

Hitachi IR Day 2012

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- 1. Overview
- 2. Market Environment
- 3. Business Performance Trends and Targets
- 4. Business Policy and Growth Strategy
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1-1 Revenues by Systems and Products & Services



Transport management & control systems

Rolling stock systems

Signaling/traffic management systems

Signaling/train control systems



Traffic management systems/ power management systems



Power supply systems Platform gates





FY2011 Consolidated Revenues ¥139.6 billion

Electrical components

Main circuit/ main motor





High-speed trains Limited express trains

Rolling stock/Overseas maintenance





Commuter trains







Overseas maintenance



Air-conditioning/



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2-1 Market Environment



Global rail business environment and Hitachi's initiatives

Market environment		Solutions		
Increased environmental awareness	Demands for transportation systems with low environmental impact	 n Make lighter n Make more energy efficient n Apply smart grid technologies to rail systems 		
Growth of emerging countries	Increasingly heavy traffic congestion	 Propose comprehensive rail system solutions Total project integration (E&M*) 		
Increased awareness of safety and reliability	Increasingly sophisticated demands for safety levels	High reliabilitySignaling/train control systemsTraffic management systems		
Intensifying competition	New players entering the market	 n Low-cost, low-LCC*2 n Offer high-value-added systems utilizing distinctive technologies 		
Financial instability	Emergence of protectionism Increased demand for private-sector funds	 n Promote localization n Cooperate with local partners n Introduce PPP*3, respond to demand for projects requiring finance 		

*E&M: Electrical & Mechanical

*2 LCC : Life Cycle Cost

*3 PPP : Public Private Partnership

2-2 Market Trends



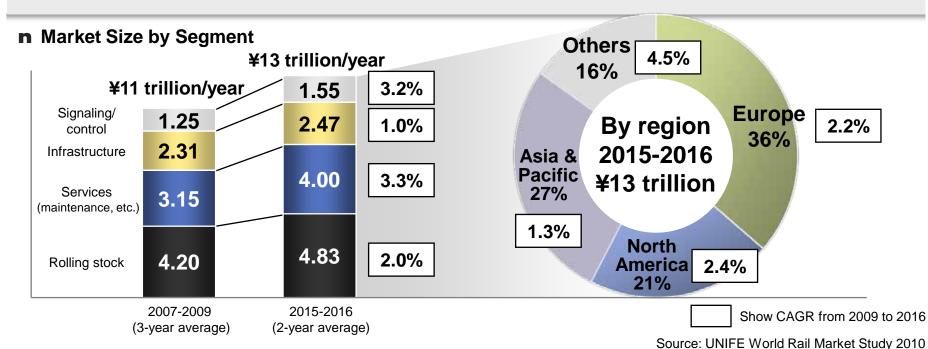
Japan

- Increasing investment in services and environment-related areas, but major growth in capital expenditures cannot be expected
- Drop-off in construction of new Shinkansen lines, and increasing demand for replacement/upgrading aging lines, etc.

Overseas

¥11 trillion per year (2007-2009 average) ¥13 trillion per year (2015-2016 average) (CAGR 2.3%)

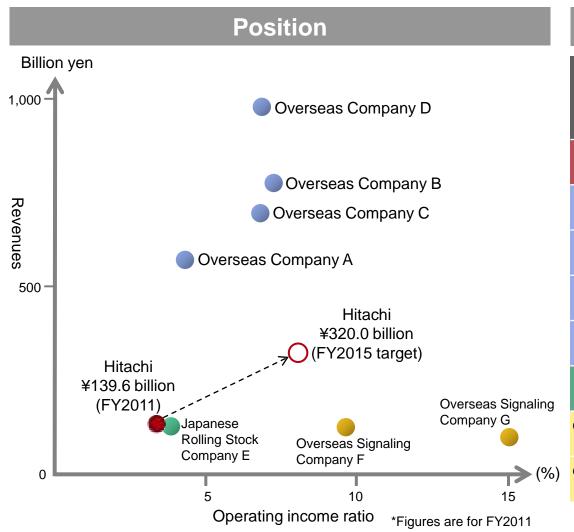
- High growth in service and signaling/control segments
- Increased investments in railway networks in emerging countries



2-3 Competitive Environment and Hitachi's Position



Position as a Total Systems Integrator



Presence Rolling stock management & systems control systems Rolling Electrical Signaling/traffic stock components management Hitachi **Overseas** PP PP PP **Company A Overseas** PP PP PP **Company B Overseas** PP PP **Company C Overseas** PP P **Company D Japanese Rolling** P Stock Company E **Overseas Signaling** PP Company F **Overseas Signaling** PP Company G

2-4 Strength and Key Targets



Rolling stock systems

Higher efficiency, lower environmental impact

- Aluminum train technology (High-speed trains, commuter trains)
 - n Highly economical next-generation rolling stock (A-train)
- Inverter technology
 - n Develop small, lightweight, low noise (world-class) products
- Hybrid technology
 - n World's first to enter service (Ki-Ha E200 series for East Japan Railway Company)

Proven track record in maintenance business (U.K.)

Transport management & control systems

High reliability

- Signaling/train control systems technologies
 - **n** Developing signaling systems compliant with European standards (ETCS*)
 - **n** Wireless train control system (CBTC*2)
- **■** Traffic management system technologies
 - n Provide high-performance, highly functional systems to support high-density transportation with advanced control technologies (Top share in Japan)

*ETCS: European Train Control System

*2 CBTC: Communication Based Train Control

Total project integration (E&M)

Develop globally with own core systems technologies in traffic management, signaling, power supply and rolling stock



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3-1 FY2011 Results and FY2012 Forecast



(Billion yen)

	FY2010	FY2011		FY2012	
	Actual	Actual	YoY	Forecast	YoY
Revenues	133.1	139.6	105%	133.0	95%
Operating income	2.0	4.7	+2.7	3.6	-1.1

Revenues

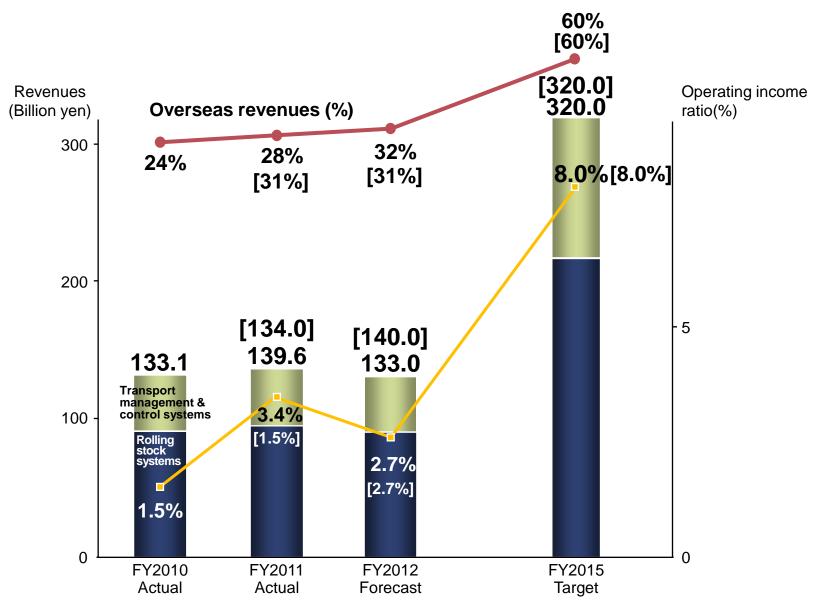
- FY2011 revenues were higher year over year due to an increase in overseas and alleviation of the parts shortages caused by the Great East Japan Earthquake.
- Projecting lower revenues in FY2012 year over year because of lower sales of rolling stock systems in Japan and signaling/transport management systems.

Operating income

- FY2011 operating income increased year over year due mainly to the higher revenues and progress cutting costs.
- Projecting lower operating income in FY2012 due mainly to expenses for global business expansion.

3-2 Business Performance Trends and Targets







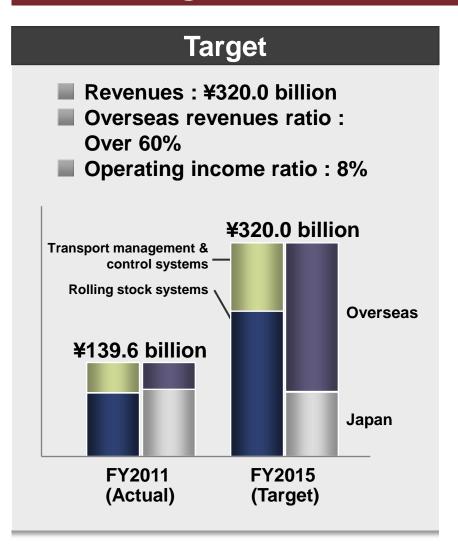
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4-1 Business Policy



Accelerate globalization with technologies developed in Japan



Strategies

- Expand salesn Strengthen Japan business basen Expand overseas business
- Achieve highly profitable structure n Realign product and business portfolios
 - Focus on maintenance, E&M, signaling/ traffic management systems
 - Promote environmental and energy-saving businesses
 - •Win projects requiring finance

n Promote standardization

- Rolling stock (global A-train)
- Signaling (ETCS and CBTC)
- Components (standard electrical components)
- n Promote Hitachi Smart Transformation Project

4-2 Expand Sales (Sustainable Growth in Japan)



Rolling Stock Systems

- Expand sales of aluminum trains (A-train) to municipal and private railways
- Secure Shinkansen market share [Hokuriku Shinkansen]
- Expand sales of electrical components





Signaling/Train Control Systems

- Complete Shinkansen signaling system projects (Hokuriku/Hokkaido)
 [Hokuriku Shinkansen (Takasaki to Kanazawa),
 - Hokkaido Shinkansen (Takasaki to Kanazawa),
 Hokkaido Shinkansen (Shin-Aomori to Shin-Hakodate)]
- Maintain and ensure high share in traffic management systems (81% for JR companies)





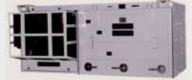
Expand Business by Promoting New Businesses

- Build energy-saving systems for optimizing power Demand Apply smart grid technologies to rail systems and lithium-ion battery technologies

 [Hybrid Ki-Ha*, B-CHOP*2]
- Bolster core products by applying new technologies n Develop SiC*3 inverters for reducing power loss







4-3 Expand Sales (Expand Overseas Business)



Rolling stock systems

Expand maintenance business
Promote standardization
(global A-train and standardized inverters)

Signaling/train control systems

Expand sales focusing on products compliant with European standards (ERTMS*/ETCS and CBTC)

Total project integration (E&M)

Promote alliance with Mitsubishi Heavy Industries and local partners to strengthen project integration

Shift from selling individual products to becoming a total systems integrator

4-4 Achieve Highly Profitable Structure (Realign Product and Business Portfolios)



Rolling stock systems

Establish highly profitable business model by capturing orders for projects with maintenance contracts and PPP projects

- Class 395 maintenance business
- Intercity Express Programme (IEP)
 - **n** Under negotiation
 - n Project overview
 - High Speed Trains (HST*) replacement package (rolling stock, maintenance)
 - No. of vehicles: approx. 500 cars + options
 - Maintenance period: 30 years (Expand maintenance business throughout the U.K.)
- Commuter trains and replacement of aging trains

 U.K.: Rolling stock for suburban lines and subways
 in London



Ashford Depot (Class 395)



IEP rolling stock (image)

4-5 Achieve Highly Profitable Structure (Realign Product and Business Portfolios)



Generate earnings by focusing on signaling/train control systems projects

China

- Medium- to high-speed railways
 - n Expand sales of Chinese train control systems (CTCS*)
 - Dedicated high-speed passenger line Entered revenue service in Guangzhou-Shenzhen Railway (December 2011) Extension planned from Shenzhen to Hong Kong
 - n Expand sales of computerized-interlocking
 - Continuous orders at the level of 100 stations/year
- Urban transportation
 n Expand sales of CBTC
 - Chongqing Line 3 entered revenue service (September 2011)
 Received orders for Southern extension section (revenue service planned in December 2012)

U.K. and Europe

- Expand sales through joint development with Network Rail
 - n On-board units complying with European standard (ETCS)
 - n Plan to start trial running in 2012

India

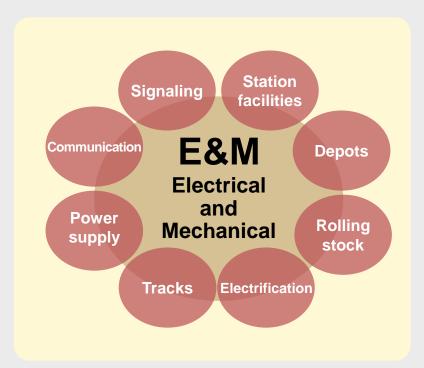
- Enter the market with ETCS
 - n Establish a local engineering base

4-6 Achieve Highly Profitable Structure (Realign Product and Business Portfolios)



Generate earnings by capturing orders for total project integration (E&M)

- **■** Increasing demand for total project integration
 - n Target projects
 - Urban transportation systems (metro, monorail)
 - n Target regions
 - Southeast Asia, Brazil and India
- Strengthen capabilities for E&M
 - n Sales and engineering
 - Established dedicated organization for E&M
 - Strengthen local operations
 - n Project management
 - Strengthen alliance with Mitsubishi Heavy Industries



4-7 Achieve Highly Profitable Structure (Promote Standardization)



Generate earnings by standardizing products

Global A-train

Optimal product lineup by use

n AT100 (metro) **n** AT200 (regional)

n AT300 (high-speed) n AT400 (monorail)

ETCS, CBTC

Develop products compliant with European standards

n U.K.: Expand sales through joint development with

Network Rail

n China: Expand sales of Chinese train control systems

(CTCS)

n China: Expand sales of CBTC

n India: Established a local engineering base

Standard inverters

n China: Enhance manufacturing bases

n U.K.: Capture replacement orders for electrical

components

n India: Enter market via collaboration with partners







Global A-train (1)



AT200 (regional)

nSpecifications

- Maximum service speed
 160 Km/h
- Line length 20 to 26 m/car

4-9 Achieve Highly Profitable Structure (Promote Standardization)



Global A-train (2)





nSpecifications

- Maximum service speed
 200 ~ 240Km/h
- Line length20 ~ 26 m/car

AT400 (monorail)





nSpecifications

	Large	Medium	Small
Train formation (4 cars)	61m	57m	38m
Train width	3.0m	3.0m	2.8m
Train height	5.3m	5.3m	4.8m
Voltage	DC ·	DC 750V	

4-10 Promote Hitachi Smart Transformation Project



Shift from management focused on the Japanese market to truly global management

Strategy

Rigorously promote localization



Globalization of the total value chain

Production costs

- n Establish overseas manufacturing bases and operation centers outside of Japan, China and the U.K.
- n Reduce costs by selecting optimal manufacturing bases

Direct Materials costs

- n Build global supply chain (Establish global procurement network)
- n Strengthen engineered sourcing

Indirect costs

- n Reduce indirect costs by centralizing and standardizing administrative and overlapping operations
- n Actively utilize global human resources

4-11 Global Supply Chain



U.K.

- •Expand maintenance business throughout the U.K.
- Establish manufacturing bases for rolling stock
- Enter signaling/train control systems market
- •Expand and enhance procurement bases



China

- Expand manufacturing bases for electrical components
- •Further develop signaling/train control systems businesses
- •Strengthen alliances with local companies





Southeast Asia

- Establish new engineering centers
- •Establish new procurement bases

India

- Establish new engineering centers
- •Establish new procurement bases
- •Strengthen alliances with local companies
- Establish manufacturing bases for rolling stock and signaling/control systems
- Expand and enhance existing bases
 - ▲ Develop new bases



Brazil

- •Establish a manufacturing base for rolling stock by JV
- •Strengthen alliances with local companies

Europe

Consider establishing a



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FY2015 Targets

- Revenues: ¥320 billion
- Overseas revenues ratio: Over 60%
- Operating income ratio : 8%

Accelerate globalization with technologies developed in Japan

Cautionary Statement



Certain statements found in this document may constitute "forward-looking statements" as defined in the U.S. Private Securities Litigation Reform Act of 1995. Such "forward-looking statements" reflect management's current views with respect to certain future events and financial performance and include any statement that does not directly relate to any historical or current fact. Words such as "anticipate," "believe," "expect," "estimate," "forecast," "intend," "plan," "project" and similar expressions which indicate future events and trends may identify "forward-looking statements." Such statements are based on currently available information and are subject to various risks and uncertainties that could cause actual results to differ materially from those projected or implied in the "forward-looking statements" and from historical trends. Certain "forward-looking statements" are based upon current assumptions of future events which may not prove to be accurate. Undue reliance should not be placed on "forward-looking statements." as such statements speak only as of the date of this document.

Factors that could cause actual results to differ materially from those projected or implied in any "forward-looking statement" and from historical trends include, but are not limited to:

neconomic conditions, including consumer spending and plant and equipment investment in Hitachi's major markets, particularly Japan, Asia, the United States and Europe, as well as levels of demand in the major industrial sectors Hitachi serves, including, without limitation, the information, electronics, automotive, construction and financial sectors;

nexchange 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:

nuncertainty as to Hitachi's ability to access, or access on favorable terms, liquidity or long-term financing;

nuncertainty as to general market price levels for equity securities, declines in which may require Hitachi to write down equity securities that it holds;

nthe potential for significant losses on Hitachi's investments in equity method affiliates;

nincreased 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:

nuncertainty 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;

nrapid technological innovation;

nthe 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; nfluctuations in the price of raw materials including, without limitation, petroleum and other materials, such as copper, steel, aluminum, synthetic resins, rare metals and rare-earth minerals, or shortages of materials, parts and components:

nfluctuations in product demand and industry capacity:

nuncertainty as to Hitachi's ability to implement measures to reduce the potential negative impact of fluctuations in product demand, exchange rates and/or price of raw materials or shortages of materials, parts and components;

nuncertainty as to Hitachi's ability to achieve the anticipated benefits of its strategy to strengthen its Social Innovation Business:

nuncertainty as to the success of restructuring efforts to improve management efficiency by divesting or otherwise exiting underperforming businesses and to strengthen competitiveness and other cost reduction measures:

In a socioeconomic and political conditions and the regulatory and trade environment of countries where Hitachi conducts business, particularly Japan, Asia, the United States and Europe, including, without limitation, direct or indirect restrictions by other nations on imports and differences in commercial and business customs including, without limitation, contract terms and conditions and labor relations;

nuncertainty as to the success of alliances upon which Hitachi depends, some of which Hitachi may not control, with other corporations in the design and development of certain key products:

nuncertainty as to Hitachi's access to, or ability to protect, certain intellectual property rights, particularly those related to electronics and data processing technologies;

nuncertainty as to the outcome of litigation, regulatory investigations and other legal proceedings of which the Company, its subsidiaries or its equity method affiliates have become or may become parties;

nthe possibility of incurring expenses resulting from any defects in products or services of Hitachi:

nthe possibility of disruption of Hitachi's operations by earthquakes, tsunamis or other natural disasters;

nuncertainty as to Hitachi's ability to maintain the integrity of its information systems, as well as Hitachi's ability to protect its confidential information or that of its customers;

nuncertainty as to the accuracy of key assumptions Hitachi uses to evaluate its significant employee benefit-related costs; and

nuncertainty as to Hitachi's ability to attract and retain skilled personnel.

The factors listed above are not all-inclusive and are in addition to other factors contained in other materials published by Hitachi.

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