Financial Results Presentation Fiscal Year ended March 2018



Sanken Electric Co., Ltd.

May 8, 2018





Part I Financial Results

- Financial Results FY March 2018
- Guidance for FY March 2019

Part II New Midterm Management Plan

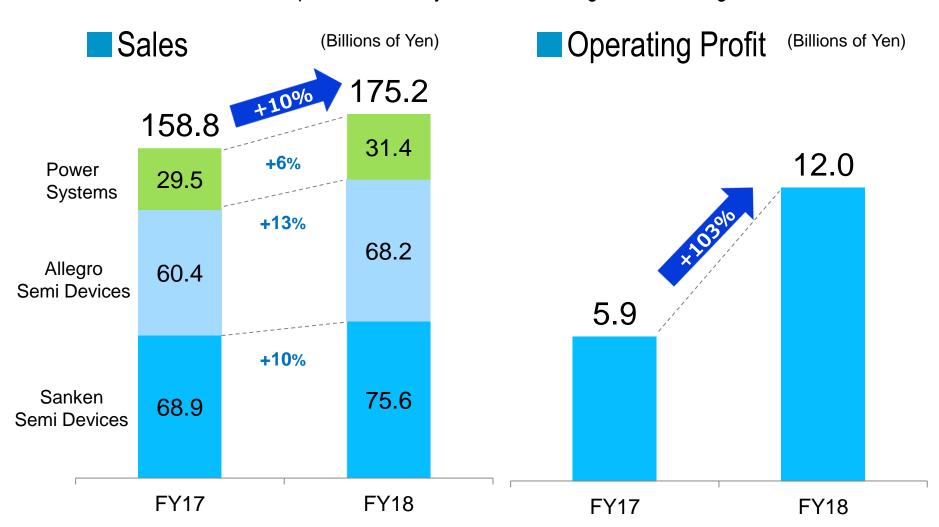
- Midterm Management Plan
- Semi Devices Business Strategy
 Power Systems Business Strategy



Summary of Results in FY March 2018



Achieved increase in sales and profit boosted by Sanken's white goods and Allegro's auto businesses



Exchange rate (Yen/US\$): FY 17 108.39 FY 18 110.86



Consolidated Results: FY March 2018



(Billions of Yen)

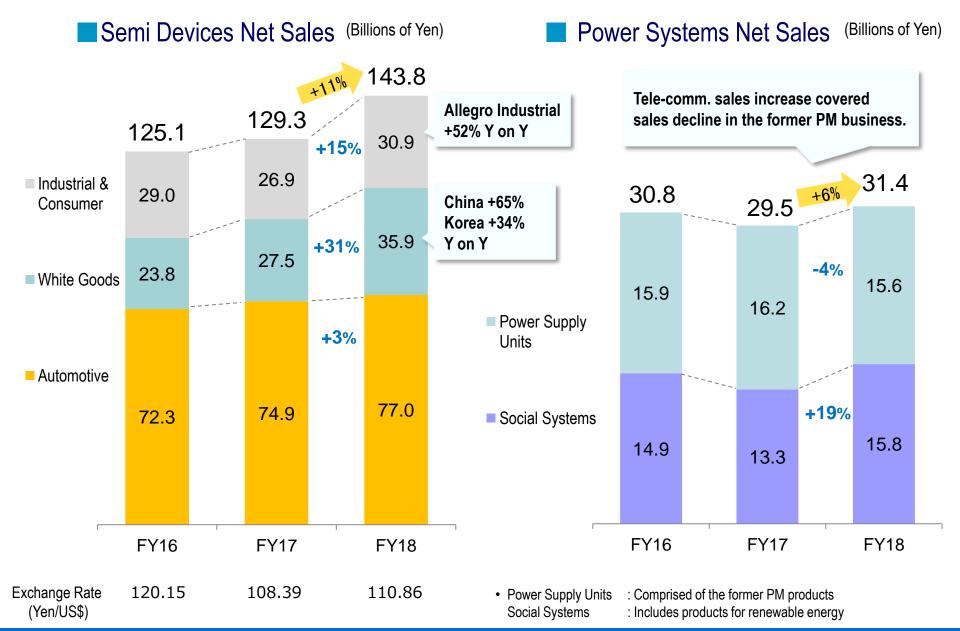
		FY17	FY18			Y on Y Changes	Guidance issued	Achieved
		Full Year	1H	2H	Full Year	(%)	Oct 2017	(%)
Sales		158.8	86.0	89.2	175.2	+10.3	173.0	101.2
	Semi. Devices	129.3	71.7	72.1	143.8	+11.2	144.3	99.6
	Power Systems	29.5	14.3	17.1	31.4	+6.4	28.7	109.4
Operating Profit		5.9	5.5	6.5	12.0	+103.3	10.0	120.0
	Ordinary Profit	5.0	5.7	6.1	11.8	+136.0	9.0	131.1
Extraordinary Income and losses		-0.4	-16.5	-1.8	-18.3	_	-17.8	-
NI attributable to controlling shareholder		1.7	-13.1	1.7	-11.4	_	-13.7	-

^{• &}quot;Y on Y Changes" are derived from the figures presented here expressed in billions of yen.



Consolidated Net Sales by Market





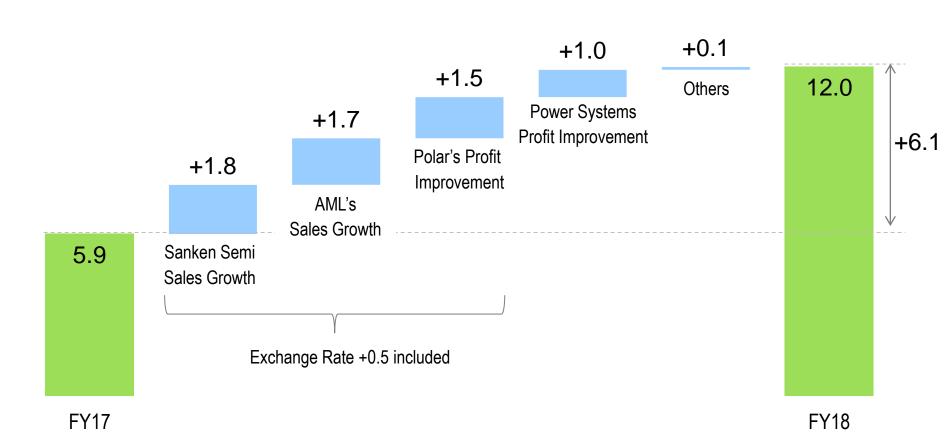


Factors of Change in Operating Profit





(Billions of Yen)



Achieved a substantial profit growth driven by increased sales and JPY1.8 billion restructuring gains.

• AML: Allegro MicroSystems, LLC.



Extraordinary Losses FY March 2018



(Billions of Yen)

	Initiatives	Actions	Amount		
IIIIIIauves		Actions	1H	2H	Full Year
	Discontinue PM business	Dispose inventoryDownsize SKI	8.3	0.1	8.4
Started in the	Terminate unprofitable semi-products	Dispose inventory	6.6	1.7	8.3
current FY18	Special early separation program	 Head count reduction of 131 at Sanken HQ 	1.7	-	1.7
	Sub-total		16.5	1.9	18.4
Started in FY17	Reduce other fixed costs	Record SPS liquidation lossTake on KSK restructuring costs	0.4 0.2	-	0.6
	Total			1.9	19.0

Inventory disposal in 2H

Semi Devices: Resulting from more focused reviews on strategic market

PM : Resulting from re-inspection in overseas sales subsidiaries

• SKI: P.T. Sanken Indonesia

SPS: Sanken Power Systems (UK)

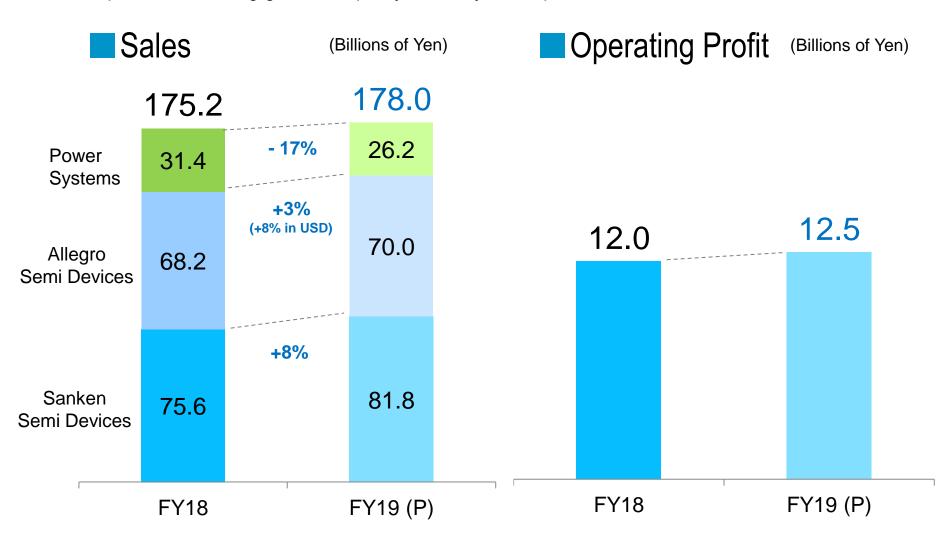
KSK: Korea Sanken



Guidance for FY March 2019



Expect restructuring gains, but partly offset by wafer price hike and forex fluctuation



• Exchange rate (Yen/US\$): FY18 110.86 FY19 105.00



Guidance for FY March 2019



(Billions of Yen)

	FY18 Actual			FY19 Projection			Y on Y Changes		
		1H	2H	Full Year	1H	2H	Full Year	Amount	%
	Sales	86.0	89.2	175.2	87.2	90.8	178.0	+2.8	+1.5
	Semi. Devices	71.7	72.1	143.8	75.8	76.0	151.8	+8.0	+5.5
	Power Systems	14.3	17.1	31.4	11.4	14.8	26.2	-5.2	-16.5
C	perating Profit	5.5	6.5	12.0	5.2	7.3	12.5	+0.5	+4.1
(Ordinary Profit	5.7	6.1	11.8	4.4	6.6	11.0	-0.8	-6.7
COI	NI attributable to ntrolling shareholder	-13.1	1.7	-11.4	1.5	3.3	4.8	+16.2	-

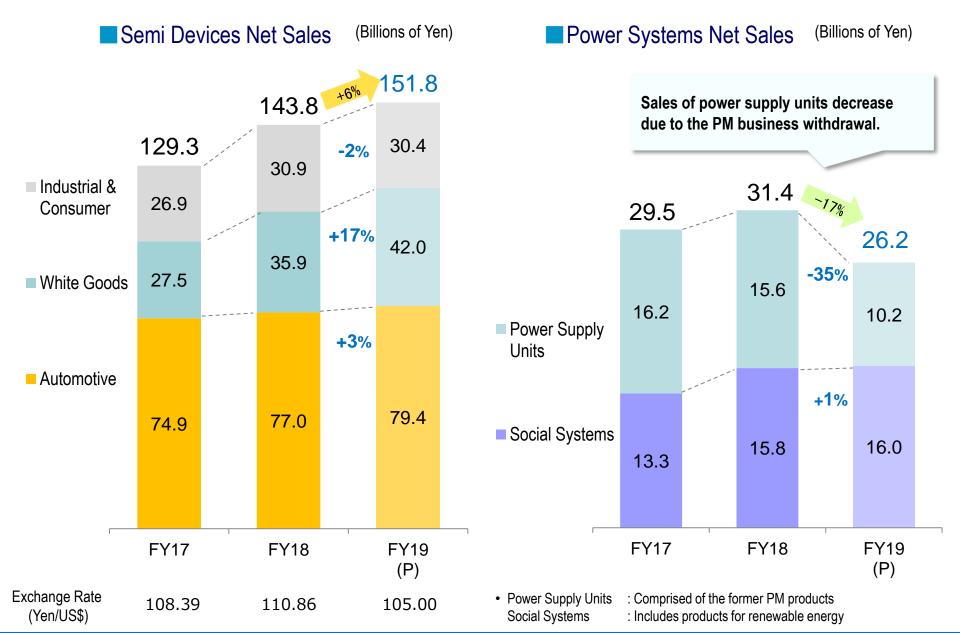
[•] Exchange rate : 105 Yen/US\$

^{• &}quot;Y on Y changes" are derived from the figures presented here expressed in billions of yen.



Guidance for Consolidated Net Sales by Market

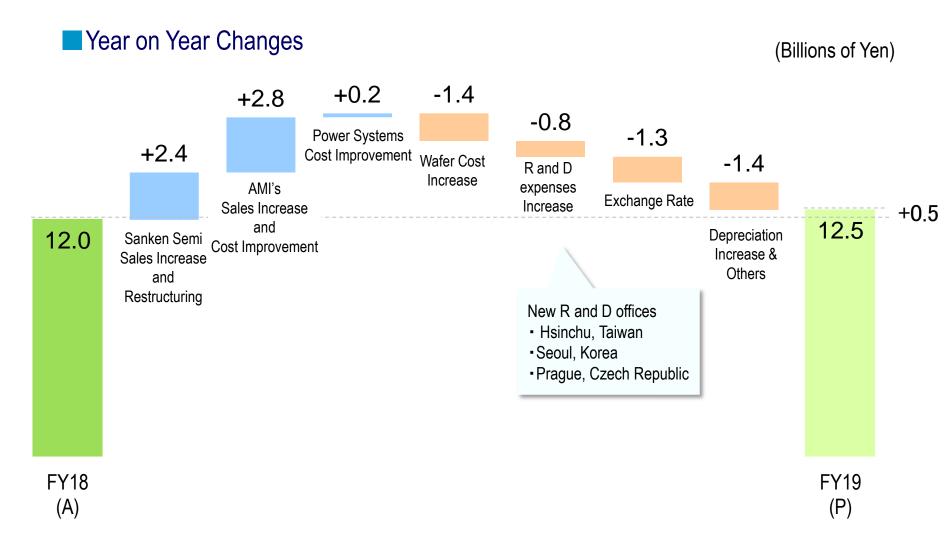






Factors of Change in FY19 Operating Profit





Restructuring gains at HQ, plus Sanken and AMI's sales and profit growth cover cost increase of wafers, R and D etc.

• AMI: Allegro MicroSystems, Inc. (the former "SKN")



Updates on Expected Gains from Restructuring

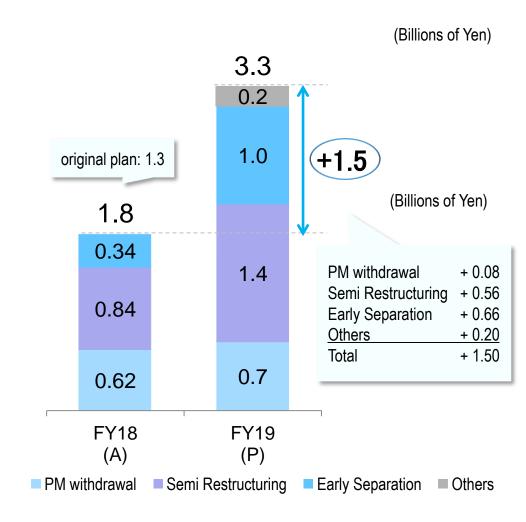


Projected restructuring gains in FY19 compared with FY17, the base year

(Billions of Yen)

Actions	Impact
Withdrawal from PM business	0.7
Restructuring in Semi Devices	1.4
Special early separation program	1.0
Other fixed costs reduction	0.2
Total	3.3

Yearly effect in FY19 compared with FY17

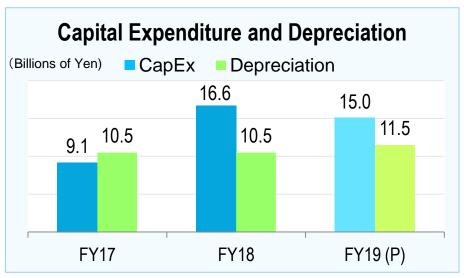


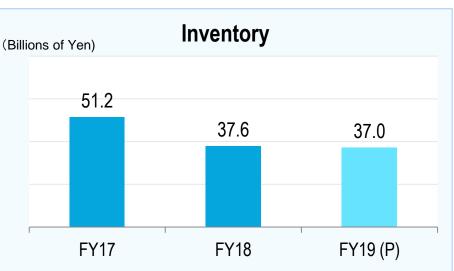
Full-year restructuring gains for FY19 are expected to be JPY1.5 billion Y on Y.

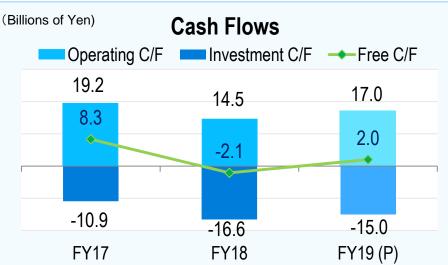


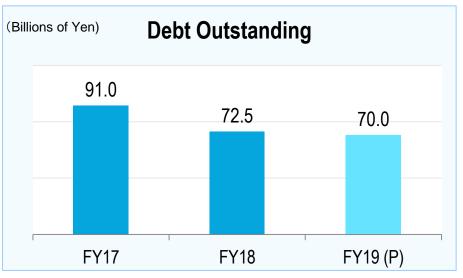
FY19 Consolidated Financial Targets











- Continue capital investment mainly in AMI for FY19.
- Keep the total inventory level stable, despite an increase at AMI.

Midterm Management Plan 2018



Business Review from FY16 to FY18



Automotive

- Stricter regulations for fuel efficiency, exhaust emission, and safety
- Greater momentum to shift to EV
- ◆AMI's favorable performances continued

White Goods

- Huge expansion of inverter driven air conditioners after inventory adjustment in China
- ◆ Overseas market saw significant sales growth

Industrial

- Growth of machine tools, manufacturing equipment, and servers etc.
- ◆AMI expanded power IC sales

Power Supply

- Tele-comm. market rebounded
- Sluggish renewable energy market
- ◆ Larger power supply equipment recorded flat sales

Restructuring

- Withdrawal from non-strategic market and improved financial conditions
- ◆Growth strategy was started



Business Review from FY16 to FY18



FY18	Target	Actual	
Sales	JPY 200.0 billion	JPY 175.2 billion	
OP Margin	10%	7%	

Technology Development	Slow growth of OP margin, due to i) delays in launch of high value-added new products for strategic focus markets and ii) cost improvement of existing products
Production	Unable to fill all the demands for IPMs for white goods due to "mismatched" fabrication process outs of various dies
Inventory	Inventory level remained flat, excluding the impact of inventory disposal from restructuring
Automotive market	Slow start of sales growth for Sanken Japan's auto products for ADAS and electrification
Renewable Energy Market	Delayed sales growth in Power Systems due to the current sluggish renewable-energy market

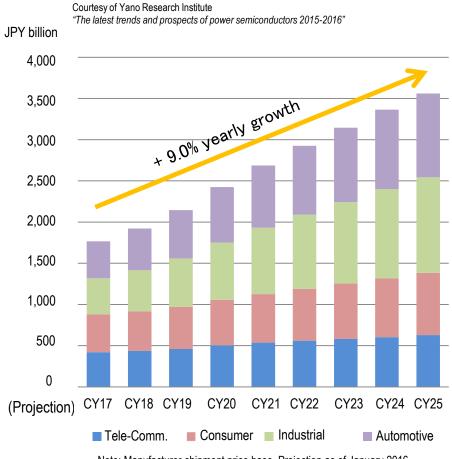
Executed Restructuring in FY18 and Will Work on Growth Strategy



Market Growth Assumptions



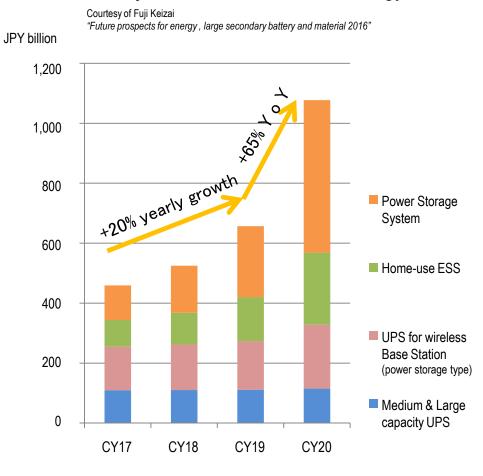
Growth Projections for Power IC Market



Note: Manufacturer shipment price base, Projection as of January 2016

- Industrial and auto markets lead the demand growth
- Steady growth in consumer market led by white goods

Growth Projections for Renewable Energy Market



- Expanded use for energy storage systems
 - ♦ Increased demand for solar power in ASEAN nations
 - ♦ Rapid growth in Japan prompted by VPP

· VPP: Virtual Power Plant



Long-term Corporate Objective



To become a highly profitable company through unique set of technologies, and energized output from people and organizations

Business Areas

Power IC (including Sensors)

Power Electronics

Power Management

In 10 years: Sales of JPY 330 billion, OP margin of 15% or more

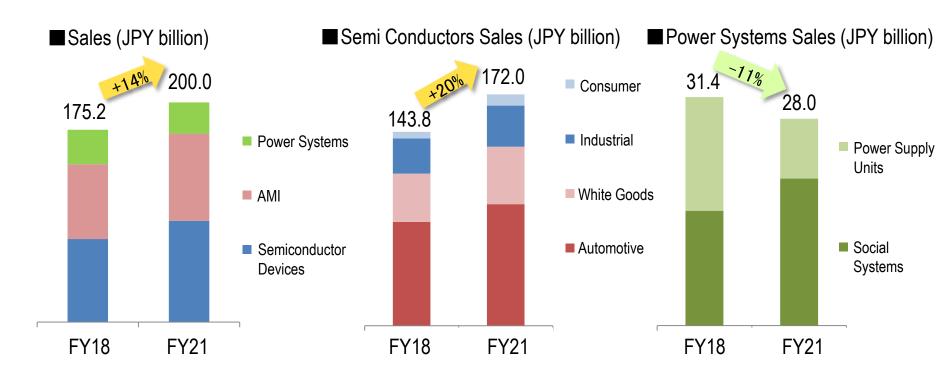


New Midterm Management Plan from FY19



Targets for FY March 21

Sales	JPY 200 billion	
OP Margin	10%	

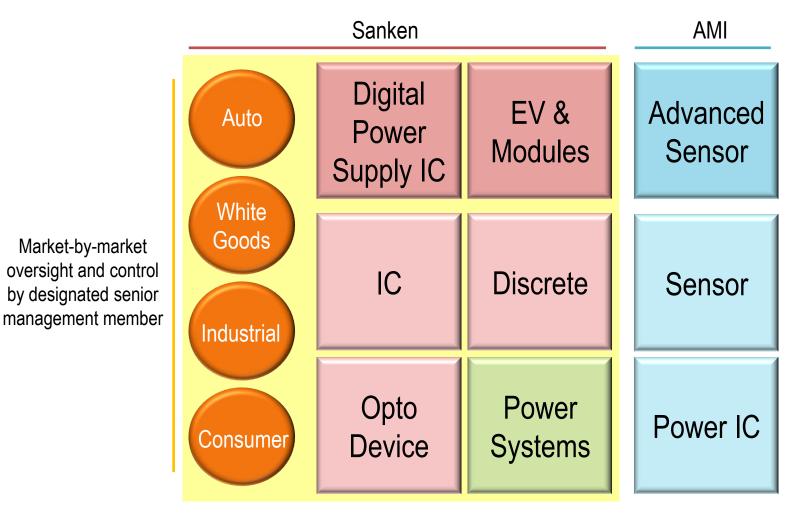




Execution of Growth Strategy



- Focus on growth drivers such as digital power supply IC, EV & modules, and advanced sensors
- Clarify management system by business and market for Sanken



Sanken Electric Co., Ltd.



AMI Accelerate Its Growth Strategy



Automotive

XEV's : Electric motor, power management

■ ADAS : EPS, power management, electric motor

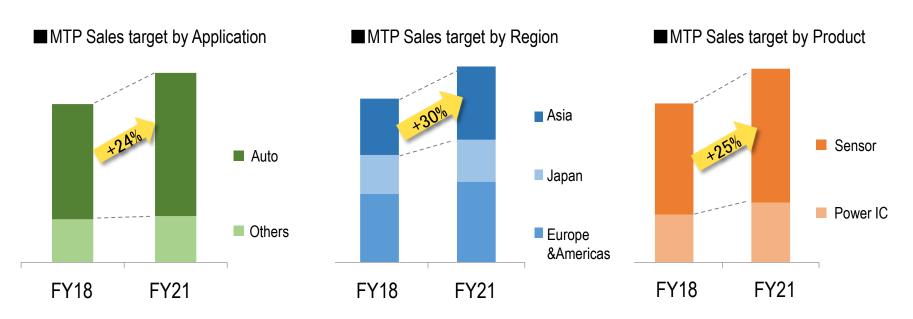
■ IC vehicle : Transmission, camshaft, ABS

Industrial, Consumer

Server : Fan motor

Product

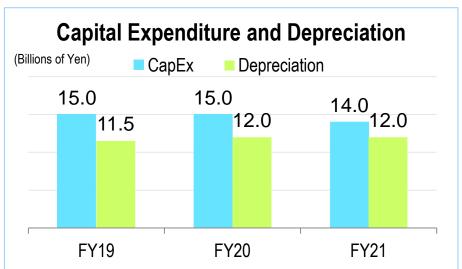
■ Speed sensor, current sensor, linear sensor, BLDC motor driver IC

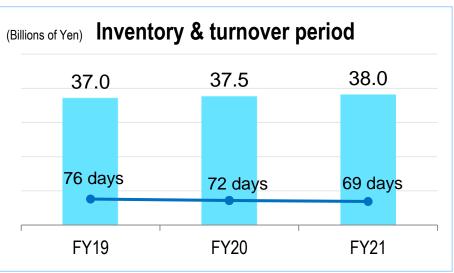


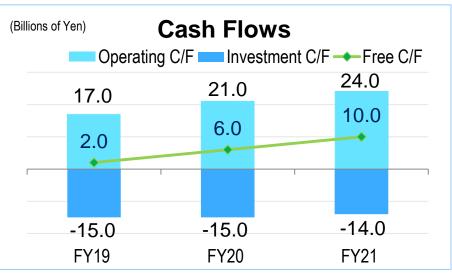


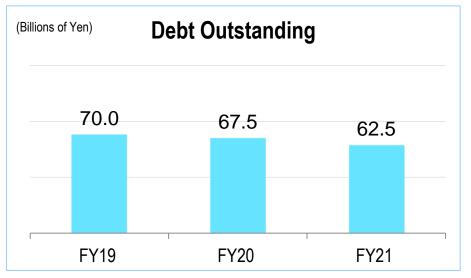
Building Stronger Financial Position FY19 to FY21











CapEx

Sanken: Capacity expansion for new and existing products, better and efficient equipment, factory automation

AMI : Relocation of AMI's development organizations, expansion of assembly and test, 8" productivity improvement



Tighter Control of Inventory



Management

SCM Management : Reformulate supply chain from procurement, production through inventory to align with

long-term strategy

: Start to evaluate divisions by turnover period, benchmarking industry's leading companies

Technology Development

Technology Development

: Establish the concept of "SPP", for standardized and unified design process

Sales

EOL Control

: Take better control of EOL actions with customers and trading companies

Production Plan

Production Organization

: Stick to production based on PO's and maximize the use of "die-bank" operation : New organization to integrate production planning and procurement operations

Manufacturing

Production Innovation

: Intensify efforts to shorten production cycle time

IT System

Infrastructure: Maximize the use of advantages of ERP system

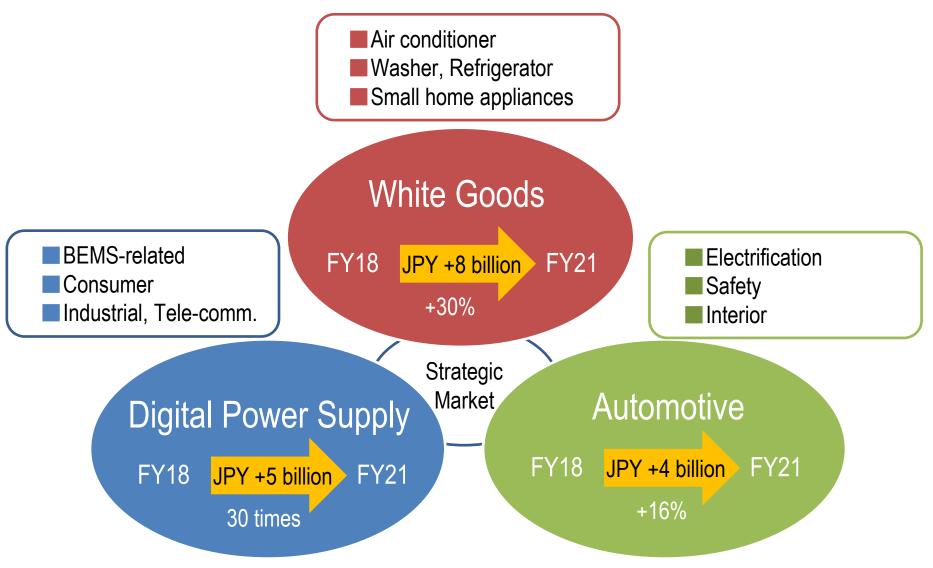
*SPP · Sanken Power-electronics Platform

Semi Devices Business Strategy



Strategic Market for Sanken Semi Business





^{*} BEMS: Building Energy Management System



White Goods: IPM Business



Others

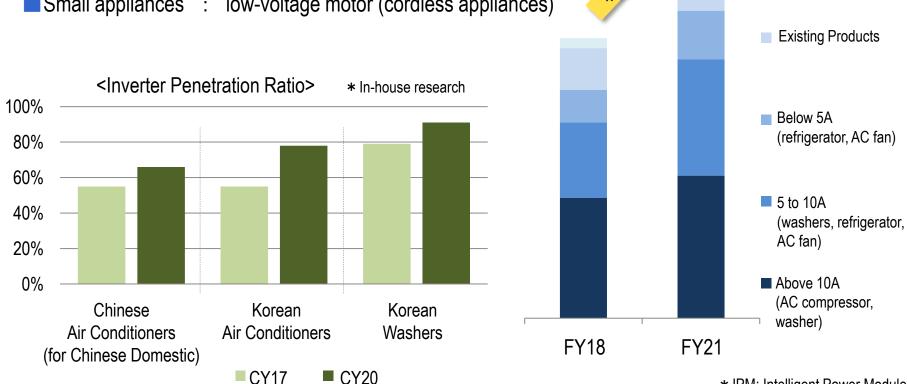
Respond to accelerated penetration of inverter-driven or DC motor installed appliances: IPM sales in 3 years to increase by 30%

Air Conditioner compressor & fan motor

Washer main motor

Refrigerator compressor motor

low-voltage motor (cordless appliances) Small appliances:





Automotive: Modules, Bare Die, LED



Electrification, Safety, High Efficiency: Sales increase by JPY 4 billion in 3 years Now focusing on new products to be released in FY22 or later

<Major New Products>

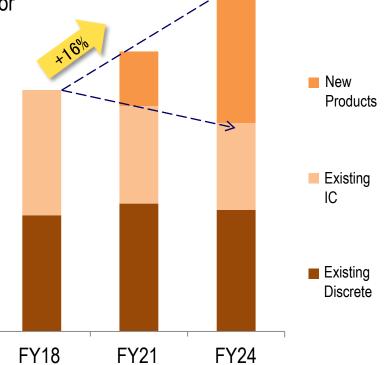
■ Electrification : Module products for auxiliary motors and battery

Safety Related : Sales growth of bare die and surface mount products for EPS

Improve Efficiency : High efficiency diodes for alternator

Car Interior : Chip LED for interior applications





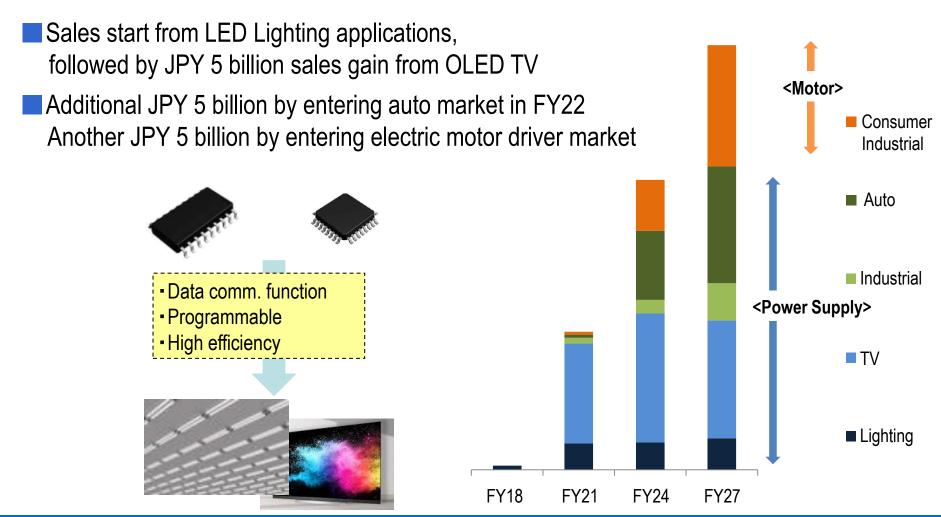


Digital Power Supply IC





Sales boosted by JPY 5 billion in 3 years





Expand R&D Base to Strengthen Development



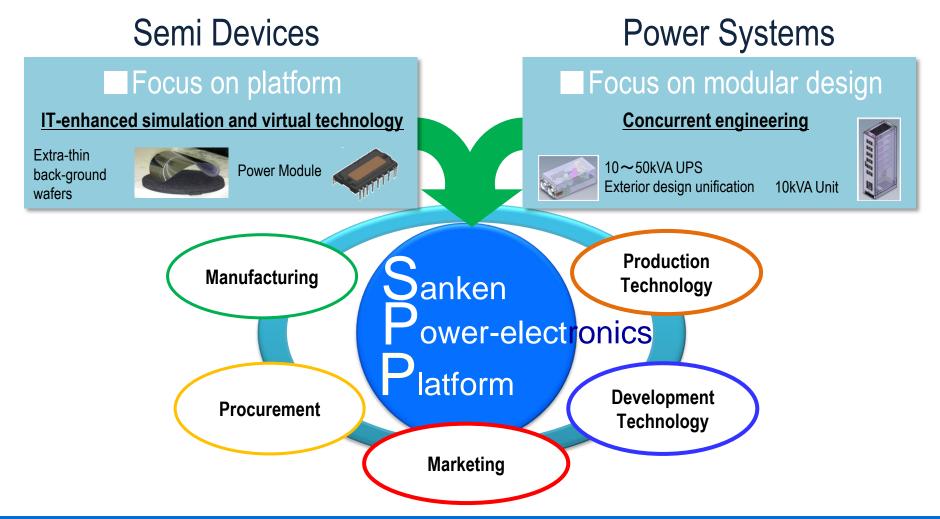




Sanken Power-electronics Platform (SPP)



Reforms in design and operational processes by use of common development concept

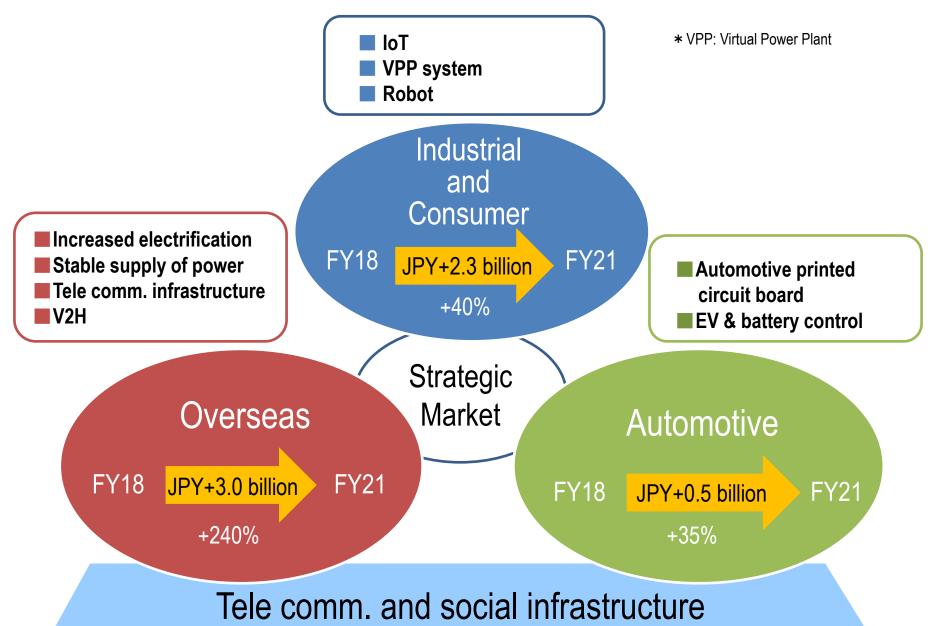


Power Systems Business Strategy



Power Systems: Focus on Growth Market







Power Systems: Industrial & Consumer





Sales growth by JPY 2.3 billion in 3 years

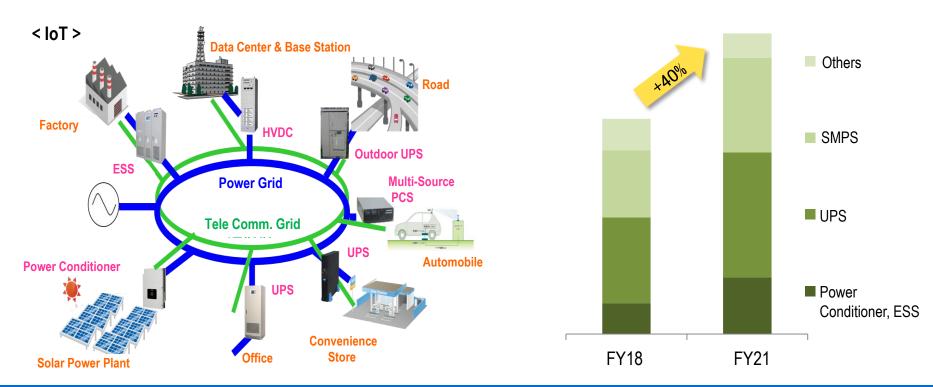
■ IoT : With wider use of decentralized, smaller power supply units, resources are mobilized to sell more of

all-weather outdoor UPS

■ VPP : Provide ESS for liberalized electricity market

■ Industrial: Marketing efforts to sell more of compact and highly efficient SMPS to industrial market such as robots

■ Services: Expansion of services such as periodic maintenance and constant monitoring of equipment sold





Power Systems: Overseas Expansion



Europe &

Others

Overseas expansion: Sales increase by JPY 3.5 billion in 3 years

■ ASEAN : Satisfy needs of increased electrification & stable supply of electric power

Sales expansion for telecommunication infrastructure

China : VVVF inverter sales growth in China to meet stricter environmental regulations

Europe : Expansion of V2H integrated energy storage system jointly executed with

partner companies

Automotive : Expand automotive printed circuit board business in ASEAN region







Forming alliances with Indonesian companies to sell PCS, ESS and UPS





Power Systems: Toward Further Growth



- Differentiated technology : Flywheel energy storage system
 - 1. Long product life even in hot and humid environments
- 2. Unlimited number of charge and discharge

■ Train station platform door

Real-world test at

JR Urawa station in FY18

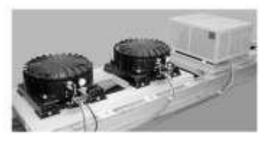


■ Wind-power generation

Power stabilization system for wind power generation in remote islands







Expected Life: 20 years or more (battery life: usually 4 to 5 years)

Synergy with Semi Devices technology: expansion of automotive opportunities



Power Systems:
Circuit / Control
Technology

AUTO market

Semi Devices:

Module Technology



- Insulated Bi-Directional DC / DC Converter for V2H
- ◆Miniaturization and weight saving for DC / DC Converter
- ◆Inverter module for large capacity motor
- ◆Wireless power supply

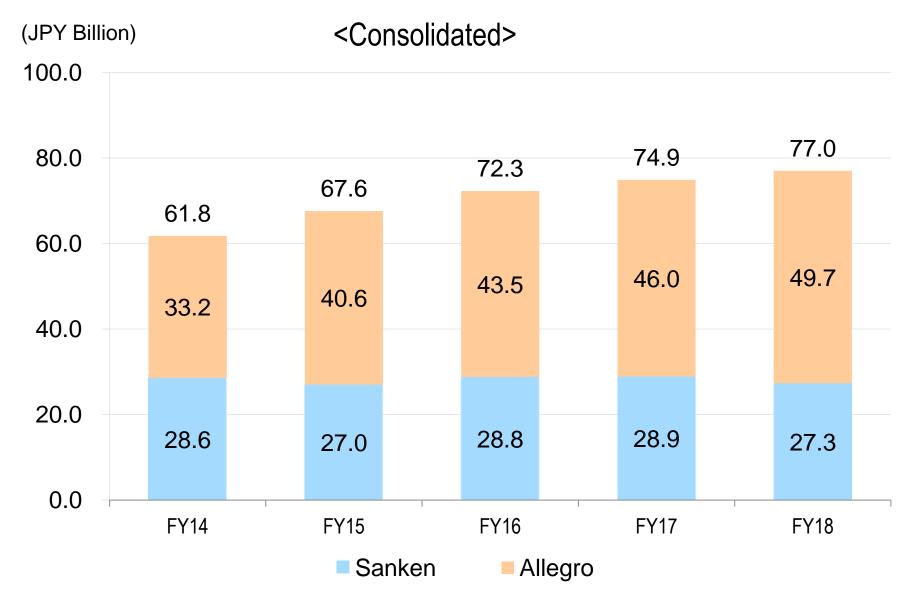
■ Insulated Bi-directional DC / DC Module for EV and HEV





Sales of Automotive Products

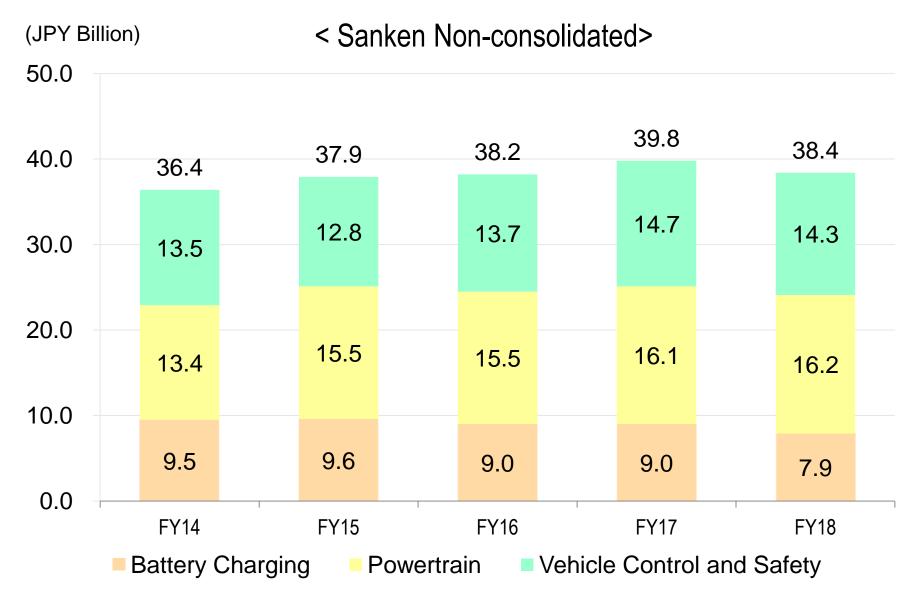






Sales of Automotive Products by application

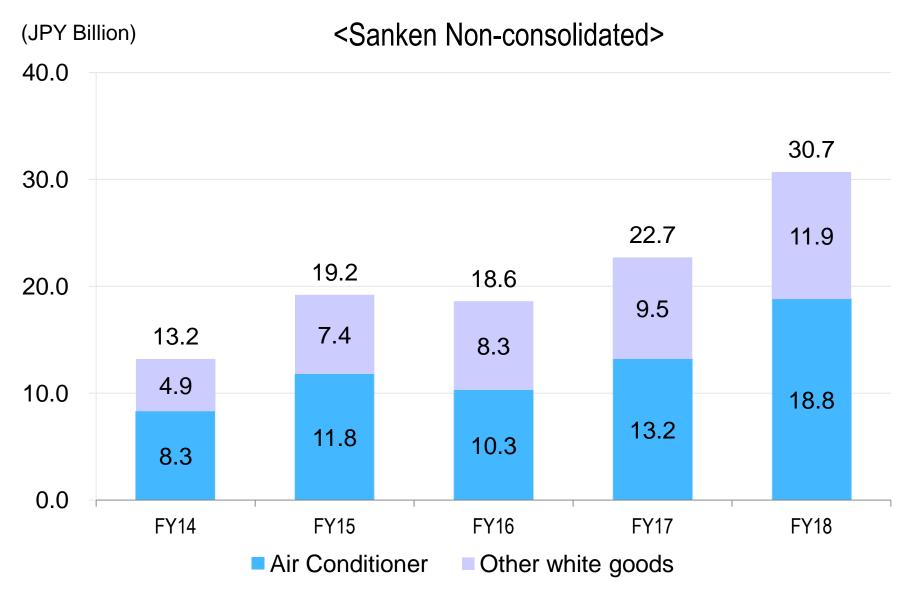






Sales for White Goods

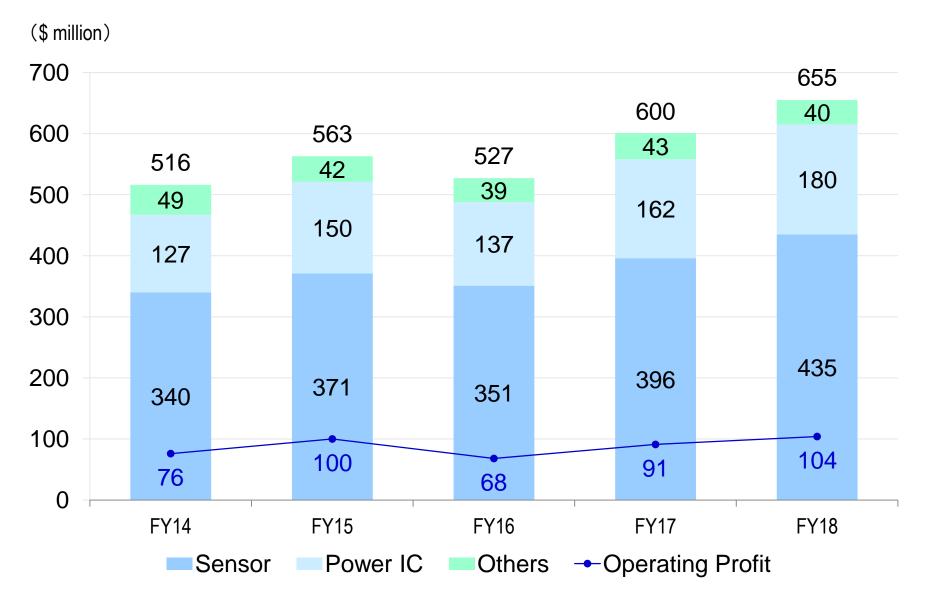






Performance of Allegro MicroSystems, LLC





Notice on Forward-looking Statement

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