"Performance" Through Chemistry

A Statement of Accounts For the Six Months Ended September 30, 2014 1st Half Fiscal Year 2014 (1H-FY2014)

# SANYO CHEMICAL INDUSTRIES, LTD. Takao Ando, President

http//:www.sanyo-chemical.co.jp/ Code: 4471





#### <<u>Notice</u>>

Yen amounts described in this presentation material are rounded down. Ratios described in this presentation material are rounded off.

#### < Cautionary Statement with Respect to Forward-Looking Statement>

This presentation material contains projections based on the assumptions, forward-looking statements and plans about the future of SANYO CHEMICAL INDUSTRIES, LTD. as of November 13, 2014. Actual performance results may vary significantly due to a variety of factors affecting the sphere of business that include but are not limited to: the world economy, competitive position, and fluctuations in the exchange rate, raw material costs, and others.

Please Contact	
Public Relations [	Dept.
SANYO CHEMIC	AL INDUSTRIES, LTD.
TEL	+81-75-541-4312
FAX	+81-75-551-2557
E-mail	pr-group@sanyo-chemical.com



### Corporate Data

Date of Establishment: November 1, 1949

Head Office: Higashiyama-ku, Kyoto

Capital: ¥13,051 million

Domestic Sales & Marketing Offices:

Tokyo, Osaka, Nagoya, Hiroshima, Fukuoka, Toyama

**Domestic Factories:** 

Nagoya, Kinuura, Kashima, Kyoto, Kawasaki (San Chemical)

Consolidated Number of Employees:

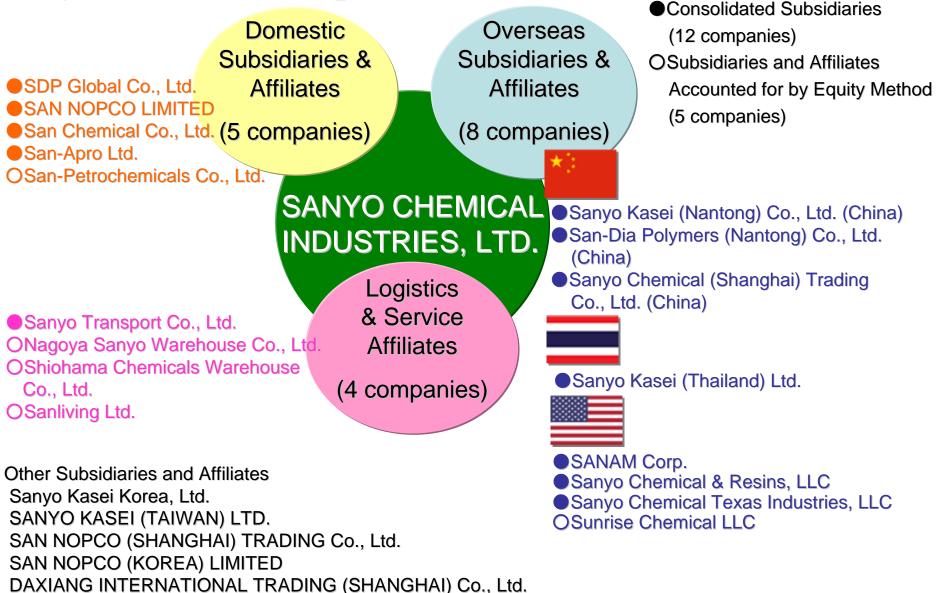
1,964 (as of September 30, 2014)

Line of Business:

Manufacture & sales of approx. 3,000 types of performance chemicals



# Sanyo Chemical Group





# **Domestic Production Bases**



Kyoto Factory, Head Office and Research Laboratory (Higashiyama-ku, Kyoto) Area: approx. 26,000 m<sup>2</sup>



Kashima Factory (Kamisu, Ibaraki) Area: approx. 130,000 m<sup>2</sup>



Nagoya Factory (Tokai, Aichi) Area: approx. 100,000 m<sup>2</sup>



Kinuura Factory (Handa, Aichi) Area: approx. 140,000 m<sup>2</sup>

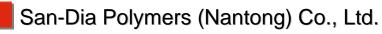


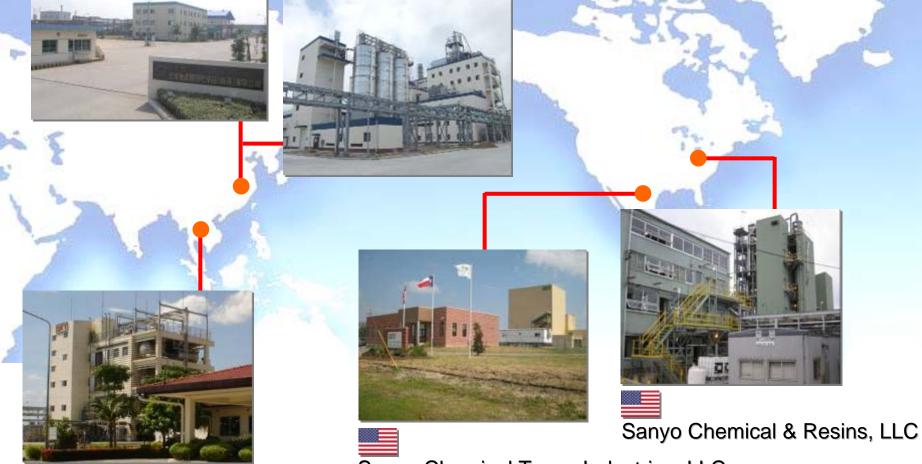
San Chemical Co., Ltd. Kawasaki Factory (Kawasaki, Kanagawa) Area: approx. 11,000 m<sup>2</sup>



# **Overseas Production Bases**

Sanyo Kasei (Nantong) Co., Ltd.





Sanyo Kasei (Thailand) Ltd.

Sanyo Chemical Texas Industries, LLC



## **Overseas Sales Office**

Sanyo Chemical (Shanghai) Trading Co., Ltd. SAN NOPCO (SHANGHAI) TRADING Co., Ltd.



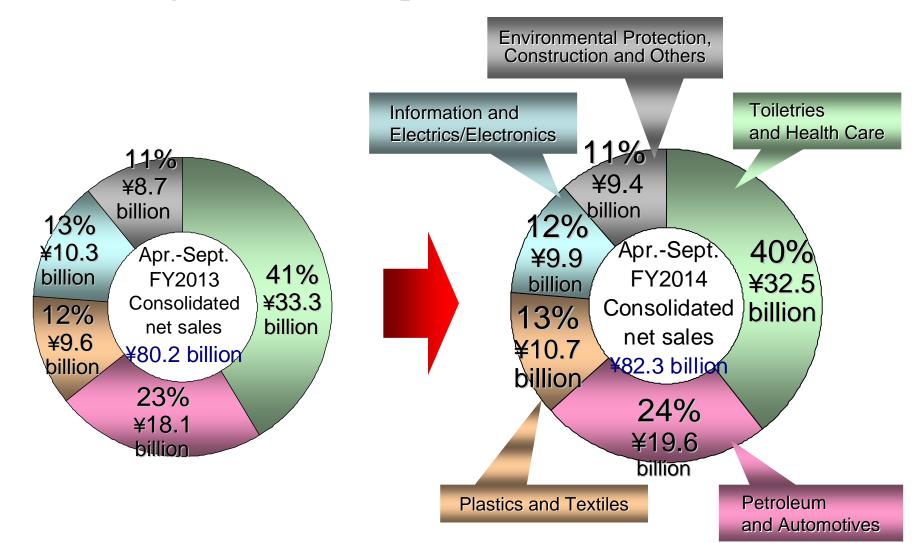


# Principal Products by Product Group

Class.	Sub- Category	Principal Products
Toiletries	Toiletries	Surfactants for Detergents, Surfactants for Hair Care Products, Agents for Papermaking
and Health Care	Health Care	Superabsorbent Polymers (SAPs), Base Materials for Pharmaceuticals, Germicides/Disinfectants, Surgical Hemostatic Agent, EIA Diagnostic Reagents, Potting Resins for Artificial Kidneys
Petroleum and Automotives		Thermoplastic Polyurethane Beads for the Interior Parts of Automobiles (TUBs), Raw Materials for Polyurethane Foams (PPG), Lubricating Oil Additives, Additives for Fuel Oils, Water-Soluble Cutting Fluids, Halogen-Free Cleaning Agents, Base Materials for Synthetic Lubricants, Paste Resins for Design Models, Resins for Automobile Paints
Plastics and	Plastics	Permanent Antistatic Agents, Pigment Dispersants, Resin Modifiers, Base Materials for Polyurethane Elastomers, Paint Resins, Chemical Boards for Models
Textiles	Textiles	Agents for Textile Manufacturing, Chemicals for Carbon Fibers, Agents for Fiberglass, Polyurethane Resins for Synthetic Leather
Information	Information	Polyester Beads (PEBs) Used as a Core Component of Polymerization Toners, Toner Resins
and Electrics /Electronics	Electrics /Electronics	Electrolytes for Aluminum Electrolytic Capacitors, Electrolytes for Electric Double-Layer Capacitors, Adhesive for Electronic Parts, Agents for Use in Electronic Parts Manufacturing, UV/EB Curing Resins
Environmental Construction a		Polymer Flocculants for Wastewater Treatment, PPG for Furniture and Heat Insulating Materials, Slurry Agents, Reactive Hot-Melt Adhesives, Raw materials for Building Sealants, Cement Agents



### Net Sales by Product Group



### **Results of Operations for 1H-FY2014**

(Billions of yen)

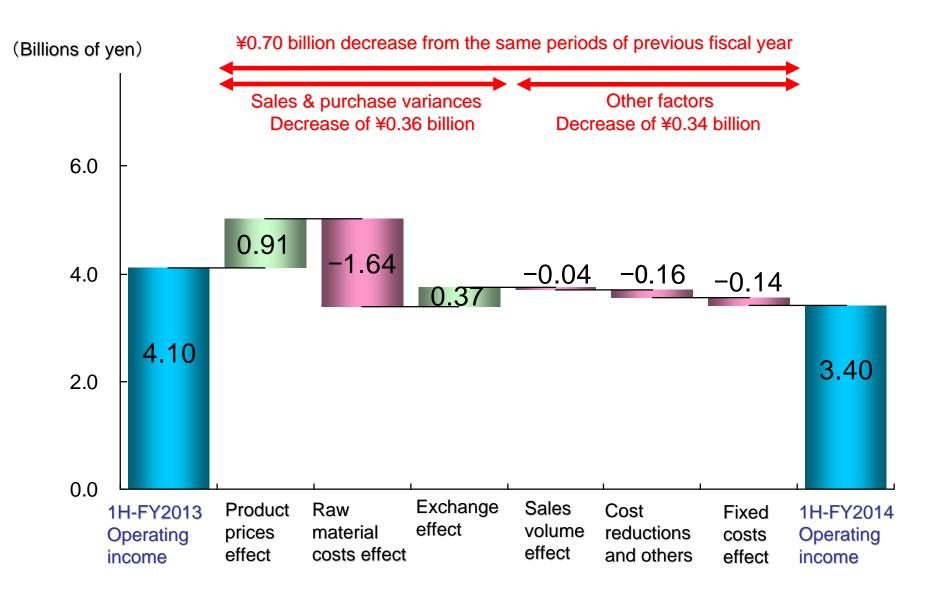
Concolidated	Apr	Sept.	Year on Year Change		
Consolidated	FY2013	FY2014	Amount	Ratio (%)	
Net sales	80.23	82.31	2.08	3	
Operating income	4.10	3.40	(0.70)	(17)	
Ordinary income	5.05	3.83	(1.22)	(24)	
Net income	2.93	2.27	(0.65)	(22)	
Comprehensive income	6.97	2.46	(4.50)	(65)	

(Billions of yen)

Non consolidated	Apr	Sept.	Year on Year Change		
Non-consolidated	FY2013	FY2014	Amount	Ratio (%)	
Net sales	49.25	51.58	2.33	5	
Operating income	1.71	1.30	(0.41)	(24)	
Ordinary income	2.84	2.38	(0.45)	(16)	
Net income	2.11	1.73	(0.38)	(18)	



### **Change in Consolidated Operating Income**



### Change in Consolidated Net Income

(Billions of yen)

	Apr	Year on Year	
	FY2013	FY2014	Change
Operating income	4.10	3.40	(0.70)
Equity in earnings of unconsolidated subsidiaries and affiliates	0.15	0.33	0.17
Gain or loss on foreign exchange	0.39	0.07	(0.31)
Other non-operating profit and loss	0.40	0.01	(0.38)
Ordinary income	5.05	3.83	(1.22)
Gain and Loss on disposal/sales of property, plant and equipment	(0.29)	(0.32)	(0.03)
Other extraordinary income or loss	0.02	0.01	(0.01)
Income before income taxes and minority interests	4.78	3.52	(1.26)
Income taxes, etc.	(1.40)	(0.94)	0.45
Minority interests	(0.44)	(0.29)	0.15
Net income	2.93	2.27	(0.65)



### **Consolidated Balance Sheet**

(Billions of yen)

	Mar. 31 2014	Sept. 30 2014	Changed amount	Main Change Factor*
Current assets	81.2	82.6	1.3	Cash and deposits: 0.4, Notes and accounts receivable-trade: 0.1, Inventories: 0.1
Fixed assets	85.2	84.5	(0.7)	Property, plant and equipment: (1.8) Investment securities: 1.3
Assets	166.5	167.1	0.6	
Current liabilities	53.8	52.6	(1.2)	Notes and accounts payable-trade: 0.9,Short-term debt: (1.1), Income taxes payable: (0.4)
Long-term liabilities	8.7	8.7	0.0	Long-term debt: 0.5, Net defined benefit liability: (1.0),Deferred tax liabilities: 0.7
Liabilities	62.6	61.4	(1.1)	
Shareholder's equity	89.9	91.7	1.8	Net income: 2.2, Cash dividends paid: (0.8)
Other comprehensive income	9.2	9.3	0.1	Unrealized gains on other securities: 0.8, Foreign currency translation adjustment: (0.8)
Minority interests	4.7	4.6	(0.1)	
Net assets	103.9	105.7	1.8	
Total Liabilities and net assets	166.5	167.1	0.6	

\* Each figure indicates the changed amount.



### **Consolidated Cash Flows**

(Billions of yen)

	AprSept. FY2013 FY2014		Changed amount	Main Change Factor*
Operating activities	7.7	5.7	(2.0)	
Income before income taxes and minority interests		3.5	(1.2)	
Depreciation and amortization	4.5	4.6	0.0	
Equity in earning of unconsolidated subsidiaries and affiliates	(0.1)	(0.3)	(0.1)	
(Increase) decrease in operating capital	0.2	0.3	0.0	
Income taxes	(1.1)	(1.3)	(0.1)	
Others	(0.5)	(0.9)	(0.4)	
Investing activities	(4.7)	(3.7)	0.9	
Free cash flows	3.0	2.0	(1.0)	
Financing activities	(2.0)	(1.2)	0.7	(1H in FY2014) Loans, Repayment: (0.2), Cash dividends paid: (0.8)
Effect of exchange rate changes on cash and cash equivalents	0.3	(0.3)	(0.6)	
Increase (decrease) in cash and cash equivalents	1.3	0.4	(0.8)	
Cash and cash equivalents at beginning of period	10.1	15.4	5.3	
Cash and cash equivalents at end of period	11.4	15.9	3.6	

\* Each figure indicates the changed amount.

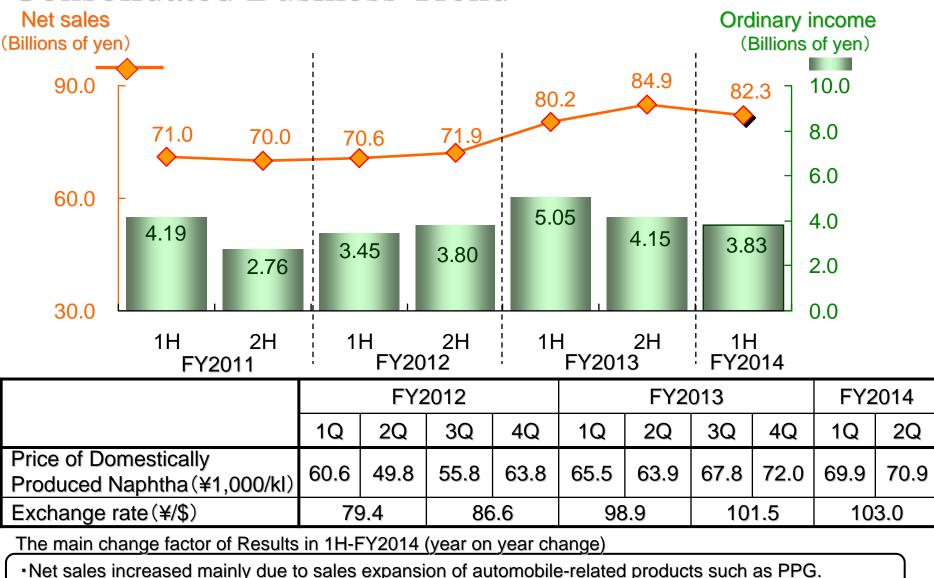


### Forecast for FY2014

(Billions of yen)								
Consolidated	FY2014 Ann	ual	Ар	rSept. FY2014		FY2013 Annual		
Consolidated	Forecast		Result	Progress to For	ecast(%)	Result		
Net sales	172.0	0	82.31		48	165.18		
Operating income	8.8	0	3.40		39	8.11		
Ordinary income	10.0	0	3.83		38	9.21		
Net income	6.0	0	2.27	38		4.91		
Non-	FY2014 Ann	Annual AprSept. FY2014		FY2013 Annual				
consolidated	Forecast		Result	Progress to Forecast(%)		Result		
Net sales	105.0	0	51.58		49	102.14		
Operating income	3.5	0	1.30		37	3.21		
Ordinary income	5.5	0	2.38		43	5.36		
Net income	4.0	0	1.73		43	(0.26)		
			recondition*	1H-FY2014	2H-FY2	014(Forecast)		
Price of Domestically Produced Naphtha(¥1,000/kl)			67.0	70.4 ~		∕60.0 <b>~</b>		
Exchange rate (¥/\$)	)		102.0	103.0	~	~110~		

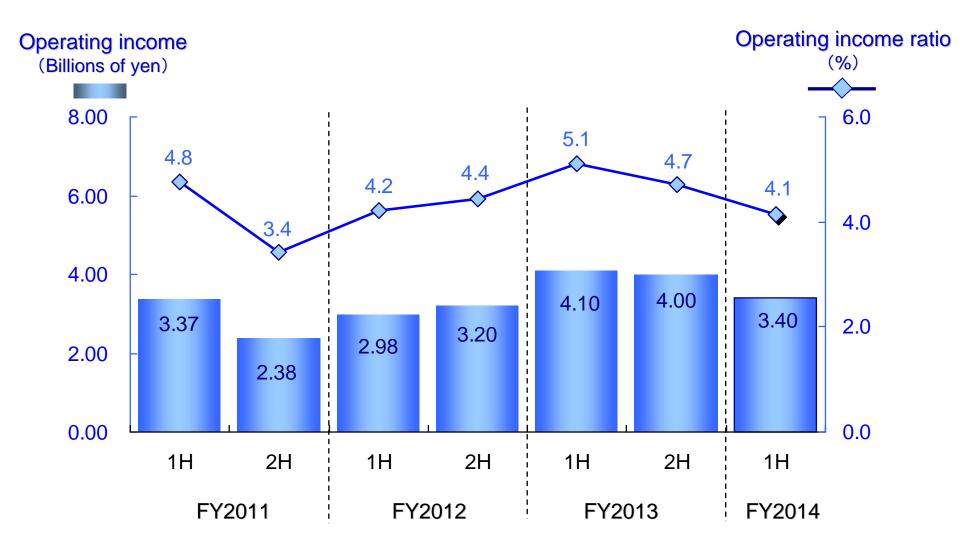
\* Each figure indicates at the beginning of the period

# **Consolidated Business Trend**



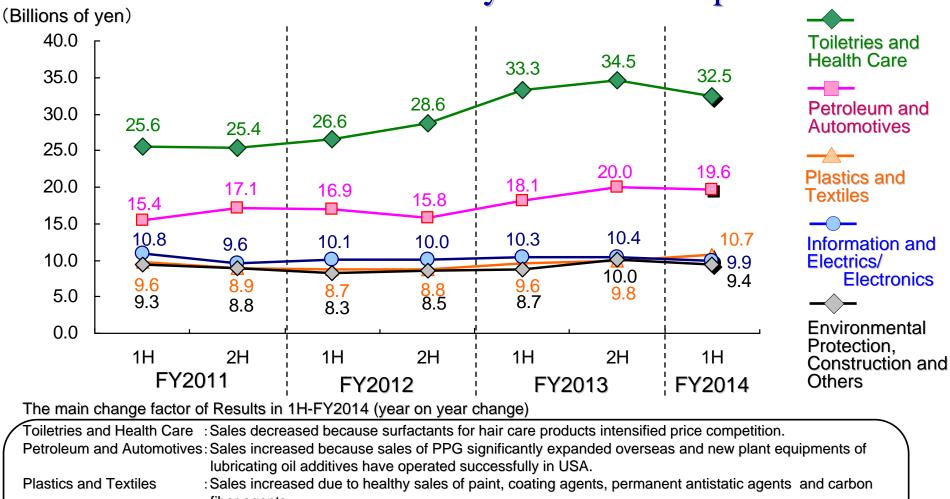
 Ordinary income decreased mainly because raw material and fuel costs were higher than ones of the same period of the previous fiscal year and exchange gain decreased.

### **Consolidated Operating Income Trend**





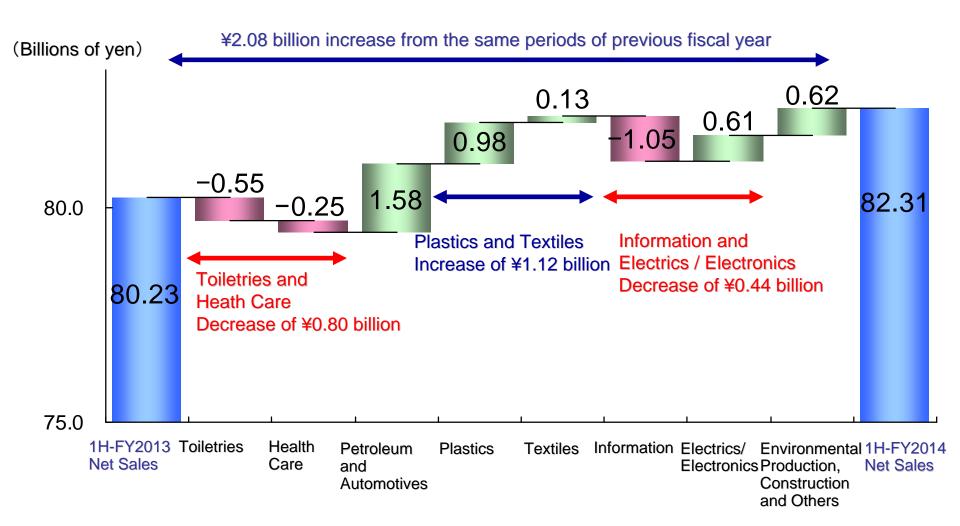
# Consolidated Net Sales Trend by Product Group

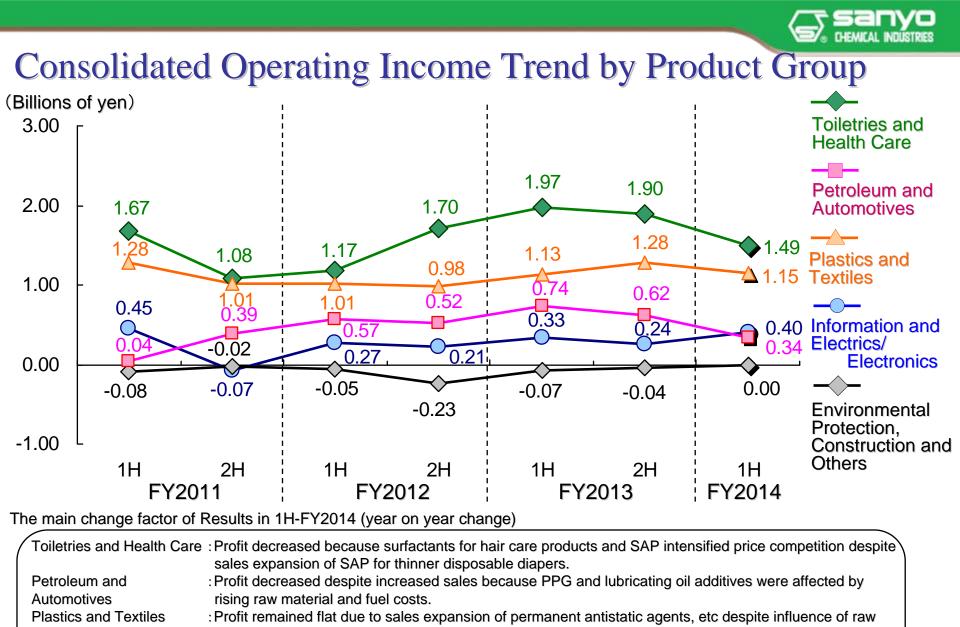


Environmental Protection, : Sales increased due to brisk sales of raw materials for building sealants and for polyurethane foams used in furniture and heat insulating materials despite weak sales of polymer flocculant.



### Change in Consolidated Net Sales by Product Group

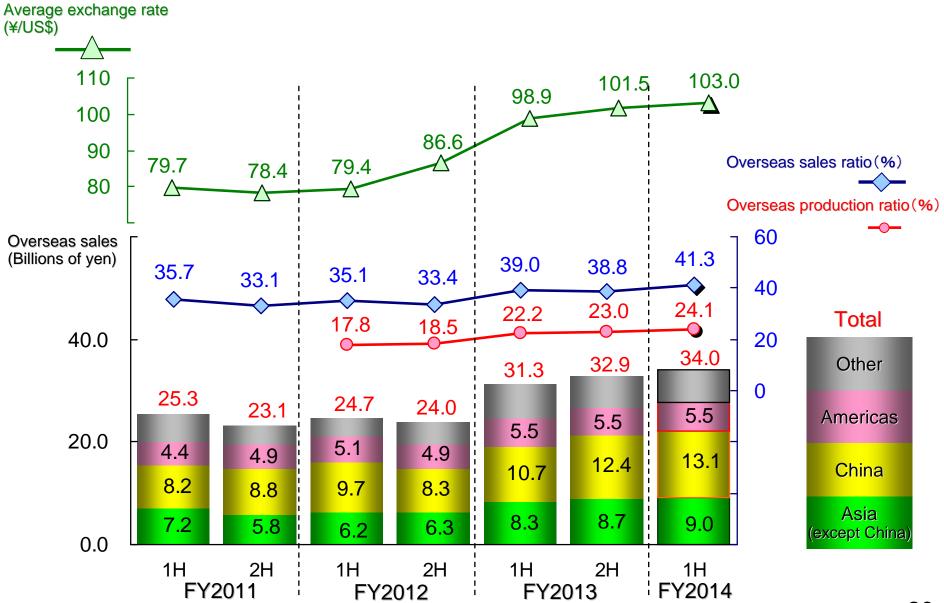




Environmental Protection, : Deficit was reduced due to brisk sales of raw materials for building sealants and for polyurethane foams Construction and Others used in furniture and heat insulating materials.



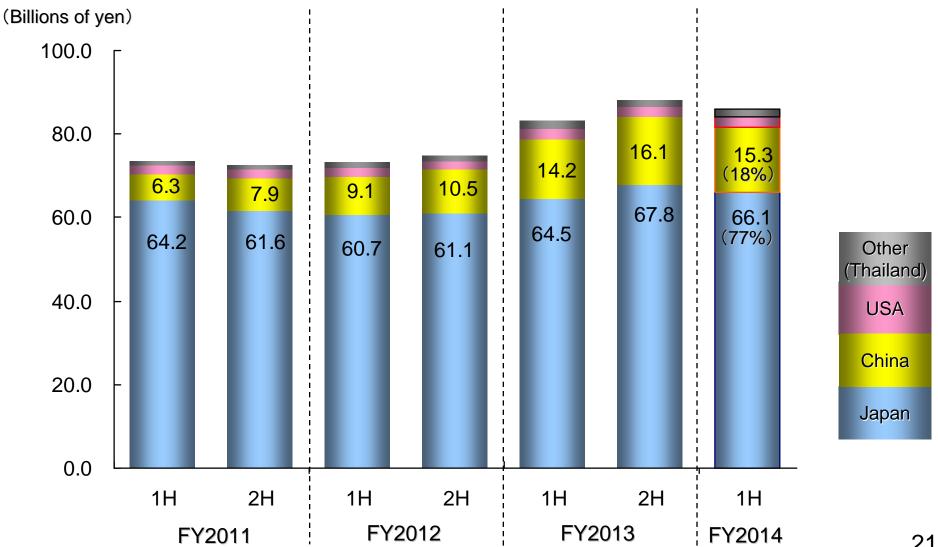
### **Consolidated Overseas Sales Trend**





### **Consolidated Net Sales Trend by Geographic Segments**

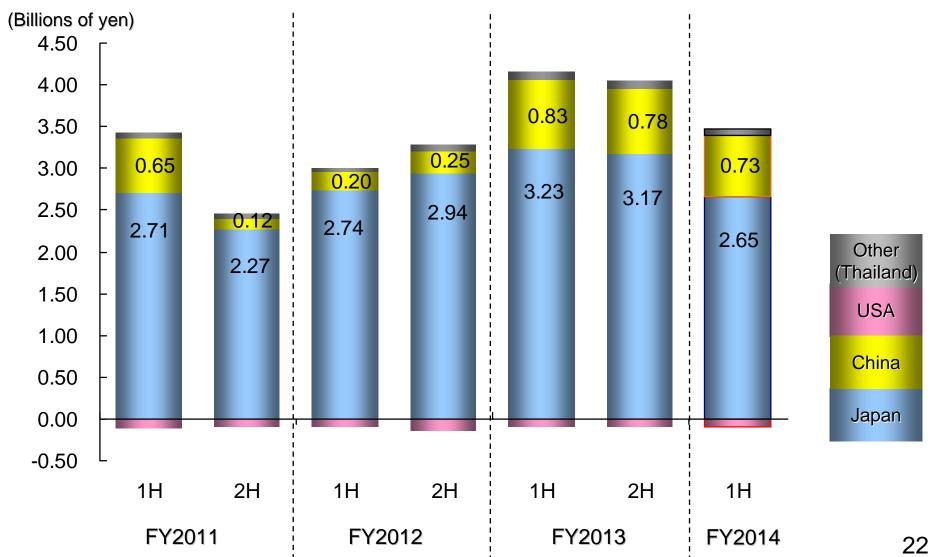
Internal sales among Sanyo Chemical Group are not eliminated.





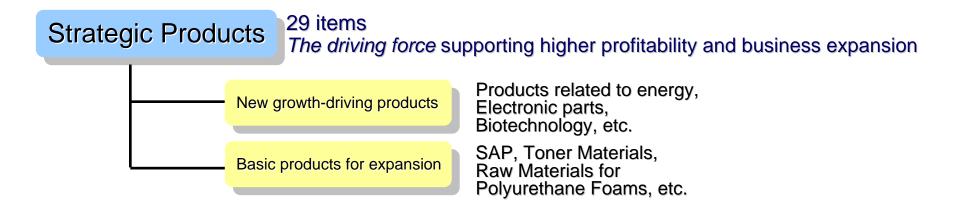
### Consolidated Operating Income Trend by Geographic Segments

Internal sales among Sanyo Chemical Group are not eliminated.





### **Strategic Products**

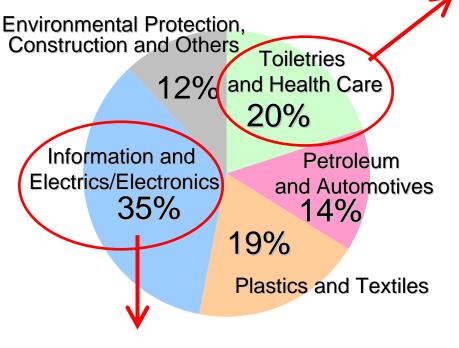


(Billions of yen)

	FY2	012	FY2	FY2014	
	1H Annual		1H	Annual	1H
Toiletries and Others	1.2	4.6	3.8	8.5	5.2
Automotives	5.2	13.5	7.5	15.4	8.0
Information and Electrics / Electronics	5.7	11.6	5.5	11.2	5.2
Strategic products total	12.2	29.7	16.8	35.2	18.4

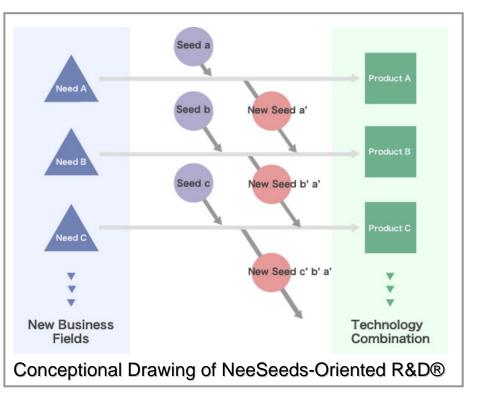
# Allocation of R&D Capabilities

### Allocation of R&D Capabilities



Of which 10% is energy business field and 12% is electronics business field

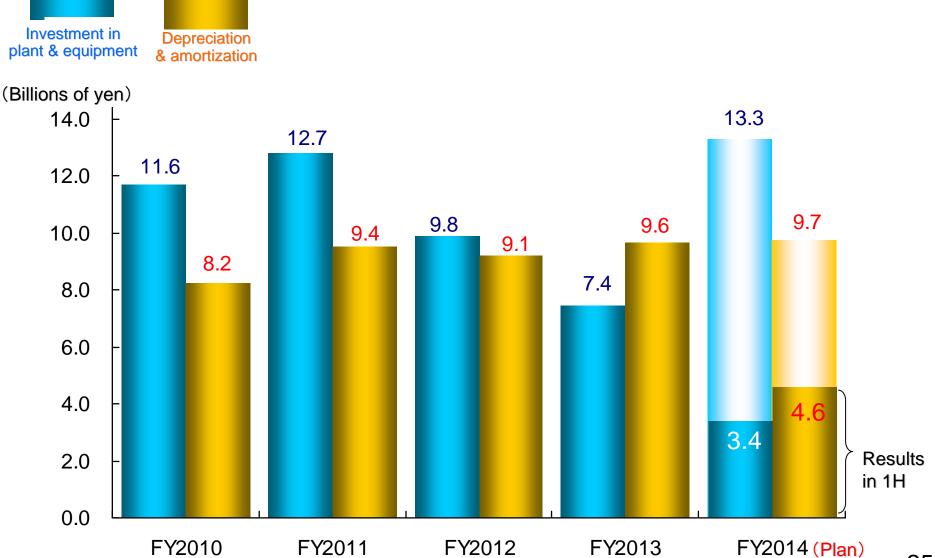
# Of which 10% is biotechnology and medical business field



We assign more than 30% of our R&D capabilities to energy, electronics, biotechnology and medical business fields which are the growing fields, and accelerate R&D.



# Consolidated Investment in Plant & Equipment, and Depreciation & Amortization



# Major Investments in Plant and Equipment

(Billions of yen				
	FY2013	FY2014 (Plan)		
Investment in Plant & Equipment	7.4	13.3		
Depreciation & Amortization	9.6	9.7		

\*Notes:

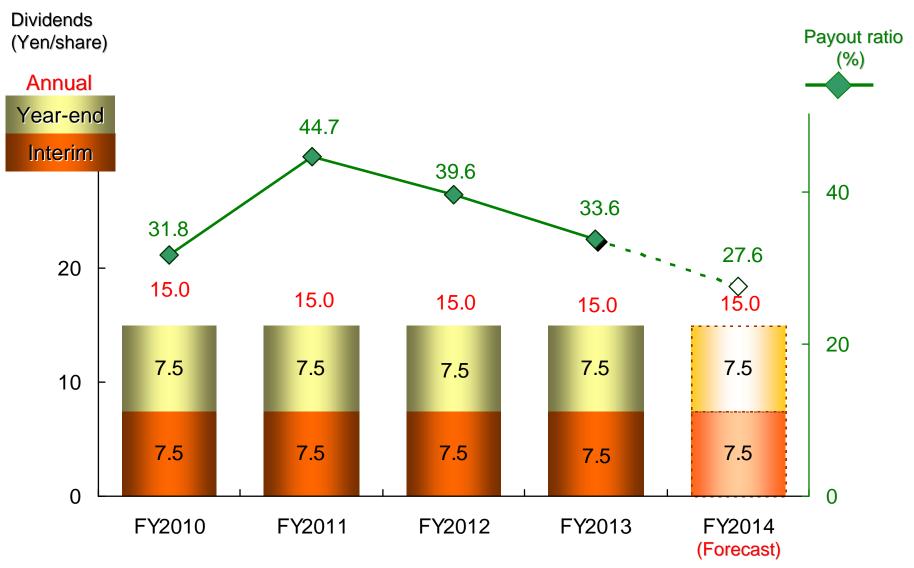
SDN: San-Dia Polymers (Nantong) Co., Ltd. SKN: Sanyo Kasei (Nantong) Co., Ltd. SKT: Sanyo Kasei (Thailand) Ltd.

(Billions of yen)

			Fiscal Year in Operation	Total Investment
Non- consolidated		Introduction of a SAP system to manage the operation of overseas subsidiaries	2013-14	0.4
		Production facilities for adhesive for electronic parts	2015	0.2
		Renovation work of new production office (Kyoto factory)	2015	0.1
	SDN	SAP Production facilities	2015	5.4
Sub- sidiaries*	SKN	Lubricating oil additives production facilities	2015	0.2
	SKT	Organic synthesis production facilities Technical center	2014 2014	0.1 0.1



### Consolidated Dividends per Share & Payout Ratio Trend





# Topics (1) Our Differentiation Strategies

Reinforcing technology development capability

New technology development utilizing established technologies (seeds)

Expansion of core business (upgrading) Expansion of core business with valuing quality before quantity SG-SAPs, lubricating oil additives for engine oils, polyoxypropylene polyols

Developing new business fields Business development into the growing market

Products related to energy, Electronic parts,

Biotechnology, etc.

R&D activities based on both the upgrading of established business and developing new business fields with technological development capabilities as the driving force.

# Topics (2) Boosting production capacity of high-performance polyoxypropylene polyols\*

\*This product is also used as PPG

- Location : Kinuura factry
- ■Production capacity: 4,400t/y(Current)⇒7,200t/y(After expansion)
  ■Scheduled completion date: April 2015

[Our PPG Business]

- •We have an approx. 30% share of the Japanese market (70 billion yen industry).
- •We continue to gradually boost production capacity of the pilot plant for polypropylene polyols using new manufacturing technology.

What is PPG?

- Raw materials for polyurethane foams (PPG) are used for automobile interior materials, cushioning materials for furniture, heat insulating materials, building sealants and coating film waterproof materials.
- -Global cost competition intensifies.
- PPG is expected to grow at a 1-4% annual rate in the world. (Slight deceleration of growth in FY2014.) (PPG grows at a 5-8% annual rate in China and markets in Japan and Korea are saturated.)



AOA plant at the Kinuura Factory to boost production capacity of the pilot plant

# Topics (2) Boosting production capacity of high-performance polyoxypropylene polyols

### Features of high-performance polyoxypropylene polyol PRIMEPOL

- It inhibits the generation of by-products and reduces the deterioration of properties. Polyurethane foams using it have lower density than conventional ones while maintaining equivalent strength.
- This product exhibits high reactivity in a urethanization reaction.
- A side reaction with the moisture in the air is hardly induced.



- ⇒ Improving durability of polyurethane foams
- ⇒ Contributing to weight saving



Using high-performance polyoxypropylene polyol



Using conventional polyoxypropylene polyol

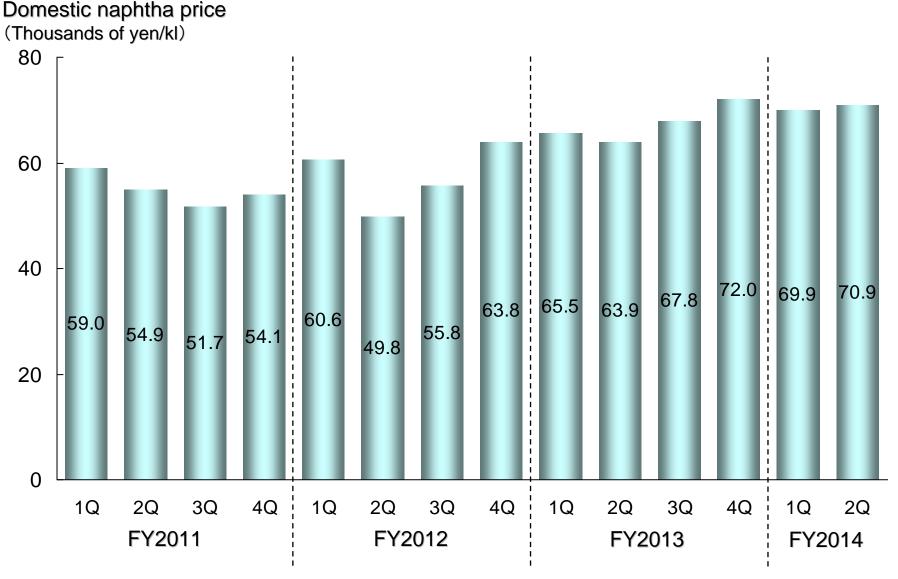
- ⇒ Shortening the executing time
- ⇒ Improving hydrophobicity
- ⇒ Preventing from blistering (cf. the upper right picture)

In 2013, we received the Award of the Society of Polymer Science, Japan For the technological development and industrialization of high-productivity and high-quality polyether polyol using new manufacturing technology.



# Reference

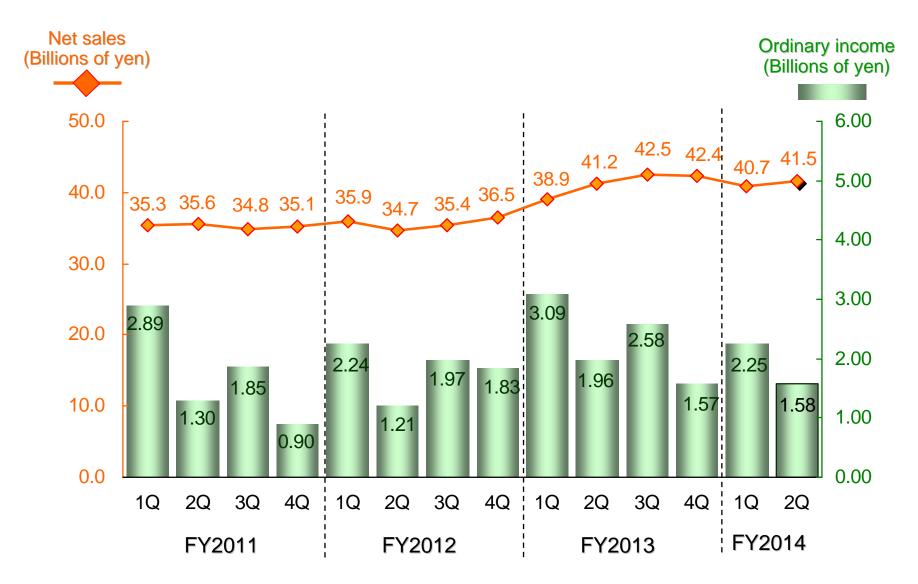
# Transition of Price of Domestically Produced Naphtha



(Ref.-1)

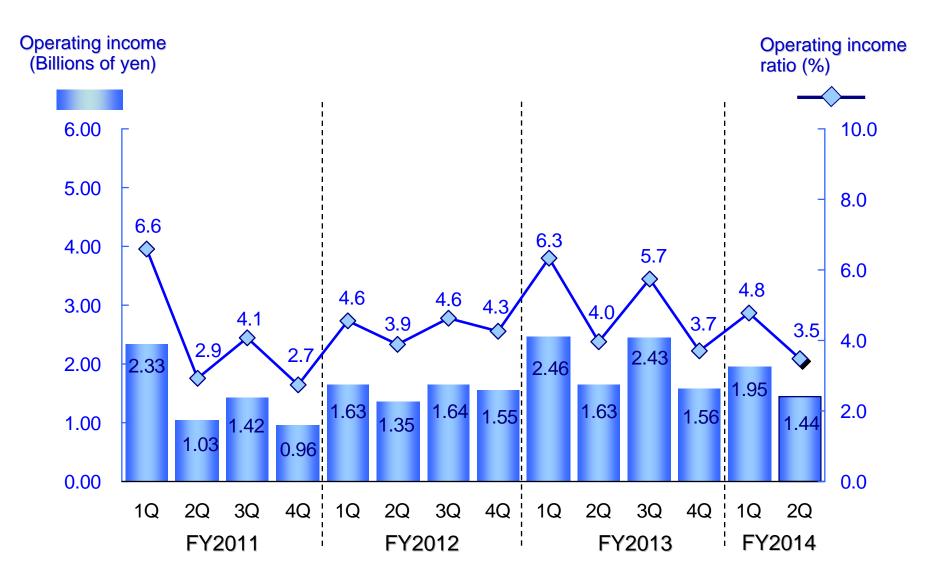


### **Consolidated Business Result Trend**



(Ref.-2)

### **Consolidated Operating Income Trend**



(Ref.-3)



# Results of Operations by Product Group for 1H in FY2014

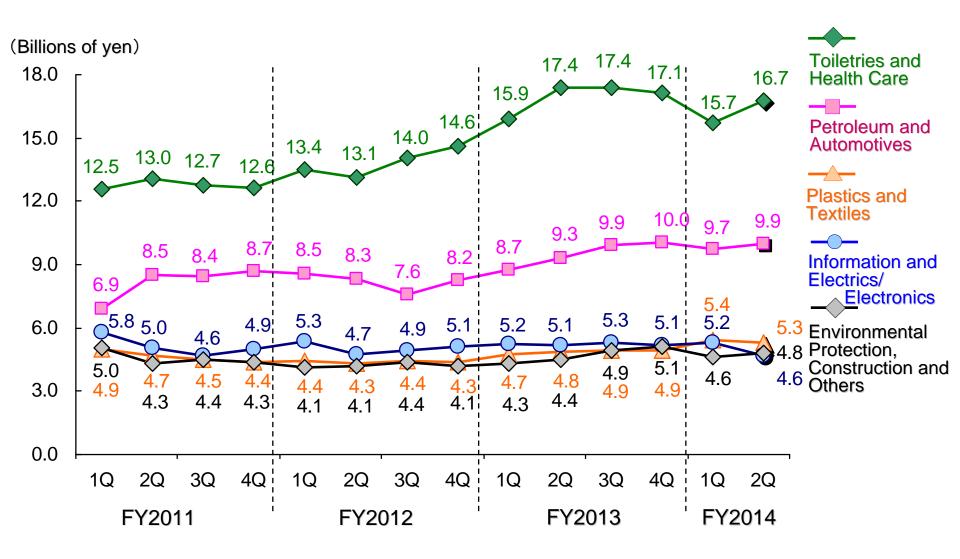
(Billions of yen)

		Net Sales		Operating Income			
Product Group	AprSept. FY2013	AprSept. FY2014	Changed Amount	AprSept. FY2013	AprSept. FY2014	Changed Amount	
Toiletries and Health Care	33.32	32.51	(0.80)	1.97	1.49	(0.47)	
Toiletries	6.90	6.35	(0.55)				
Health Care	26.41	26.16	(0.25)				
Petroleum and Automotives	18.10	19.68	1.58	0.74	0.34	(0.39)	
Plastics and Textiles	9.63	10.75	1.12	1.13	1.15	0.02	
Plastics	5.96	6.94	0.98				
Textiles	3.67	3.80	0.13				
Information and Electrics/Electronics	10.37	9.93	(0.44)	0.33	0.40	0.07	
Information	7.77	6.71	(1.05)				
Electrics/Electronics	2.60	3.22	0.61				
Environmental Protection, Construction and Others	8.79	9.42	0.62	(0.07)	(0.00)	0.07	
Total	80.23	82.31	2.08	4.10	3.40	(0.70)	

(Ref.-4)



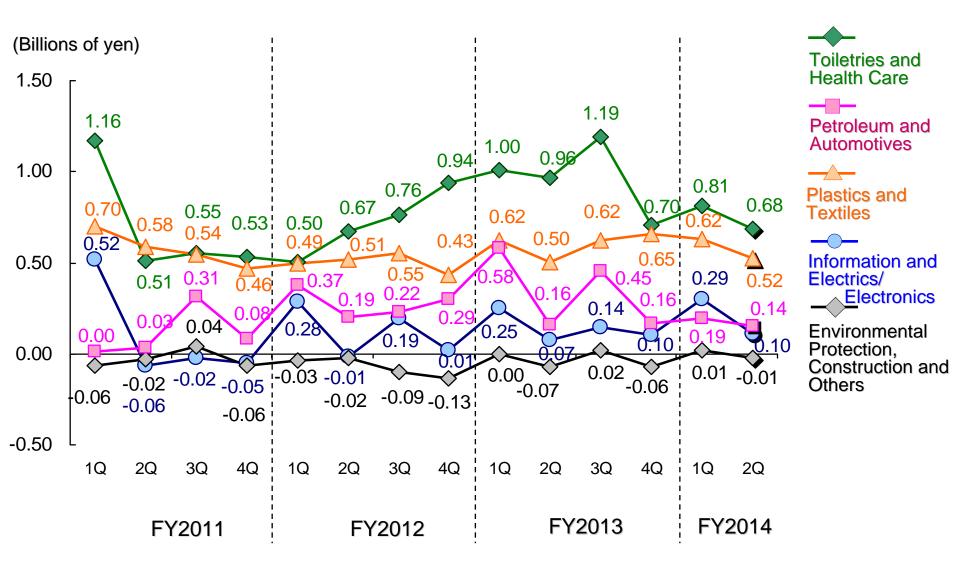
### **Consolidated Net Sales Trend by Product Group**



(Ref.-5)

### 

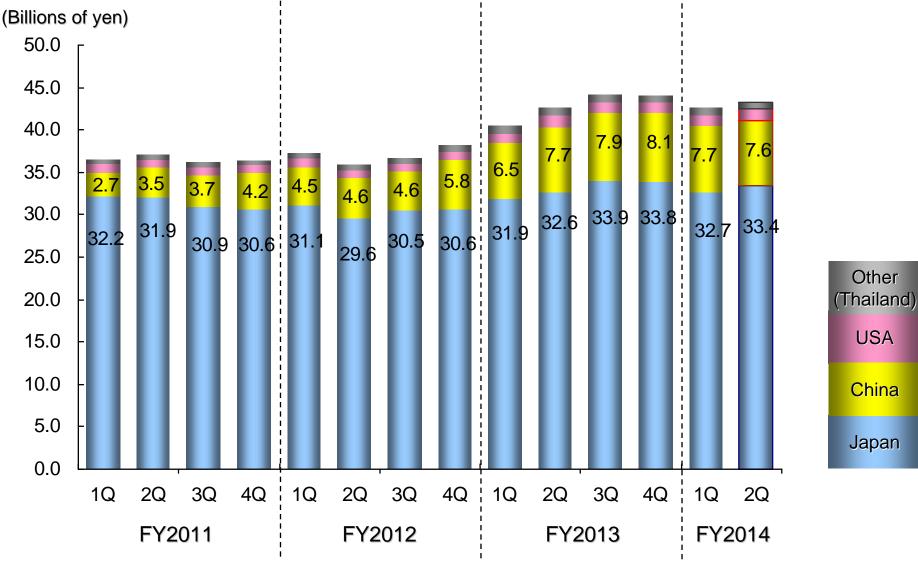
### Consolidated Operating Income Trend by Product Group





### Consolidated Net Sales Trend by Geographic Segments

Internal sales among Sanyo Chemical Group are not eliminated.



(Ref.-7)



### Results of Operations by Geographic Segments for 1H in FY2014

(Billions of yen)

	Net Sales			Operating income			
	AprSept. FY2013	AprSept. FY2014	Changed Amount	AprSept. FY2013	AprSept. FY2014	Changed Amount	
Japan	64.56	66.17	1.61	3.23	2.65	(0.57)	
USA	2.54	2.60	0.05	(0.09)	(0.10)	(0.00)	
China	14.25	15.37	1.12	0.83	0.73	(0.09)	
Other (Thailand)	1.74	1.72	(0.02)	0.08	0.07	(0.00)	
Total*	80.23	82.31	2.08	4.10	3.40	(0.70)	

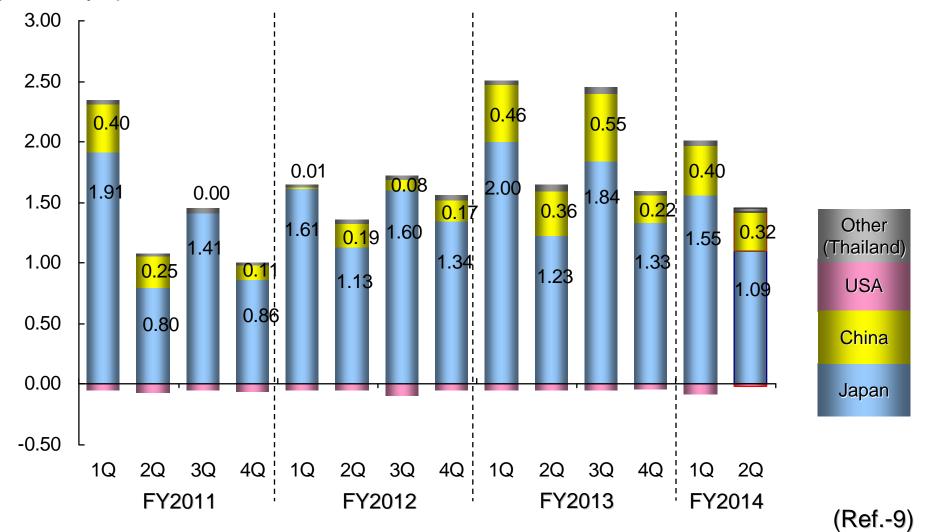
\* Internal sales among segments are eliminated.



# Consolidated Operating Income Trend



Internal sales among Sanyo Chemical Group are not eliminated. (Billions of yen)





### Domestic Consolidated Subsidiaries (5 companies)

Company Name	Abbr.	Equity Ownership		Line of Business	
SDP Global Co., Ltd.	SDP	Sanyo Chemical Toyota Tsusho		Manufacture and sales of superabsorbent polymers	
SAN NOPCO LIMITED	SNL	Sanyo Chemical	100%	Manufacture and sales of agents for pulp & paper, coating agents, a wide range of industrial agents, etc.	
San Chemical Co., Ltd.	SCC	Sanyo Chemical JX Nippon Oil & Energy		Manufacture of raw materials for polyurethane foams, etc.	
San-Apro Ltd.	SA	Sanyo Chemical Air-Products	50% 50%	Manufacture and sales of curing accelerators for epoxy resins, urethane catalysts, etc.	
Sanyo Transport Co., Ltd.	_	Sanyo Chemical	100%	General trucking	

# **Overseas Consolidated Subsidiaries (7 companies)**

Company Name		Abbr.	Equity Ownership		Line of Business	
Sanyo Kasei (Nantong) Co., Ltd. [C	hina]	SKN	Sanyo Chemical	100%	Manufacture and sales of surfactants, polyurethane resins, etc.	
San-Dia Polymers (Nantor Co., Ltd. [C	ng) China]	SDN	SDP Global	100%	Manufacture and sales of superabsorbent polymers	
Sanyo Chemical (Shanghai) Trading Co., Ltd. [China]		SCST	Sanyo Chemical	100%	Sales of surfactants, polyurethane resins, etc.	
Sanyo Kasei (Thailand) Ltd. [Thailand]		SKT	Sanyo Chemical Toyota Tsusho and others	89% 11%	Manufacture and sales of surfactants, polyurethane resins, etc.	
SANAM Corporation	USA]	SANAM	Sanyo Chemical	100%	Holding company of U.S. consolidated subsidiaries. Sales of lubricating oil additives, polyurethane beads, etc.	
Sanyo Chemical & Resins, LLC [	USA]	SCR	SANAM	100%	Manufacture of lubricating oil additives, etc.	
Sanyo Chemical Texas Industries, LLC [	USA]	SCTI	SANAM	100%	Manufacture of polyurethane beads	



# Subsidiaries and Affiliates Accounted for by Equity Method (5 companies)

Company Name	Abbr.	Equity Ownership		Line of Business	
San-Petrochemicals Co., Ltd.	SPCC	5		Manufacture of raw materials for synthetic rubbers	
Sunrise Chemical LLC [USA]	SRC	SANAM 50% JX Nippon Chemical Texas 50%		Manufacture of raw materials for synthetic rubbers	
Nagoya Sanyo Warehouse Co., Ltd.		Sanyo Chemical	100%	Warehousing	
Shiohama Chemicals Warehouse Co., Ltd.	_	Sanyo Chemical JX Nippon Oil & Energy	50% 50%	Warehousing	
Sanliving Ltd.	SL	Sanyo Chemical	100%	Real estate, insurance and agency	