

FY2015 Results (from April 1, 2015 to March 31, 2016)

April 28, 2016



This is a translation of materials used for the analyst meeting held in Tokyo, Japan on April 28, 2016

This document contains forward-looking statements that are based on management's expectations, estimates, projection and assumptions that were available and reasonable at the time of release. Actual future results and trends may differ materially from those in the forecasts due to a variety of factors.

<u>Agenda</u>

Summary of financial results for FY2015

(Ended March 31, 2016)

Forecast for FY2016

(End in March 31, 2017)

Segment Information

Capital Expenditure & Depreciation Cost

Mid-term Plan / Ratio of new products to total sales

New products / R&D

Priority Tasks

Financial Condition

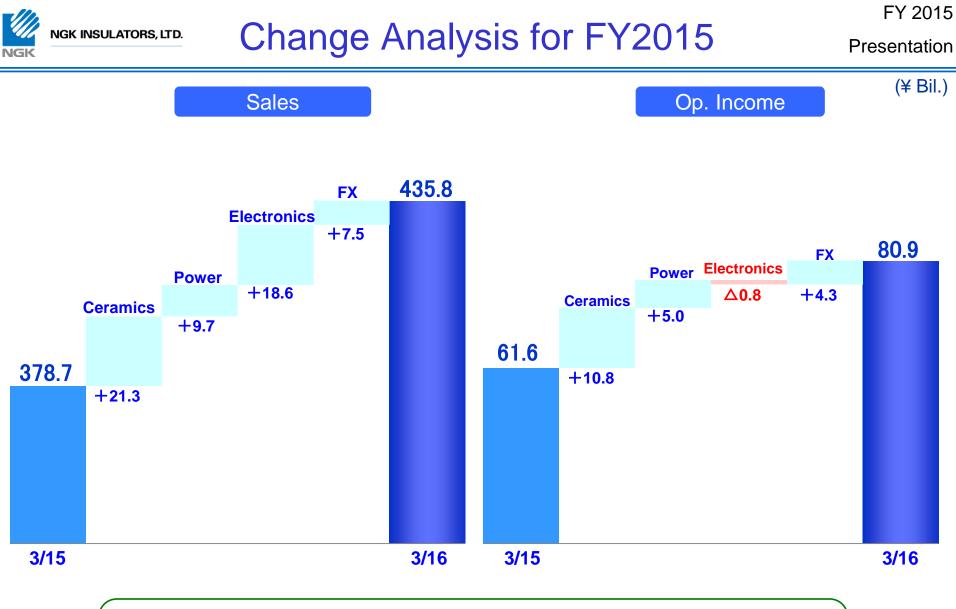
FY 2015

NGK INSULATORS, LTD.

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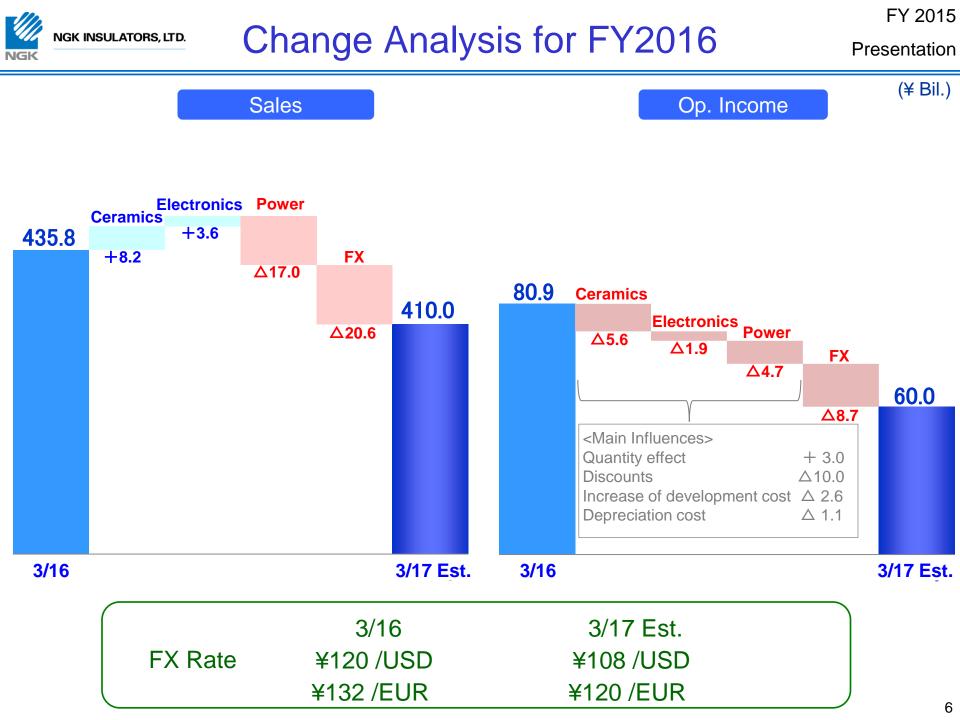
FY2015 Consolidated Financial Results

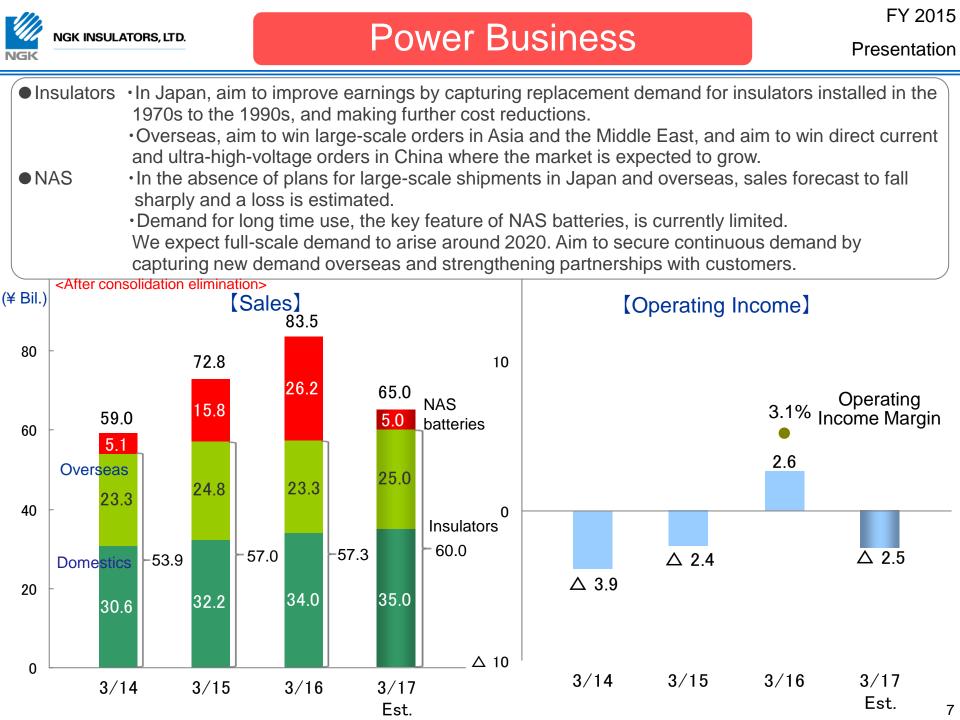
	(¥E	Bil.)	FY2014	FY2015	Growth ratio
Net Sales		378.7	435.8	+15%	
Operating Income		le	61.6	80.9	+31%
Ordinary Income		;	61.1	81.5	+33%
Profit Attributable to Owners of Parent		to	41.5	53.3	+28%
Exchange	Rate	USD EUR	¥110 ¥139	¥120 ¥132	+¥10 -¥ 7
Highest sales and income ever* * Net Sales ¥ 378.7 Bil (FY2014) Operating Income ¥ 69.4 Bil (FY2007) Ordinary Income ¥ 69.3 Bil (FY2007) Ordinary Income ¥ 69.3 Bil (FY2007) Net Income ¥ 46.0 Bill (FY2007)					
Ceramics Demand for automotive-related products increased due to strong sales of passenger cars in the US and Europe, and trucks in the US. Tax reduction measures on small passenger cars in China also contributed.					
Electronics Reflected the consolidated results of NGK Electronics Devices Inc., and demand for ceramics components for semiconductor manufacturing equipment grew.					
Power Shipment of large orders for NAS® batteries from domestics and overseas customers grew significantly.					
Extraordinal	Extraordinary Losses We recorded provision for loss related to competition law of ¥7.1 billion and impairment loss of ¥4.5 billion. 3				



	3/15	3/16	
FX Rate	¥110 /USD	¥120 /USD	
	¥139 /EUR	¥132 /EUR	

NGK INSULATORS, LTD.	Forecasts for	FY 2015 Presentation				
(¥Bil) FY2015	FY2016	Growth ratio			
Net Sales	435.8	410.0	-6%			
Operating Income	80.9	60.0	-26%			
Ordinary Income	81.5	63.0	-23%			
Profit Attributable to Owners of Parent	53.3	44.0	—17%			
Exchange Rate	SD ¥120 UR ¥132	¥108 ¥120	-¥12 -¥12			
Lower sales and income forecasts						
C	compared with the same period last year					
Ceramics Demand growth is expected as a result of the increased sales of passenger cars in China, Europe, and the US, and tighter emission regulations. However, sales and income will decrease due to factors such as the stronger yen and higher development costs and startup costs.						
Electronics Sales and income forecast to decrease due to factors including the stronger yen and price reductions on ceramic components for semiconductor manufacturing equipment. Sales of wafer products increase as production gets fully underway.						
Power In the absence of large orders for NAS batteries, sales forecast to fall sharply and a loss is estimated. Insulators business will show a profit.						





NGK INSULATORS, LTD.

FY 2014

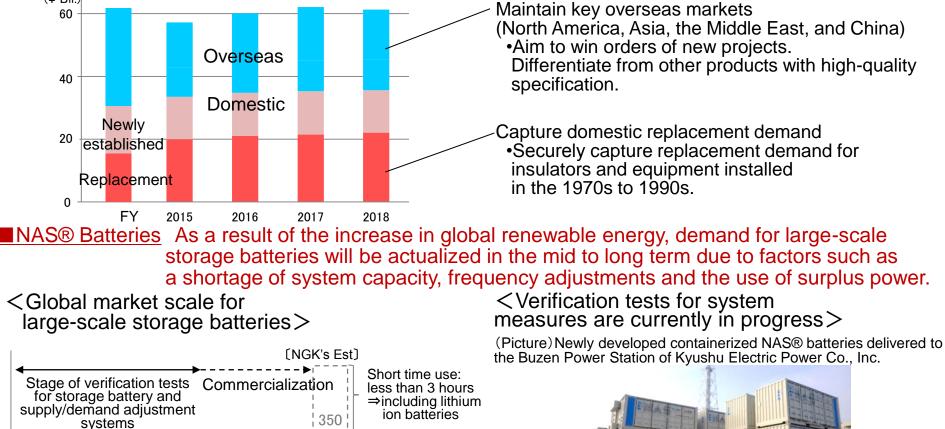
2015

2016

2017

Presentation

Insulators Aim to maintain key overseas markets, capture domestic replacement demand and make further cost reductions.
(¥ Bil.)



Long time use: more than 3 hours

NAS® batteries

⇒including

Output

2020~

250MW/year

(power output: 50,000kW / Storage capacity: 300,000 kWh)

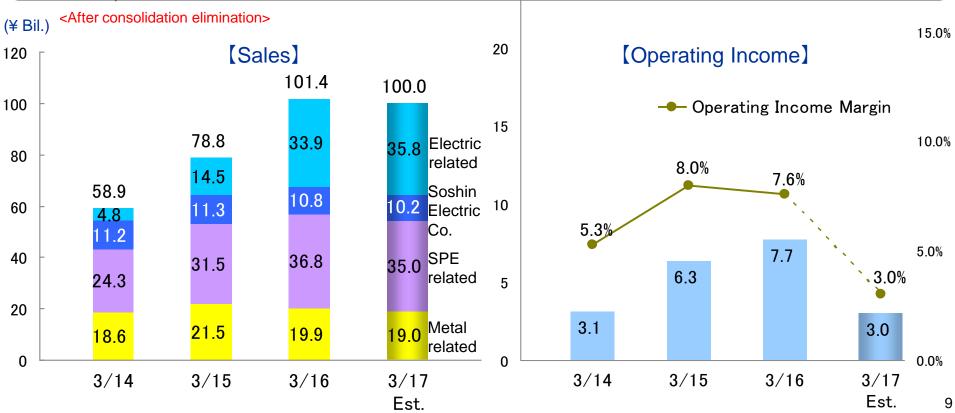
Installation lead time was one third that of conventional

World's largest battery

batteries

- Electronics Components
- Package products, for which shipment to mobile phone base stations had been stagnant, are in a recovery trend as a result of progress with inventory adjustments. Profit, however, forecast to decrease due to price reductions, increased depreciation costs and development costs. Sales of wafer products increase as production gets fully underway.
- Ceramics for Semiconductor Manufacturing Equipment (SPE-related products)
- •Demand increases as semiconductor companies continue high-level investments for further multi-layering and miniaturization on the back of increased demand for semiconductors for data centers. Profit forecast to fall, however, due to factors such as the stronger yen and price reductions.
- Focus on cost reduction by working on technological advancement of products and establishing the use of innovative production methods.
- Metal Related Products

•Sales are decreasing slightly, partly due to the downturn in copper prices. Grow the business by facilitating the development of new materials and products with new uses.



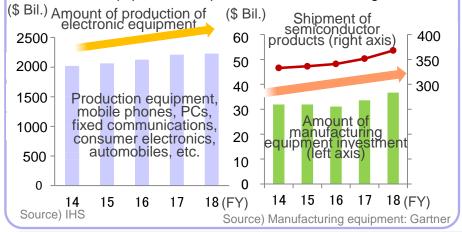
Forecast for the Electronics Business

Presentation



Demand for NAND memories used in memory devices, including Internet connection equipment and data servers, is growing as the result of advances with IoT.

Demand for related semiconductor manufacturing equipment is expected to remain at a high level.



Wafer Products (Electronics Components) Full-scale production of bonded wafers for SAW filters



 Demand for temperature-compensated SAW filters using our bonded wafers is anticipated to grow for LTE and next-generation LTE.

 We will make upfront investment in production expansion and start full-scale production from 2016.



Ceramic Package Business (Electronics Components)



· Demand for RF packages for mobile phone base stations was temporarily stagnant in the previous fiscal year. However, demand is currently showing signs of recovery as a result of progress with inventory adjustments of distribution stock.

•RF packages are expected to remain strong for the mid term as a result of growing demand for high-speed communications as well as infrastructure upgrades and expansion in emerging nations.

Quartz crystal package



Demand is declining due to slowing demand for smartphones and the declining momentum of the market in China. Increasingly intense competition.

Demand is expected to recover in the mid term as a result of the diffusion of IoT.

NGK Electronics Devices, Inc. and Corporate headquarter aim to increase profitability by strengthening collaboration and leveraging synergic effects toward further growth.

New product

Gallium nitride (GaN) wafer

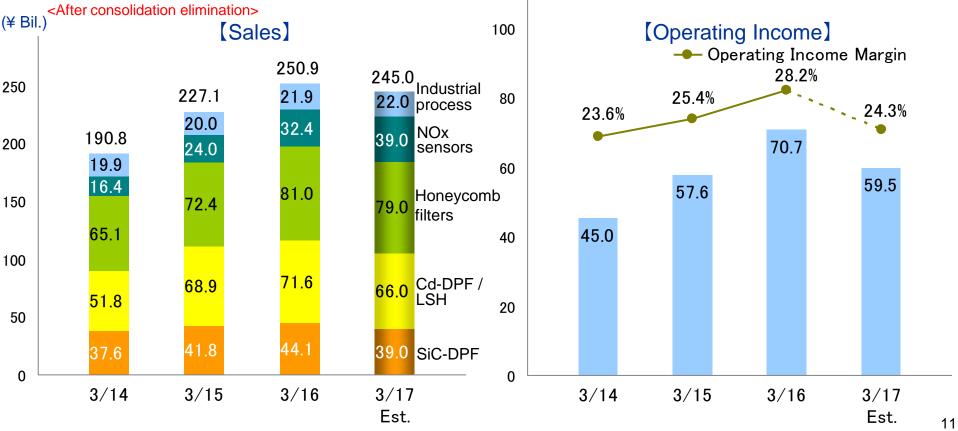
- [Example of final products] Ultra-bright LED
- Next-generation power semiconductor
- ·Samples being evaluated at several major companies

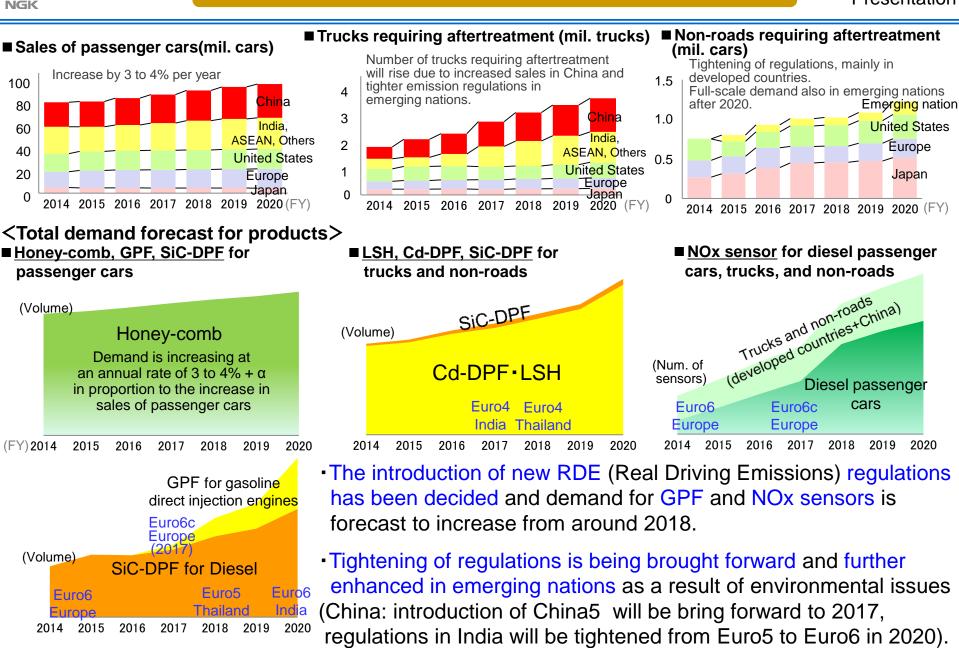


(Left: 2 inches Right:4 inches)



- Automotive-related
- •Demand for NOx sensors increases due to the expanded application of regulations in Europe (Euro6) and China (China 4).
- •Demand for honeycomb filters expands as the result of increased sales of passenger cars mainly in China, Europe and the US.
- •Demand for LSH increases as the result of the recovery of truck sales in China and the expansion of vehicles subject to non-road emission regulations. Demand for Cd-DPF decreases since some vehicles switch to SiC-DPF.
- Sales and income are forecast to decrease due to price reductions and increases in startup costs and development costs in addition to the impact from the stronger yen.
- For the mid to long term, the global trend for tighter emission regulations is set to continue and demand for related products will increase. We will continue to focus on constructing a global production system.
- Industrial processes
- •Investment in the medical, chemical and automobile industries continues, and sales are forecast to remain level.



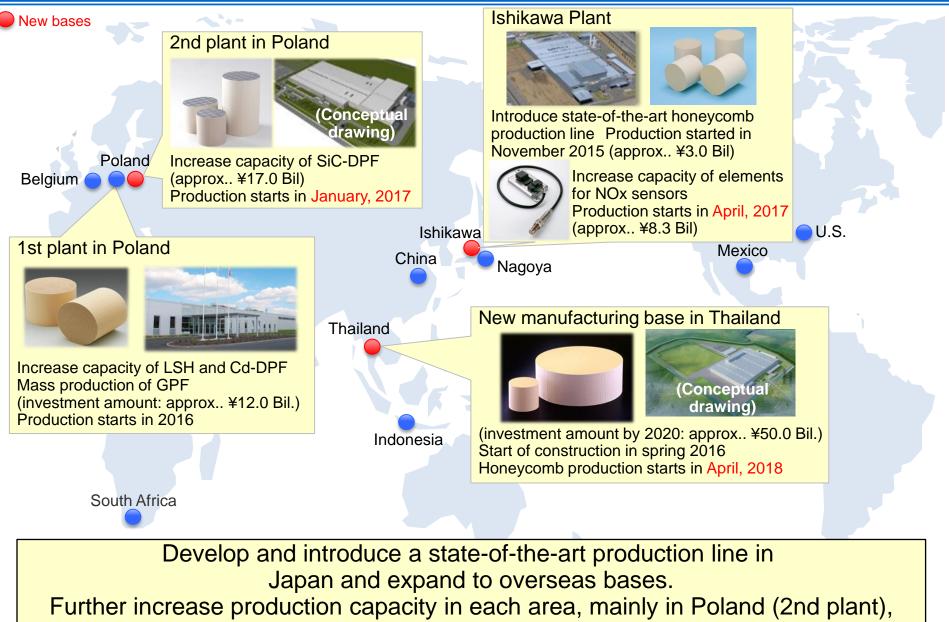




Construct a global production system

FY 2015

Presentation

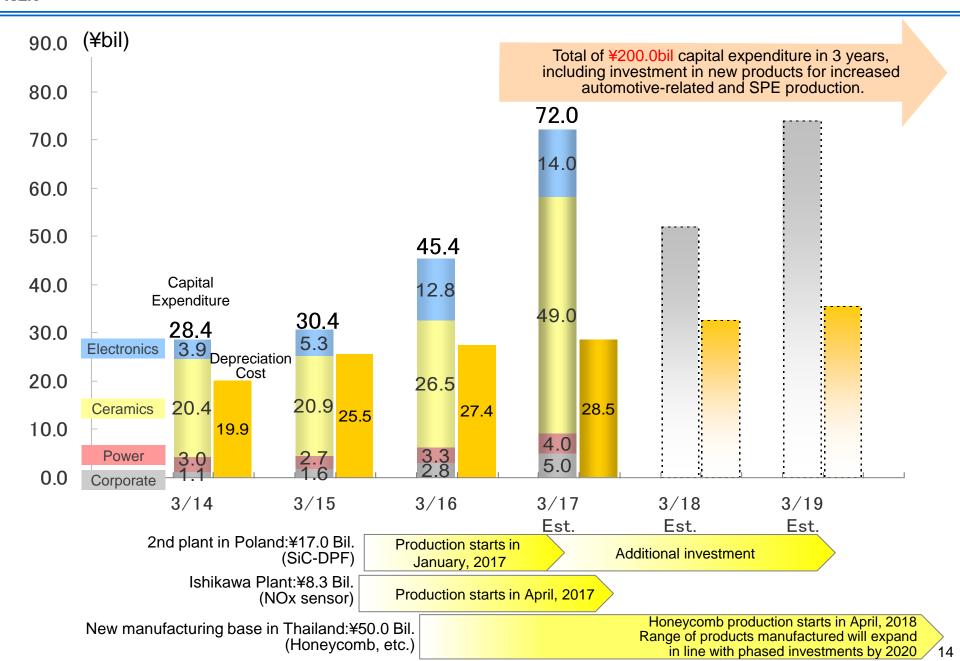


Ishikawa (NOx sensors) and the new manufacturing base in Thailand



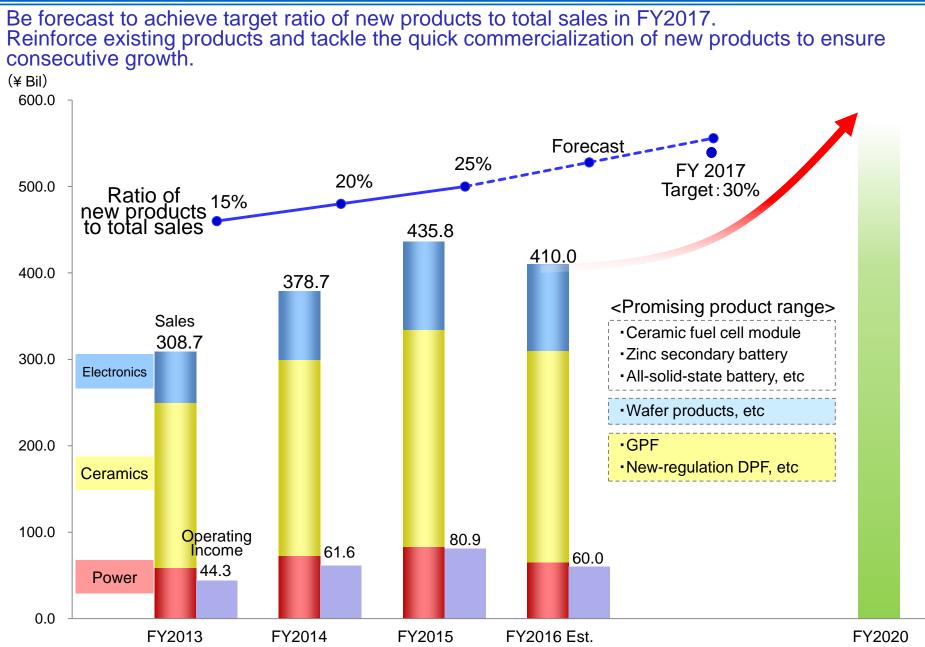
Capital Expenditure & Depreciation Cost

FY 2015





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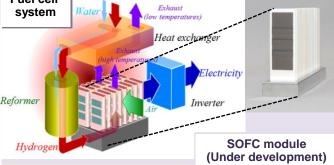




Quick commercialization of new products

FY 2015 Presentation

Ceramic fuel cell module SOFC (Solid-Oxide Fuel Cell) module Fuel(Gas) Fuel cell



 Compact but highly efficient and durable power generation component made of ceramic enabled by proprietary configuration and ceramic material

Fuel cell system for a detached house and an apartment building For next-generation fuel battery systems



 Being evaluated at major fuel cell system companies for commercialization

Zinc secondary battery



 Large capacity battery using proprietary OH ion-conducting ceramic materials in its separators

 Has high safety since it uses an aqueous electrolyte, and can be installed in various locations

Household-type storage battery (10kWh class)

Indoor-type storage battery (500kWh class) For buildings, hospitals and commercial facilities, etc.













All-solid-state battery which are

ultra-slim, high energy dense and

operable under high temperatures

All-solid-state battery



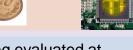
Smart cards

IoT wireless modules





On board



 Samples being evaluated at more than 10 companies

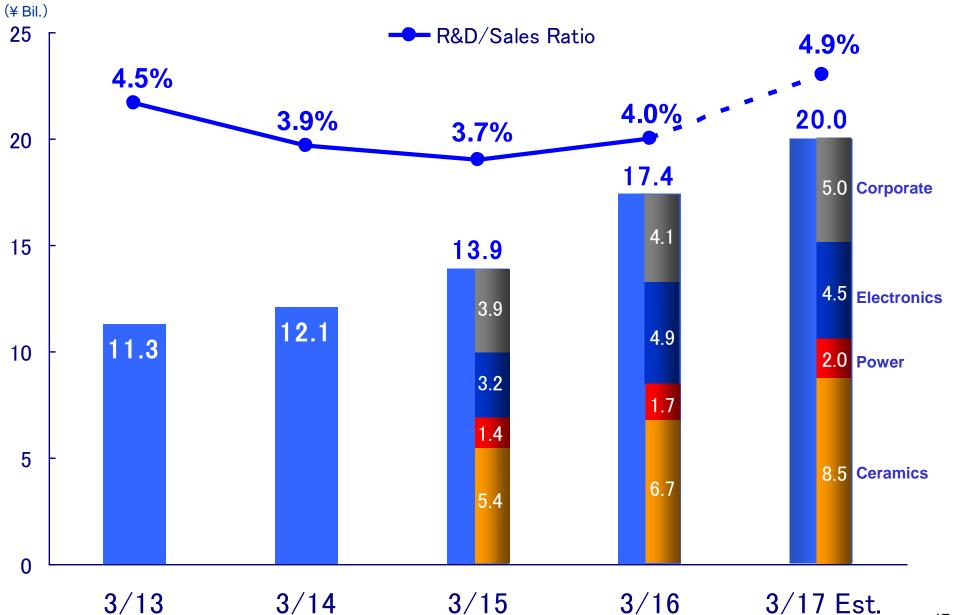
Launched a company-wide ceramic battery project. Accelerating commercialization

• Being evaluated for long-term durability, for commercialization in 2017



R&D Input

FY 2015





Priority Tasks

hance the competitiveness of existing products w Structural Innovation of Manufacturing	Create new product and business 2017 Challenge 30	Enlarge the global management Upgrade the cooperate headquarter
 Increase the value of the products by advanced technology Reduce cost and shorten lead time by establishing 	 Raise the ratio of new products to total sales to 30% Broaden the range of new wafer products Set up the new department to reinforce the marketing and experimental production Accelerate the 	•Rapid response to the change of business conditions, and legal requests
•	Increase the value of the products by advanced technology	 Increase the value of the products by advanced technology Reduce cost and shorten ead time by establishing

Further Enhancement of Governance framework Commit Stronger Regulatory Compliance

Become a world-class global company



Summary of Cash Flow

FY 2015

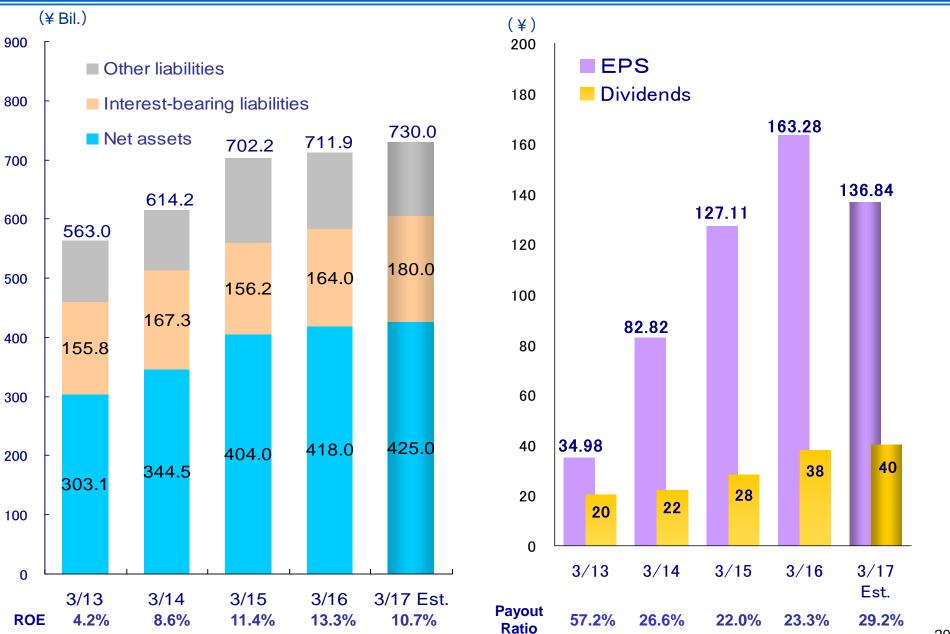
			(¥ Bil.)
	3/15	3/16	3/17 Est.
Operating Activities	73.0	59.4	79.0
Investing Activities	-39.5	-47.8	-72.0
Financing Activities	-26.0	-0.4	-16.0
Effect of exchange rate change	1.3	-3.9	-2.0
Net Change in Cash & Eq-	8.8	7.4	-11.0
Cash & Eq- at the End of Year	128.6	136.1	125.1

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Total Assets & ROE / EPS & Dividends

FY 2015 Presentation





Sales by Product (Annual)

FY 2015

Presentation

<After Consolidation Elimination>

(¥ Bil.)

	3/14	3/15	3/16	3/17 Est.	
Insulators	53.9	57.0	57.3	60.0	
NAS	5.1	15.8	26.2	5.0	
Power Business	59.0	72.8	83.5	65.0	
Honeycomb filters	65.1	72.4	81.0	79.0	
SiC-DPF	37.6	41.8	44.1	39.0	
Cd-DPF / LSH	51.8	68.9	71.6	66.0	
Sensors	16.4	24.0	32.4	39.0	
Industrial Process	19.9	20.0	21.9	22.0	
Ceramics Business	190.8	227.1	250.9	245.0	
Metal related	18.6	21.5	19.9	19.0	
SPE related	24.3	31.5	36.8	35.0	
Electric Related	4.8	14.5	33.9	35.8	
Soshin Electric CO.	11.2	11.3	10.8	10.2	
Electronics Business	58.9	78.8	101.4	100.0	
Total	308.7	378.7	435.8	410.0	



Sales by Product (Semi Annual)

Presentation

<After Consolidation Elimination>

	3/*	16	3/17 Est.	
	1 st . Half	2 nd . Half	1 st . Half	2 nd . Half
Insulators	27.9	29.4	28.5	31.5
NAS	5.9	20.3	0.5	4.5
Power Business	33.8	49.7	29.0	36.0
Honeycomb filters	39.1	41.8	38.5	40.5
SiC-DPF	22.1	22.0	20.0	19.0
Cd-DPF / LSH	37.0	34.6	33.5	32.5
Sensors	14.9	17.4	18.0	21.0
Industrial Process	9.6	12.3	10.0	12.0
Ceramics Business	122.7	128.1	120.0	125.0
Metal related	10.6	9.3	9.5	9.5
SPE related	18.7	18.2	18.5	16.5
Electric Related	19.5	14.4	18.1	17.7
Soshin Electric CO.	5.4	5.4	4.9	5.3
Electronics Business	54.1	47.4	51.0	49.0
Total	210.6	225.2	200.0	210.0

(¥ Bil.)

The purpose of this brief is information disclosure for better understanding of NGK Group's policies, projections and financial condition. This brief does not solicit buying and selling of NGK's shares.

The figures included in this brief, including the business performance targets and figures, are all projected data based on the information currently available to the NGK Group, and are subject to variable factors such as economic conditions, competitive environments and future demands.

Accordingly, please be advised that the actual results of business performance may differ substantially from the projections described here.



Presentation





2-56, Suda-cho, Mizuho-ku, Nagoya

467-8530, Japan

Finance & Accounting Department

Tel. : + 81-52-872-7212 Fax. : + 81-52-872-7160

E-mail : ir-office@ngk.co.jp

NGK Website (English Version):

http://www.ngk.co.jp/english/index.html