TOKYO OHKA KOGYO CO., LTD. Business Results

— The 1st Half of Fiscal Year ending Dec. 2019—

Aug. 8, 2019 TOKYO OHKA KOGYO CO., LTD.



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Consolidated Business Results for the 1st Half of FY2019





Summary

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(Millions of yen)

| | FY2018/12 | F | Y2019/12 | 1H |
|---|-----------|--------|----------|-------|
| | 1H | | Change | % |
| Net sales | 50,748 | 48,932 | (1,815) | (3.6) |
| Operating income | 4,674 | 4,428 | (246) | (5.3) |
| Ordinary income | 4,675 | 4,407 | (268) | (5.7) |
| Profit attributable to owners of parent | 3,210 | 2,924 | (286) | (8.9) |

- ■Average exchange rate (US\$): ¥107.6/\$ (FY2018/12 1H) ⇒¥109.0/\$ (FY2019/12 1H)
- Net sales:

Decreased year on year due to a downward trend in semiconductor demand.

- Operating income : Decreased 5.3% year on year due to a decrease in sales.
- Profit attributable to owners of parent :

 Decreased 8.9% year on year partly due to a decrease in operating income.



| | | FY2018/12 1H | FY2019/12 1H | YoY |
|-----|---|------------------------|------------------------|----------------------|
| Nor | n-operating Expenses or income | 1 | (20) | (21) |
| | Interest and dividend income | +193 | +224 | +30 |
| | (Foreign exchange related losses/gains) Foreign exchange (loss) gain Loss(gain) on valuation of derivatives | (121) (514) +392 | (186) (471) +284 | (64) +43 (107) |
| Ext | raordinary losses or Income | (64) | (27) | +36 |
| | Gain on sale of fixed assets | +3 | +19 | +16 |
| | Loss on sales and retirement of noncurrent assets | (68) | (46) | +21 |



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Results by Business Segment

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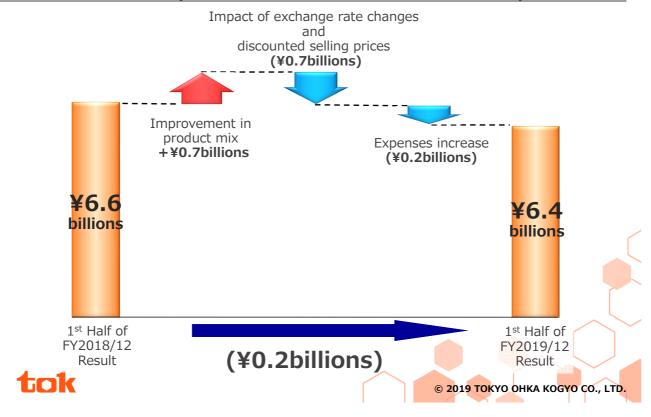
(Millions of yen)

| | | | FY2018/12 | FY2019/12 1H | | |
|----|-----------|---------------------------------|-----------|--------------|---------|--------|
| | | | 1H | Change | | % |
| Ne | Net sales | | 50,748 | 48,932 | (1,815) | (3.6) |
| | Ма | terial business | 49,686 | 47,791 | (1,895) | (3.8) |
| | | Electronic functional materials | 27,814 | 27,847 | +33 | +0.1 |
| | | High purity chemicals | 21,818 | 19,903 | (1,914) | (8.8) |
| | | Other | 53 | 40 | (13) | (24.7) |
| | Eq | uipment business | 1,061 | 1,141 | +79 | +7.5 |
| Ор | erat | ting income | 4,674 | 4,428 | (246) | (5.3) |
| | Ма | terial business | 6,656 | 6,423 | (233) | (3.5) |
| | Eq | uipment business | (321) | (270) | +50 | _ |
| | cor | minations and rporate | (1,661) | (1,724) | (63) | _ |

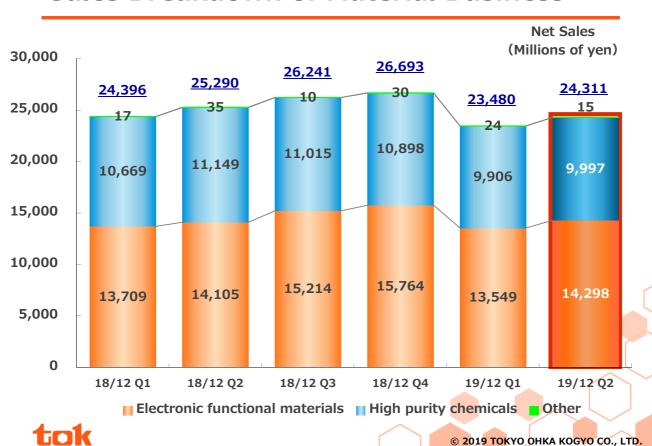
Note: Effective January 1, 2019, TOK changed the cost allocation method to evaluate and manage financial results by business segment more appropriately, and part of corporate expenses was allocated to Material Business. Following this change, the year-on-year comparison is conducted using the figures reclassified under the new allocation method.



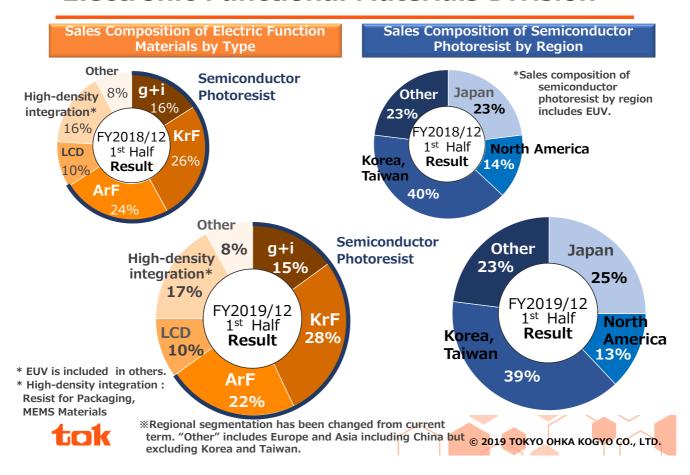
1st Half of FY2018/12 Result v.s. 1st Half of FY2019/12 Result



Sales Breakdown of Material Business 07

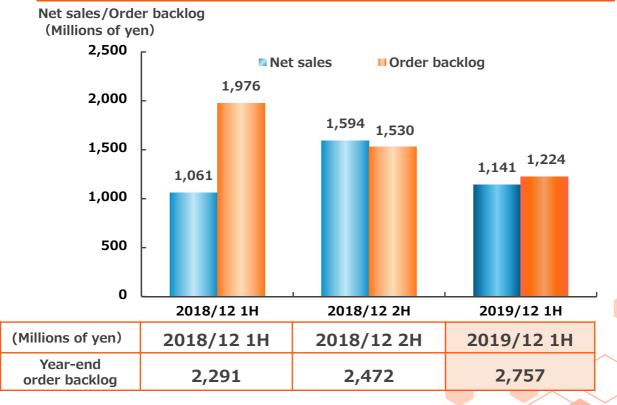


Electronic Functional Materials Division



Equipment Business

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| | FY2018/12 | 12 FY2019/12 1H | | -1 |
|---------------------|-----------|-----------------|--------|--------|
| | 1H | | Change | % |
| Capital Investments | 2,045 | 9,068 | +7,022 | +343.4 |
| Depreciation | 3,532 | 3,546 | +13 | +0.4 |
| R&D | 4,098 | 4,383 | +285 | +7.0 |





Balance Sheets

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(Million of yen)

| | | As of June 30, 2019 | v.s. December 31, 2018 | | Buildings and structures (732) |
|------|-------------------------------|---------------------------|------------------------------|------------|--|
| Cur | rent Assets | 96,037 | (3,863) | | Machinery |
| | Cash and deposits | 51,401 | (4,692) | | (1,784) Furniture and fixtures |
| | Notes and accounts receivable | 20,883 | (1,656) | | (302) Land |
| | Inventories | 18,557 | +1,312 | | (141) Construction in progress |
| Prop | perty, plant and equipment | 53,484 | +5,125 | | +7,625 |
| Inta | ngible assets | 506 | (51) | ' | Detained accessor |
| Inve | estments and other assets | 34,726 | +587 | | Retained earnings +374 |
| Cur | rent Liabilities | 23,916 | +2,540 | | Treasury stock +115 |
| | Notes and accounts payable | 9,670 | (1,710) | | Unrealized gain on |
| Lon | g-Term Liabilities | 10,969 | +245 | | available-for-sale securities |
| Tota | al net asset | 149,869 | (988) |) — | +220 |
| Tota | al asset | 184,755 | +1,798 | | Foreign currency translation adjustments |
| 4 | 4 | | ^ | | (1,221) |

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| | | FY2018/12 1H | FY2019/12 1H |
|-----|--|-----------------|-----------------|
| Cas | sh flows from operating activities | +7,693 | +5,205 |
| | Income before income taxes and minority interests | +4,611 | +4,379 |
| | Depreciation | +3,532 | +3,546 |
| | Decrease (increase) in trade notes and accounts receivable | +829 | +1,307 |
| | Decrease (increase) in inventories | (496) | (1,707) |
| | Decrease (increase) in trade notes and accounts payable | (321) | (1,648) |
| | Increase (decrease) in advances received | +95 | +265 |
| | Income taxes paid | (1,014) | (1,158) |
| Ca | sh flows from investing activities | (4,225) | (5,873) |
| Ca | sh flows from financing activities | +5,807 | (3,247) |
| Tra | nslation adjustments | (686) | (699) |
| | t increase (decrease) in cash and sh equivalents | +8,587 | (4,615) |

Major breakdown
Purchases of property,
plant and equipment
(4,529)

Major breakdown Proceeds from sales of treasury stock +51 Dividends paid (3,267)

(incl. minority shareholders)

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Consolidated Performance Forecasts for FY2019 (2019.1-2019.12)



Earnings Forecasts (Full-year)

(Millions of yen)

| | FY2018/12 | FY | casts | |
|---|-----------|---------|---------|--------|
| | 112010,12 | | Change | % |
| Net sales | 105,277 | 100,500 | (4,777) | (4.5) |
| Operating income | 10,505 | 8,300 | (2,205) | (21.0) |
| Ordinary income | 10,734 | 8,500 | (2,234) | (20.8) |
| Profit attributable to owners of parent | 6,875 | 4,900 | (1,975) | (28.7) |

- Exchange rate assumptions (US\$) : $$109.5/$$ (2018/12) \Rightarrow $105.0/$$ (2019/12 2H)$
- Net sales:
 Will decrease 4.5% year on year based on the 1st half results although Material Business expects a gradual recovery in semiconductor materials.
- Operating in come : Will decrease 21.0% year on year due to a decrease in sales of Material Business.
- Profit attributable to owners of parent :
 Will decrease 28.7% year on year due to a decrease in operating income.



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Performance Forecasts by Business Segment

(Millions of ven)

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| | | | FY2018/12 | FY2019 /12 Forecasts | | |
|-------|--------------------|---------------------------------|-----------|----------------------|---------|--------|
| | | | , , , , , | | Change | % |
| Net s | ales | | 105,277 | 100,500 | (4,777) | (4.5) |
| | Ma | terial business | 102,621 | 96,600 | (6,021) | (5.9) |
| | | Electronic functional materials | 58,793 | 55,700 | (3,093) | (5.3) |
| | | High purity chemicals | 43,733 | 40,800 | (2,933) | (6.7) |
| | Equipment business | | 2,655 | 3,900 | +1,244 | +46.9 |
| Oper | ating | j income | 10,505 | 8,300 | (2,205) | (21.0) |
| | Ma | terial business | 14,765 | 12,200 | (2,565) | (17.4) |
| | Equ | uipment business | (883) | (400) | +483 | _ |
| | Elir | minations and corporate | (3,376) | (3,500) | (123) | _ |

Note: Effective January 1, 2019, TOK changed the cost allocation method to evaluate and manage financial results by business segment more appropriately, and part of corporate expenses was allocated to Material Business. Following this change, the year-on-year comparison is conducted using the figures reclassified under the new allocation method.



| | FY2018/12 | F | Y2019/12 Fore | cast | |
|---------------------|-----------|--------|---------------|--------|--|
| | 112010/12 | | Change | % | |
| Capital Investments | 5,636 | 16,700 | +11,063 | +196.3 | |
| Depreciation | 7,063 | 7,500 | +436 | +6.2 | |
| R&D | 8,526 | 9,000 | +473 | +5.6 | |



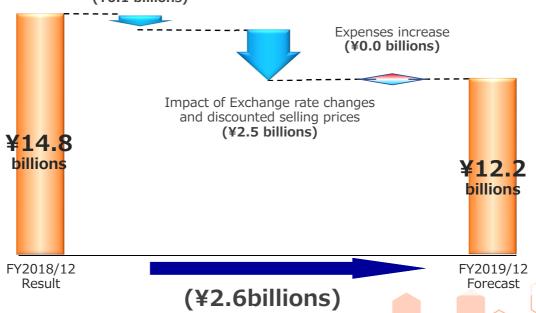
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Breakdown of the Charge in Operating Income (Material Business)

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FY2018/12 Result v.s. FY2019/12 Forecast

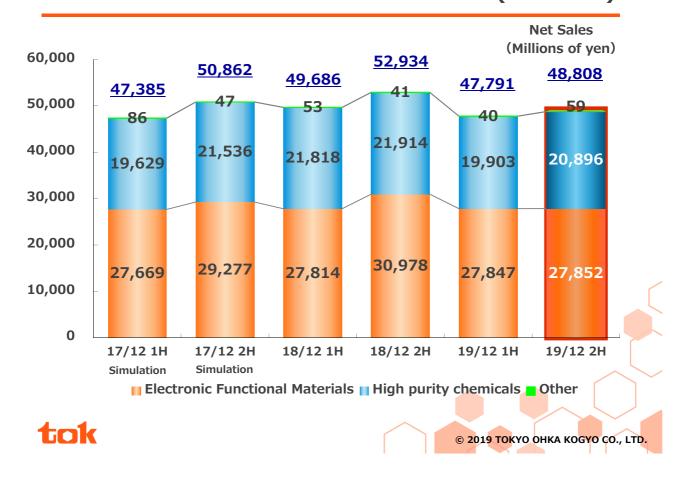
Impact of sales decreases, etc (¥0.1 billions)



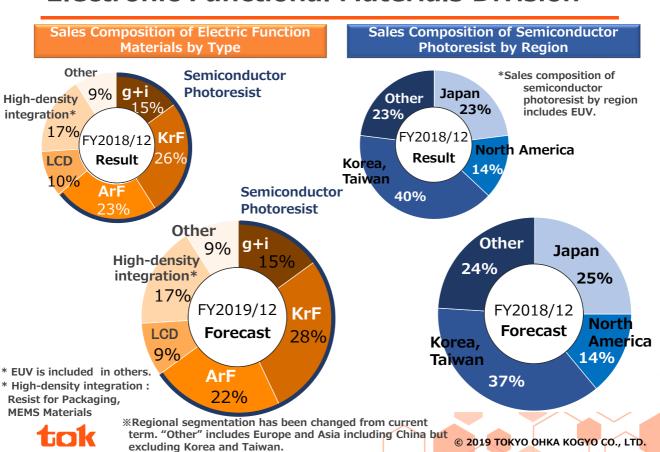
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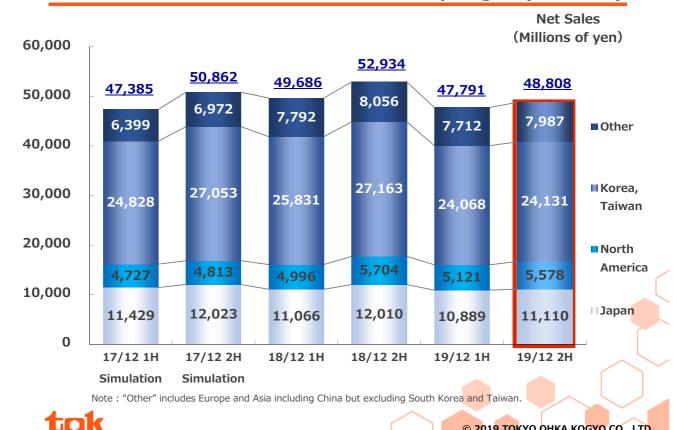
Sales Breakdown of Material Business (Forecast)18



Electronic Functional Materials Division 19



Appendix:
Sales Breakdown of Material Business by Region(Forecast) 20



Initiatives in TOK Medium-Term Plan 2021



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1. Strengthen business portfolio reforms

-Ambitiously develop the technologies required by 5G, IoT & Innovation.

2. Return to a growth trajectory

-Operating income target: 15.0 billion to 20.5 billion yen (Fiscal year ending December 31, 2021)

Operating income

3. Strengthen balance sheet management and introduce a new dividend policy

- -A new dividend policy targeting a dividend on equity ratio (DOE) of 3.5%.
- -Flexibly conduct share buyback as a means of returning profits to shareholders.



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(Billions of yen)

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Initiatives in business portfolio reforms

5G·IoT&Innovation

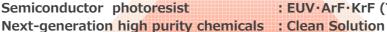
Higher capacity/ Higher processing speed/ Lower power consumption

More Moore

• EUV : Logic/DRAM

More than Moore

- · 3D-NAND
- · FO WLP/PLP



- Cutting-edge packages

- : Packaging photoresists, MEMS materials,

: EUV·ArF·KrF (Thick film)

3D packaging equipment

Core products

- Aggressive development of the nextgeneration technologies.
- Enhancement of production capacities.

New Business

Light control materials

Optical sensor etc.

- Life science-related materials

- Heat control materials

Lithium-ion batteries etc.

tink

Bio-chip materials etc.





■ EUV photoresists

Medium-Term Plan

- Obtain our qualified 3nm/5nm process aiming for our further growth after 2022.
- Qualified our EUV photoresists for 5nm process

■ KrF photoresists

Medium-Term Plan

- Further multilayer stacking of 3D-NAND.
 Address 9x-stacked to 1xx-stacked
- Qualified our thick KrF photoresist for 1xx-stacked 3D-NAND

High purity chemicals

Medium-Term Plan

- Increasing demand for new products for cutting-edge processes will drive sales growth.
- Step up development of new Clean Solution and new thinners for nextgeneration process.
- Enhance production capacity of Clean Solution
- Qualified our Surface Modifier



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Advanced Surface Preparation

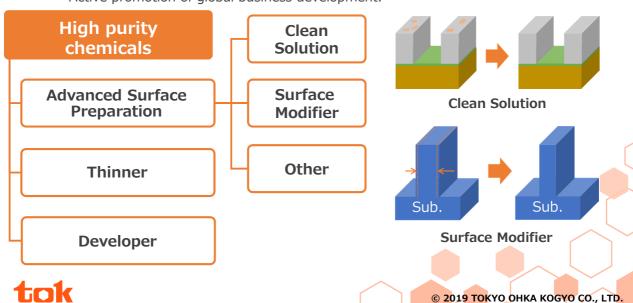
25

Strategically reinforce

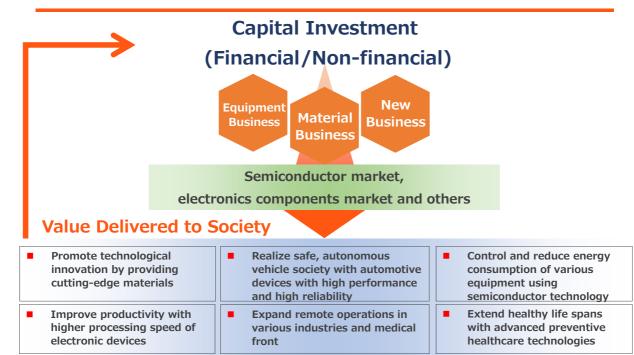
"Advanced Surface Preparation"

business among high purity chemicals

- Advanced Surface Preparation is a high value-added product with abundant business opportunities.
- Active promotion of global business development.



TOK's Sustainable Value Creation Process



Enhance sustainable corporate value

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Identification of Material Issues

d)Gs 27

Improve sustainable corporate value and create shared value through efforts to contribute to achievement of SDGs related to our material issues

- Development and provision of high value-added products that will contribute to innovation
- Enhancement of personnel measures
- Occupational health and safety/security and disaster prevention

Achieving SDGs

























- Environmental protection
- Chemical substance management

■ Enhancement of corporate governance



Explore New Technologies and Enhance Technological Capabilities to Meet Social Expectations with Chemicals for a Sustainable Earth





https://www.tok.co.jp/eng

(Note)

This presentation material contains forward-looking statements that describe future prospects of TOKYO OHKA KOGYO CO., LTD. (the Company) in terms of business planning, earnings and management strategies. Such statements are based on management's judgement, derived from information available to it at the time such information was prepared. Readers are cautioned not to rely solely on these forward-looking statements, as actual results and strategies may differ substantially according to changes in the Company's business environment.

