

Automotive Systems Business Strategy

Hitachi IR Day 2013

June 13, 2013 Kunihiko Ohnuma

Chairman & CEO Hitachi Automotive Systems, Ltd.

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Automotive Systems Business Strategy

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- **2. Market Trends**
- **3. Growth Strategy**
- **4.** Business Targets

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1-1. Business Concept



Harness advanced technologies in the environment, safety and information fields to create new value for people, automobiles and society, and a richer society

Become the most globally trusted corporate group

Environment

Eco-friendly energy control with high efficiency

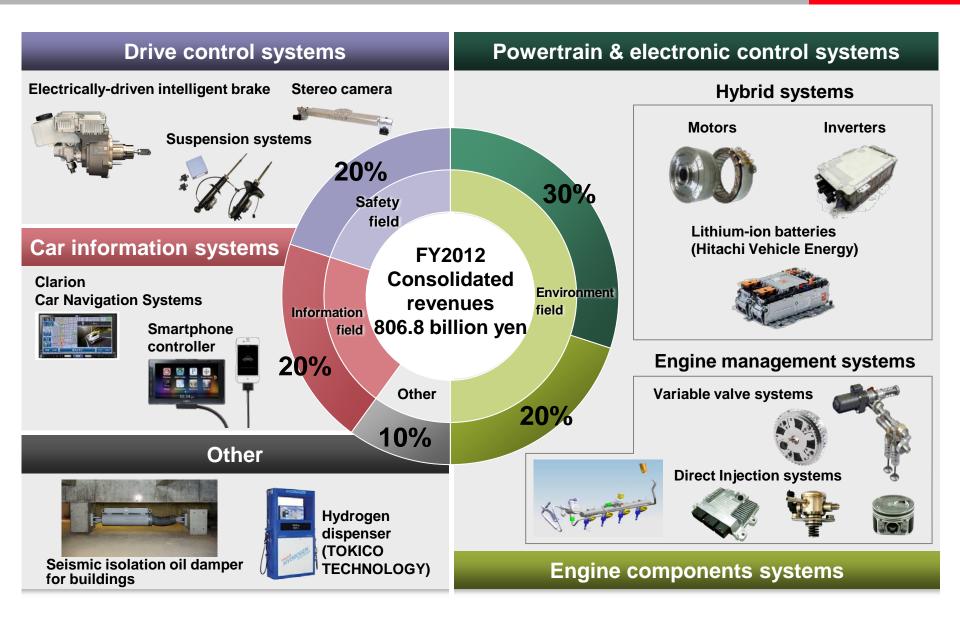
Information

Information and telecommunication solutions for improving the riding experience inside automobiles and convenience

Safety

Optimal safe driving control in terms of driving, steering and braking

1-2. Business Structure



1-3. Hitachi's Management Structure



Hitachi Ltd., President

Η	Infrastructure Systems Group								
	Information & Telecommunication Systems Group	Ι.							
	Power Systems Group		Established as an independent group from the Infrastructure Systems Group on April 1, 2013						
	Construction Machinery Group								
	High Function Materials & Components Group	Ľ							
	Automotive Systems Group								

Grow the automotive components business as a core business by operating the business and marketing management decisions closer to the market as a market-responsive organization



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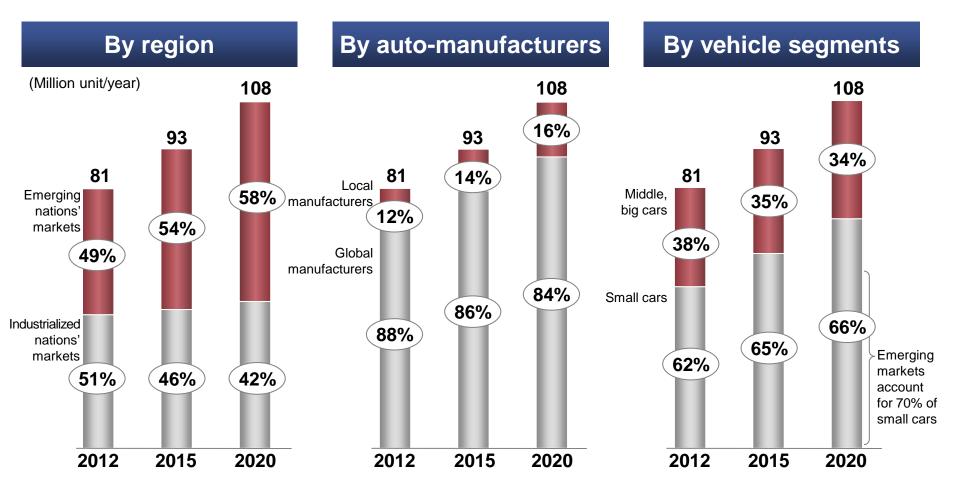
2. Market Trends

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2-1. Global Auto Production Trends



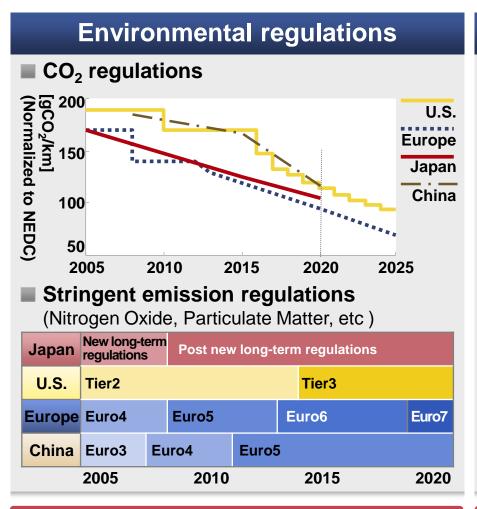


Source: Data compiled in-house from data provided by IHS Automotive

Global carmakers will capture a large share as emerging nations' markets expand
 Small car production in particular will expand in emerging markets

2-2. Global Regulatory Trends





Environmental regulations are slowly being applied in emerging nations as well as industrialized countries

Safety evaluation

region	Evaluate institution	2012	2013	2014	2015	2016	2017→2020			
U.S.	NCAP	Collis	Collision warning / Lane departure warning							
0.0.	/IIHS*		C	Collision avoidance / Mitigate damage						
			Excessive speed warning							
Europe	Euro -NCAP		Lane departure warning Low-medium-high speed collision avoidance Mitigate damage							
							sion avoidance strians			
				Colli	sion avo	bidance	/ Mitigate damage			
						Lane	departure warning			
Japan	JNCAP				Collisi pedes	ion avoi trians	idance			
							Night time pedestrians			
							collision avoidance			
*NCAP: European New Car Assessment Programme										
IIHS: Insurance Institute for Highway Safety										
: Car	safety evalu	ation		: Safe	ety eval	uation f	or pedestrians			

Requirement of safety evaluation more on pedestrian protection than cars collision avoidance

2-3. Global Technology Trends



Increased focus on mobility technology for creating a sustainable society

Environment	 Enhancing state-of-the-art electronic control and electric drive technologies Creation of more efficient internal combustion engines Improvement of power-saving technologies for P-HEVs and EVs 	
Safetv	Advance from collision safety to preventive safety Create automobiles that don't collide using outside recognition sensors and chassis electronic control technologies	Leverage next-generation mobility technology to make automobiles smarter and realize automated driving
Information	Link automobiles and society with IT Use information technology as a bridge between automobiles and the outside to improve comfort and convenience as well as add value to automobiles	



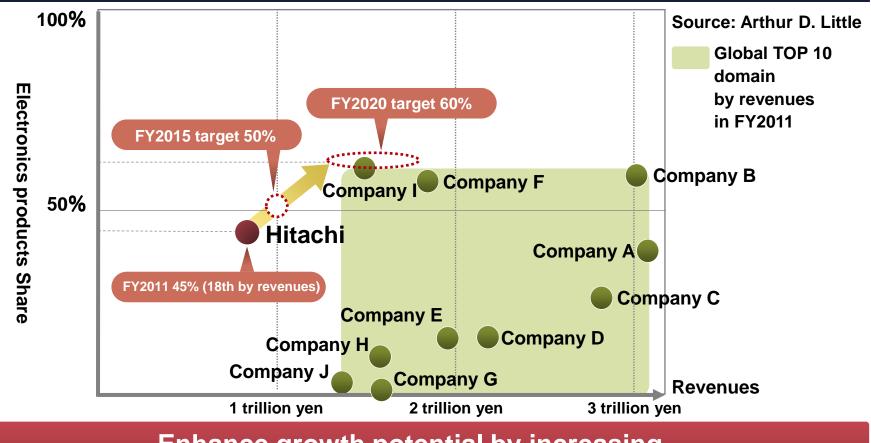
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Electronics products* share of TOP 10 global parts suppliers by revenue in FY2011



Enhance growth potential by increasing electronics products* share to world-leading level

*Electronics products: Electronic control and electric drive products such as electronic control units, hybrid systems, etc.



Global-winning global growth strategy

Customer strategy	Regional strategy	Product strategy
Expand sales to global automakers	Produce locally for local consumption in regions around the world	Build next-generation environment, safety systems
Strengthen proposals matched to customers' strategies	Focus on emerging nations	 Increasing electronics products share Standardize globally Enhance core products

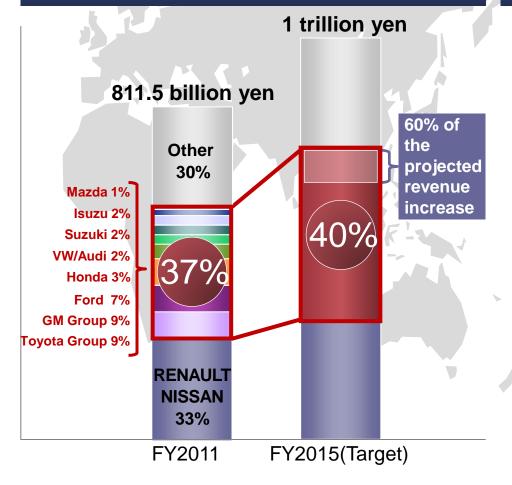
Strengthen the global management foundation with an eye on 2020

Execute cost structure reform and cash flow management to make business operations stronger



Expand sales to global automakers

Customer composition and Targets



Strengthen proposal capabilities

Use GAM/GAT to strengthen global response

Bolster customer strategy-matching proposals by strengthening integrated contact points for customers expanding their businesses globally

Improve global design and development capabilities

Make speedy product and system proposals to cater to the various needs of customers developing business globally

- Increase overseas development personnel by 2.4 times (FY 2015)
- Expand application of simulation/analysis technologies shared across the Hitachi Group

GAM : Global Account Manager GAT : Global Account Team



Increase production bases in emerging nations

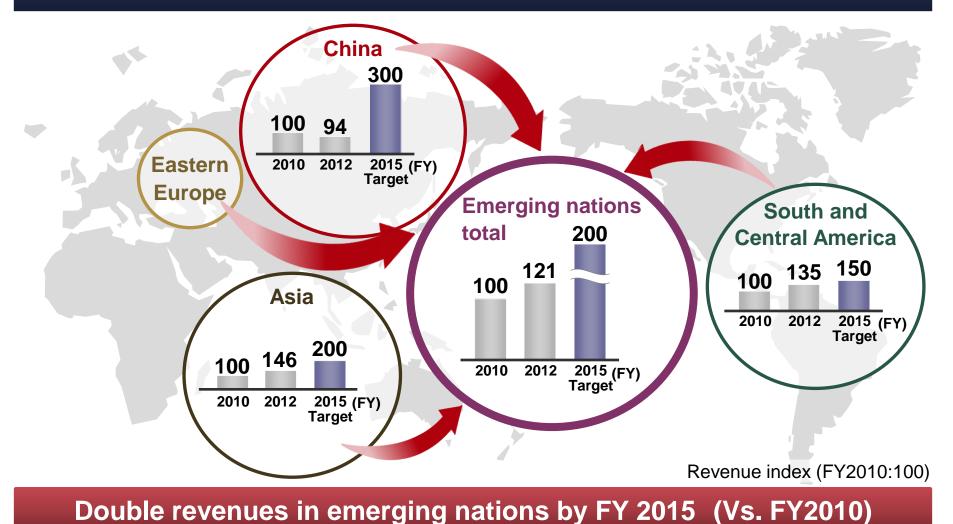
	19 bases FY2008	+4	23 bases FY2011	+4	27 bases FY2012
China	13		15		16
Thailand	4		4		4
Mexico	2		2		4
Czech Republic	0		1		1
India	0		1		2
Brazil	Dispatch sales representatives Considering plans for entry				
Russia	Considering plans for entry				
Indonesia	Considering plans for entry				

Advance into emerging nations to accelerate local production for local consumption

3-5. Emerging Nation Business Expansion



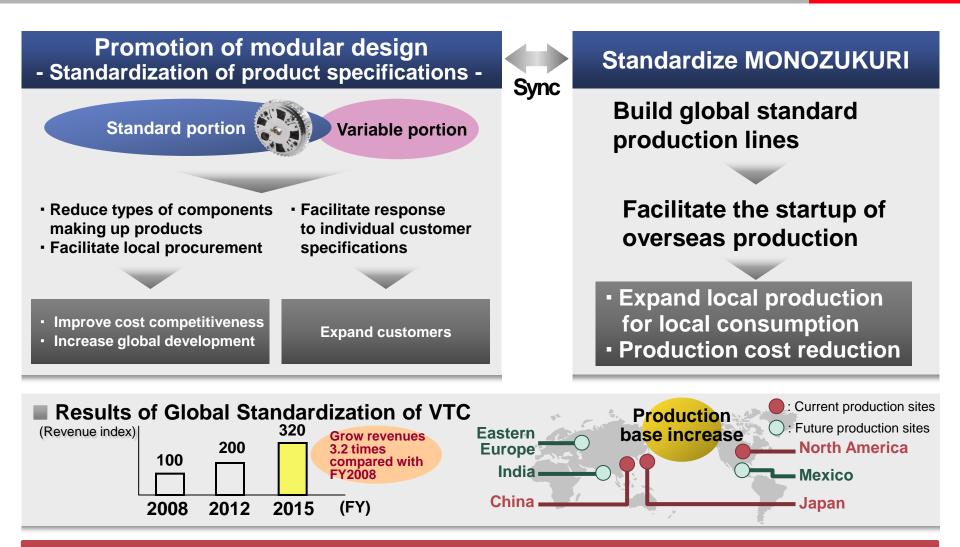
Emerging nation revenue target indices



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3-6. Global Product Standardization

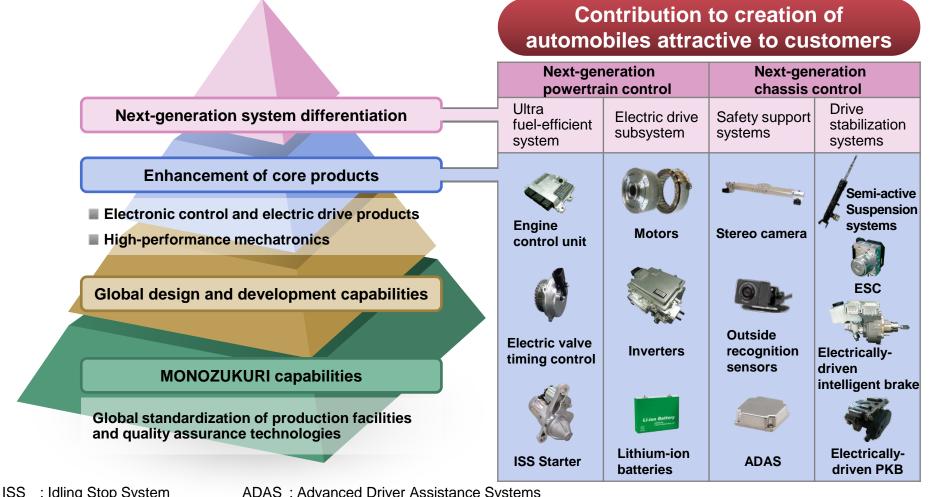




Quickly provide products matched to customer needs in terms of price and quality competitiveness

3-7. Enhance Core Products

Differentiate next-generation systems by enhancing core products



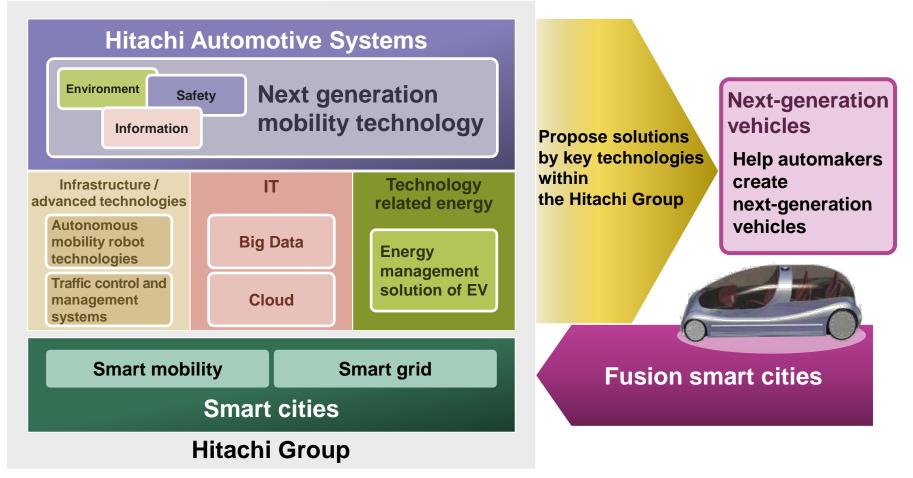
ISS : Idling Stop System ADA ESC : Electronic Stability Control PKB

ADAS : Advanced Driver Assistance Systems PKB : Parking Break

3-8. Helping Create Next-generation Vehicles

Contribute by synergy to the creation of next-generation vehicles fit for a sustainable society

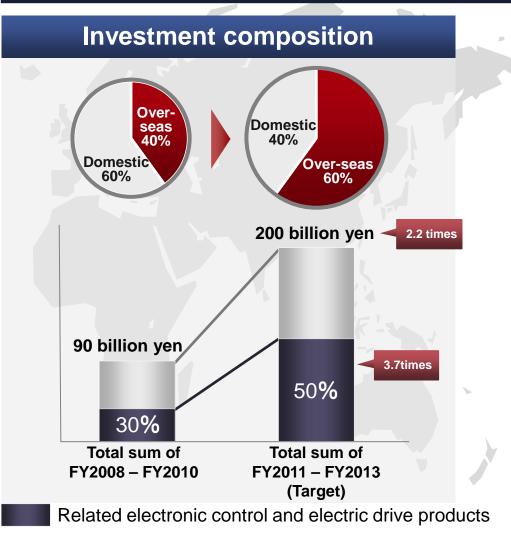
Hitachi's key technologies support sustainable society

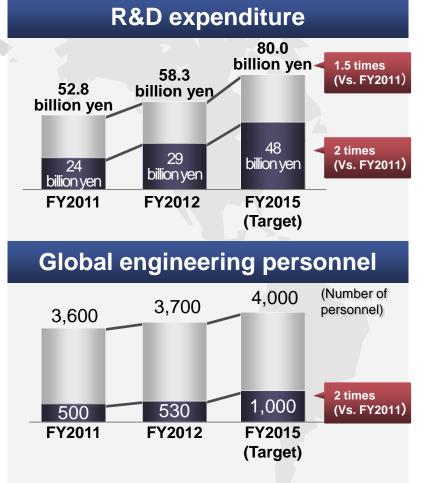


Inspire the Next

3-9. Investing in Growth

Investment in electronic control and electric drive globally







Main past initiatives

Production costs	 Promotion of modular design - Standardization of product specifications and MONOZUKURI - Strengthening of high-efficiency production and quality at optimal production locations
Direct material costs	 Lower costs through global procurement system and centralized purchasing Reduction of overall costs through VEC activities
Indirect costs	 Globally unify core IT systems Centralize and standardize administrative operations

VEC: Value Engineering for Customers

Main future initiatives (Continue and strengthen above initiatives)

Production costs	 Globally develop low-cost, standard production lines Cost reduction due to defective work through Zero Defects activities
Direct material costs	 Costs reduction by VEC activities and rigorously adopting overseas materials Maintain procurement networks compatible with global TSCM
Indirect costs	Optimize Global logistics Optimize logistics route, integration and re-use of logistics packing materials

TSCM: Total Supply Chain Management

3-11. Strengthening Cash Flow Management



Initiatives for improving free cash flows

Issues and areas to strengthen

Raise inventory turnover ratio

Shorten develop and prototype timeframes

Improve capital expenditure efficiency

Increase internal production of production facilities

Develop standard automated production lines globally

Create low-cost production lines for handling small production lots for emerging nations Earnings improvement initiatives

Bolster global production management to optimize global inventories

Strengthen simulation technologies

Internal production rate 20%⇒60% (FY2012 ⇒ FY2015)

Standard automated production lines ⇒Develop 12 in FY2013

Lower costs by 30% to 70% with low-cost production lines

Improve operating cash flows



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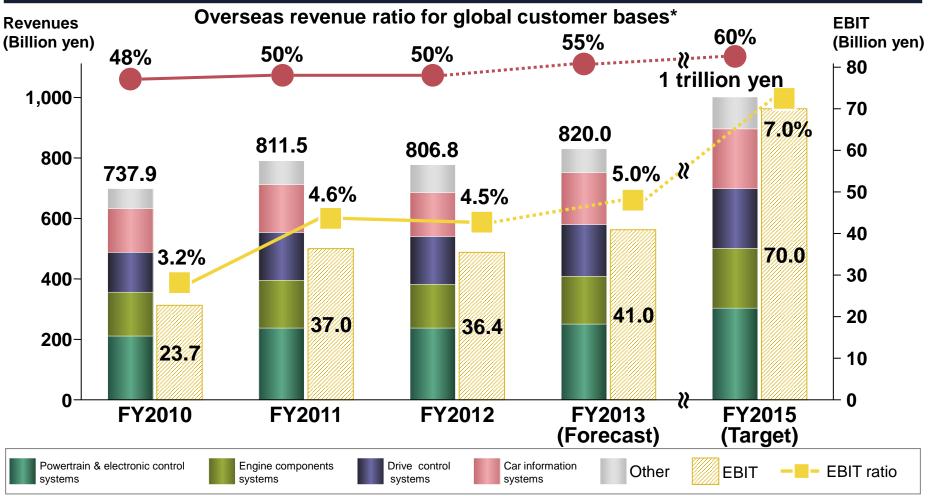
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FY2015 targets: revenues: 1 trillion yen, EBIT ratio : 7.0%



EBIT: Earnings before Interest and Taxes

* Customer bases that install automotive components in finished vehicles. This is different from overseas revenues in the consolidated accounts. Excluding exchange rate differences



FY2015 targets

Revenues: 1 trillion yen

(Overseas revenue ratio for global customer bases 60%)

- EBIT (Operating income): 7.0%
- Gross margin:1 point improvement (Vs. FY2012)
- SG&A expense ratio: 2 point improvement (Vs. FY2012)

Become the most globally trusted corporate group

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- exchange rate fluctuations of the yen against other currencies in which Hitachi makes significant sales or in which Hitachi's assets and liabilities are denominated, particularly against the U.S. dollar and the euro;
- uncertainty as to Hitachi's ability to access, or access on favorable terms, liquidity or long-term financing;
- uncertainty as to general market price levels for equity securities, declines in which may require Hitachi to write down equity securities that it holds;
- the potential for significant losses on Hitachi's investments in equity method affiliates;
- Increased commoditization of information technology products and digital media-related products and intensifying price competition for such products, particularly in the Digital Media & Consumer Products segments;
- uncertainty as to Hitachi's ability to continue to develop and market products that incorporate new technologies on a timely and cost-effective basis and to achieve market acceptance for such products;
- rapid technological innovation;
- the possibility of cost fluctuations during the lifetime of, or cancellation of, long-term contracts for which Hitachi uses the percentage-of-completion method to recognize revenue from sales;
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- uncertainty as to the accuracy of key assumptions Hitachi uses to evaluate its significant employee benefit-related costs; and
- uncertainty as to Hitachi's ability to attract and retain skilled personnel.

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