

Toyo Tanso Co., Ltd.

Results for the First Half of the Fiscal Year Ending December 31, 2015

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1. Key Points of the Results for the First Half of the Fiscal Year Ending December 31, 2015



Point 1

Net sales were in line with the previous revised forecasts. Although net sales rose over the same period of the previous fiscal year, they were essentially flat year on year when excluding the effect of exchange rates, and accordingly net sales fell far short of our initial forecast.

Point 2

Profits undercut forecasts and declined year on year as a result of increases in some manufacturing costs, costs incurred to improve the business results of subsidiaries and the posting of inventory valuation losses.

Point 3

Overall, the market environment is improving and orders are on the rise, but growth in demand has not been robust for any application. Segments in which we had anticipated growth, such as SiC coating (chemical compounds, Si-Epi), carbon for industrial furnace and mechanical applications, struggled.

Point 4

By region, net sales grew in Japan and North America, but were flat in Europe and Asia. By segment, profits increased in Japan, but fell in the US, Europe and Asia. Costs incurred to

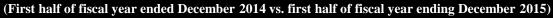
improve business results at a subsidiary in the US had an impact.

2. Results for the First Half of the Fiscal Year Ending December 31, 2015

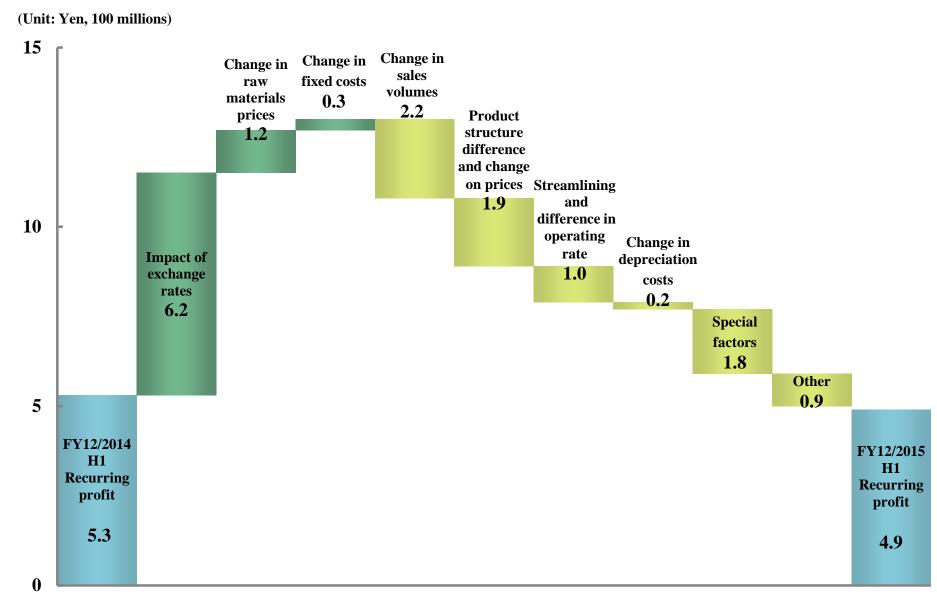


(Unit: Yen, millions)	FYE Dec. 2014 H1	FYE Dec. 2015 H1	Chang	ge
Net sales	17,070	17,673	602 /	3.5 %
Operating profit	585	353	(232) /	(39.7) %
(Ratio of operating profit to net sales)	3.4%	2.0%		
Recurring profit	530	499	(31) /	(5.9) %
(Ratio of recurring profit to net sales)	3.1%	2.8%		
Net income	914	387	(526) /	(57.6) %
Net income per share	44.09 yen	18.70 yen		
Exchange rate	102.5 yen/\$ 140.4 yen/€ 16.7 yen/CNY	120.2 yen/\$ 134.2 yen/€ 19.3 yen/CNY		

3. Factors Affecting Changes in Recurring Profit



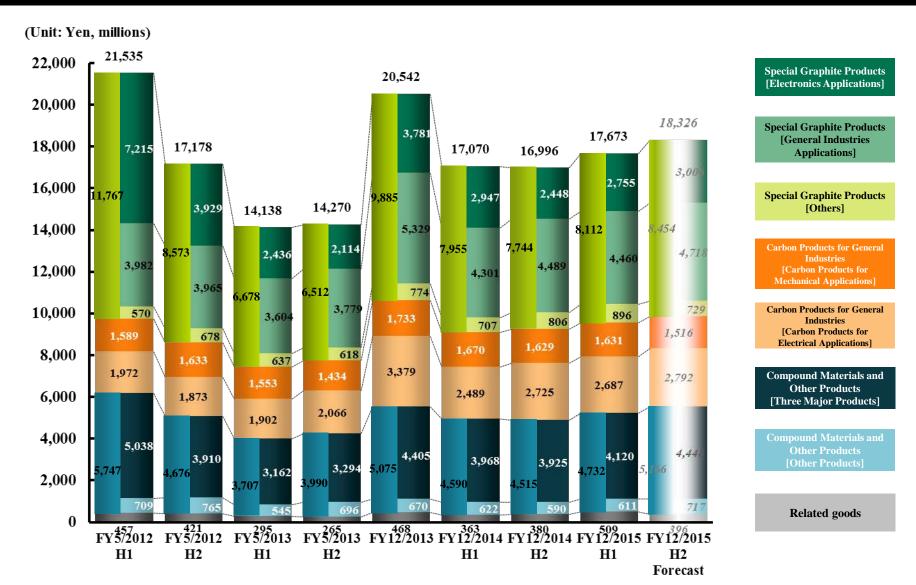




4. Net Sales by Product and Segment



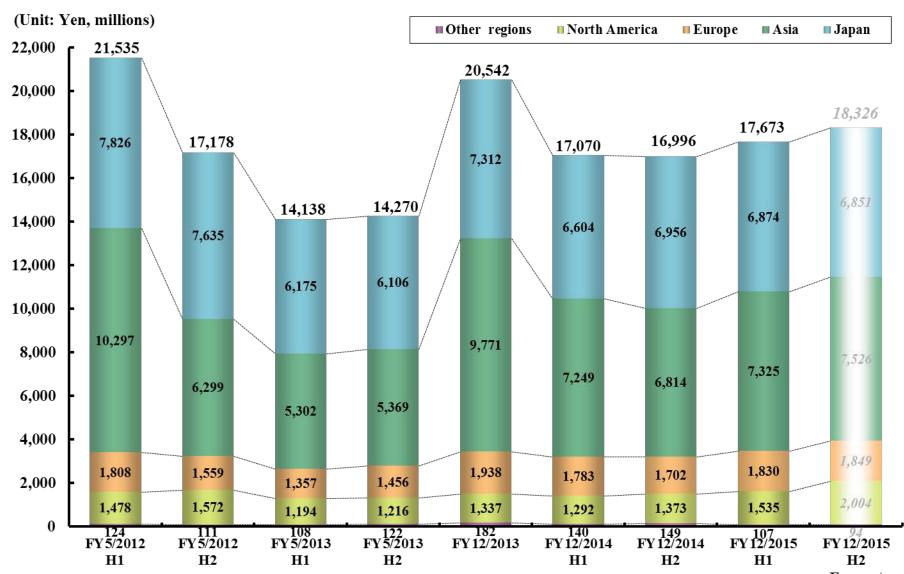
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Note: The final day of the fiscal period was changed from May 31 to December 31 as of the fiscal year ended December 31, 2013. For this reason, the fiscal year ended December 31, 2013 was an irregular seven-month fiscal period (nine months for some subsidiaries).

5. Sales Trends by Region





Note: The final day of the fiscal period was changed from May 31 to December 31 as of the fiscal year ended December 31, 2013.

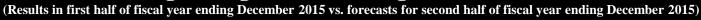
For this reason, the fiscal year ended December 31, 2013 was an irregular seven-month fiscal period (nine months for some subsidiaries).

6. Full-year Forecast for the Fiscal Year Ending December 31, 2015

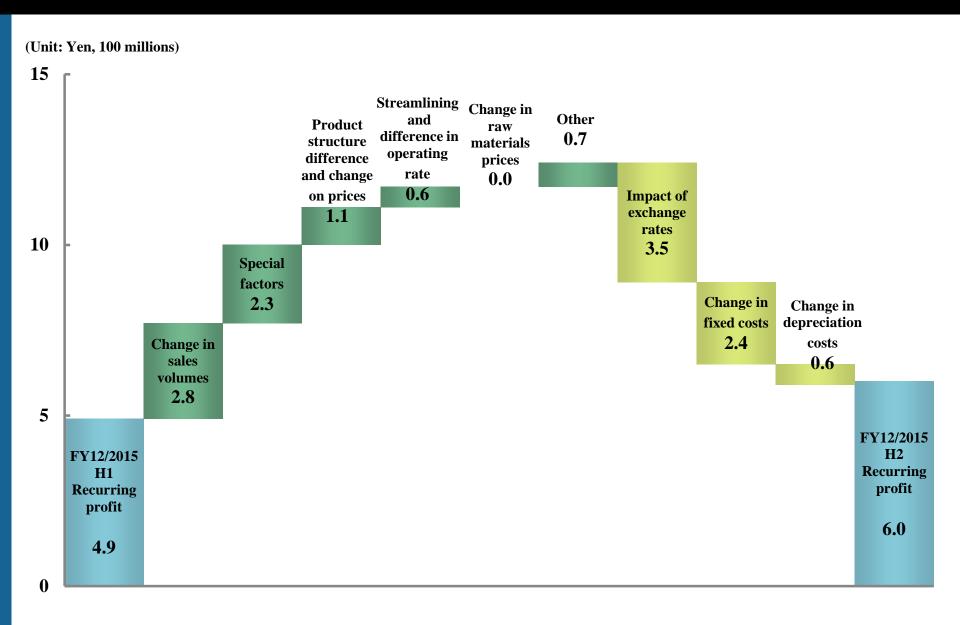


	FYE Dec. 2014	FYE Dec. 2015			Change		
(Unit: Yen, millions)	F 1 E Dec. 2014	Forecast	В	reakdown	Change	;	
Net sales	24.066	36,000	H1 result	17,673	1,933 /	5.7 %	
net sales	34,066		H2 forecasst	18,326	1,935 /	3.7 /0	
Operating profit	1,140	1,100	H1 result	353	(40) /	(3.5) %	
operating profit		,	H2 forecasst	746	(40) /		
(Ratio of operating profit to net sales)	3.3%	3.1%					
Recurring profit	1,501	1,100	H1 result	499	(401) /	(26.7) %	
Recurring profit			H2 forecasst	600	(401) /	(20.7) 76	
(Ratio of recurring profit to net sales)	4.4%	3.1%					
Net income	1,327	700	H1 result	387	(627) /	(47.3) %	
ret meome	1,527	700	H2 forecasst	312	(027) 7	(47.5) 70	
Net income	64.02 yen	33.76 yen	H1 result	18.70 yen			
per share	e 04.02 yen 35.70 yen		H2 forecasst	15.06 yen			
	40.70	115	H1	120.2 yen/\$ 134.2 yen/€			
Evohanga rata	105.9 yen/\$	115 yen/\$	result	19.3 yen/CNY			
Exchange rate	xchange rate 140.4 yen/€ 130 yen/€ 17.2 yen/CNY 18.5 yen/CNY	18.5 yen/CNY	H2 fore casst	115 yen/\$ 130 yen/€ 18.5 yen/CNY			

7. Factors Affecting Changes in Recurring Profit

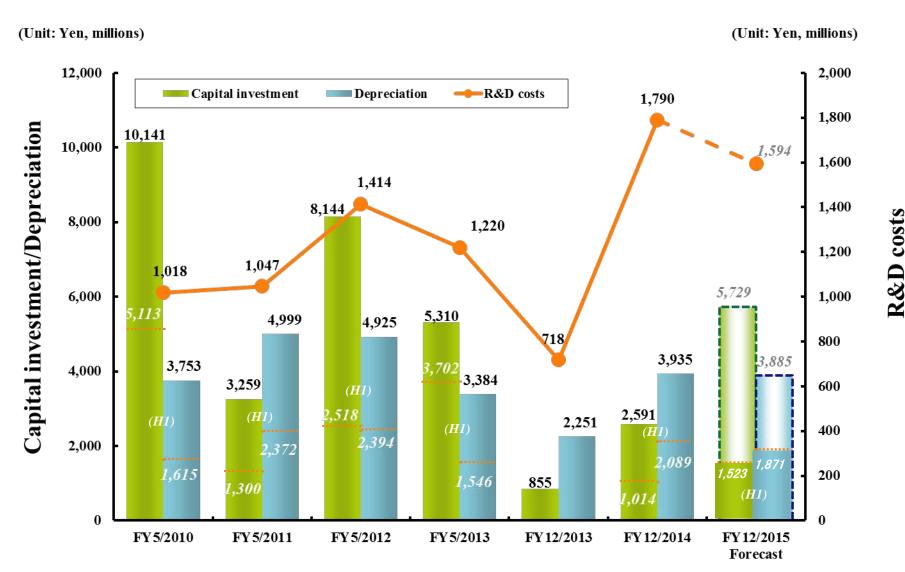






8. Trends in Capital Investment, Depreciation and R&D Costs

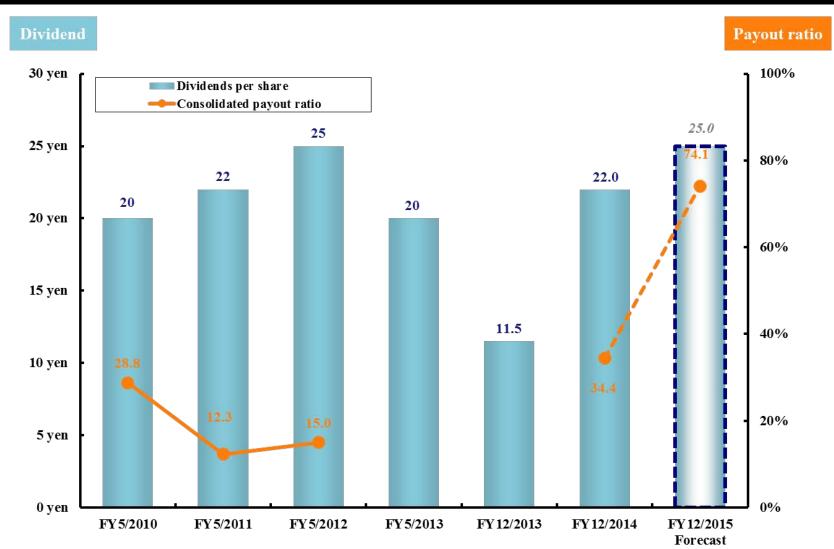




Note: The final day of the fiscal period was changed from May 31 to December 31 as of the fiscal year ended December 31, 2013. For this reason, the fiscal year ended December 31, 2013 was an irregular seven-month fiscal period (nine months for some subsidiaries).

9. Dividend





Note: 1. The final day of the fiscal period was changed from May 31 to December 31 as of the fiscal year ended December 31, 2013.

For this reason, the fiscal year ended December 31, 2013 was an irregular seven-month fiscal period (nine months for some subsidiaries).

2. Since net income was negative in the fiscal year ended in May 2013 and the fiscal year ended in December 2013, information on consolidated payout ratio is excluded here.

10. Consolidated Balance Sheet and Statement of Cash Flows for the First Half of the Fiscal Year Ending December 31, 2015



		J)	Unit: Yen, millions)
Consolidated Balance Sheet	Jun. 30, 2014	Dec. 31, 2014	Jun. 30, 2015
Total assets	72,051	75,831	73,963
Trade notes and accounts receivable	13,256	13,660	13,326
Inventory	17,840	18,209	17,808
Tangible fixed assets	28,667	28,850	28,396
Total liabilities and net assets	72,051	75,831	73,963
Interest-bearing debt	5,953	4,992	3,404
Capital	7,692	7,692	7,692
Net assets	58,178	60,918	61,037
Equity ratio	78.3%	78.0%	80.0%

		(Unit: Yen, millions)
Consolidated Statement of Cash Flows	FYE Dec. 2014 H1	FYE Dec. 2015 H1
Cash and cash equivalents at the end of the period	6,172	8,101
Changes in cash and cash equivalents	(699)	(959)
Cash and cash equivalents at the beginning of the period	6,871	9,061
CF from operating activities	2,605	2,900
CF from investing activities	(1,116)	(1,806)
CF from financing activities	(1,939)	(2,080)

11. Fiscal Year Ending December 31, 2015: Key Areas for Improvement to Address Factors Preventing H1 Operating Profit Forecasts from Being Reached

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➤ Difference between operating profit forecasts and actual results for first half of fiscal year ending December 2015

(Unit: Yen, millions)	Forecasts *Disclosed on May 14, 2015		Results				Di	ifference
	1,200	353	Japan	658	(846)			
			United States	(266)				
Operating			Europe	54		/ (70.5) %		
profit			Asia	83	(040)	7 (70.5) 70		
			Adjusted	(175)				
			amount	(173)				

Reasons for differences

■Positive factors

50 million yen

- Exchange rates
- Negative factors

900 million yen

(Breakdown)

- Decrease in marginal income as a result of lower sales: 150 million yen
- Increase in some manufacturing costs (subcontracted processing costs, etc.): 270 million yen
- Costs incurred to improve profitability of US subsidiary:
 100 million yen
- Increase in sales, general and administrative expenses (sales promotion costs, etc.): 120 million yen
- Posting of inventory valuation losses and elimination of unrealized inventory gains: 260 million yen

Measures and initiatives for improvements

■ Consolidated

Identify customer and technical areas for improvement to boost share and growth of three applications, strengthen competitiveness of materials for metallurgical applications, automate processing for SiC coating graphite products and improve its technology

■ Japan

Enhance efficiency of resource allocation by application, reduce delivery time and increase shipment volume by optimizing processing bases

US

Improve processing efficiency, improve yield and manufacturing capacity for SiC coating graphite products

■ Europe

Expand sales regions, applications and share for non-semiconductors, attract major target customers

■ Asia

Regain market share from major solar cell companies, increase sales by establishing core non-semiconductor applications

12. Future Measures and Initiatives with Core Products, Sectors and Applications



	Core products, sectors and applications		First half of fiscal year e	nding December 31, 2015	Measures and initiatives in H2 2015	
Core products, s			Market trends	Company issues	Sales improvements	Technical improvements
Special	Metallurgica general-pur applicatio	pose	Sluggish auto production in Japan and Southeast Asia	Price competition	Expansion in sales channels in China and emerging economies	Decrease in unit cost of materials
Graphite Products	New applica	tions	_	Application development	Focusing on Japan first (major users)	
Carbon Products for Mechanical Applications	Products for Mechanical Bearings and seals for pumps		Flat	Expand overseas sales	Expand China and US's share/shorten delivery time	Strengthen molding and impregnation techniques
Carbon Products for Electrical Applications	Products for Electrical Carbon brush		Solid in both Japanese and US markets	Price competition	Optimize global sales chain	Improve manufacturing technology
Compound	SiC coating graphite products	Chemical compound and Si Epi	Semiconductors are solid globally	Production capacity/efficiency/yield	Strengthen sales to device manufacturers/reinforce Europe, the US and Asia	Improvements to SiC coat manufacturing method
Materials and Other Products	C/C composite products	Thermal processing	Sluggish auto production in Japan and Southeast Asia	Solid growth/expansion in compliant applications	Develop markets in Asia and Southeast Asia	Reduction in cost of sales/develop products for thermal processing applications

13. Medium-term Business Plan: Strategies geared toward Second Half of Term



Under the following strategy, prioritize cutting-edge technology markets with volume

Q: Enhance quality to match applications

C: Price strategy tailored to application

D: Improve delivery time and revenue with optimal mix of in-house and subcontracted processing

S: Enhance technical services by improving development and marketing resource allocation and expertise

V: Improve profitability with volume and variation in sales applications

 \Rightarrow In particular, endeavor to improve profits in semiconductor sector (single-crystal silicon manufacturing and solar cell applications), EDM electrodes and metallurgical applications.

Term of medium-term business plan	Target sales	Results/forecast	Achievement
2013	19.7 billion yen	20.5 billion yen	First fiscal year of medium-term plan: Target achieved
2014	34.0 billion yen	34.0 billion yen	Achieved through contributions from three main applications (thermal processing, carbon products for mechanical applications, carbon brushes)
2015	40.0 billion yen	36.0 billion yen	10% delay \rightarrow Boost with start of business division system and company-wide strategy
2017-2018	50.0 billion yen	-	Strengthen ROE by improving total asset turnover ratio

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14. Medium-term Business Plan: Progress and Initiatives to Strengthen New Products, Newly Developed Products and New Businesses



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		2015			2015	2010
		Progress in H1	Initiatives in H2	2016	2017	2018
Improvements in product development methods		■ Take inventory of newly developed products following shift to business division system	■ Overhaul of structure and goal-setting (new product classifying) ■ Refinement of core technology development themes			Under development
eloped products	Porous carbon CNovel	■ Expand reach to new B-to-C users by exhibiting products at demonstrations and selling sample kits ■ Develop new markets for different products, such as medical products and cosmetics, in addition to battery storage devices and fuel cell-related products	■ Expand variation with product planning that identifies needs for each application, attract B-to-B users ■ Strengthen technical approach to development field			
New products and newly developed products	Green innovation	 ■ The NEDO subsidy scheme ended in March 2015. EPI-ready surface processing technology using the thermal etching method was developed and the goal achieved. The results of the evaluation by the evaluation committee were also favorable. ■ Applying this technology, we succeeded in developing the world's first high-quality thin wafer. Customers were pleased with its effectiveness as a key technology in raising the yield of SiC power devices. 	■ Establishment of technology for mass production with a view to commercialize ■ We plan to present results at academic seminars and international conferences such as ICSCRM 2015: International Conference on Silicon Carbide and Related Materials	Aim for major contrib achievement of medic plan's target of 5.0 billi net sales		ium-term
	New business	■ Internal evaluations and evaluation activities with universities and research organizations in the fields of agricultural and functional cutting-edge compound materials and water treatment field	■ In addition to universities and research organizations, increase on-site evaluation activities at companies. ■ M&A, joint commercialization with venture companies, proactive consideration of open innovation		-	5.0 billion yen



	Progress in H1 2015	Initiatives in H2 2015
High-temperature gas reactors in China (HTR-PM) Project	Work under way to complete processing and installation in 2016	Ongoing efforts to improve processing and installation, activities to compile information to bring in new projects
Establish factories in emerging markets (Indonesia, Mexico)	Preparations under way to start processing in December	Cultivation of new customers focusing on autos and metallurgy
New brush factory in China	Start construction	Preparations under way to start mass production in December
Increase production of carbon materials for mechanical applications	Progress toward start of mass production in first half of 2017	Progress in acquiring approval from overseas customers, particularly in US and China
Start of business division system	Full transition to system organized around four business divisions from July 2015	Integration of strategies for each business division and company-wide strategies, improvements to profitability of product businesses and fixed costs



Note: This presentation contains "forward-looking statements" and forecasts of business results. These statements are not historical facts but instead represent the Company's beliefs regarding future events, many of which, by their nature, are inherently uncertain and out of the Company's control. It is possible that the Company's actual results may differ, possibly materially, from the anticipated results and financial condition indicated in these forward-looking statements.

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