



## Briefings on Financial Results of the FY2018



## **Financial Results Overview**

FY2018

April 1, 2018 - March 31, 2019

## President and Chief Operating Officer Hidetaka Shirozume

- 1. FY2018 Consolidated Performance
- FY2019 Prospective Performance and Business Strategy
- 3. Progress of medium-term management plan BEYOND 300
- 4. For Your Reference



## FY2018 Consolidated Performance

### **FY2018 Consolidated Performance**

Consolidated

#### Seven consecutive years of increase in sales and profits

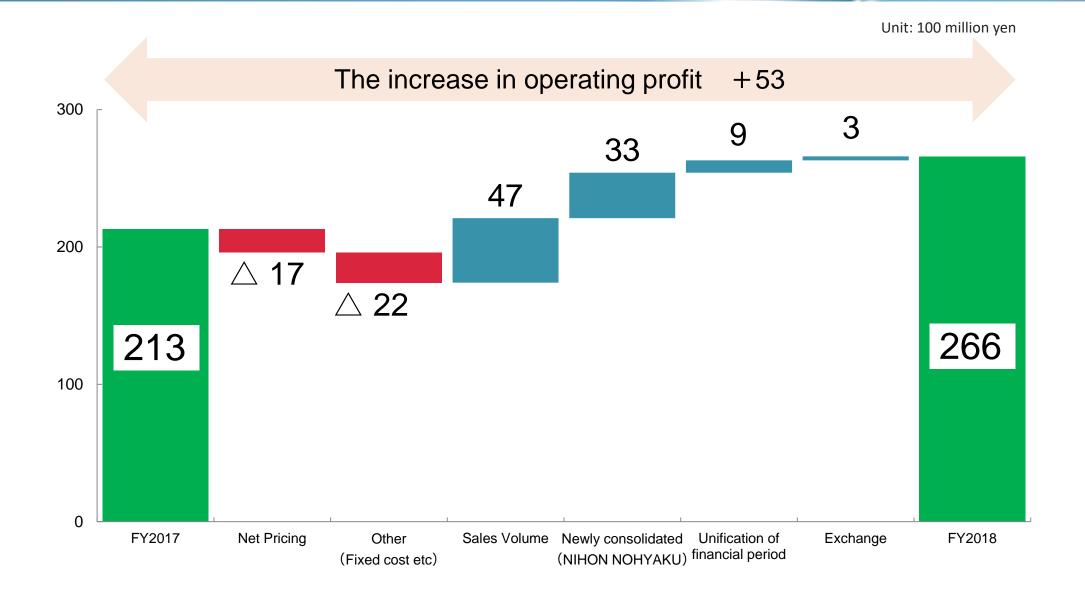
		Unit: 100 million yen		
	FY2017	FY2018	Increase/ decrease	Increase/ decrease ratio : %
Net sales	2,396	2,993	597	24.9
Operating profit	213	266	53	24.9
Ordinary profit	223	266	42	19.1
Profit attributable to owners of parent	153	170	17	11.1
Net profit per share - yen/share -	149.2	165.8	16.6	
Dividend - yen/share -	39	45	6	

■ Sales increased after both chemicals and food products attained brisk sales.

Operating profit grew overall, following favorable sales of electronics and IT materials, although profit was significantly affected by higher raw material costs, as well as by increased fixed costs due to active capital investment for future growth of both chemicals and food products.



### **Analysis of Operating Profit**





## Impact of newly consolidated and unification of financial period

#### Consolidation of NIHON NOHYAKU, etc.

- Added the performance of NIHON NOHYAKU and its nine subsidiaries to ADEKA's consolidated performance from the 3rd quarter of FY2018.
  - NIHON NOHYAKU
  - Nichino Ryokka
  - Nichino Service
  - Nihon Ecotech
  - AgriMart

- Nichino America
- Taiwan Nihon Nohyaku
- Nichino India
- Nichino Chemical India
- · Sipcam Nichino Brasil

Unit: 100 million yen

Unit: 100 million yen

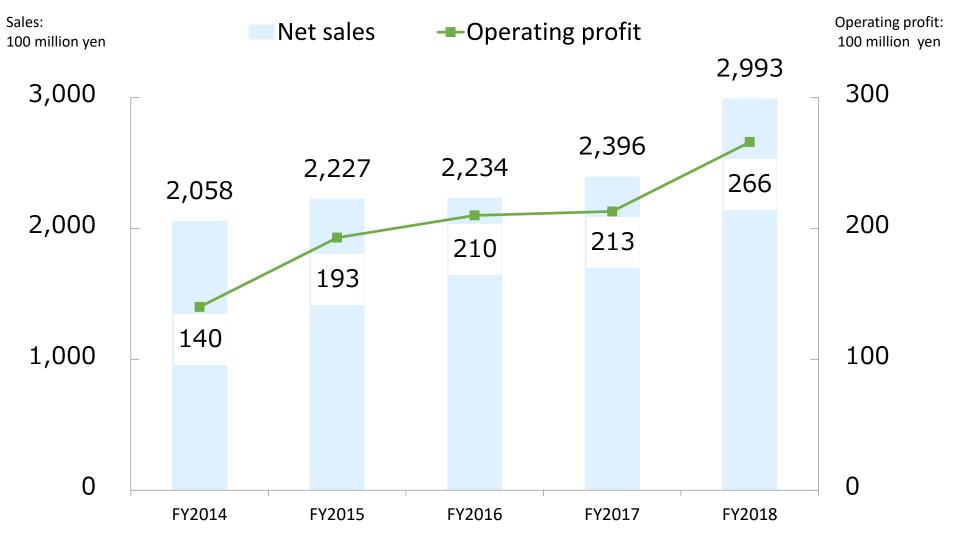
	Influence amount
Net sales	344
Operating profit	33

#### **Unification of financial period**

- FY-end of the three consolidated subsidiaries was changed from the December to March.
- The 15-month performance of the three companies was added to the consolidated performance of FY2018.
  - ADEKA KOREA
  - ADEKA POLYMER ADDITIVES EUROPE
  - · ADEKA FOODS (ASIA)

	Influence amount	
Net sales	98	
Operating profit	9	





#### The FY2018 Consolidated Performance - By segment -

Unit: 100 million yen

Consolidated	psolidated					
consonauccu		FY2017	FY2018	Increase/ decrease	Increase/ decrease ratio : %	
	Sales	2,396	2,993	597	24.9	
	Chemicals	1,585	1,807	221	14.0	
	Polymer additives	825	946	120	14.7	
	Electronics and IT materials	232	301	69	29.7	
	Functional chemicals	528	559	31	6.0	
	Food products	698	717	18	2.7	
	Life science	_	344	344	-	
	Other	111	123	12	11.3	
	Operating profit	213	266	53	24.9	
	Chemicals	197	215	18	9.5	
	Polymer additives	73	69	△ 4	△ 5.7	
	Electronics and IT materials	52	82	29	56.3	
	Functional chemicals	71	64	△ 6	△ 9.2	
	Food products	13	12	riangle 1	△ 9.3	
	Life science	_	33	33	-	
	Other	2	4	2	99.2	



#### Consolidated

- Additives for polyolefins, which are mainly used in automobiles, electrical appliances and food packaging and containers, sales expanded in Europe, the Middle East and South America, resulting in a strong sales trend of general-purpose antioxidants and other related products. In addition, sales of light stabilizers increased for automobile components in Europe.
- 2. Flame retardants for engineering plastics used in electrical appliance housing and cases, business expanded with the strength of stable supply, reflecting strong sales, particularly in China.
- 3. PVC stabilizers and plasticizers, sales of plasticizers for rubber used in automobile components were strong, whereas sales of stabilizers for PVC used in building materials and others were weak due to intensified competition in North America. Overall, sales fell slightly below the level of the previous year.
- Polymer additives overall, due to the increased fixed costs caused by the impact of higher raw material prices and active capital investment, profits declined overall.

Unit: 100 million yen

	FY2017	FY2018	Increase/decrease
Sales	825	946	120
Operating profit	73	69	△ 4



#### Segmental Information Electronics and IT materials : Increase in both sales and profit

#### Consolidated

- Information media materials, along with the trend of higher-definition, large LCDs, sales of photo (light) curing resins, which increase the adherence of substrates in optical films, and sales of photoinitiators, which contribute to achieving high optical sensitivity and transparency in photoresists, trended strongly. In addition, sales of materials for semiconductor photolithography including photoacid generators grew throughout the period.
- 2. Electronic materials, despite slow demand for memory in data centers and other locations after the 4th quarter, sales of dielectric constant materials used in DRAM and 3D-NAND grew strongly throughout the year.

In addition, sales of etching chemicals and other products for LCD-related items showed a firm rise.

Unit: 100 million yen

	FY2017 FY2018		Increase/decrease
Sales	232	301	69
Operating profit	52	82	29



#### Consolidated

- In surface specialties, lubricant additives that contribute to improving fuel efficiency and reducing CO<sub>2</sub> emissions in automobiles showed strength in Japan and overseas.
   Sales of special surfactants for cosmetics were strong, especially outside Japan.
- In functional polymers, sales of waterborne resins used for paints and others remained robust. Moreover, sales of epoxy resin-related products used for adhesion in electronics, which are installed in automobiles and others, were strong.
- In industrial chemicals, sales of propylene glycols for daily necessities such as toiletries and cosmetics remained firm.
   In addition, sales of peroxygen chemicals showed underlying strength, remaining at the level of

the previous year.

Functional chemicals overall, due to the increased fixed costs caused by the impact of higher raw material prices and active capital investment, profits declined overall.

Unit: 100 million yen

	FY2017	FY2018	Increase/decrease
Sales	528	559	31
Operating profit	71	64	△ 6



#### Consolidated

1. In Japan, the focus on sales of strategic products contributed to the firm sales of products such as functional margarine for use in bakery products and confectioneries, which helps to improve texture and flavor and is also labor saving.

However, sales of cream products used for daily items were sluggish due to factors such as the impact from natural disasters and increasing awareness of food waste.

- 2. Overseas, the company achieved strong sales of margarine and shortening for use in bakery products and confectioneries in China and Southeast Asia by strengthening its sales system and developing products that meet local needs.
- The food business as a whole, despite efforts to rectify profitability, profits declined as a result of rising prices for raw materials such as milk ingredients.

Unit: 100 million yen

	FY2017	FY2018	Increase/decrease
Sales	698	717	18
Operating profit	13	12	△ 1



#### Segmental Information : Life Science

#### Consolidated

- 1. In agrochemicals, the company achieved robust sales especially with *DANIKONG*, a key miticide product in Japan, and *PARADE*, a new fungicide product for gardening.
- 2. Overseas, sales in South America were firm, following increasing demand due to recovery in the Brazilian market. However, sales in Asia were weak due to customers' prolonged inventory adjustments caused by factors such as unseasonable weather in the previous year.
- 3. Income from agrochemical-related technical know-how fees was on the rise due to an increase in sales of the applicable items in out-licensing destinations.
- 4. In pharmaceuticals, sales of *Luliconazole*, an antifungal agent for external application, grew strongly in the trichophytosis unguium field.

Unit: 100 million yen

	FY2017	FY2018	Increase/decrease
Sales	_	344	344
Operating profit	_	33	33

Note 1 : Figures are expressed in units of 100 million yen and have been rounded off. Note 2 : Life Science segment established in the second guarter of FY 2018.





## FY2019 Prospective Performance and Business Strategy

#### The FY2019 **Prospective Performance**

Unit: 100 million yen

Consolidat	ed					01110	100 million yen
Consolidat			FY2019		51/2010	Increase	Increase/
		1st half - Forecast -	2st half - Forecast -	Whole FY - Forecast -	FY2018	18 /decrease ratio : %	
	Sales	1,610	1,790	3,400	2,993	406	13.6
	Operating profit	106	161	267	266	0	0.2
	Current profit	104	165	269	266	2	1.1
	Profit attributable to owners of parent	67	105	172	170	1	0.8
	Net profit per share - yen/share -	65.1	102.0	167.0	165.8	1.2	
	Dividend - yen/share -	24	24	48	45	3	
		[	1 <sup>st</sup> half FY2019 P	rerequisite	FY20	18	
	Evenance rates	¥⁄\$		110.00		110.90	
	Exchange rates	¥∕€		128.00		128.40	
	Naphtha	¥ ⁄ KL		47,000		49,400	



#### The FY2019 Prospective Performance - By segment -

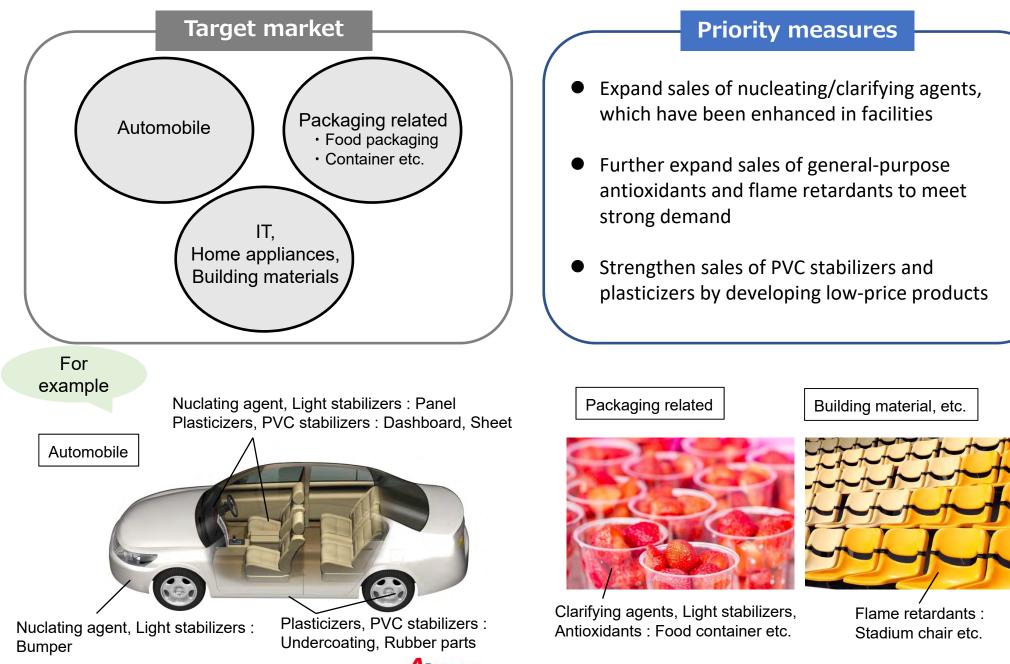
Consolidated		the 1st half (a)	the 2nd half (b)	<b>FY2019</b> (a+b)	FY2018 (c)	Increase /Decrease (a+b-c)	Increase /decrease ratio : %
	Sales	1,610	1,790	3,400	2,993	406	13.6
	Chemicals	894	906	1,800	1,807	△7	△ 0.4
	Polymer additives	466	464	930	946	△ 16	△ 1.7
	Electronics and IT materials	150	160	310	301	8	2.7
	Functional chemicals	278	282	560	559	0	0.0
	Food products	366	402	768	717	50	7.0
	Life science	290	420	710	344	365	106.3
	Other	60	62	122	123	△ 1	△ 1.6
	Operating profit	106	161	267	266	0	0.2
	Chemicals	99	110	209	215	△ 6	△ 3.2
	Polymer additives	33	33	66	69	△ 3	△ 4.5
	Electronics and IT materials	38	45	83	82	0	1.1
	Functional chemicals	28	32	60	64	△ 4	△ 7.3
	Food products	7	13	20	12	7	59.0
	Life science	△ 2	36	34	33	0	2.3
	Other	2	2	4	4	riangle 0	△ 13.2

Note : Figures are expressed in units of 100 million yen and have been rounded off.

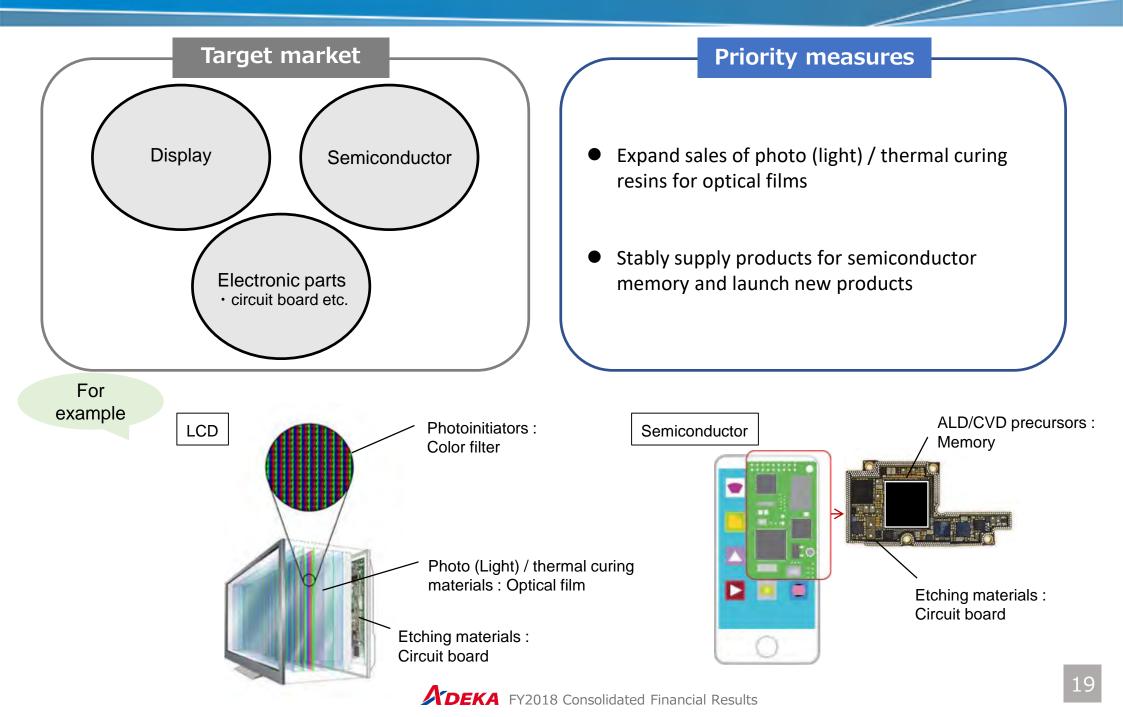


Unit: 100 million yen

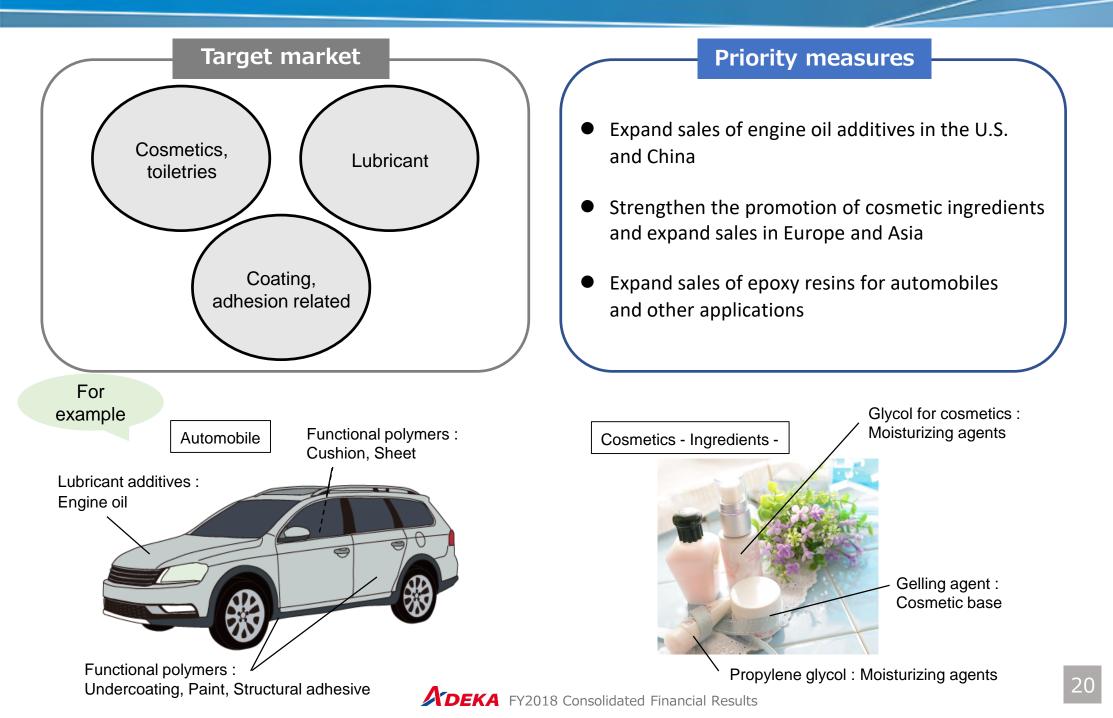
#### The FY2019 Business Strategy - Polymer additives -



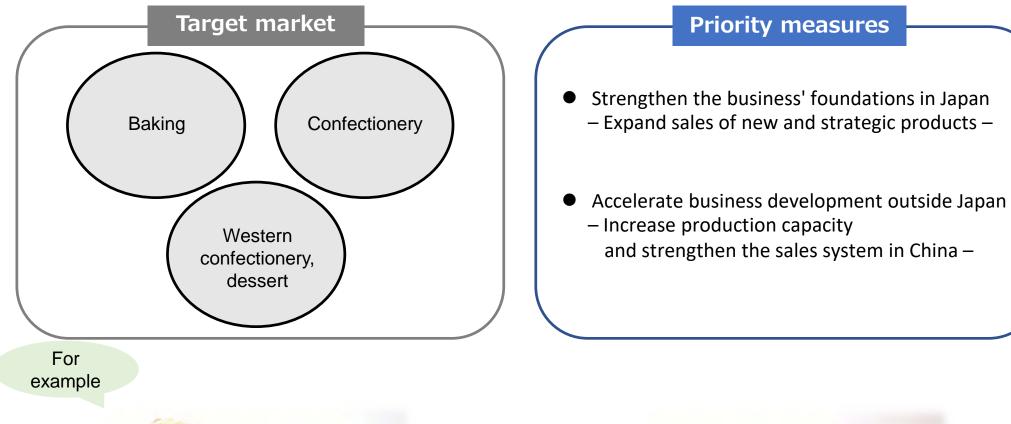
#### The FY2019 Business Strategy - Electronics and IT materials -



#### The FY2019 Business Strategy - Functional chemicals -



#### The FY2019 Business Strategy - Food products -





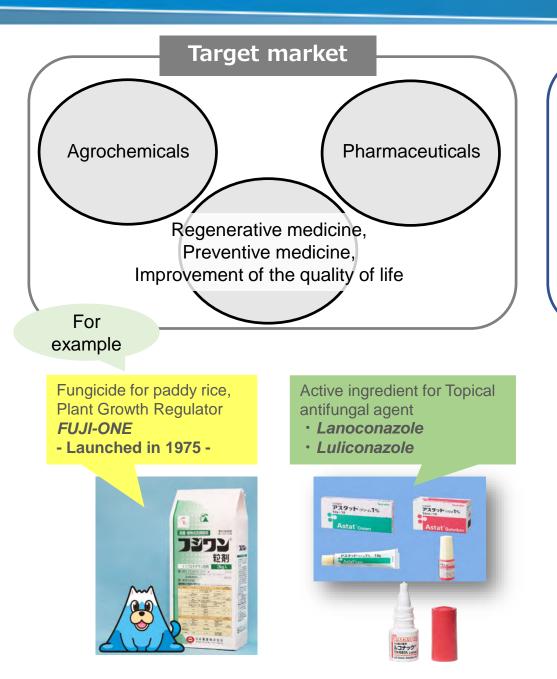
▲ Product example using processed fats and oils : Margarine, Shortening etc.



▲ Product example using processed food : Cream etc.



#### The FY2019 Business Strategy - Life science -



#### **Priority measures**

- Strengthen the agrochemicals and pharmaceuticals busines's foundations and expand the business scale NIHON NOHYAKU Group
- Promote the commercialization of regenerative medicine materials by acquiring ISO 13485 certification

Life Science Materials Laboratory, Kashima Plant-West

#### \* ISO 13485 :

International standard concerning QC system for medical devices.

This involves specifying rules concerning the design, development, manufacturing, maintenance and other related products, with a purpose of stably supplying a certain quality.



Medical Material Research Laboratory
 Kashima Plant-West -



# Progress of medium-term management plan *BEYOND 300*

## The mid-term management plan Progress of "BEYOND 300"

	<b>FY2018</b> 1st year of <i>BEYOND 300</i>	FY2019 2nd year of <i>BEYOND 300</i>	FY2020 Final-year of <i>BEYOND 300</i>
Consolidated sales	299.3 billion yen	340.0 billion yen	Over 300 billion yen
Organic growth	255.0 billion yen	269.0 billion yen	- Via organic growth -
Operating income margin	<b>8.9</b> %	7.9%	10%
ROE	8.5%	8.4%	10%
Investment and finance	<b>36.2</b> billion yen∕year	_	100 billion yen ⁄3 years
Capital investment	<b>17.4</b> billion yen⁄year	16.0 billion yen∕year	50 billion yen ⁄3 years
M&A funds	<b>18.8</b> billion yen execution	_	50 billion yen∕3 years
Dividend	Dividend payout ratio <b>27.1</b> %	Dividend payout ratio 28.7%	Dividend payout ratio 30% (Target for the final year of the plan after incremental increases)

- Achieved favorable progress and strengthened confidence for the final-year management targets.
- In FY 2018, forged ahead with the expansion of business scale through active capital investment, the strengthening of alliances and the development of new domains through M&A.
  - \* Organic growth : Aims to reach sales exceeding 300 billion yen with business growth from polymer additives, chemicals and food products. - Excluding contributions from M&A -



## **Create synergy with NIHON NOHYAKU**

ADEKA's additional acquisition of up to 51% of shares converted NIHON NOHYAKU into a consolidated subsidiary

We promotes activities such as exchange among human resources, mutual benefits in the R&D and shared use of sales channels, manufacturing technologies and bases, and other resources.

R&D	Search for collaborative research themes especially in the life science field	<ul> <li>Aim to transfer our products to agrochemical adjuvants and started considering the transfer thickening or gelling agents to spreading agents.</li> <li>Started searching for new cosmetic ingredients using NIHON NOHYAKU's compound database.</li> <li>Approx. 230,000 compounds -</li> </ul>
Industrial science	<ul> <li>Establish the entrusting manufacture system between both companies</li> </ul>	Share technical information about entrusting candidate products with NIHON NOHYAKU, and started to confirm the availability and viability of manufacturing.
Purchasing & Distribution	Reduce costs with such measures as jointly purchasing common ingredients etc.	<ul> <li>Selected items applicable to these joint purchases. Promptly establish joint purchase schemes and take measures to reduce costs.</li> </ul>
Others	Link management accounting systems	<ul> <li>Made plans with a view to integrate management accounting systems within five years.</li> </ul>



#### Basic strategies : Global expansion of three main businesses Capital investment for growth

#### Polymer additives

- The Mie Plant increases the production capacity of additives for polyolefins (e.g. light stabilizers) and commences commercial operation. [Mar. 2018]
- China-based ADEKA FINE CHEMICAL (ZHEJIANG) CO., LTD. is constructing a new plant for chemicals such as polymer additives. [Scheduled to be completed in summer 2019]
- The Mie Plant is enhancing facilities for the production of additives for polyolefins (e.g. nucleating/clarifying agents and antioxidants). [Scheduled to be completed in july 2019]

#### Chemicals

- The Chiba Plant increases the production capacity of functional cosmetic Ingredients and commences commercial operation. [Oct. 2018]
- Kashima Plant and ADEKA KOREA CORP. plan to sequentially enhance facilities for the production of **dielectric constant materials for semiconductors**.
- At ADEKA KOREA CORP., the R&D center for materials such as semiconductor materials is planned to be expanded. [Scheduled to be completed in Oct. 2019]
- The Soma Plant is enhancing facilities for the production of lubricant additives.

[Scheduled to be completed in Aug. 2019]

• The Chiba Plant is enhancing facilities for the production of water-borne polyurethane.

[Scheduled to be completed in July 2019]

 At ADEKA (CHINA) CO.,LTD., a new development center for products including water-borne resins is planned to be built.
 [Scheduled to be completed in July 2019]

#### Food products

- China-based ADEKA FOODS (CHANGSHU) CO., LTD. increases the production capacity of processed foods and commences commercial operation. [Oct. 2018]
- The Kashima Plant-west increases the production capacity of whipping cream and commences commercial operation. [Mar. 2019]
- ADEKA FOODS (CHANGSHU) CO., LTD. is enhancing facilities for the production of processed fats and oils. [Scheduled to be completed in Aug. 2019]

Plant of ADEKA FINE CHEMICAL (ZHEJIANG) CO., LTD. under construction -Business operation planned to start in 2020 -



▲ As of Sep. 2017



▲ As of Mar. 2019



#### Basic strategies : Global expansion of three main businesses New product development - Polymer additives -

Flame retardant for engineering plastics, which realizes thin, non-flammable and strong plastics "ADK STAB FP-900L"

#### Innovation - new value creation -

With an accelerating trend of thinner and lighter electrical appliances, automobiles etc., even thinner housing and cases are also in demand.

Although it was difficult to add a flame retardant property to thin resins while maintaining their strength using conventional technologies, it was enabled through ADK STAB FP-900L.

#### Impact of development

✓ For finished product makers:

TVs, PCs and automobiles with thin and non-flammable properties.

✓ For component makers:

Achieved thin components used for housing and cases etc.

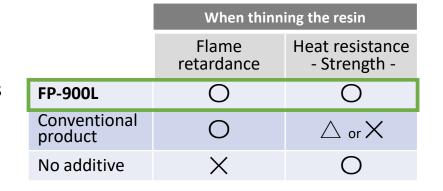
- From thin plate to film levels -
- $\Rightarrow$  Contributes to an affluent, comfortable and safe society.

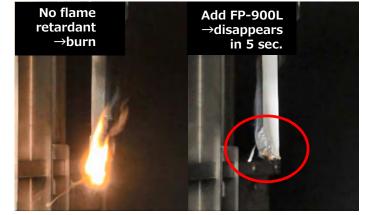
#### Characteristic

✓ High flame retardant:

Reached the highest classification of V-0 in UL-94V testing\* \* The most common flame retardancy test in the world

- Improved heat resistance:
   Adding FP-900L does not decrease the characteristics of resins
- ✓ Environmentally Friendly: Bisphenol-A free





▲ Flame retardant test on Polycarbonate ABS / UL-94V



## Basic strategies : Global expansion of three main businesses New product development - Chemicals and Food products -

#### Chemicals

#### People- and eco-friendly, brand-new photo curing material a water-soluble UV curing material

#### Development background

Volatile organic compounds (VOCs) emitted mainly from organic solvents can cause air pollution and adversely affect the human body, resulting in the global tightening of VOC emissions.

Accordingly, there is increasing demand for organic, solvent-free materials for UV ink, coating agents etc..

#### Characteristic

- ✓ Not using organic solvents minimizes risks to operators' health and environmental burdens such as air pollution.
- ✓ There is no need for organic solvents for photo curing materials with ADEKA's unique, water-soluble molecular structure design.

#### Main application

Printing ink, Coating agents, Photoresist materials, Circuit materials, Paints, Adhesives etc.

**Received the Publicity Prize** from the Public Relations Committee of the Society of Polymer Science, Japan at the 27th Polymer Materials Forum [Nov. 2018]

The society, renowned as an authority on polymer chemistry in Japan, certified this material as an excellent product. Out of 181 entrants, 10 including ADEKA received awards.



▲ Patterning on plastic using ink containing the developed product

#### Food products



#### Supporting delicious tastes and solutions to issues faced by the food industry

#### Placing new RISU BRAND products

#### Development background

Due to a decrease in the labor force, progress on work-style reform and other factors, food manufacturers are facing a variety of demands such as labor saving, work efficiency and cost reduction.

#### Characteristic

- ✓ In addition to pursuing delicious tastes by using excellent-quality ingredients, our new products offer functions such as contributing to improved production efficiency.
- ✓ Our new products enable efficient, stable manufacturing of highquality finished products.

#### EZ Margarine CP - compound margarine -

Features a natural butter flavor.

It can be used after being taken out of the refrigerator and kneaded into dough quickly, reducing work time.

Use : Bakery, confectioneries, sweets sold as souvenirs.



 Example of finished products in which the ADEKA product is used

**DEKA** FY2018 Consolidated Financial Results

## Basic strategies : Entering new domains New product development - Environment and Energy -

For next-generation rechargeable batteries

Providing samples of rare-metal-free active material SPAN

#### What is SPAN

Material that can contribute to the light weight, resource saving, high safety, and long-life characteristics of batteries, when used as an active material (electrode material) for next-generation rechargeable batteries.

#### Development background

- Rechargeable batteries are indispensable for our lives as represented by smart devices and electric vehicles. As demand for more sophisticated batteries grows in terms of reduced size, higher energy density, longer life.
- Rare metals are used for electrodes on LIB. Accordingly, as demand for it grows, resource depletion and rising costs are becoming serious concerns.

Although research on alternative materials is in progress, extensive application has not yet been found.

#### Characteristic

- ✓ Rare-metal-free
   ⇒ Weight reduction and resource saving (cost reduction) for batteries
- ✓ Confirmed that cell temperature rise was inhibited in safety tests
   ⇒ High safety of batteries
- ✓ With its sound charge-discharge cycles, stable performance can be achieved for a long time ⇒ Long battery life

#### Main application

Energy storage systems, rechargeable batteries for electric vehicles, next-generation rechargeable batteries, all-solid-state batteries.

- Aiming to commercialize this product in 2020 -





▲ Rare-metal-free active materials SPAN

#### Basic strategies : Enhancing our management foundation Promote CSR activities toward sustainable growth

- Strengthen our CSR promotion system
- Identify ADEKA's priority challenges from existing social challenges

#### **New CSR Promotion System**

#### • CSR Committee :

Consists of the president as chairperson and the board directors as committee members.

- Examining and deciding policies, plans and other key matters
- Supervising and checking the status of the activities.

#### CSR Promotion Subcommittee :

- Implements company-wide CSR measures and controls the progress.
- Provides internal education concerning CSR.

#### **Initiatives for Promoting CSR Activities**

#### • Identifying priority challenges :

As a 1st step, Selecting priority challenges that should be taken from various social challenges. - Scheduled in 1st half of 2019 -

#### • Enriching disclosed information on ESG :

Actively disclose information concerning initiatives taken for social challenges such as climate change and governance.



## **For Reference**

### **Overseas Sales - For reference -**

46.9% 50% 5,000 43.7% 42.3% 41.5% 41.0% 40% 4,000 2,993 30% 3,000 2,396 2,234 2,227 2,058 1,405 20% 2,000 1,012 927 973 843 10% 1,000 1,588 1,383 1,307 1,253 1,215 0% 0 FY2014 FY2015 FY2016 FY2017 FY 2018 Overseas sales 843 973 927 1,012 1,405 Domestic sales 1,215 1,253 1,307 1,383 1,588 Overseas sales ratio 41.0% 43.7% 41.5% 42.3% 46.9% Sales 2,058 2,227 2,234 2,396 2,993

Unit: 100 million yen



## The FY2018 Supplemental Documents for Financial Results Overview

Director and Operating Officer Youji Shiga

I .Supplementary Data for consolidated Closing of Accounts

II .Management indexes, etc.

**III**.For information purposes:

• Overview of non-consolidated and consolidated closing accounts

Overview of ADEKA Group

Core products of each business segments

#### I. Supplementary Data for consolidated Closing of Accounts **1.Consolidated Balance Sheet**

#### Consolidated

	As of Mar 31, 2018	As of Mar 31, 2019	increase/ decrease
Assets			
Current assets ①	164,953	233,087	68,134
Fixed assets	147,198	181,462	34,263
Tangible fixed assets	85,546	108,672	23,126
Intangible fixed assets	4,080	17,596	13,515
Investment and other assets	57,571	55,193	△ 2,378
Total assets	312,152	414,549	102,397
Liabilities			
Current liabilities ②	75,815	107,156	31,340
Long-term liabilities	31,248	62,893	31,645
Total liabilities	107,063	170,049	62,985
Net assets			
Shareholders' equity	178,363	190,772	12,409
Capital stock	22,944	22,944	—
Capital surplus	19,985	20,023	38
Retained earnings	135,988	148,630	12,642
Treasury stock	△ 554	△ 825	△ 271
Accumulated other comprehensive income	18,256	13,807	△ 4,448
Valuation difference on available-for-sale securities	12,002	10,098	△ 1,904
Reserve for land revaluation	4,276	4,253	△ 22
Translation adjustment	4,346	1,867	 △ 2,478
Adjustments for retirement Benefits	△ 2,368	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,…s ∆ 43
Minority interests	8,468	39,919	31,451
Total net assets	205,088	244,500	39,412
Total liabilities and net assets	312,152	414,549	102,397

#### Unit: million yen

Unit: 100 million yen

#### $\operatorname{\mathsf{POINT}}(1)$

<u>Increase in total assets</u>	1,023
Increase due to NIHON NOHYAKU	

	becoming a consolidated subsidiary	1,104
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#### POINT(2)

Increase in total liabilities	629
Increase due to NIHON NOHYAKU becoming a consolidated subsidiary	498
Increase due to the first issuance of straight bonds (Mar. 2019)	100



#### Consolidated

Unit: million yen

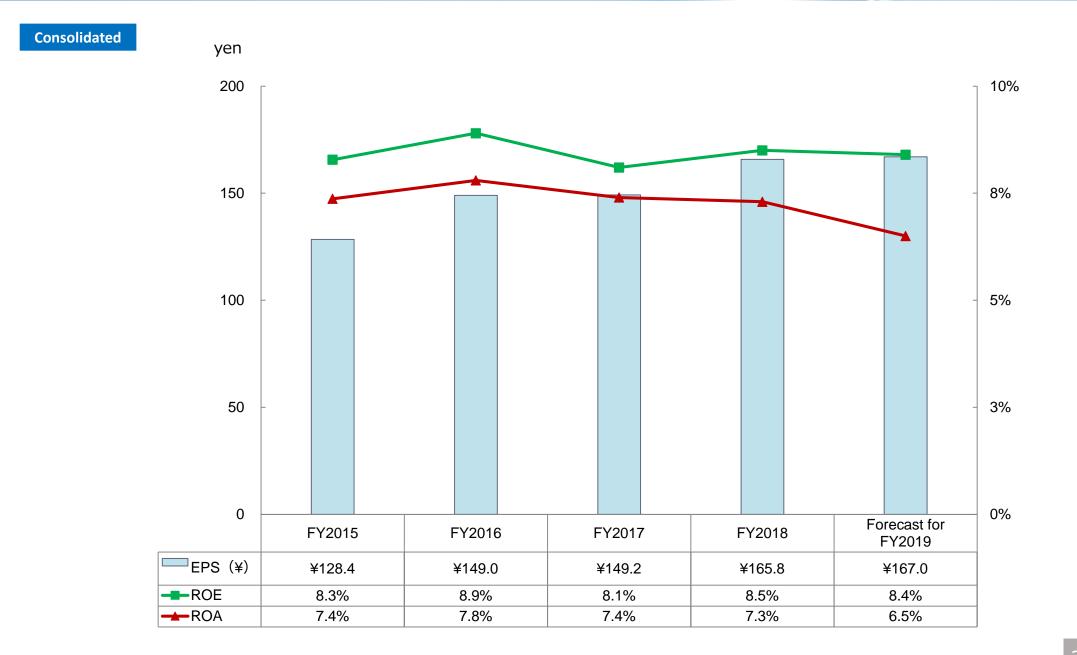
	<b>FY2017</b> from April 1, 2017 to March 31, 2018	<b>FY2018</b> from April 1, 2018 to March 31, 2019
Cash flows from operating activities $(1)$	22,221	18,331
Cash flows from investing activities	△ 19,139	△ 18,258
Cash flows from financing activities ②	△ 5,825	8,995
Effect of exchange-rate changes on cash and cash equivalents	883	△ 1,465
Net increase/decrease in cash and cash equivalents - increase)	△ 1,860	7,602
Cash and cash equivalents at the beginning of period	50,762	48,902
Cash and cash equivalents from newly consolidated subsidiaries	_	
Cash and cash equivalents at the end of period	48,902	56,504

**POINT** The main factor for the decrease in cash provided by operating activities is an increase in trade receivables.

**POINT**<sup>(2)</sup> The main factor of the increase of the cash provided by financing activities was the income gained through the issuance of corporate bonds in this consolidated FY year.

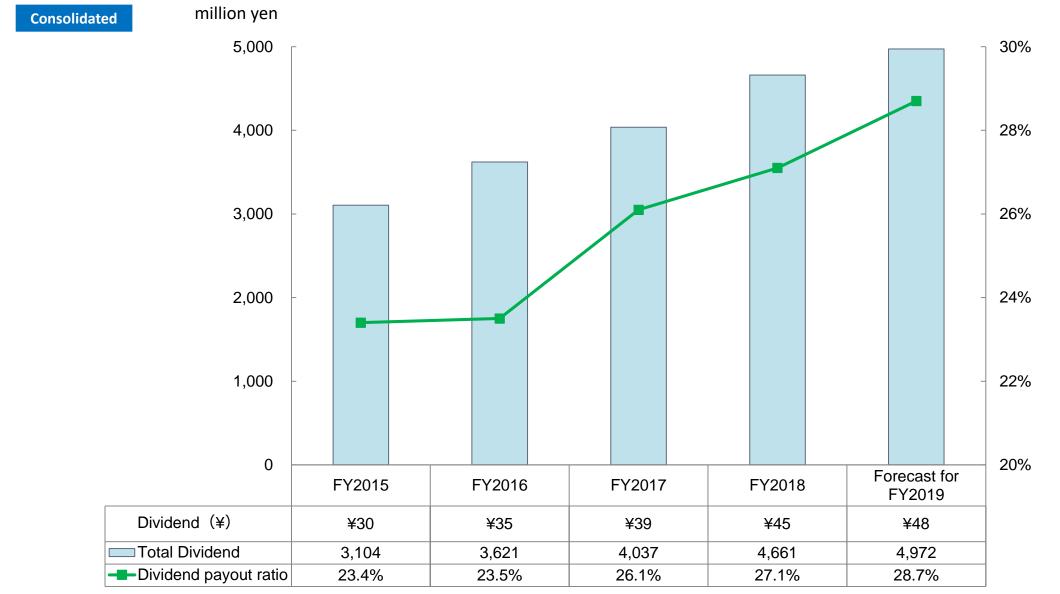


#### I. Management Indexes, etc. **1. Profitability**



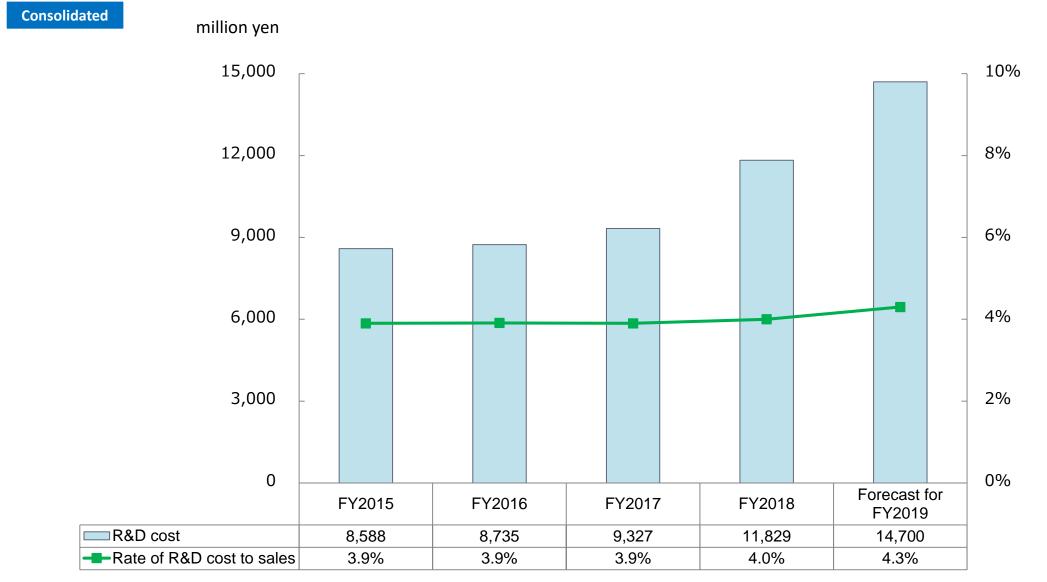


### I. Management Indexes, etc. 2. Dividend payout ratio and dividends



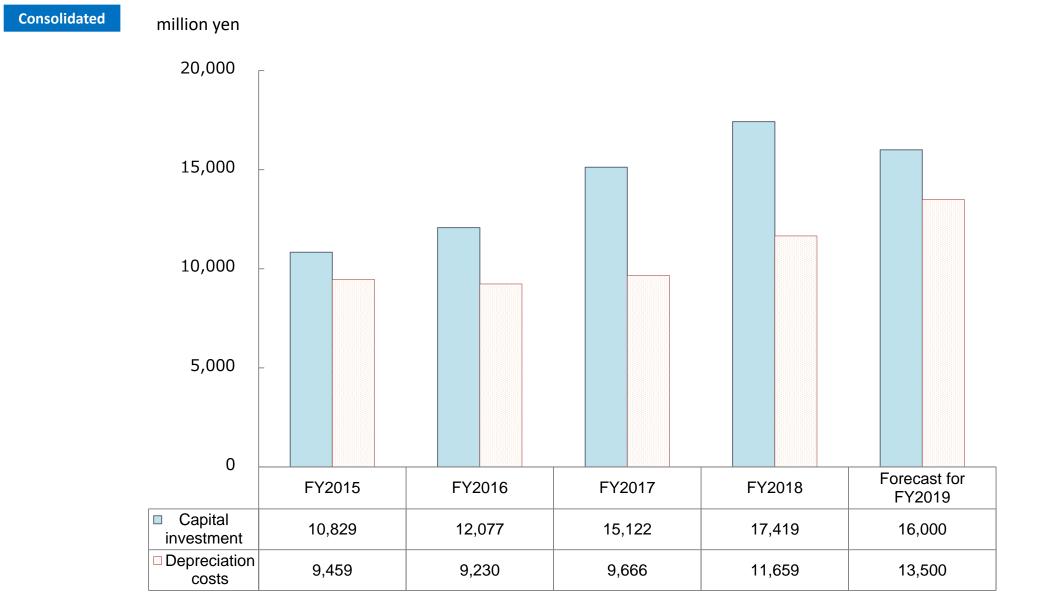
Note 1: Dividends in FY2016 include a commemorative dividend of 5 yen in commemoration of the 100th anniversary of our founding. Note 2: Figures are expressed in units of million yen and have been rounded off.

#### I. Management Indexes, etc. 3. Research and development costs



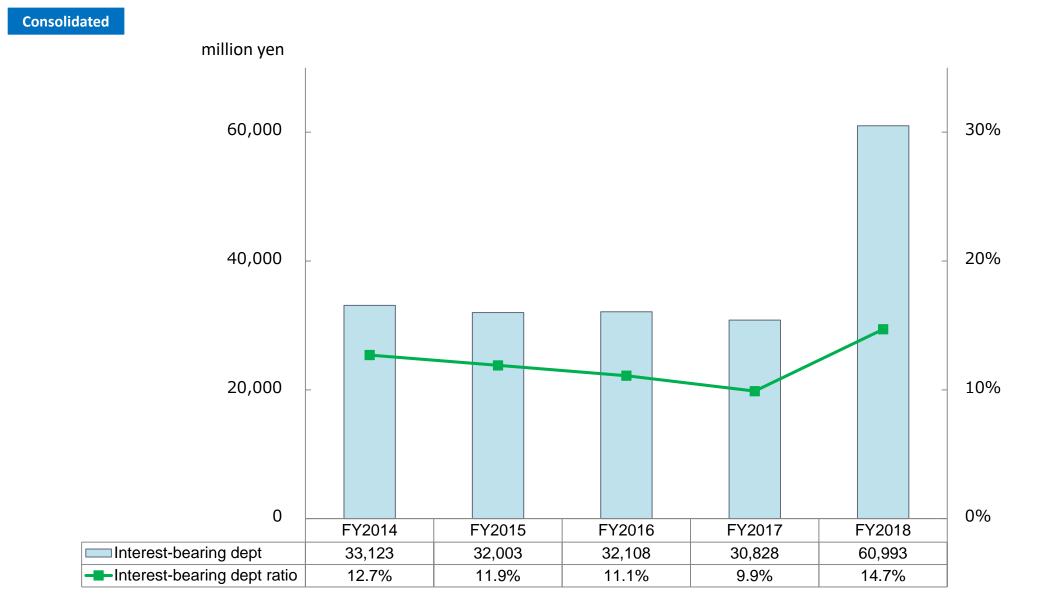
Note : Research and development expense are expressed in units of million yen and have been rounded off.

### I. Management Indexes, etc. 4. Capital investment



Note : Capital investment and depreciation are expressed in units of million yen and have been rounded off.

#### I. Management Indexes, etc. 5. Interest-bearing liabilities



Note : Liabilities with interest are expressed in units of million yen and have been rounded off.

Non-consolidated

Consolidated

Non-consolidated closing of account	
	S
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	FY2017	FY2018	Increase/ decrease	Increase/ decrease ratio : %
Sales	1,313	1,346	32	2.5
Operating profit	130	122	△ 8	△ 6.7
Current profit	154	157	3	2.1
NET profit for the Term	116	124	8	7.5
NET profit per share for the Term	112.3	120.6		

Unit:	100	million	yen
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Domestic companies (11)								
	FY2017	FY2018	Increase/ decrease	Increase/ decrease ratio : %				
Sales	879	926	46	5.3				
Operating profit	17	19	2	12.2				

Overseas companies (16)								
	FY2017	FY2018	Increase/ decrease	Increase/ decrease ratio : %				
Sales	1,294	1,579	284	22.0				
Operating profit	76	105	28	38.0				

Consolidation adjustment accounts (	deleted)
server and the server of the	

	FY2017	FY2018
Sales	△ 1,090	△ 1,229
Operating profit	△ 11	△ 21

NIHON NOHYAKU (10)							
	FY2017	FY2018	Increase/ decrease	Increase/ decrease ratio : %			
Sales	-	371	371	_			
Operating profit	-	40	40	-			

Note : Figures are expressed in units of 100 million yen and have been rounded off.

# I. For information purposes 2. Consolidated Subsidiaries - 16 companies in Japan 1 -

Segment	Consolidated subsidiary	Capital	Controlling Share : %	Line of business
Chemicals	ADEKA CHEMICAL SUPPLY CORP.	¥ 104million	100.00 (Indirect ownership: 5.57)	Sales of chemical products, and the development, manufacturing and sales of metal processing oils, etc.
Chemicals	ADEKA CLEAN AID CORP.	¥ 140million	100.00	Development and sales of kitchen detergents for commercial use, industrial detergents, etc.
Chemicals	OXIRANE CHEMICAL CORP.	¥ 600million	51.00	Manufacturing and sales of epoxy plasticizers, etc.
Food products	ADEKA FOOD SALES CORP.	¥ 42million	100.00	Sales of edible processed oils and fats for confectionary and breads, and sales of other foodstuffs, etc.
Food products	YONGO CO.,LTD.	¥ 18million	92.14	Wholesaling of ingredients for confectionery and bakery business use.
Food products	ADEKA FINE FOODS CORP.	¥ 50million	100.00	Manufacturing and sales of mayonnaise products, oil and fat processed food products and processed products using seafood.
Food products	UEHARA FOOD INDUSTRY CO.,LTD.	¥ 70million	100.00	Manufacturing and sales of flour paste products, bean-jams and retort pouch foods.
Food products	CROWN CO.,LTD.	¥ 10million	100.00	Wholesale business of food materials such as fatty oils, flour milling and flavors and processed foods.

Note : Capitals are expressed in units of million yen and have been rounded off.



### I. For information purposes 2. Consolidated Subsidiaries - 16 companies in Japan<sup>2</sup> -

Segment	Consolidated subsidiary	Capital	Controlling share : %	Line of business
Life science	NIHON NOHYAKU CO.,LTD. Note)	¥14,939million	51.00	Agrochemicals, Wood Preservative, Agricultural Materials, Pharmaceuticals & Veterinary Products
Life science	NICHINO RYOKKA CO.,LTD. Note)	¥160million	100.00 (Indirect ownership: 100.00)	Sales of Chemical/Pesticides for Professional Turf, Planning for GOLF Courses and Amenity Areas
Life science	NICHINO SERVICE CO.,LTD. Note)	¥3,400million	100.00 (Indirect ownership: 100.00)	Production and Logistic Services of Agrochemical, Cultivation & Management of Experimental Field/Laboratories
Life science	NIHON ECOTECH CO.,LTD. Note)	¥20million	100.00 (Indirect ownership: 100.00)	Agrochemical Residue Analysis, Chemical Substance Safety Testing, and Related Activities
Life science	AGRIMART CORP. Note)	¥50million	100.00 (Indirect ownership: 100.00)	Sales of Termite Control Agents/Devices, Pest Control Agents/Devices
Others	ADEKA LOGISTICS CORP.	¥ 50million	100.00	General and principal contracting of logistics for the company, warehousing, leasing of vehicles, etc.
Others	ADEKA ENGINEERING & CONSTRUCTION CORP.	¥ 130million	100.00	Design, construction, and construction supervision of facility plants, and facilities maintenance.
Others	ADEKA LIFE-CREATE CORP.	¥ 65million	100.00 (Indirect ownership: 20.00)	Trading, brokerage and management of real estate, property and life insurance agency, sales in the OA equipment area, and management of buildings and company-owned apartments

Note 1: NIHON NOHYAKU and its nine subsidiaries have been included in the scope of consolidation because of share acquisition. Note 2: Capitals are expressed in units of million yen and have been rounded off.



### II. For information purposes **3. Consolidated Subsidiaries - 21overseas companies** 1 -

Country	Segment	Consolidated subsidiary	Capital	Controlling Share : %	Line of business
U.S.	Chemicals	ADEKA USA CORP.	US\$1 million	100.00	Sales of chemical products.
U.S.	Chemicals	AMFINE CHEMICAL CORP.	US\$16 million	60.00	Manufacturing and sales of polymer additives.
U.S.	Chemicals	AM STABILIZERS CORP.	US\$8.5 million	100.00 (Indirect ownership: 100.00)	Manufacturing and sales of polymer additives.
U.S.	Life science	NICHINO AMERICA, INC. Note)	US\$0.7million	100.00 (Indirect ownership: 100.00)	Sales and R&D of agrochemicals in America
BLAZIL	Life science	SIPCAM NICHINO BRASIL S.A. Note)	R\$223million	50.00 (Indirect ownership: 50.00)	Production and sales of agrochemicals in Blazil
GERMANY	Chemicals	ADEKA Europe GmbH	€0.5 million	100.00	Sales of chemical products.
FRANCE	Chemicals	ADEKA POLYMER ADDITIVES EUROPE SAS	€3million	100.00 (Indirect ownership: 100.00)	Manufacturing and sales of polymer additives.
CHINA	Chemicals	ADEKA (CHINA) CO., LTD.	US\$31 million	100.00	Sales of chemical products.
CHINA	Chemicals	ADEKA FINE CHEMICAL (SHANGHAI) CO., LTD.	US\$20.50million	100.00	Manufacturing and sales of polymer additives, functional resins, electronic materials and similar products.
CHINA	Chemicals	ADEKA FINE CHEMICAL (CHANGSHU) CO., LTD.	US\$21.54million	50.00	Manufacturing and sales of polymer additives.
CHINA	Food products	ADEKA FOODS (CHANGSHU) CO., LTD.	US\$23 million	70.00	Manufacturing and sales of processed oils and fats, processed foods.

Note: NIHON NOHYAKU and its nine subsidiaries have been included in the scope of consolidation because of share acquisition.



#### II. For information purposes **3. Consolidated Subsidiaries - 21overseas companies** 2 -

Country	Segment	Consolidated subsidiary	Capital	Controlling Share : %	Line of business
TAIWAN	Chemicals	CHANG CHIANG CHEMICAL CO., LTD.	NT\$30 million	50.50	Sales of polymer additives and plasticizers .
TAIWAN	Chemicals	ADEKA FINE CHEMICAL TAIWAN CORP.	NT\$200 million	100.00	Manufacturing and sale of chemical products.
TAIWAN	Life science	TAIWAN NIHON NOHYAKU CO.,LTD Note)	NT\$40million	51.00 (Indirect ownership: 51.00)	Sales and R&D of agrochemicals in Taiwan
INDIA	Life science	NICHINO INDIA PVT. LTD. Note)	₹3.27million	99.94 (Indirect ownership: 99.94)	Production, sales and R&D of agrochemicals in India
INDIA	Life science	NICHINO CHEMICAL INDIA PVT. LTD. Note)	₹10.5million	100.00 (Indirect ownership: 100.00)	Production and sales of agrochemicals in India
SOUTH KOREA	Chemicals	ADEKA KOREA CORP.	₩1.5 billion	100.00	Manufacturing and sale of chemical products.
THAILAND	Chemicals	ADEKA FINE CHEMICAL (THAILAND) CO.,LTD.	₿ 350 million	81.00	Manufacturing and sale of chemical products.
SINGAPORE	Chemicals	ADEKA (ASIA) PTE.LTD.	US\$ 0.8 million	100.00	Sales of chemical products.
SINGAPORE	Food products	ADEKA (SINGAPORE) PTE.LTD.	S\$8 million	90.00	Manufacturing and sales of processed oils and fats, frozen piecrusts and related food products.
Malaysia	Food products	ADEKA FOODS (ASIA) SDN.BHD.	RM90million	60.00	Manufacturing and sales of processed oils and fats.

Note: NIHON NOHYAKU and its nine subsidiaries have been included in the scope of consolidation because of share acquisition.



# II. For information purposes 4. Equity method - applicable companies -

Two equity method-applicable companies	Capital	Controlling Share : %	Line of business
CO-OP CLEAN CO., LTD.	¥80 million	46.88	Development and sales of soap, detergents and similar products.
SHOWA KOSAN CO.,LTD.	¥550 million	20.81	Sale of synthetic resins, chemical products, industrial materials, electronic materials and environmental concerns.
AGRICULTURAL CHEMICALS (MALAYSIA) SDN. BHD. Note)	MYR2.05million	24.18 (Indirect ownership: 24.18)	Production and sales of agrochemicals in Malaysia
SIPCAM EUROPE S.P.A. Note)	€36.94million	20.00 (Indirect ownership: 20.00)	Production and sales of agrochemicals in Europe

Note: NIHON NOHYAKU was removed from equity method-applicable companies because of the share acquisition, and AGRICULTURAL CHEMICALS (MALAYSIA) SDN. BHD. and SIPCAM EUROPE S.P.A. have been added.



### **II.** For information purposes **5.** Core products of each business segments

Business category		Core products		
Reporting segment Food products		Polymer Additives	Additives for polyolefins, PVC plasticizers/stabilizers, Flame retardants, and others.	
	Chemicals	Electronics and IT materials	High-purity materials for semiconductors, AFES System and etching agents, Photo(Light)/heat curing materials, photoinitiators, Imaging materials, and others.	
		Functional Chemicals	Epoxy resins, Polyurethanes, Water-borne resins, Surfactants, Lubricant additives, Kitchen detergent, Cosmetic ingredients, Polypropylene glycol, Hydrogen peroxide and derivative products, Water-swelling sealing materials, and others.	
	Food products	Margarines, Shortenings, Oil and fats for chocolate, Oils and fats for frying, Whipping cream, Enriched milk products, Fillings, Frozen pie crusts, Mayonnaise dressing, functional foods, and others.		
	Life science	Agrochemicals, Agricultural materials, Pharmaceuticals & Veterinary products, Wood preservative, and others.		
Other business Designing of equipment plants, Construction and construction management, Maintenar Other business equipment, Logistic services, Warehousing, Leasing of vehicles, Real estate and insurance business, and others.		services, Warehousing, Leasing of vehicles, Real estate and insurance		



The forecast performance and business plans specified in this document have been prepared based on information available as of the date of publication, as well as on various prerequisites; therefore, the actual results may differ from these forecasts or plans depending on various factors that may arise hereafter.