Automotive & Industrial Systems Company Business Policy

May 30, 2018
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Automotive & Industrial Systems Company
Panasonic Corporation

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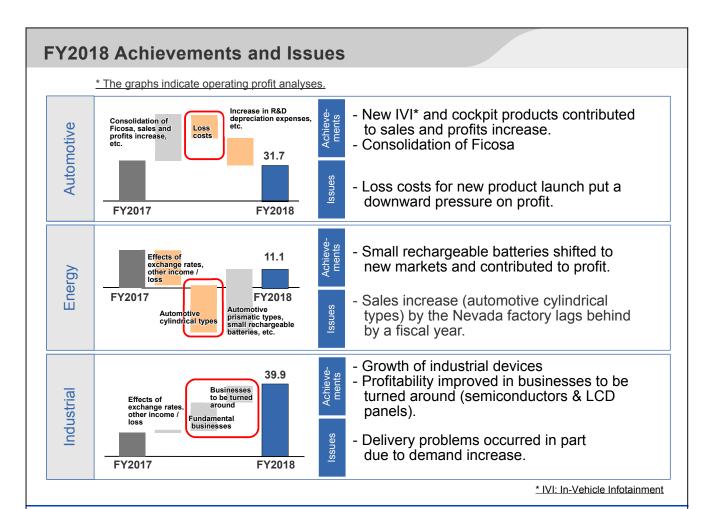
FY2018 Summary

FY2019 Business Policy Mid-term Strategy

FY2018 Results

■ Sales increased whereas profits decreased vs. L/Y. Note that "profit created from businesses," which exclude special factors, increased in all the businesses.

Sales Operating profit (billion yen, % vs. L/Y) (billion yen, % indicates profit rates) 2,803.5 (+16%)Others Offset, etc. Reaction to gains or reversal related to legal affairs and gains on business transfer of the previous fiscal year Effects of exchange Profit created from rates businesses Energy Industrial 93.0 91.4 Energy (3.8%)(3.3%)Other income loss Automotive 2.416.6 Automotive **FY2018** FY2018 FY2017 **FY2018** FY2017 In real terms excluding the effects of exchange rates: -1.6 (Excluding effects of exchange rates) +13% 2/20 **Panasonic** Automotive & Industrial Systems Company Business Policy



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Growth Strategies

- Started the public road demonstration experiment of autonomous driving cars.
- Showcased the concept of the Living Space Autonomous Cabin.
- Ficosa's Morocco factory opened.
- Capital tie-up with AZAPA Co., Ltd. (model base development)







Energy

- The Nevada factory started mass production for Tesla.
- The Dalian factory started the mass production of automotive prismatic type batteries.
- Decided to expand automotive prismatic type batteries to the Himeji factory.
- Started examining collaboration with Toyota Motor Corporation on automotive prismatic type batteries.

Automotive batteries (Prismatic type)





- Panasonic Industrial Devices SUNX became a wholly owned subsidiary.
- Motor factory expansion (Zhuhai in China and Kaga in Ishikawa Prefecture, Japan).
- Production increase in high-function multi-layer circuit board materials (new Guangzhou factory).

Pressure sensor





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FY2018 Summary

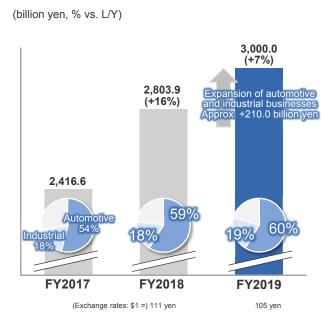
FY2019 Business Policy

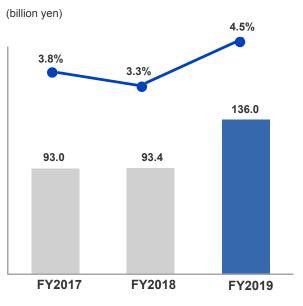
Mid-term Strategy

FY2019 Basic Policy

- The year to start reaping the benefits of large-scale investments and show results.
- Focus on "the automotive and industrial" markets and lead Panasonic by a sales and profit increase.

Sales/Ratio of automotive and industrial businesses Operating profit/rates





* Restated the results of FY2018 based on the new structure.

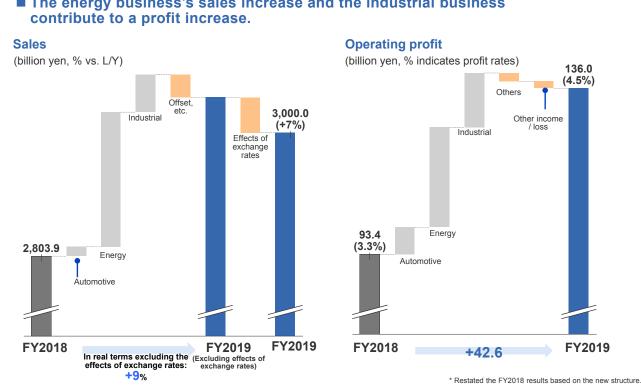
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FY2019 Management Targets

- The three business groups all achieve sales and profits increase (excluding the effects of exchange rates).
- The energy business's sales increase and the industrial business



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Business Portfolio

Highgrowth business (6BD)

Playing roles in the company with sales and earnings growth potential, concentrating resources mainly in automotive and industrial fields

Automotive Infotainment Systems, **Automotive** Automotive Electronics Systems, Ficosa International

Energy Tesla Energy, Automotive Energy

Industrial **Electromechanical Control**

Stablegrowth business (4BD)

Steady profit generation by competitive or high-share products, and creating investment resource for high-growth business

Energy Energy Device, Energy Solutions

Device Solutions, Electronic Materials Industrial

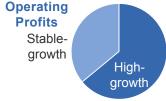
Low-profitable business (2BD)

Improving profitability by thorough initiatives including business transformation and concentration in automotive and industrial fields

Panasonic Semiconductor Solutions, Industrial Panasonic Liquid Crystal Display

Composition ratio by business portfolio (FY2019)





*excluding Low-profitable business and the sales of other company's products

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Strategies by Business Group

Pie charts: Sales-based ratios

- Four key categories (IVI, cockpits, ADAS*, and electric mechanisms) fully contribute to a sales increase.
- Continue R&D investments for new themes (next-generation cockpits, etc.)

Automotive





*ADAS: Advanced Driver Assistance System

- Accelerate the shift to automotive and industrial fields.
- Launch full-scale operations for factories with large-scale investments (Nevada, Dalian) contributing to an increased profit.

Energy





Continue to expand sales and profits by further increasing the ratio of automotive and industrial businesses.

Steadily improve profitability at "businesses to be turned around" (semiconductors & LCD panels) toward turning them into the black in FY2020.

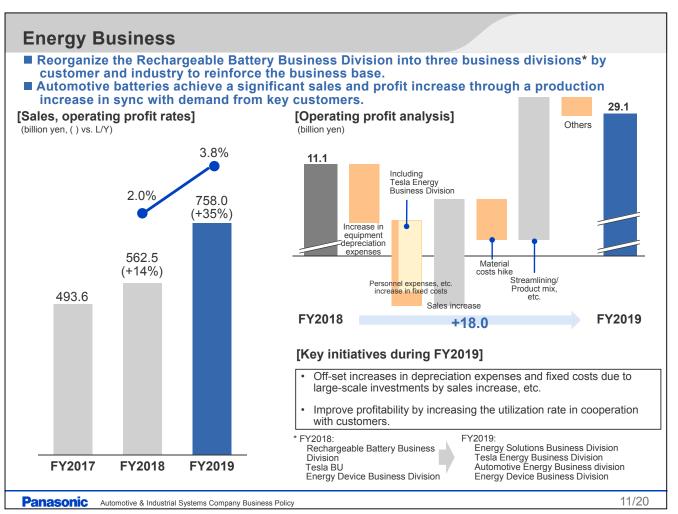
Industrial

Automotive FY2019 FY2017



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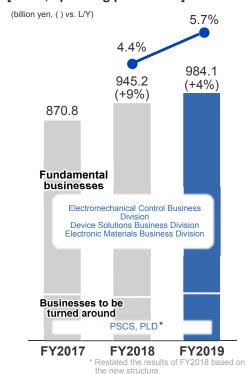
Automotive Business ■ Fully expand the four key categories (IVI, cockpit systems, ADAS*, and electric mechanisms). ■ Achieve sales increases through new product releases in collaboration with Ficosa (electronic mirrors, communication units, etc.). [Operating profit analysis] [Sales, operating profit rates] (billion yen, () vs. L/Y) (billion ven) 4.7% 43.4 3.4% Excluding effects Others 31.7 of exchange rates (+2%)Decrease in loss 928.8 922.7 costs, etc. (+38%)(-1%)Sales increase/ Sales price declines Increase in R&D depreciation 671.6 expenses, etc. Streamlining/ Product mix FY2018 FY2019 +11.7 [Key initiatives during FY2019] The car model expansion of IVI and cockpits contributes to a sales increase. Reap the Ficosa synergy effects (R&D, manufacturing, procurement). 4 categories Sales ratio FY2017 FY2018 FY2019 10/20 **Panasonic** Automotive & Industrial Systems Company Business Policy



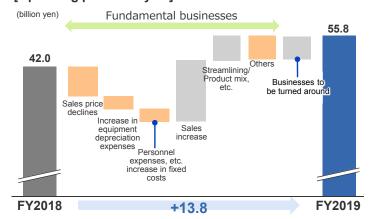
Industrial Business

- Fundamental businesses: Increase profits through systematization/modularization and devices with dominant market shares.
- Businesses to be turned around: Improve marginal profit by enhancing the business structure.

[Sales, operating profit rates]



[Operating profit analysis]



[Key initiatives during FY2019]

- Expand the sales increase of industrial devices adapted for automation needs.
- Increase the sales of automotive devices (EV relays, passive components, etc.).
- Reduce the deficit of semiconductors and LCD panels with the prospect of turning them into the black in FY2020.
 - * PSCS: Panasonic Semiconductor Solutions Co., Ltd. PLD: Panasonic Liquid Crystal Display Co., Ltd.

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AIS Company Capital Investment Strategy

- Continue to invest aggressively with a focus on automotive batteries through close collaboration with customers.
- Gradually make large-scale investments while assessing the demand, on the basis of risk minimization.

[Capital investments, equipment depreciation expenses] (Tangible assets only)

Automotive battery investment

 Nevada: Operation launch of additional equipment in line with an increase in vehicle production

 Himeji: Preparations for the start of mass production during FY2020

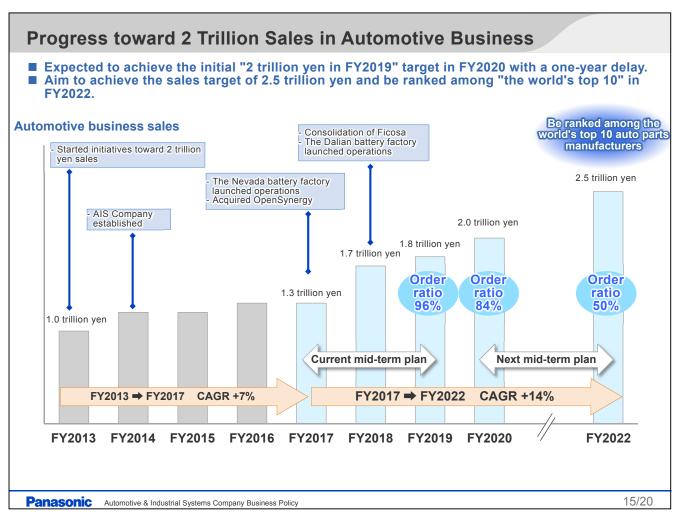
 Dalian: Increase production capacity based on customers' production plans.



* Restated the results of FY2018 based on the new structure.

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FY2018 Summary FY2019 Business Policy Mid-term Strategy



Mid-term Growth Scenario: Automotive Business ■ Contribute to the evolution of cars through the four key categories "IVI, cockpits, ADAS, and electric mechanisms.' ■ Take up challenges for new service businesses in a mobility society. Achieve profit growth by focusing on the four key categories. [Sales growth/operating profit rates *] *Size of circle: sales scale (billion yen, %) - Increase the market share through the integrated systems of "IVI + cockpits. FY2022 Cockpit systems Operating profit rate: - Expand businesses by building a track record of receiving orders 5% and mass production of low-speed ADAS and electric mechanisms. 922.7 billion yen 4.7% FY2019 ADAS/Autonomous parking Automotive battery charge 928.8 Take up challenges for new service businesses. billion yen 3.4% Contribute to mobility services linked to hardware. FY2018 Expand areas where we make contributions to transporting people/objects

Integrated cockpits

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Sales index (FY2018: 100)

100

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EV/electric

mechanisms

ADAS/Autonomous

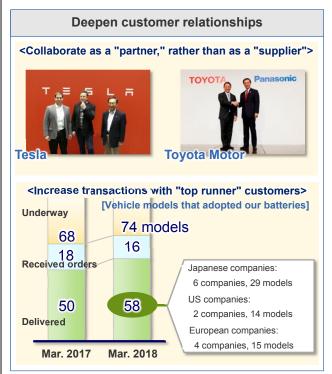
driving

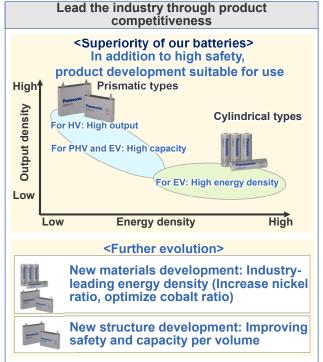
Mid-term Growth Scenario: Energy Business ■ Reinforce "manufacturing" and contribute to the proliferation of electric vehicles. ■ Take up challenges of "using" to create new demand. Reinforce "manufacturing" [Sales growth/operating profit rates*] (billion yen, %) *Size of circle: sales scale - Respond to the dynamic automotive battery demand while ensuring a reliable investment recovery. - Himeji: Start mass production during FY2020 and expand thereafter. (prismatic types) Operating profit rates FY2022 Nevada: Toward more than 35 GWh/year (cylindrical types) Dalian: Increase production lines by customer. (prismatic types) 5% 758 billion yen Take up challenges of "using" 3.8% - Make new contributions in the information infrastructure area (power storage systems). 562.5 FY2019 billion yen - Build new ecosystems with partners (sharing services, etc.). 2.0% FY2018 Base station power supply, remote monitoring service Create new battery demand 200 100 Data center backup power Battery sharing Sales index (FY2018: 100) supplies

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Mid-term Growth Scenario: Energy Business (Automotive Batteries)

- Deepen partnership with "top runner" customers.
- Further evolving "the world's No. 1 batteries" (cylindrical and prismatic types)



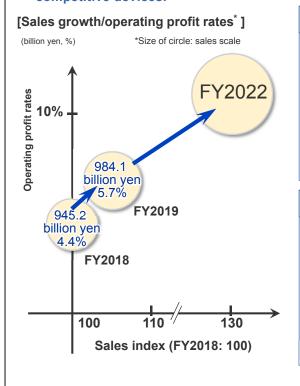


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Mid-term Growth Scenario: Industrial Business

- Achieve stable growth by concentrating on "labor saving," "information communication
- infrastructure," and "automotive electric systems," whose demands are strong in the society.

 Pursue high profitability through "modularization" and "runaway high market share" based on competitive devices.



- Increase customer value through core components that support automation.

Labor-saving factory

Industrial devices

Information communication infrastructure

- Expanding for base stations and data centers, by using unique technologies as advantages.
- Multi-layer circuit board materials Conductive

capacitors

Automotive (Electric mechanisms, autonomous driving)

- Increase automotive modules with competitive devices at the core.
- Highly reliable technologies that customers continue to



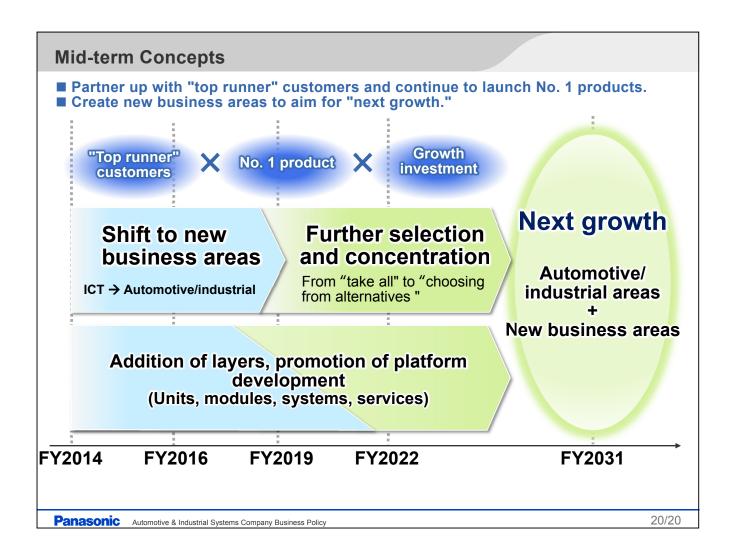


Automotive power control units

Inductors

(EV relays + current sensors + battery monitor ICs)

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(Reference) Details of each business whose sales are disclosed Businesses whose sales are disclosed **Major products**

Automotive Infotainment Systems **Business Division**

IVI, cockpit systems, car navigation systems, car AV systems, car speakers, etc.

Automotive

Automotive Electronics Systems Business Division



- On board charging systems, camera modules, back & corner sensors, etc.
- Ficosa International, S.A.



- Automotive mirrors, shifter systems, communication
- **Energy Device Business Division**



modules, etc. Dry batteries, nickel metal-hydride rechargeable batteries, micro batteries, etc.



Energy Solutions Business Division



- Small lithium ion batteries, battery modules for storage, power storage systems, etc.
- Tesla Energy Business Division



- Automotive/power storage cylindrical type lithium ion batteries, etc.
- Automotive Energy Business Division



Automotive prismatic-type lithium ion batteries, automotive nickel metal-hydride rechargeable batteries, etc.

Electromechanical Control Business Division



Relays, connectors, switches, automotive power supplies, motors, FA sensors, etc.

Device Solutions Business Division



Conductive polymer capacitors, resistors, inductors, inertial sensors, etc.

Industrial

Electronic Materials Business Division



Electronic circuit board materials, plastic molding compounds, encapsulation materials, advanced films,

Panasonic Semiconductor Solutions Co., Ltd.



- IC/LSI, image sensors, compound semiconductors, lead frames, etc.
- Panasonic Liquid Crystal Display Co., Ltd.



IPS liquid crystal display panel

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