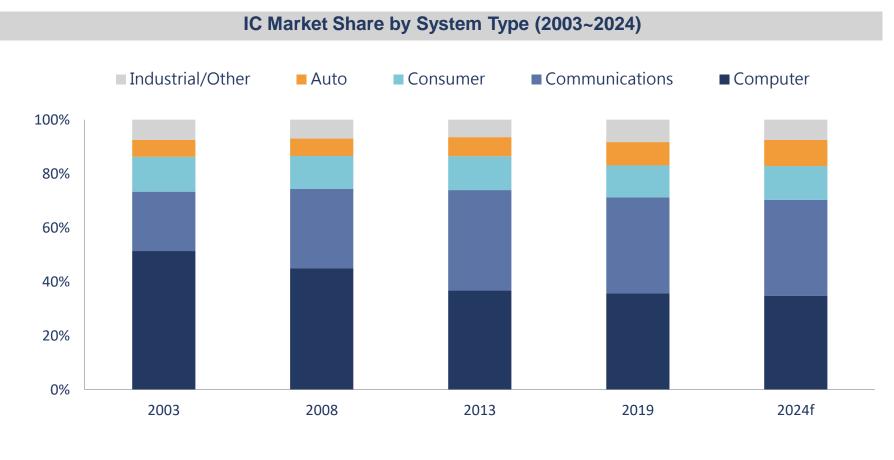
Source: Gartner, July, 2020

delivered by public cloud services



Automotive IC with Strongest CAGR Through 2024

As shown in the research report, the automotive IC market share has displayed a steady increase and is forecast to register the strongest 2019-2024 CAGR of any of the end-use segments at 9.7%.

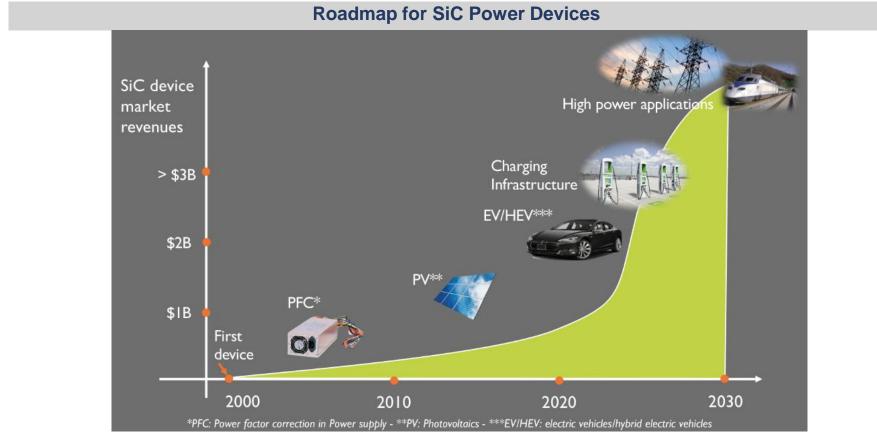


Source: IC Insights, June, 2020



Roadmap for SiC Power Devices

The benefits of SiC devices built on fundamental material benefits of high breakdown field and thermal conductivity drive the wide deployments in numerous applications and its market revenue is expected to grow quickly in the near future.

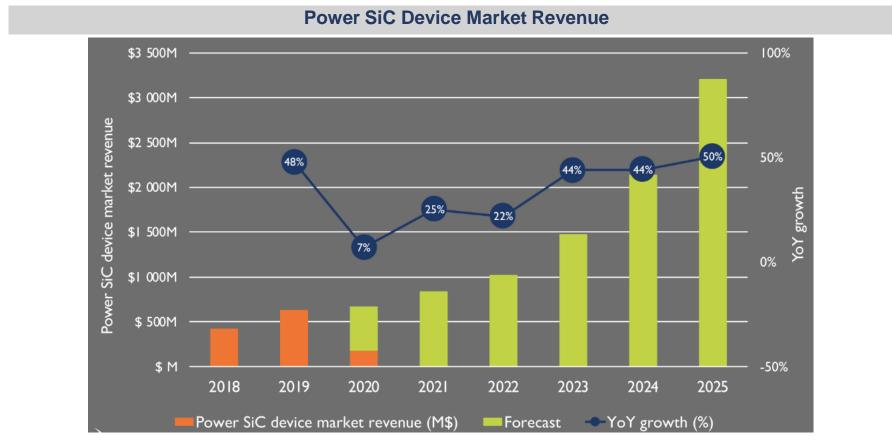


Source: Yole, June, 2020



Prospering SiC Driven by Automotive Applications

➢ In the prospering SiC power market, the automotive segment is undoubtedly the foremost driver, and as such will hold more than 50% of total device market share in 2025.

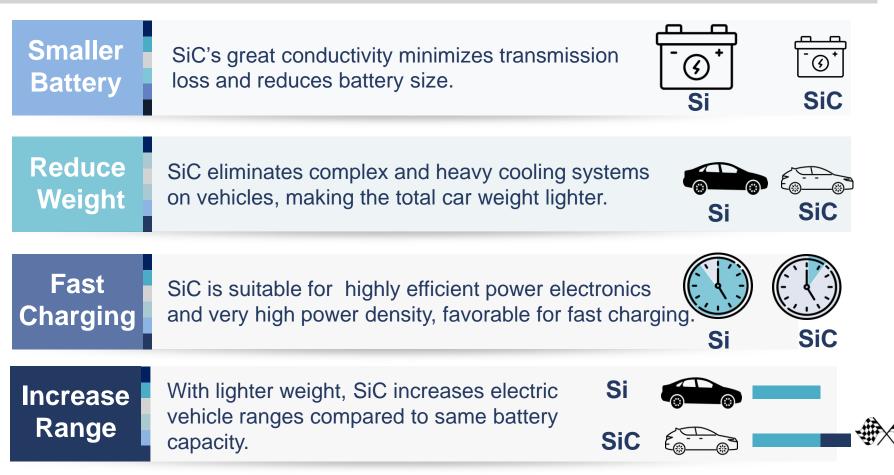


Source: Yole, June, 2020



SiC - Revolutionizing the Electric Vehicles

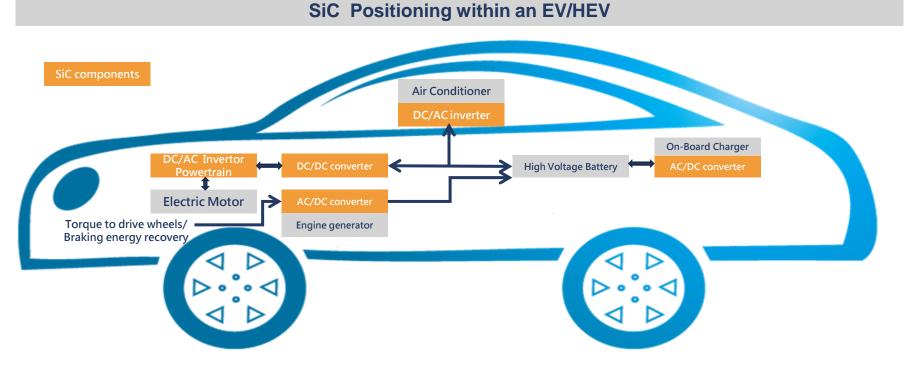
SiC Advantages in Electric Vehicles





SiC Positioning within an EV/HEV

- Automakers launched 143 new electric vehicles—105 BEVs and 38 plug-in hybrid electric vehicles (PHEVs)—in 2019, and plan to introduce around 450 additional models by 2022.
- The number of automakers applying SiC-based components has dramatically increased. SiC's primary automotive applications are onboard electric vehicle (EV) chargers, DC/DC converters, and powertrain inverters.



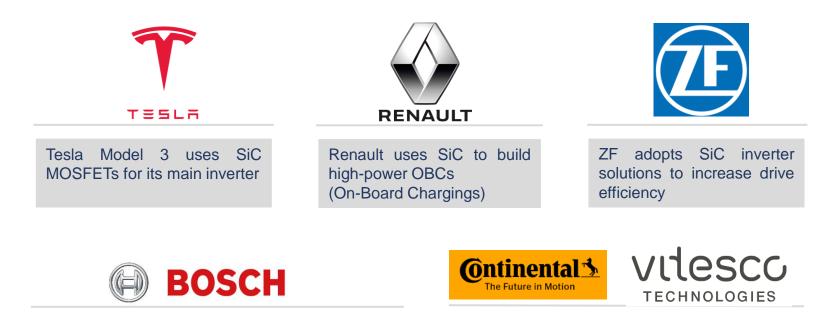
Source: On Semi, Yole, Digitimes Research, January, 2020



SiC Adoption in Automotive Companies

SiC sets new standards for switching speed, heat loss, and size, and these characteristics translate into fewer components for use in high-voltage electronics, as well as reduced complexity and cost. Automakers are gearing up to adopt SiC technology in their drivelines.

SiC Adoption in Automotive Companies



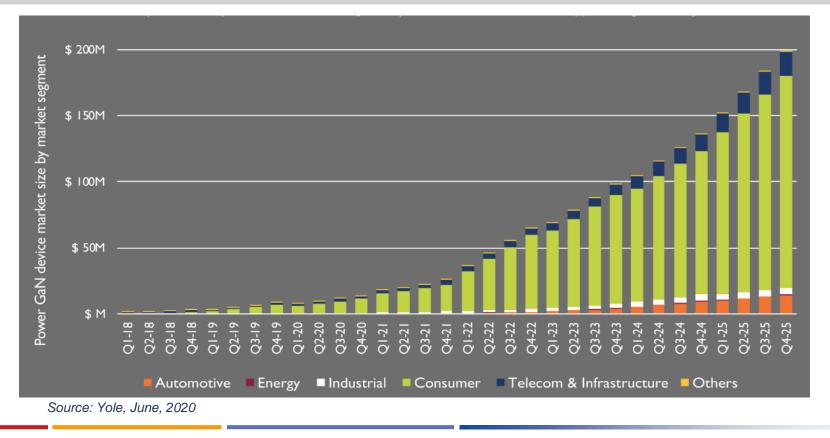
Bosch will begin production of energy-efficient SiC microchips specifically for use in electric vehicles. The drive division of automotive supplier Continental, Vitesco Technologies dedicates on the adaptation of SiC technology.



Power GaN Device Market Forecast

Driven by consumer fast-charger applications, power GaN device market growth will be in the range of 167% Y/Y in 2019, with a market value of more than US\$700 million in 2025. However, due to the COVID-19 outbreak, smartphone production is estimated to drop 20% in 2020. The impact of the pandemic is region and player dependent.

Power GaN Device Market Forecast by Segment





Q320 Performance Update



Financial Highlights

≻ Q320

• Sequential improvement in revenue and shipment

| (NT\$mn) | Q320 | Q220 | Q120 | Q320 vs. Q220 | Q220 vs. Q120 |
|----------|--------|--------|--------|---------------|---------------|
| Revenue | 14,006 | 13,701 | 13,515 | 2.2% | 1.4% |

• Good Profits despite of COVID-19

- ✓ EBITDA %: 40.0% (YoY : 1.9%)
- ✓ Net Profit %: 24.2% (YoY : 0.9%)
- ✓ EPS: NTD 7.78 (YoY: NTD 0.14)

> 3Q20 (accumulated)

- EBITDA : 2nd Best
- Operating Profit %, Net Profit % : 2nd Best

Financial Leverage

- Sufficient cash^{*1} position NT\$ 32,651 mn (US\$ 1,122 mn)^{*2}
- Prepayment NT\$ 17,546 mn (US\$ 603 mn)*2

Note:

2. FX Rate: NTD:USD = 29.1

^{1.} Cash = cash and the equivalent + restricted cash



Financial Highlight : Q320 vs. Q220

| (NT\$mn) | Q320 | Q220 | QoQ |
|--------------------------------|--------|--------|-----------|
| Revenue | 14,006 | 13,701 | 2.2% |
| EBITDA* ¹ | 5,602 | 5,609 | -0.1% |
| EBITDA % | 40.0% | 40.9% | -0.9% |
| EBIT | 4,062 | 4,344 | -6.5% |
| Operating Profit | 4,078 | 4,229 | -3.6% |
| Operating Profit % | 29.1% | 30.9% | -1.8% |
| Net Profit | 3,388 | 3,397 | -0.3% |
| Net Profit % | 24.2% | 24.8% | -0.6% |
| EPS | 7.78 | 7.81 | -NT\$0.03 |
| ROE ^{*2} (annualized) | 29.2% | 29.6% | -0.4% |
| ROA ^{*3} (annualized) | 13.7% | 13.2% | 0.5% |

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 : Q320 vs. Q319

| (NT\$mn) | Q320 | Q319 | YoY |
|--------------------------------|----------|----------|----------|
| Revenue | 14,006 | 14,303 | -2.1% |
| EBITDA* ¹ | 5,602 | 5,453 | 2.7% |
| EBITDA % | 40.0% | 38.1% | 1.9% |
| EBIT | 4,062 | 4,207 | -3.4% |
| Operating Profit | 4,078 | 4,171 | -2.2% |
| Operating Profit % | 29.1% | 29.2% | -0.1% |
| Net Profit | 3,388 | 3,328 | 1.8% |
| Net Profit % | 24.2% | 23.3% | 0.9% |
| EPS | NT\$7.78 | NT\$7.64 | NT\$0.14 |
| ROE ^{*2} (annualized) | 29.2% | 33.2% | -4.0% |
| ROA ^{*3} (annualized) | 13.7% | 15.4% | -1.7% |

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



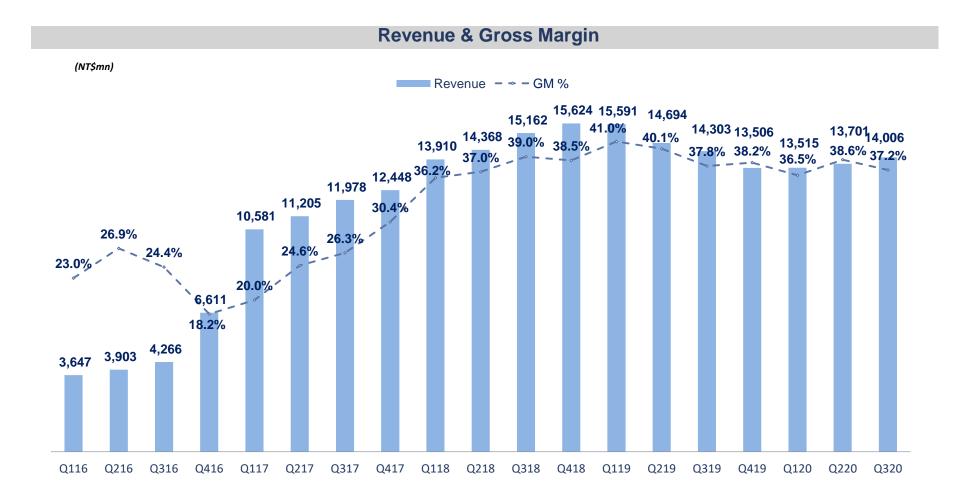
Financial Highlight : 3Q20 vs. 3Q19 (accumulated)

| (NT\$mn) | 3Q20 | 3Q19 | YoY |
|--------------------------------|-----------|-----------|-----------|
| Revenue | 41,222 | 44,588 | -7.6% |
| EBITDA* ¹ | 16,226 | 17,689 | -8.3% |
| EBITDA % | 39.4% | 39.7% | -0.3% |
| EBIT | 12,251 | 14,130 | -13.3% |
| Operating Profit | 12,112 | 14,044 | -13.8% |
| Operating Profit % | 29.4% | 31.5% | -2.1% |
| Net Profit | 9,666 | 10,727 | -9.9% |
| Net Profit % | 23.4% | 24.1% | -0.6% |
| EPS | NT\$22.21 | NT\$24.67 | -NT\$2.46 |
| ROE ^{*2} (annualized) | 29.2% | 33.2% | -4.0% |
| ROA ^{*3} (annualized) | 13.7% | 15.4% | -1.7% |

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

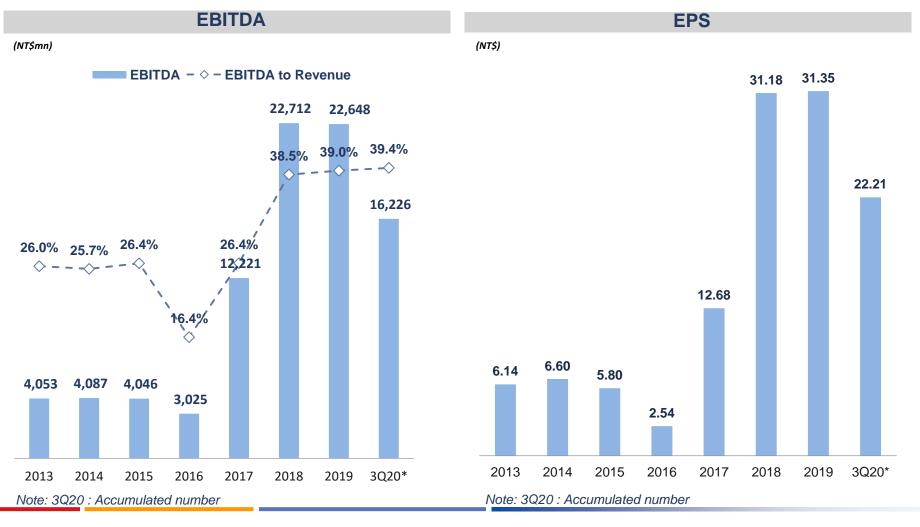


Revenue & Gross Margin





EBITDA & EPS





Financial Leverage

- > Sufficient cash makes GlobalWafers capable of sustainable development.
- Increasing bank loan for dividend payment reflects GWC's commitment to share the constant growth with shareholders.
 Cash Structure and Bank Loan







Income Statement

| (NT\$mn) | | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 3Q20* |
|------------------|--|--------|--------|---------------|---------------|---------------|---------------|--------------|-------------|
| Revenue | | 15,570 | 15,922 | 15,310 | 18,427 | 46,213 | 59,064 | 58,094 | 41,222 |
| | Growth (%) | - | 2.3% | -3.8% | 20.4% | 150.8% | 27.8% | -1.6% | - |
| Gross Pro | fit | 3,663 | 3,728 | 4,073 | 4,130 | 11,808 | 22,299 | 22,847 | 15,436 |
| | Gross Profit Margin (%) | 23.5% | 23.4% | 26.6% | 22.4% | 25.6% | 37.8% | 39.3% | 37.4% |
| EBITDA | | 4,053 | 4,087 | 4,046 | 3,025 | 12,221 | 22,712 | 22,648 | 16,226 |
| | EBITDA Margin (%) | 26.0% | 25.7% | 26.4% | 16.4% | 26.4% | 38.5% | 39.0% | 39.4% |
| Operating Profit | | 2,194 | 2,336 | 2,685 | 1,378 | 7,414 | 17,578 | 17,897 | 12,112 |
| | Operating Profit Margin (%) | 14.1% | 14.7% | 17.5% | 7.5% | 16.0% | 29.8% | 30.8% | 29.4% |
| Profit befo | re Tax | 2,204 | 2,679 | 2,808 | 1,344 | 6,875 | 18,253 | 18,554 | 12,417 |
| | Profit before Tax Margin (%) | 14.2% | 16.8% | 18.3% | 7.3% | 14.9% | 30.9% | 31.9% | 30.1% |
| Net Profit | | 1,948 | 2,095 | 2,044 | 939 | 5,278 | 13,634 | 13,636 | 9,666 |
| | Net Profit Margin (%) | 12.5% | 13.2% | 13.4% | 5.1% | 11.4% | 23.1% | 23.5% | 23.4% |
| EPS (NT\$) | | 6.14 | 6.60 | 5.80 | 2.54 | 12.68 | 31.18 | 31.35 | 22.21 |
| 1. | ote: Upon completion of GWC's acqui EMI from the period of 02 Dec 20 2020: Accumulated number | | | conductor ("S | SEMI") in 201 | 16, FY2016 fi | inancials has | included ear | rnings fror |

2. 3Q20: Accumulated number



Balance Sheet

| (NT\$mn) | | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 3Q20 |
|-------------------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| Assets | | | | | | | | | |
| | Cash and cash equivalents | 1,536 | 2,685 | 3,662 | 5,628 | 18,794 | 35,214 | 32,822 | 26,93 |
| | Account receivable | 3,165 | 3,694 | 4,538 | 7,642 | 7,869 | 9,226 | 8,140 | 8,313 |
| | Inventories | 3,291 | 2,829 | 3,262 | 7,307 | 7,347 | 7,040 | 6,849 | 7,369 |
| | Property, plant and equipment | 9,796 | 8,972 | 9,361 | 31,036 | 28,202 | 30,887 | 34,697 | 36,72 |
| | Other assets | 3,286 | 3,204 | 2,994 | 8,948 | 8,020 | 7,455 | 14,078 | 13,50 |
| Total assets | | 21,074 | 21,385 | 23,816 | 60,560 | 70,232 | 89,822 | 96,586 | 92,84 |
| | | | | | | | | | |
| iabilities | <u>s</u> | | | | | | | | |
| | Short-term loan | 1,302 | 2,069 | 696 | 12,982 | 10,738 | 5,042 | 9,886 | 12,91 |
| | Account payable | 1,816 | 1,789 | 1,383 | 5,126 | 4,269 | 4,870 | 3,837 | 3,84 ⁻ |
| | Long term loan | | | | 14,367 | 3,663 | 430 | | 0 |
| | Other liabilities | 4,821 | 4,325 | 5,012 | 12,267 | 17,508 | 36,324 | 37,790 | 32,99 |
| Total liabilities | | 7,939 | 8,184 | 7,091 | 44,742 | 36,178 | 46,666 | 51,513 | 49,74 |
| | der equity | 13,135 | 13,201 | 16,725 | 15,819 | 34,054 | 43,156 | 45,073 | 43,09 |

2.Account receivables include account receivables from related parties. 3.Account payables include account payables from related parties.



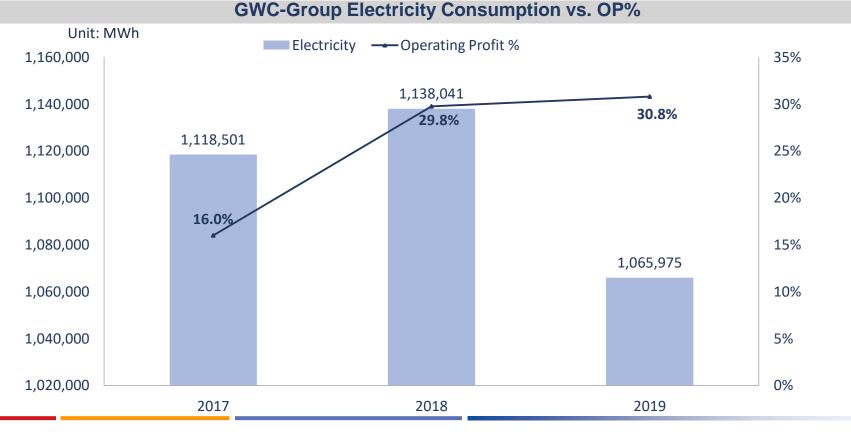
ESG Highlights

- Responsible Growth is our principle in business practices.
- GlobalWafers aims at being at the forefront of global responsibility in the aspects of environment, health & safety and corporate governance.



Sustainable Environment - Electricity

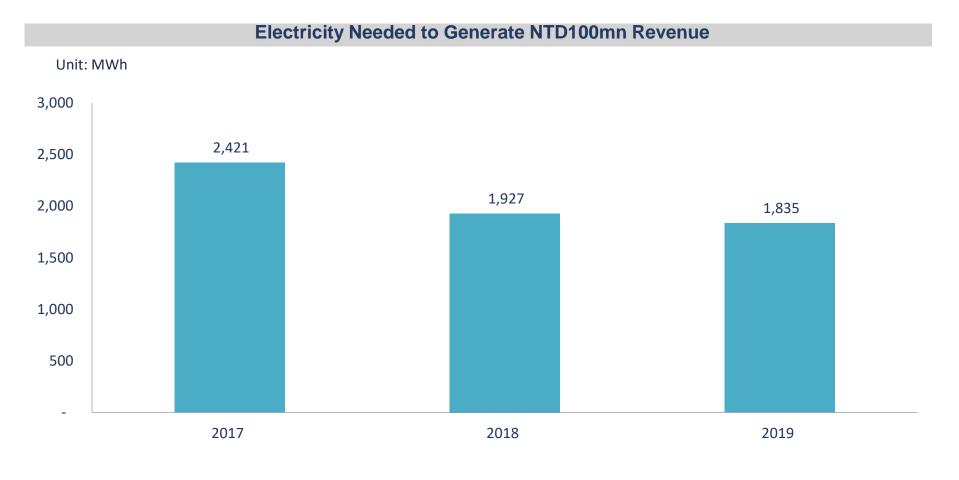
- By introducing energy saving measures, GlobalWafers lowers power consumption successfully without impeding it from enlarging production ability, we have achieved 1% power saving compared to last year as of now.
- Optimizing electricity consumption group wide has helped us improve operating profit by 14.8% in 3 years.





Improvement on Electricity Consumption

Though ingot growing and wafering consume a great deal of energy, GlobalWafers dedicates in enhancing energy efficiency and achieves same revenue with less energy.



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Committed to Green Energy

To fulfill the commitment to sustainable development, GWC cooperates with its parent company, SAS, on solar installation of 3,474 kW* which could reduce 1,842 tons of CO₂ emission every year.



Solar System Project

Note:

1. Ground–mounted PV Systems Phase II is under construction and expected to be done in Q221.





Sustainable Environment – Waste

- GlobalWafers adopts circular economy solutions to reduce costs and environmental impact.
- Almost 80% of the waste could be reused and regenerated as ingredients by other industries.
- Our relentless efforts make us outshining in the industry and are awarded the High Distinction Award from Year 2020 Outstanding Enterprise for Waste Reduction and Circular Economy.

2020 Outstanding Enterprise Award for Waste Reduction and Circular Economy

High Distinction Award



Charity and Environment Protection

GlobalWafers devotes our love to the ones that in need via donations. We also extend our care to environment through corporate volunteers by a series of activities like beach cleaning.





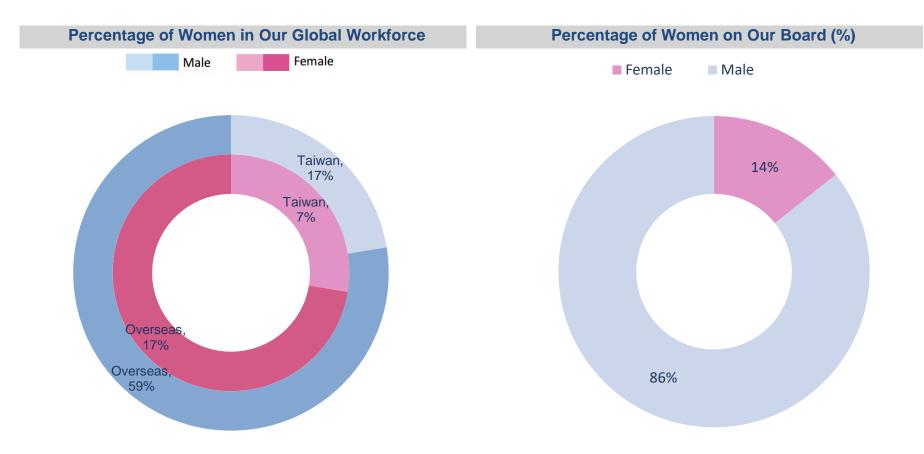
Ethical Business Practice





Diversity and Inclusion

- GlobalWafers is committed to supporting gender equality, advancing women in the workplace globally.
- ➢ Women in our global workforce is 24% overall, 14% on our board.











Thank You