

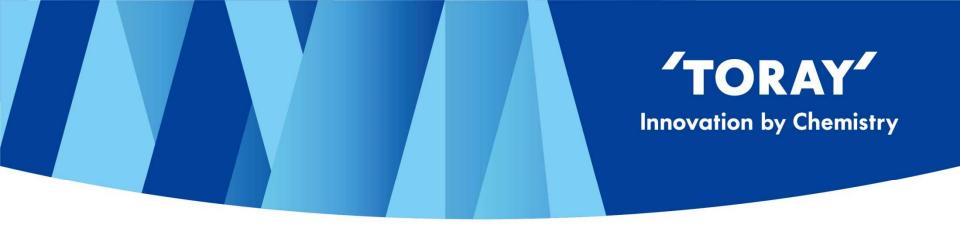
Announcement of Business Results For the 3Q and Nine Months Ended December 31, 2018

February 8, 2019 Toray Industries, Inc.

- I. Consolidated Business Results for the 3Q and Nine Months Ended December 31, 2018 (P3-18)
- II. Business Forecast for the Fiscal Year Ending March 2019 (Consolidated Basis) (P20-22)
- **III.** Reference

(P24-29)





 I. Consolidated Business Results for the 3Q and Nine Months Ended December 31, 2018

Summary of Consolidated Business Results for the 3Q and Nine Months Ended Dec. 31, 2018

| | FY Mar/18 3Q (OctDec.) | FY Mar/19 3Q (OctDec.) | Chan | ges | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Chan | ges |
|--|------------------------------|------------------------------|-------|-----------------------|---------------------------------------|---------------------------------------|--------|----------|
| Net Sales | 600.6 | 617.1 | +16.5 | <mark>(+2.7%)</mark> | 1,648.8 | 1,808.3 | +159.5 | (+9.7%) |
| Cost of Sales | 480.0 | 505.7 | +25.7 | (+5.4%) | 1,305.1 | 1,463.5 | +158.5 | (+12.1%) |
| Gross Profit | 120.6 | 111.4 | -9.2 | (-7.6%) | 343.8 | 344.8 | +1.0 | (+0.3%) |
| (Gross Profit to Net Sales) | 20.1% | 18.1% | -2.0 | points | 20.9% | 19.1% | -1.8 | points |
| Operating Income | 45.3 | 34.7 | -10.6 | (-23.5%) | 123.4 | 112.4 | -11.0 | (-8.9%) |
| (Operating Income to Net Sales) | 7.5% | 5.6% | -1.9 | points | 7.5% | 6.2% | -1.3 | points |
| Non-operating Income and Expenses, net | ▲ 0.5 | ▲ 0.6 | -0.1 | | ▲ 1.8 | ▲ 0.9 | +0.9 | |
| Ordinary Income | 44.8 | 34.0 | -10.8 | <mark>(-24.0%)</mark> | 121.6 | 111.4 | -10.1 | (-8.3%) |
| Special Credits and Charges, net | ▲ 5.7 | 13.7 | +19.4 | | ▲ 9.6 | 10.3 | +19.9 | |
| Income before Income Taxes | 39.1 | 47.7 | +8.6 | (+22.0%) | 111.9 | 121.7 | +9.8 | (+8.7%) |
| Net Income Attributable to Owners of Parent | 30.1 | 32.8 | +2.7 | (+9.1%) | 77.6 | 81.3 | +3.7 | (+4.8%) |

| Exchange Rate | | | | | | | |
|---------------------|---|----------------|---------------|----------------|-------------------------|---------------|-------------------------|
| | | (FY Mar/18 3Q) | \rightarrow | (FY Mar/19 3Q) | (FY Mar/18 Nine Months) | \rightarrow | (FY Mar/19 Nine Months) |
| <yen us\$=""></yen> | | | | | | | |
| Average | : | 113.0 | \rightarrow | 112.9 | 111.7 | \rightarrow | 111.1 |
| End of the Term | : | 113.0 | \rightarrow | 111.0 | | | |
| <yen euro=""></yen> | | | | | | | |
| Average | : | 133.0 | \rightarrow | 128.8 | 128.5 | \rightarrow | 129.5 |
| End of the Term | : | 134.9 | \rightarrow | 127.0 | | | |

Non-operating Income and Expenses

Billion yen

| | | FY Mar/18 3Q (OctDec) | FY Mar/19 3Q (OctDec.) | Changes | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Changes |
|--------------|---|-----------------------------|------------------------------|---------|---------------------------------------|---------------------------------------|---------|
| Non-operati | ng Income | 4.9 | 6.6 | +1.7 | 15.9 | 19.1 | +3.3 |
| | Interest and Dividend Income | 2.0 | 2.3 | +0.3 | 4.7 | 6.1 | +1.4 |
| | Equity in Earnings of Affiliates | 1.8 | 3.1 | +1.3 | 7.2 | 9.1 | +1.8 |
| | Others | 1.1 | 1.2 | +0.1 | 3.9 | 4.0 | +0.1 |
| Non-operatii | ng Expenses | ▲ 5.4 | ▲ 7.2 | -1.8 | ▲ 17.6 | ▲ 20.1 | -2.4 |
| | Interest Expenses | ▲ 1.2 | ▲ 2.0 | -0.7 | ▲ 3.8 | ▲ 5.2 | -1.4 |
| | Costs related to Start-up of New Facilities | ▲ 1.7 | ▲ 0.7 | +1.0 | ▲ 4.7 | ▲ 3.7 | +1.0 |
| | Costs related to Idle Facilities | ▲ 0.9 | ▲ 2.5 | -1.6 | ▲ 3.6 | ▲ 5.8 | -2.2 |
| | Others | ▲ 1.6 | ▲ 2.1 | -0.5 | ▲ 5.5 | ▲ 5.3 | +0.2 |
| Non-operati | ng Income and Expenses, net | ▲ 0.5 | ▲ 0.6 | -0.1 | ▲ 1.8 | ▲ 0.9 | +0.9 |
| Interest and | Dividend Income, Interest Expenses, net | 0.8 | 0.3 | -0.4 | 0.9 | 0.9 | -0.0 |

* Positive numbers : Income, Negative numbers (**A**) : Expenses

Special Credits and Charges

Billion yen

| | | FY Mar/18 3Q (OctDec) | FY Mar/19 3Q (OctDec.) | Changes | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Changes |
|-----------------|---|-----------------------------|------------------------------|---------|---------------------------------------|---------------------------------------|---------|
| Special Credits | S | 2.7 | 16.5 | +13.8 | 3.4 | 17.2 | +13.7 |
| G | ain on Sales of Property, Plant and Equipment | 0.5 | 15.3 | +14.8 | 0.7 | 15.4 | +14.7 |
| G | Sain on Sales of Investment Securities | 2.2 | 1.1 | -1.2 | 2.7 | 1.6 | -1.0 |
| С | Others | - | 0.1 | +0.1 | - | 0.1 | +0.1 |
| Special Charge | es | ▲ 8.4 | ▲ 2.8 | +5.6 | ▲ 13.0 | ▲ 6.9 | +6.1 |
| L | oss on Sales and Disposal of Property, Plant and Equipment | ▲ 1.9 | ▲ 2.0 | -0.1 | ▲ 3.9 | ▲ 4.5 | -0.6 |
| L | oss on Impairment of Fixed Assets | ▲ 2.8 | ▲ 0.9 | +1.9 | ▲ 3.4 | ▲ 1.2 | +2.2 |
| L | oss on Liquidation and Devaluation of Subsidiaries and Affiliated Companies | ▲ 3.7 | - | +3.7 | ▲ 3.7 | - | +3.7 |
| E | invironmental Expenses | - | - | - | ▲ 1.7 | - | +1.7 |
| s | ettlement Package | - | 0.1 | +0.1 | - | ▲ 0.9 | -0.9 |
| с | Others | ▲ 0.0 | ▲ 0.0 | +0.0 | ▲ 0.3 | ▲ 0.3 | -0.1 |
| Special Credits | s and Charges, net | ▲ 5.7 | 13.7 | +19.4 | ▲ 9.6 | 10.3 | +19.9 |

* Positive numbers : Income, Negative numbers (**A**) : Expenses

Assets, Liabilities, Net Assets

| | | | | Billion yen |
|------|-----------------------------|---------------|---------------|-------------|
| | | End of Mar/18 | End of Dec/18 | Changes |
| Tota | al Assets | 2,575.9 | 2,781.0 | +205.1 |
| | Current Assets | 1,127.0 | 1,203.3 | +76.2 |
| | Tangible Assets | 927.0 | 970.9 | +43.9 |
| | Intangible Assets | 68.6 | 190.5 | +121.9 |
| | Investment and Other Assets | 453.2 | 416.3 | -36.9 |

| | End of Mar/18 | End of Dec/18 | Changes |
|------------------------|---------------|---------------|-------------|
| Total Liabilities | 1,406.7 | 1,569.7 | +162.9 |
| Current Liabilities | 676.5 | 717.2 | +40.7 |
| Other Liabilities | 730.2 | 852.4 | +122.2 |
| Total Net Assets | 1,169.2 | 1,211.4 | +42.2 |
| | | | |
| Owner's Equity | 1,090.7 | 1,129.9 | +39.2 |
| Equity Ratio | 42.3% | 40.6% | -1.7 points |
| | | | |
| Interest-bearing Debts | 816.3 | 969.5 | +153.1 |
| | | | |
| D/E Ratio | 0.75 | 0.86 | +0.11 |

* Purchase price allocation associated with the purchase of stake in TenCate Advanced Composites Holding B.V. has been completed in the 3Q of this consolidated financial year.

(1) Goodwill

65.8 billion yen (amortization period: 20 years)

(2) Customer-related intangible assets 42.0 billion yen (amortization period: 20 years)

(3) Technology-based intangible assets 27.0 billion yen (amortization period: 24 years)

Capital Expenditures, Depreciation, R&D Expenses

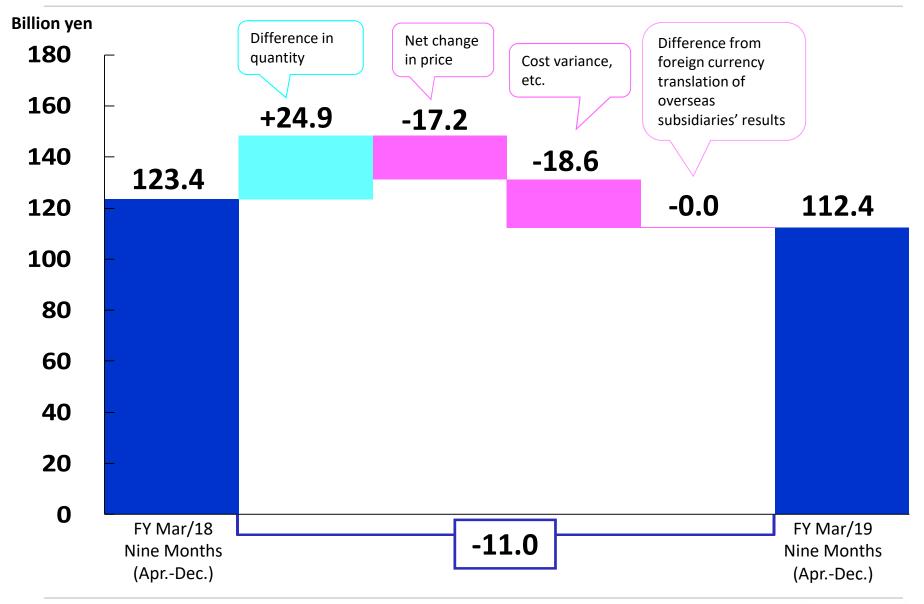
| | | | Billion yen |
|---------------------------|---------------------------------------|---------------------------------------|-------------|
| | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Changes |
| Capital Expenditures* | 107.6 | 108.8 | +1.1 |
| Тогау | 26.0 | 20.4 | -5.5 |
| Consolidated Subsidiaries | 81.7 | 88.4 | +6.7 |
| Depreciation* | 71.4 | 77.1 | +5.7 |
| Toray | 23.6 | 25.0 | +1.4 |
| Consolidated Subsidiaries | 47.9 | 52.1 | +4.2 |
| R&D Expenses | 46.7 | 49.9 | +3.2 |
| Тогау | 35.1 | 36.4 | +1.3 |
| Consolidated Subsidiaries | 11.6 | 13.4 | +1.9 |

* Total of tangible assets and intangible assets (excluding goodwill)

Major Capital Expenditure Projects :

| Toray Battery Separator Film Korea Limited | : | Battery separator film SETELA® production facilities |
|--|---|--|
| Zoltek Companies, Inc. | : | Large tow carbon fiber ZOLTEK [™] production facilities |
| Alcantara S.p.A. | : | Alcantara [®] production facilities |
| Toray BSF Coating Korea Limited | : | Battery separator film SETELA [®] coating facilities |

Income Variance Factor Analysis



TORAY

Net Sales and Operating Income by Segment

| | | Net Sales | | | | Operating Income | | |
|----------------------------------|-----------------------------|------------------------------|-------|----------|-----------------------------|------------------------------|-------|----------|
| | FY Mar/18 3Q (OctDec) | FY Mar/19 3Q (OctDec.) | Cha | inges | FY Mar/18 3Q (OctDec) | FY Mar/19 3Q (OctDec.) | Ch | anges |
| Fibers & Textiles | 274.8 | 258.0 | -16.8 | (-6.1%) | 23.0 | 18.5 | -4.5 | (-19.5%) |
| Performance Chemicals | 209.0 | 219.9 | +10.9 | (+5.2%) | 20.0 | 16.2 | -3.9 | (-19.4%) |
| Carbon Fiber Composite Materials | 43.4 | 57.8 | +14.5 | (+33.3%) | 4.6 | 2.4 | -2.2 | (-47.7%) |
| Environment & Engineering | 55.7 | 63.2 | +7.5 | (+13.5%) | 2.5 | 2.2 | -0.3 | (-13.0%) |
| Life Science | 13.6 | 13.9 | +0.4 | (+2.7%) | 0.6 | 0.6 | +0.0 | (+0.4%) |
| Others | 4.2 | 4.2 | +0.1 | (+1.3%) | 0.8 | 0.9 | +0.1 | (+12.0%) |
| Total | 600.6 | 617.1 | +16.5 | (+2.7%) | 51.6 | 40.8 | -10.8 | (-20.9%) |
| Adjustments | | | | | ▲ 6.3 | ▲ 6.1 | +0.2 | |
| Consolidated | 600.6 | 617.1 | +16.5 | (+2.7%) | 45.3 | 34.7 | -10.6 | (-23.5%) |

| | | Net Sales | | | Operating Income | | | | |
|----------------------------------|---------------------------------------|---------------------------------------|--------|----------|---------------------------------------|---------------------------------------|-------|----------|--|
| | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Cha | nges | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Ch | anges | |
| Fibers & Textiles | 697.6 | 761.1 | +63.5 | (+9.1%) | 58.6 | 60.3 | +1.7 | (+3.0%) | |
| Performance Chemicals | 599.7 | 654.9 | +55.2 | (+9.2%) | 55.7 | 52.0 | -3.8 | (-6.8%) | |
| Carbon Fiber Composite Materials | 128.2 | 154.3 | +26.1 | (+20.4%) | 15.1 | 8.4 | -6.7 | (-44.4%) | |
| Environment & Engineering | 170.9 | 184.6 | +13.7 | (+8.0%) | 9.4 | 7.9 | -1.4 | (-15.5%) | |
| Life Science | 39.8 | 40.2 | +0.4 | (+1.1%) | 1.9 | 1.2 | -0.7 | (-36.2%) | |
| Others | 12.7 | 13.3 | +0.6 | (+4.7%) | 1.7 | 1.7 | +0.1 | (+3.7%) | |
| Total | 1,648.8 | 1,808.3 | +159.5 | (+9.7%) | 142.4 | 131.5 | -10.8 | (-7.6%) | |
| Adjustments | | | | | ▲ 19.0 | ▲ 19.2 | -0.2 | | |
| Consolidated | 1,648.8 | 1,808.3 | +159.5 | (+9.7%) | 123.4 | 112.4 | -11.0 | (-8.9%) | |



Business Results by Segment (Fibers & Textiles)

Net Sales / Operating Income

| | | | | D | sinton yen |
|---------------------|--------------------------|---------------------------------------|---------------------------------------|-------|------------|
| | | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Char | nges |
| | Toray | 145.8 | 152.6 | +6.8 | (+4.7%) |
| | Japanese Subsidiaries | 347.8 | 394.3 | +46.5 | (+13.4%) |
| Net Sales | Overseas Subsidiaries | 436.3 | 480.1 | +43.8 | (+10.0%) |
| | Adjustment | ▲ 232.3 | ▲ 265.9 | -33.5 | |
| | Total | 697.6 | 761.1 | +63.5 | (+9.1%) |
| | Toray | 15.5 | 14.6 | -0.9 | (-5.5%) |
| o | Japanese Subsidiaries | 10.0 | 11.3 | +1.4 | (+13.7%) |
| Operating Income | Overseas Subsidiaries | 35.0 | 34.9 | -0.1 | (-0.4%) |
| | Adjustment | ▲ 1.9 | ▲ 0.5 | +1.4 | |
| | Total | 58.6 | 60.3 | +1.7 | (+3.0%) |

Changes in Operating Income Billion yen +5.3-5.2 +1.660.3 -0.0 58.6 +1.7FY Mar/18 FY Mar/19 Difference from Difference Net change Cost foreign currency in price* Nine Months in quantity variance. Nine Months translation of etc. (Apr.-Dec.) (Apr.-Dec.) overseas subsidiaries' results * Difference in selling price and raw materials' cost and fuel prices of petrochemical-based products, etc. (net)

Billion yen Business Performance

Overall

Affected by the increase in raw material prices.

Japan

 Demand for industrial applications such as automobiles was strong as a whole, while shipment of apparel applications remained weak partly due to unseasonable weather. Against this background, Toray Group not only strived to expand sales in each application but also worked to expand the business format that integrates fibers to textiles to final products while focusing on strengthening cost competitiveness.

Overseas

- Business performance of some subsidiaries in Southeast Asia remained slow, and there were signs of demand slowdown for materials for automotive applications in China and other countries.
- Expanded the integrated business for apparel applications.

Topics

- Oct. 2018 : Started full-scale sales of "Youishutou", functional pants for prevention of low back pain.
- Nov. 2018 : Started sales of an environmentally friendly non-woven material with a suede texture, "Ultrasuede[®] BX", realizing the world's highest proportion of plant-based raw material.

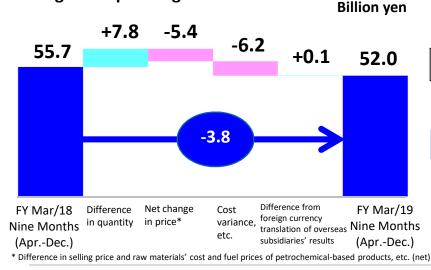


Business Results by Segment (Performance Chemicals)

| et Sale | s / Operat | ing incor | ne | В | illion yen |
|-----------|--------------|-------------|-------------|-------|------------|
| | | FY Mar/18 | FY Mar/19 | | |
| | | Nine Months | Nine Months | Char | nges |
| | - | (AprDec.) | (AprDec.) | | |
| | Toray | 183.8 | 200.3 | +16.5 | (+9.0%) |
| | Japanese | 340.5 | 377.1 | +36.5 | (+10.7%) |
| N+ | Subsidiaries | 540.5 | 577.1 | +50.5 | (+10.7%) |
| Net | Overseas | 394.0 | 438.0 | +44.1 | (+11.2%) |
| Sales | Subsidiaries | 554.0 | 430.0 | 144.1 | (11.270) |
| | Adjustment | ▲ 318.6 | ▲ 360.5 | -41.9 | |
| | Total | 599.7 | 654.9 | +55.2 | (+9.2%) |
| | Toray | 17.9 | 15.5 | -2.4 | (-13.5%) |
| | Japanese | 10.7 | 11.6 | +0.9 | (+8.4%) |
| | Subsidiaries | 10.7 | 11.0 | +0.9 | (+0.470) |
| Operating | Overseas | 29.5 | 26.3 | -3.3 | (-11.1%) |
| Income | Subsidiaries | 29.5 | 20.3 | -3.3 | (-11.170) |
| | Adjustment | ▲ 2.4 | ▲ 1.4 | +1.0 | |
| | Total | 55.7 | 52.0 | -3.8 | (-6.8%) |

Changes in Operating Income

Not Colos / Onerating Income



Business Performance

Resins Business

• Expanded sales of automotive applications while passing on rise in raw material prices to the sales price but the business was affected by China's economic slowdown.

Chemicals Business

• Saw an improvement in the basic chemicals market and sales of fine chemical products also increased.

Films Business

 Shipment of battery separator films for lithium-ion secondary batteries increased reflecting demand growth, while polyester films and other products were broadly affected by the increase in raw material prices.

Electronic & Information Materials

Affected by the slowing demand for OLED related materials.

Topics

 Dec. 2018 : Decided to enhance production capacity of ABS resin, TOYOLAC[®] at Toray Plastics (Malaysia) Sdn. Berhad.



Breakdown of Performance Chemicals Segment

| | FY Mar, Nine Mo (AprDe | nths | FY Mar/19 Nine Months (AprDec.) | | | | |
|------------------------------------|------------------------------|-------|---------------------------------------|-------|---------|--|--|
| | Net Sales | Ratio | Net Sales | Ratio | Changes | | |
| Resins, Chemicals | 265.4 | 29% | 292.1 | 29% | +10% | | |
| Films | 245.2 | 27% | 265.8 | 26% | +8% | | |
| Electronic & Information Materials | 48.8 | 5% | 49.1 | 5% | +1% | | |
| Trading | 358.9 | 39% | 408.4 | 40% | +14% | | |
| Adjustments | ▲ 318.6 | - | ▲ 360.5 | - | - | | |
| Total | 599.7 | | 654.9 | | +9% | | |

Business Results by Segment (Carbon Fiber Composite Materials)

Billion yon

Net Sales / Operating Income

Changes in Operating Income

| | | | | D | mon yen |
|---------------------|--------------------------|---------------------------------------|---------------------------------------|-------|----------|
| | | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Char | nges |
| | Toray | 70.4 | 81.8 | +11.4 | (+16.2%) |
| | Japanese Subsidiaries | 51.0 | 59.1 | +8.1 | (+16.0%) |
| Net Sales | Overseas Subsidiaries | 103.2 | 136.7 | +33.6 | (+32.5%) |
| | Adjustment | ▲ 96.3 | ▲ 123.4 | -27.0 | |
| | Total | 128.2 | 154.3 | +26.1 | (+20.4%) |
| | Toray | 7.2 | 6.4 | -0.8 | (-11.1%) |
| | Japanese Subsidiaries | 1.2 | 1.1 | -0.0 | (-4.1%) |
| Operating Income | Overseas Subsidiaries | 8.6 | 7.5 | -1.1 | (-12.6%) |
| | Adjustment | ▲ 1.9 | ▲ 6.7 | -4.8 | |
| | Total | 15.1 | 8.4 | -6.7 | (-44.4%) |

Billion yen +10.0 -5.1 -11.5 15.1 8.4 -0.1 -6.7 Difference from FY Mar/18 Difference Net change Cost FY Mar/19 foreign currency in quantity in price* variance, Nine Months Nine Months translation of etc. overseas subsidiaries' (Apr.-Dec.) (Apr.-Dec.) results

* Difference in selling price and raw materials' cost and fuel prices of petrochemical-based products, etc. (net)

Business Performance

Overall

 Affected by rising raw material prices and intensifying competition. The cost of starting a new project at a composite subsidiary overseas increased and the segment also incurred related fees for the purchase of the entire stake in TenCate Advanced Composites Holding B.V.

Aerospace applications

• Demand for the aircraft application was mostly strong given the completion of the inventory adjustment in the supply chain.

Industrial applications

• Demand as a whole showed a recovery trend primarily in the environment and energy-related fields led by compressed natural gas tank applications and wind turbine blade applications.

Topics

- Nov. 2018 : Toray Carbon Magic Co., Ltd. decided to purchase the entire stake of Moon Craft Co., Ltd.
- Nov. 2018 : Started sales of new carbon fibers and prepreg, the "TORAYCA[®] MX" series that realizes both higher tensile strength and tensile modulus.





Breakdown of Carbon Fiber Composite Materials Segment

| | FY Ma Nine Month | - | Nine N | Dec.) | |
|--|---------------------|-------|-----------|-------|---------|
| | Net Sales | Ratio | Net Sales | Ratio | Changes |
| Aerospace | 60.3 | 47% | 68.3 | 44% | +13% |
| Sports | 11.7 | 9% | 13.2 | 9% | +13% |
| Industrial | 56.2 | 44% | 72.8 | 47% | +30% |
| Total of Carbon Fiber Composite Materials | 128.2 | | 154.3 | | +20% |

Business Results by Segment (Environment & Engineering)

Net Sales / Operating Income

Changes in Operating Income

| | | | | Bi | llion yen |
|-----------|--------------|-------------|--------------|-------|-----------|
| | | FY Mar/18 | FY Mar/19 | | |
| | | Nine Months | Nine Months | Char | nges |
| | | (AprDec.) | (AprDec.) | | |
| | Тогау | 16.3 | 16.8 | +0.5 | (+3.4% |
| | Japanese | 204.0 | 217.9 | +14.0 | (+6.8% |
| Net | Subsidiaries | 204.0 | 217.5 | .14.0 | (10.070 |
| Sales | Overseas | 23.7 | 24.7 | +1.0 | (+4.3% |
| Suics | Subsidiaries | | | - | (|
| | Adjustment | ▲ 73.1 | ▲ 75.0 | -1.8 | |
| | Total | 170.9 | 184.6 | +13.7 | (+8.0% |
| | Тогау | 0.3 | ▲ 1.5 | -1.8 | (- |
| | Japanese | 6.7 | 6.1 | -0.6 | (-9.4% |
| . | Subsidiaries | 0.7 | 0.1 | -0.0 | (-9.470 |
| Operating | Overseas | 2.3 | 3.3 | +1.0 | (+42.6% |
| Income | Subsidiaries | 2.5 | 5.5 | +1.0 | (-=2.070 |
| | Adjustment | 0.1 | 0.0 | -0.0 | |
| | Total | 9.4 | 7.9 | -1.4 | (-15.5% |

Billion yen +1.2-0.9 -1.7 9.4 +0.07.9 -1.4 Difference from FY Mar/19 Difference Net change Cost FY Mar/18 foreign currency in price* in quantity variance. Nine Months Nine Months translation of etc. overseas (Apr.-Dec.) (Apr.-Dec.) subsidiaries' results

Business Performance

Water Treatment Business

• Demand for reverse osmosis membranes and other products grew strongly on the whole in Japan and abroad.

Japanese Subsidiaries

- The trading volume of a trading subsidiary increased.
- An engineering subsidiary experienced decrease in the shipment of some electronics-related equipments.



- Oct. 2018 : Won the Good Design Award 2018 for the pitcher-type water purifier, "TORAVINO[®] PT306SV".
- Oct. 2018 : Established a joint venture company with MCM Co., Ltd. in the Republic of Korea for the assembly and sales of air filters.
- Nov. 2018 : Started sales of a cleaning cloth, "TORAYSEE[®] for ES" for the cleansing and wiping of medical imaging lenses.

* Difference in selling price and price change of products less subject to price effect of petrochemical-based raw materials (net)

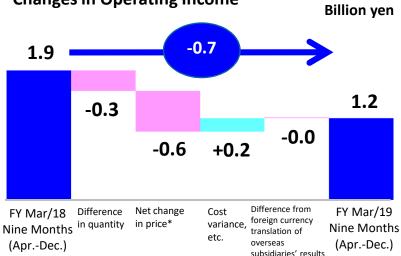


Business Results by Segment (Life Science)

Billion ven

Net Sales / Operating Income

| | | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Char | nges |
|---------------------|--------------------------|---------------------------------------|---------------------------------------|------|----------|
| | Toray | 20.4 | | -1.2 | (-5.7%) |
| | Japanese Subsidiaries | 30.2 | 31.3 | +1.1 | (+3.6%) |
| Net Sales | Overseas Subsidiaries | 8.8 | 9.6 | +0.8 | (+9.1%) |
| | Adjustment | ▲ 19.6 | ▲ 19.9 | -0.3 | |
| | Total | 39.8 | 40.2 | +0.4 | (+1.1%) |
| | Toray | ▲ 0.2 | ▲ 0.5 | -0.3 | (-) |
| Que estat in a | Japanese Subsidiaries | 0.8 | 0.9 | +0.1 | (+17.0%) |
| Operating Income | Overseas Subsidiaries | ▲ 0.2 | 0.1 | +0.3 | (-) |
| | Adjustment | 1.5 | 0.6 | -0.9 | |
| | Total | 1.9 | 1.2 | -0.7 | (-36.2%) |



Changes in Operating Income

Business Performance

Pharmaceutical Business

- Sales volume of orally active prostacyclin derivative DORNER[®] increased for overseas markets, but were affected by its generic versions and the revision of National Health Insurance drug price standards in Japan.
- Sales of pruritus treatment REMITCH^{**} were influenced by the market entry of its generic versions.

Medical Devices Business

- Dialyzers were affected by the reduction of the insurance reimbursement prices in Japan and the increase in raw material prices.
- Sales volume of dialysis machines also expanded.
- *REMITCH[®] is a registered trademark of Torii Pharmaceutical Co., Ltd.

Topics

 Nov. 2018 : Agreed on the implementation schedule with US Systems Oncology, LLC for the development of "TRK-880", a novel small-molecular drug targeting cancer.

* Difference in selling price and price change of products less subject to price effect of petrochemical-based raw materials (net)



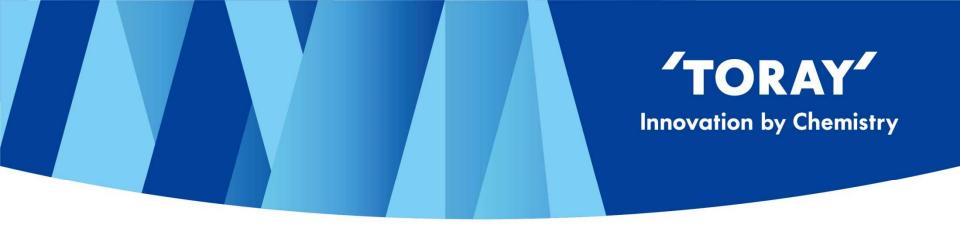
Results of Major Subsidiaries and Regions

| | | | Net Sales | | Ор | erating Income | |
|-----------------------------|-----------------------|---------------------------------------|---------------------------------------|---------|---------------------------------------|---------------------------------------|---------|
| | | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Changes | FY Mar/18 Nine Months (AprDec.) | FY Mar/19 Nine Months (AprDec.) | Changes |
| Toray International, Inc. | | 453.7 | 517.8 | +64.0 | 10.1 | 11.3 | +1.2 |
| Toray Engineering Co., Ltd. | | 79.0 | 82.5 | +3.4 | 5.1 | 2.9 | -2.3 |
| Toray Construction Co., Ltd | | 36.8 | 37.1 | +0.3 | 0.7 | 2.0 | +1.2 |
| Toray Advanced Film Co., L | td. | 32.4 | 31.0 | -1.4 | 2.5 | 2.5 | +0.1 |
| Subsidiaries in | Fibers & Textiles | 102.0 | 117.8 | +15.8 | 7.2 | 6.5 | -0.6 |
| Southeast Asia | Performance Chemicals | 81.6 | 89.0 | +7.5 | 8.7 | 6.6 | -2.1 |
| | Others | 0.1 | 0.2 | +0.1 | 0.0 | 0.0 | +0.0 |
| | Total | 183.7 | 207.1 | +23.4 | 15.8 | 13.1 | -2.7 |
| Subsidiaries in China | Fibers & Textiles | 215.7 | 235.3 | +19.6 | 19.8 | 20.7 | +1.0 |
| | Performance Chemicals | 76.4 | 80.9 | +4.5 | 2.2 | 2.6 | +0.5 |
| | Others | 23.2 | 26.1 | +2.9 | 0.7 | 1.3 | +0.6 |
| | Total | 315.3 | 342.3 | +27.0 | 22.6 | 24.7 | +2.0 |
| Subsidiaries in Korea | Fibers & Textiles | 73.6 | 79.4 | +5.8 | 2.5 | 2.1 | -0.4 |
| | Performance Chemicals | 103.3 | 118.2 | +14.8 | 13.9 | 13.9 | -0.1 |
| | Others | 13.5 | 18.6 | +5.1 | 1.5 | 1.9 | +0.4 |
| | Total | 190.4 | 216.1 | +25.7 | 18.0 | 17.9 | -0.1 |

Comparison of Operating Income (2Q vs. 3Q) by Segment

| Segment | Operating Income 2Q Actual → 3Q Actual () difference | Variance Factors |
|--|--|--|
| Fibers & Textiles | 23.3 → 18.5 (- 4.8) | Shipment of materials for autumn/winter garments decreased due to the front- loaded shipment in the first-half of the fiscal year. |
| Performance Chemicals | 18.6 → 16.2 (- 2.4) | In the resins business, demand for ABS resins slowed down due to the sluggish Chinese market. In the electronic and information materials business, sales of high-functional electric circuit materials decreased at a Korean subsidiary. |
| Carbon Fiber Composite Materials | 2.9 → 2.4 (- 0.5) | Expenses related to the amortization of goodwill and intangible assets were incurred due to the new consolidation of TenCate Advanced Composites Holding B.V. |
| Environment & Engineering | 3.9 → 2.2 (- 1.7) | Shipment of electronics-related machineries remained weak at an engineering subsidiary. Inventory was written down in the water treatment business. |
| Life Science | 0.5 → 0.6 (+ 0.0) | In the medical devices business, shipment of dialyzers remained strong in Japan and overseas. |
| Others | 0.6 → 0.9 (+ 0.3) | |
| Adjustments | ▲6.0 →▲6.1 (- 0.2) | |
| Total | 43.8 → 34.7 (- 9.1) | |





II. Business Forecast for the Fiscal Year Ending March 2019 (Consolidated Basis)

Forecast Summary for the Fiscal Year Ending March 2019

Billion yen

| | | FY Mar/18 Actual | FY Mar/19 Forecast | Char | nges | Previous Forecast | Difference from Previous Forecast* |
|------------------|----------|---------------------|-----------------------|--------|----------|----------------------|--|
| | 1st Half | 1,048.2 | 1,191.2 | +143.0 | (+13.6%) | 1,191.2 | — |
| Net Sales | 2nd Half | 1,156.6 | 1,208.8 | +52.1 | (+4.5%) | 1,258.8 | -50.0 |
| | Total | 2,204.9 | 2,400.0 | +195.1 | (+8.9%) | 2,450.0 | -50.0 |
| | 1st Half | 78.1 | 77.7 | -0.4 | (-0.5%) | 77.7 | — |
| Operating Income | 2nd Half | 78.4 | 62.3 | -16.1 | (-20.5%) | 82.3 | -20.0 |
| | Total | 156.5 | 140.0 | -16.5 | (-10.5%) | 160.0 | -20.0 |
| | 1st Half | 76.8 | 77.4 | +0.6 | (+0.8%) | 77.4 | — |
| Ordinary Income | 2nd Half | 75.5 | 57.6 | -17.9 | (-23.7%) | 77.6 | -20.0 |
| | Total | 152.3 | 135.0 | -17.3 | (-11.4%) | 155.0 | -20.0 |
| Net Income | 1st Half | 47.5 | 48.5 | +1.0 | (+2.1%) | 48.5 | — |
| Attributable to | 2nd Half | 48.4 | 41.5 | -6.9 | (-14.2%) | 49.5 | -8.0 |
| Owners of Parent | Total | 95.9 | 90.0 | -5.9 | (-6.2%) | 98.0 | -8.0 |
| | 1st Half | 29.71 yen | 30.32 yen | | | | |

| Nethersen | 1st Half | 29.71 yen | 30.32 yen |
|-------------------------|----------|-----------|-----------|
| Net Income per Share | 2nd Half | 30.25 yen | 25.94 yen |
| Share | Total | 59.97 yen | 56.26 yen |
| | 1st Half | 7 yen | 8 yen |
| Dividend per Share | 2nd Half | 8 yen | 8 yen |
| | Total | 15 yen | 16 yen |

Assumed exchange rate : 110 yen / US\$ (from January)

*Difference from Previous Forecast : the difference from the forecast announced on November 9, 2018.



Forecast by Segment

Billion yen

| | | FY Mar/18FY Mar/19ChangesActualForecast | | | Difference from Previous Forecast* | | | | | | |
|-----------|----------------------------------|---|---------------|---------|---|----------|---------|----------|----------|--------|-------|
| | | 1st Half | 2nd Half | Total | 1st Half | 2nd Half | Total | 1st Half | 2nd Half | Total | Total |
| | Fibers & Textiles | 422.8 | 490.8 | 913.6 | 503.1 | 466.9 | 970.0 | +80.3 | -23.9 | +56.4 | -30.0 |
| | Performance Chemicals | 390.7 | 412.6 | 803.3 | 435.0 | 445.0 | 880.0 | +44.3 | +32.4 | +76.7 | -15.0 |
| | Carbon Fiber Composite Materials | 84.8 | 93.1 | 177.9 | 96.5 | 118.5 | 215.0 | +11.6 | +25.4 | +37.1 | _ |
| Net Sales | Environment & Engineering | 115.2 | 123.0 | 238.3 | 121.4 | 138.6 | 260.0 | +6.2 | +15.6 | +21.7 | _ |
| | Life Science | 26.2 | 27.6 | 53.8 | 26.3 | 28.7 | 55.0 | +0.1 | +1.1 | +1.2 | -5.0 |
| | Others | 8.5 | 9.4 | 17.9 | 9.0 | 11.0 | 20.0 | +0.5 | +1.5 | +2.1 | — |
| | Consolidated | 1,048.2 | 1,156.6 | 2,204.9 | 1,191.2 | 1,208.8 | 2,400.0 | +143.0 | +52.1 | +195.1 | -50.0 |
| | Fibers & Textiles | 35.5 | 36.9 | 72.4 | 41.8 | 33.2 | 75.0 | +6.2 | -3.7 | +2.6 | -6.0 |
| | Performance Chemicals | 35.7 | 35.7 | 71.4 | 35.8 | 33.2 | 69.0 | +0.1 | -2.5 | -2.4 | -10.0 |
| | Carbon Fiber Composite Materials | 10.5 | 10.3 | 20.8 | 6.0 | 4.0 | 10.0 | -4.5 | -6.3 | -10.8 | — |
| Operating | Environment & Engineering | 6.8 | 6.5 | 13.3 | 5.7 | 6.3 | 12.0 | -1.1 | -0.2 | -1.3 | -4.0 |
| Income | Life Science | 1.4 | 0.6 | 1.9 | 0.7 | 0.3 | 1.0 | -0.7 | -0.2 | -0.9 | _ |
| | Others | 0.9 | 2.0 | 2.9 | 0.8 | 2.2 | 3.0 | -0.0 | +0.1 | +0.1 | -1.0 |
| | Adjustment | ▲ 12.7 | ▲ 13.5 | ▲ 26.2 | ▲ 13.1 | ▲ 16.9 | ▲ 30.0 | -0.4 | -3.4 | -3.8 | +1.0 |
| | Consolidated | 78.1 | 78.4 | 156.5 | 77.7 | 62.3 | 140.0 | -0.4 | -16.1 | -16.5 | -20.0 |

*Difference from Previous Forecast: the difference from the forecast announced on November 9, 2018.

Comparison of Operating Income (Previous vs. New) Forecast by Segment

| Segment | Full-year Operating Income Previous Forecast → New Forecast () difference | Variance Factors |
|--|--|---|
| Fibers & Textiles | 81.0 → 75.0 (- 6.0) | Expect overall sales to decrease reflecting global economic downturn, as seen in the economic slowdown in China and Europe. |
| Performance Chemicals | 79.0 → 69.0 (- 10.0) | In the resins business, factored in sales slowdown of ABS resins from the deteriorating market conditions, as seen from the sluggish Chinese market. In the films and electronic & information materials businesses, expect sales of smartphone-related materials to decrease due to the smartphone market slowdown. |
| Carbon Fiber Composite Materials | 10.0 → 10.0 (±0.0) | • Expect to be in line with the previous forecast. |
| Environment & Engineering | 16.0 → 12.0 (- 4.0) | Inventory was written down in the water treatment business and a water-treatment project included in the previous forecast was canceled. |
| Life Science | 1.0 →1.0 (±0.0) | • Expect to be in line with the previous forecast. |
| Others | 4.0 → 3.0 (- 1.0) | Expect earnings to be weak overall including trading companies. |
| Adjustments | ▲31.0 → ▲30.0 (+ 1.0) | |
| Total | 160.0 → 140.0 (- 20.0) | |



III. Reference

Quarterly Net Sales by Segment

| | FY Mar/18 Actual | | | | | FY Mar/19 Actual | | | |
|----------------------------------|---------------------|-------|-------|-------|---------|---------------------|-------|-------|--|
| | 1Q | 2Q | 3Q | 4Q | Total | 1Q | 2Q | 3Q | |
| Fibers & Textiles | 201.1 | 221.7 | 274.8 | 216.0 | 913.6 | 221.0 | 282.1 | 258.0 | |
| Performance Chemicals | 191.2 | 199.5 | 209.0 | 203.6 | 803.3 | 212.4 | 222.5 | 219.9 | |
| Carbon Fiber Composite Materials | 42.7 | 42.1 | 43.4 | 49.7 | 177.9 | 45.7 | 50.7 | 57.8 | |
| Environment & Engineering | 56.9 | 58.4 | 55.7 | 67.4 | 238.3 | 54.9 | 66.5 | 63.2 | |
| Life Science | 12.2 | 14.0 | 13.6 | 14.0 | 53.8 | 12.6 | 13.6 | 13.9 | |
| Others | 4.0 | 4.5 | 4.2 | 5.3 | 17.9 | 4.1 | 4.9 | 4.2 | |
| Total | 508.1 | 540.1 | 600.6 | 556.0 | 2,204.9 | 550.8 | 640.4 | 617.1 | |

Quarterly Operating Income by Segment

| | | | FY Mar/18 Actual | FY Mar/19 Actual | | | | |
|----------------------------------|-------|-------|---------------------|---------------------|--------|-------|-------|-------|
| | 1Q | 2Q | 3Q | 4Q | Total | 1Q | 2Q | 3Q |
| Fibers & Textiles | 17.6 | 17.9 | 23.0 | 13.9 | 72.4 | 18.5 | 23.3 | 18.5 |
| Performance Chemicals | 16.6 | 19.0 | 20.0 | 15.6 | 71.4 | 17.2 | 18.6 | 16.2 |
| Carbon Fiber Composite Materials | 5.7 | 4.8 | 4.6 | 5.7 | 20.8 | 3.1 | 2.9 | 2.4 |
| Environment & Engineering | 4.3 | 2.5 | 2.5 | 3.9 | 13.3 | 1.9 | 3.9 | 2.2 |
| Life Science | 0.8 | 0.5 | 0.6 | ▲ 0.0 | 1.9 | 0.2 | 0.5 | 0.6 |
| Others | 0.2 | 0.6 | 0.8 | 1.2 | 2.9 | 0.2 | 0.6 | 0.9 |
| Adjustment | ▲ 6.4 | ▲ 6.3 | ▲ 6.3 | ▲ 7.2 | ▲ 26.2 | ▲ 7.1 | ▲ 6.0 | ▲ 6.1 |
| Total | 38.9 | 39.2 | 45.3 | 33.1 | 156.5 | 33.9 | 43.8 | 34.7 |



Quarterly Net Sales of Performance Chemicals by Sub-segments

| | | | FY Mar/18 | FY Mar/19 | | | | |
|---------------------------------------|---------|---------|-----------|-----------|---------|---------|---------|---------|
| | 1Q | 2Q | 3Q | 4Q | Total | 1Q | 2Q | 3Q |
| Resins, Chemicals | 86.4 | 87.7 | 91.3 | 95.3 | 360.7 | 97.9 | 97.3 | 96.9 |
| Films | 77.1 | 83.1 | 85.0 | 85.7 | 330.8 | 85.5 | 88.9 | 91.3 |
| Electronic & Information Materials | 14.6 | 16.7 | 17.5 | 15.2 | 64.0 | 14.3 | 18.3 | 16.5 |
| Trading | 116.2 | 118.1 | 124.6 | 124.4 | 483.2 | 135.5 | 137.1 | 135.7 |
| Adjustments | ▲ 103.1 | ▲ 106.1 | ▲ 109.3 | ▲ 116.9 | ▲ 435.5 | ▲ 120.9 | ▲ 119.1 | ▲ 120.5 |
| Total | 191.2 | 199.5 | 209.0 | 203.6 | 803.3 | 212.4 | 222.5 | 219.9 |

Quarterly Net Sales of Carbon Fiber Composite Materials by Sub-segments

| | | | FY Mar/18 | FY Mar/18 | | | | |
|------------|------|------|-----------|-----------|-------|------|------|------|
| | 1Q | 2Q | 3Q 4Q | | Total | 1Q | 2Q | 3Q |
| Aerospace | 20.4 | 19.6 | 20.3 | 21.9 | 82.1 | 19.3 | 22.5 | 26.5 |
| Sports | 3.8 | 3.8 | 4.3 | 3.8 | 15.6 | 4.1 | 3.9 | 5.2 |
| Industrial | 18.6 | 18.7 | 18.8 | 24.1 | 80.2 | 22.3 | 24.3 | 26.2 |
| Total | 42.7 | 42.1 | 43.4 | 49.7 | 177.9 | 45.7 | 50.7 | 57.8 |

Quarterly Net Sales of Major Subsidiaries and Regions

FY Mar/18 FY Mar/19 **10** 2Q 3Q **4Q** Total 10 2Q **3**Q Toray International, Inc. 130.9 136.4 186.4 133.9 587.7 146.3 188.5 183.0 29.9 21.7 27.4 26.3 105.4 24.0 30.6 27.9 Toray Engineering Co., Ltd. Toray Construction Co., Ltd. 8.6 16.4 11.8 17.9 54.7 10.1 12.2 14.9 9.7 Toray Advanced Film Co., Ltd. 10.1 11.0 11.3 9.5 41.9 10.5 10.8 Fibers & Textiles 32.1 33.8 36.1 33.0 135.1 37.9 40.2 Subsidiaries in 39.8 Southeast Asia 26.3 28.4 110.0 29.6 29.1 Performance Chemicals 27.4 27.8 30.4 0.0 0.0 0.0 0.1 0.2 0.1 0.1 0.1 Others 58.5 61.3 64.0 61.5 245.2 67.6 70.6 68.9 Total Subsidiaries in China Fibers & Textiles 65.2 70.7 79.7 57.8 273.5 75.5 82.5 77.4 26.0 25.2 26.5 Performance Chemicals 23.7 26.7 101.6 27.0 27.5 7.7 7.0 8.6 9.7 Others 6.7 8.8 30.2 7.8 95.6 104.5 115.3 90.1 405.4 117.8 113.5 Total 111.1 22.7 25.8 26.0 99.5 25.5 Subsidiaries in Korea Fibers & Textiles 25.1 27.9 26.1 **Performance Chemicals** 31.2 35.3 36.8 36.9 140.3 35.9 40.8 41.4 4.4 4.9 7.0 Others 4.5 4.6 18.4 5.5 6.1 58.4 64.8 67.2 67.8 258.2 68.4 74.1 73.6 Total



Quarterly Operating Income of Major Subsidiaries and Regions

| | | FY Mar/18 | | | | | FY Mar/19 | | |
|-----------------------------------|-----------------------------|-----------|-------|-----|-----|-------|-----------|-----|-----|
| | | 1Q | 2Q | 3Q | 4Q | Total | 1Q | 2Q | 3Q |
| Toray International, Inc. | | 2.3 | 3.3 | 4.5 | 2.2 | 12.3 | 2.6 | 4.3 | 4.4 |
| Toray Engineering Co., Ltd. | | 3.6 | 0.4 | 1.1 | 0.7 | 5.8 | 0.5 | 1.8 | 0.6 |
| Toray Construction Co., | oray Construction Co., Ltd. | | 0.6 | 0.2 | 0.8 | 1.5 | 0.4 | 0.7 | 0.9 |
| Toray Advanced Film Co., Ltd. | | 0.6 | 0.7 | 1.1 | 0.6 | 3.1 | 0.7 | 1.0 | 0.9 |
| Subsidiaries in Southeast Asia | Fibers & Textiles | 2.2 | 2.2 | 2.8 | 2.0 | 9.1 | 2.2 | 2.0 | 2.4 |
| | Performance Chemicals | 2.3 | 3.1 | 3.3 | 3.4 | 12.1 | 3.2 | 2.3 | 1.1 |
| | Others | 0.0 | ▲ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Total | 4.5 | 5.3 | 6.0 | 5.4 | 21.2 | 5.3 | 4.2 | 3.5 |
| Subsidiaries in China | Fibers & Textiles | 6.6 | 6.6 | 6.7 | 3.8 | 23.5 | 7.5 | 7.3 | 6.0 |
| | Performance Chemicals | 0.5 | 0.8 | 0.8 | 1.0 | 3.2 | 0.8 | 1.0 | 0.9 |
| | Others | 0.3 | 0.3 | 0.1 | 0.2 | 0.9 | 0.5 | 0.3 | 0.5 |
| | Total | 7.4 | 7.7 | 7.6 | 5.0 | 27.6 | 8.8 | 8.5 | 7.3 |
| Subsidiaries in Korea | Fibers & Textiles | 0.9 | 0.7 | 0.9 | 0.6 | 3.1 | 1.0 | 0.5 | 0.5 |
| | Performance Chemicals | 3.7 | 5.3 | 5.0 | 3.4 | 17.4 | 3.1 | 5.3 | 5.5 |
| | Others | 0.6 | 0.4 | 0.5 | 0.5 | 2.1 | 0.7 | 0.5 | 0.8 |
| | Total | 5.1 | 6.4 | 6.4 | 4.6 | 22.6 | 4.8 | 6.3 | 6.8 |



Descriptions of predicted business results, projections, and business plans for the Fiscal Year Ending March 2019 contained in this material are based on predictive forecasts of the future business environment made at the present time.

The material in this presentation is not a guarantee of the Company's future business performance.





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