Hitachi Zosen Corporation

Financial Results 2nd Quarter FY2015



November 2015

Overview of P&L

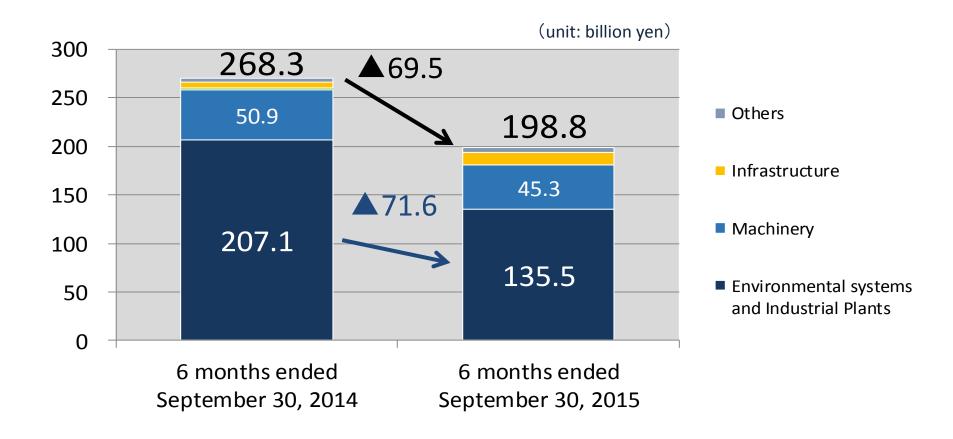


(Unit: billion yen)

\(\circ\)					
	6months ended September 30,2014	6months ended September 30,2015	Difference		
Order intake	268.3	198.8	-69.5		
Net Sales	141.7	158.1	16.4		
Operating income	-3.5	-0.4	3.1		
(Ratio)	-2.5%	-0.3%	2.2%		
Ordinary income	-4.9	-1.2	3.7		
(Ratio)	-3.5%	-0.8%	2.7%		
Net income	-2.9	-3.9	-1.0		
(Ratio)	-2.1%	-2.5%	-0.4%		

Order intake by segments

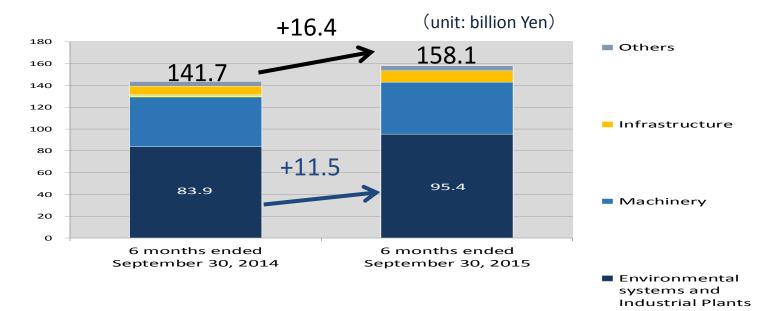




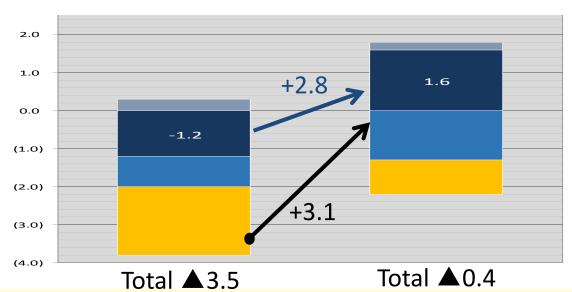
Net sales & Operating income



Net sales



■ Operating income



P&L by Segments



(unit: billion Yen)

					(1	ınit: billion Yen)
		Environmental Systems and Industrial Plans	Machinery	Infrastructure	Others	Total
2Q	Order intake	135.5	45.3	13.3	4.7	198.8
FY2015	Net Sales	95.4	47.6	10.4	4.7	158.1
(6 months) Operating income	Operating income	1.6	-1.3	-0.9	0.2	-0.4
2Q	Order intake	207.1	50.9	5.9	4.4	268.3
FY2014	Net Sales	83.9	45.7	7.6	4.5	141.7
(6 months) Operating income	Operating income	-1.2	-0.8	-1.8	0.3	-3.5
	Order intake	-71.6	-5.6	7.4	0.3	-69.5
Difference	Net Sales	11.5	1.9	2.8	0.2	16.4
	Operating income	2.8	-0.5	0.9	-0.1	3.1





Cautionary Statement

Forward-looking statements are based on information currently available to Hitachi Zosen Corporation. Therefore those forward-looking statements include unknown risks and uncertainties. Accordingly, you should note that the actual results could differ materially from those forward-looking statements. Risks and uncertainties that could influence the ultimate outcome include, but are not limited to, the economic conditions surrounding Hitachi Zosen Corporation and/or exchange rate fluctuation.



Hitachi Zosen Corporation

FY2014 Financial Results and Progress of Hitz Vision ${\rm I\hspace{-.07cm}I}$

Fujisan Eco Park Incineration Center (71.5t/day × 2units)
Gotemba-Oyama Regional Administrative Association(Shizuoka, Japan)



November 2015 Hitachi Zosen Corporation

Contents



- Overview of FY2014 Consolidated Financial Results and Forecast of FY2015
- 2. Progress of Mid Term Business Plan "Hitz Vision ${
 m I\hspace{-.1em}I}$ "
- 3. Key Business Strategies
- 4. New Business and Products



1. Overview of FY2014 Consolidated Financial Results and Forecast of FY2015

Key Points of FY2014 Results



- FY2014 exceeds the last year result
- Big growth of Environmental system division's order intake

FY2014 Results and FY2015 Forecast Overview



(Unit: Billion Yen)

	FY2013	FY2014	FY2015	FY2016
	Actual	Actual	Forecast	Hitz−V I I Plan
Order intake	328.4	452.7	450.0	500.0
Net sales	333.4	359.3	390.0	400.0
Operating income	7.8	12.8	14.5	23.0
(ratio)	2.4%	3.6%	3.7%	5.8%
Non-operating P&L	-1.6	-5.3	-3.5	-3.0
Ordinary income	6.2	7.5	11.0	20.0
(ratio)	1.9%	2.1%	2.8%	5.0%
Extraordinary P&L	0.0	1.8	-1.4	0.0
Income tax & minority interests	-2.5	-4.2	-4.1	-7.0
Net income	3.7	5.1	5.5	13.0
(ratio)	1.1%	1.4%	1.4%	3.3%

Promote flat-matrix management structure: Reorganization



Reorganization to divided by industry from our customers' perspective

Public Sector Environment, Energy & Plant Business Headquarters Environment, Energy & Plant Headquarters 1) Environmental Systems (2)Industrial Plants (2) Industrial Plants (3) Water Treatment Systems (1) Environmental Systems Water Treatment & Industrial **Equipment Headquarters** Infrastructure Business Headquarters **3**Water Treatment Systems 4 Industrial Equipment Division Machinery & Infrastructure Headquarters **8** Shield Tunneling Machines 9 Disaster Prevention systems (5) Marine Diesel Engines (6) SCR (Selective **Private Sector** Catalytic Reduction) NOx Removal System 7 Process/Nuclear Equipment **Machinery Business Headquarters 8** Shield Tunneling Machines 9 Disaster Prevention systems **Precision Machinery**

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4)Industrial

Equipment Division

(5)Marine Diesel

7) Process/Nuclear

Equipment

10 Systematic Machinery Business

11)Electronic Control Business

Engines

6)SCR

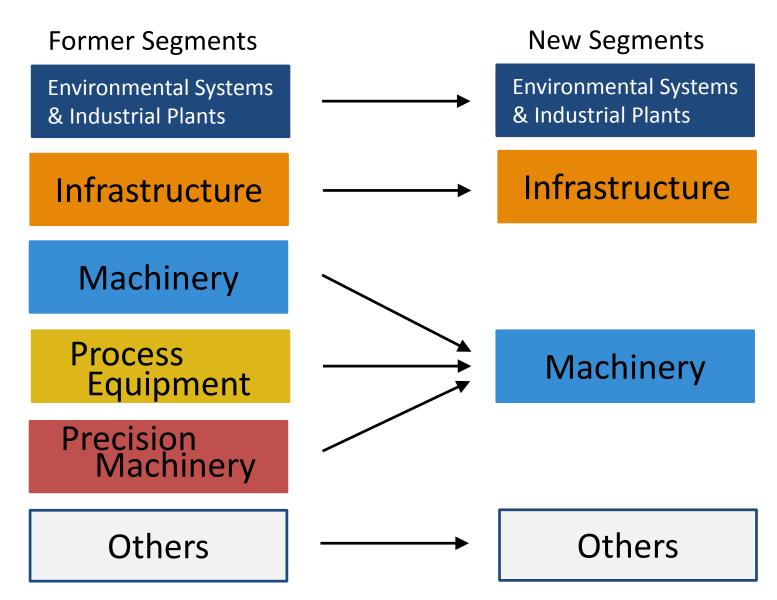
Headquarters

10 Systematic Machinery Business

(1) Electronic Control Business

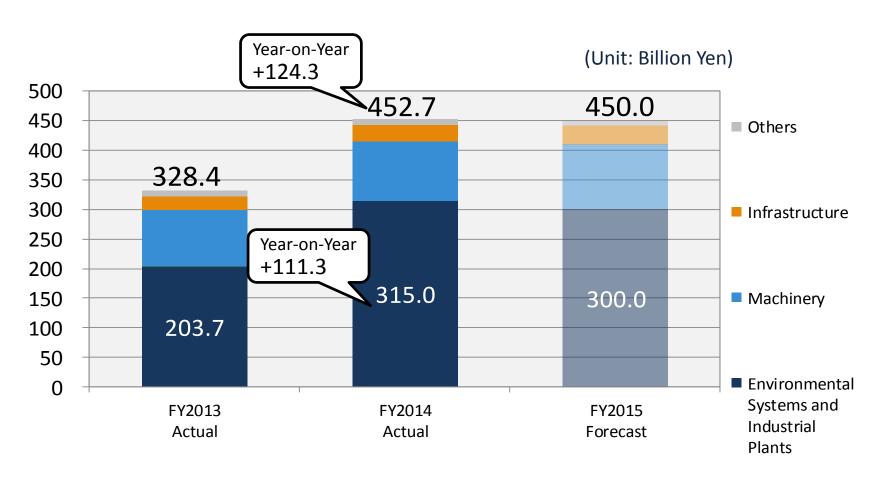
Change of Business Segments





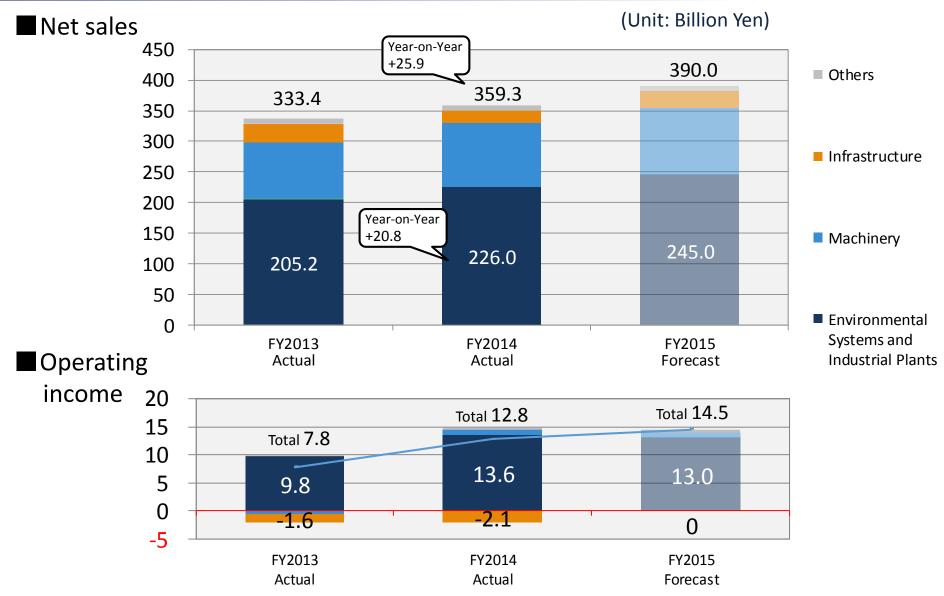
Order intake





Net sales & Operating income





Order intake, Net sales & Operating income by Segments



(unit: billion Yen)

		Environmental Systems & Industrial Plants	Machinery	Infrastructure	Others	Total
	Order intake	203.7	93.8	22.5	8.4	328.4
FY2013 Actual	Net sales	205.2	91.6	28.1	8.5	333.4
Opera	Operating income	9.8	-0.5	-1.6	0.1	7.8
	Order intake	315.0	100.6	27.7	9.4	452.7
FY2014 Actual	Net sales	226.0	104.4	19.4	9.5	359.3
	Operating income	13.6	0.8	-2.1	0.5	12.8
	Order intake	300.0	110.0	31.0	9.0	450.0
FY2015 Forecast	Net sales	245.0	110.0	26.0	9.0	390.0
	Operating income	13.0	1.0	0.0	0.5	14.5



2. Progress of Mid Term Business Plan "Hitz Vision II"

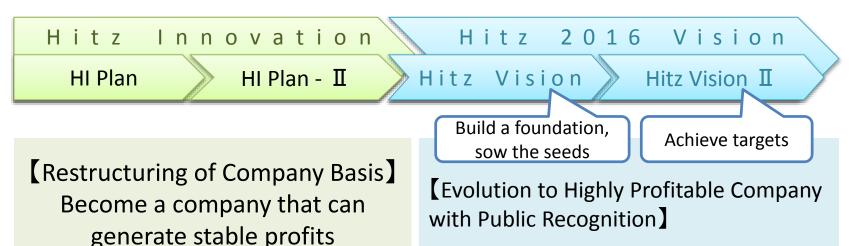
1. Positioning of medium-term management plans and Business Domains



◆Long-term vision and medium-term management plans

<FY2005-FY2010>

<FY2011-FY2016>



◆Business Domains

A. Environment/Green Energy

- Environmental restoration
- Effective use of natural resources
- Expansion of utilization of renewable energy sources

B. Social Infrastructure & Disaster Prevention



Hitz Vision II: Three years to achieve targets

(Unit: Billion yen)

	FY2013 Actual	FY2014 Actual	FY2016 Targets
Order intake	328.4	452.7	500.0
Net sales	333.4	359.3	400.0
Operating margin	7.8 (2.4%)	12.8 (3.6%)	23.0 (5.8%)
R&D expenses	6.2 (1.9%)	6.1 (1.7%)	12.0 (3.0%)

A. Strengthen profitability

Each business and product to achieve No. 1 profitability in its area

B. Expand scale of operations

Expand to Yen 500 billion company with public recognition

C. Fortify financial structure

Achieve and maintain at least 30% shareholders' equity ratio, and secure a stable financial position

2. Hitz Vision II management targets (2)



♦ Status of Well-balanced Business Portfolio

(Unit: Billion yen)

	FY2010		FY2013	3	FY201	.4
Domestic sales	237.5	83%	217.4	65%	237.1	66%
Overseas sales	49.6	17%	116.0	35%	122.2	34%
Total	287.1	100%	333.4	100%	359.3	100%
Incl. New Businesses/Products	_	_	0.9	0%	3.2	1%
Incl. Stable businesses (after-sales service, etc.)	115.5	40%	139.5	42%	136.1	38%

[Overseas]

17%→30% (FY2016)

[Stable businesses]

40%→50% (FY2016)

[New Businesses/Products]

50bil (FY2016)

2. Hitz Vision II management targets (3)



♦ Investment

(Unit: Billion Yen)

	Hitz Vision (Actual) 3 years total	Hitz Vision II (Plan) 3 years total
R&D expenses	20.0	30.0
Capital investment	19.0	30.0
M&A & others	13.8	40.0
Total	52.8	100.0



3. Key Business Strategies

1. Expansion in growth areas (Overseas): Energy from Waste (1)



♦ Strategic M&A of overseas companies

Hitachi Zosen Inova (Switzerland): since Dec. 2010

Consolidation of licensor → Aiming global Market

Steady order intake in Europe

Cleveland STV4+5: 456t/dx2 24MW (FY2011) (UK)

• Vantaa: 480t/dx2 (FY2011) (Finland)

• Ferrybridge: 1,013t/dx2 68MW (FY2012) (UK)

• Luzern: 300t/dx2 (FY2012) (Switzerland)

Buckinghamshire: 900t/dx1 22MW (FY2013) (UK)
 Severnside: 581t/dx2 34MW (FY2013) (UK)

• Poznan: 360t/dx2 15MW (FY2014) (Poland)

• Hereford & Worcestershire:

624t/dx1 21MW (FY2014) (UK)

• Dublin: 840t/dx2 69MW (FY2014) (Ireland)



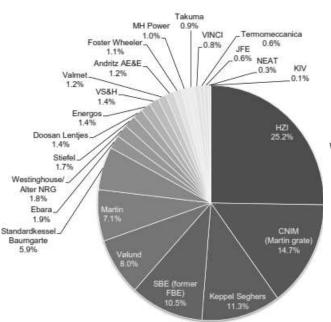
Accelerate synergy with Hitachi Zosen

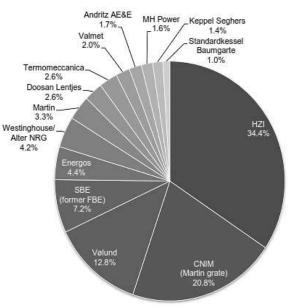
1. Expansion in growth areas (Overseas): Energy from Waste (2)

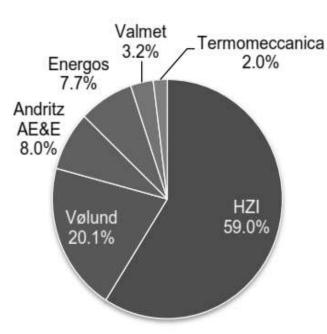


HZI Market Shares – European EfW Market

Market Shares 2005 – 2014 by supplier Market Shares 2012 – 2014 by supplier Market Shares in 2014 by supplier







Total: 106,793 tpd

Total: 25,923 tpd

Total: 5,623 tpd

Source: Vaccani European Market Share Analysis of Thermal Waste Treatment Plants. 2015 Edition

1. Expansion in growth areas (Overseas): Energy from Waste (3)

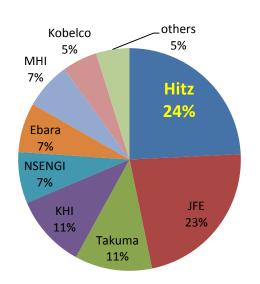


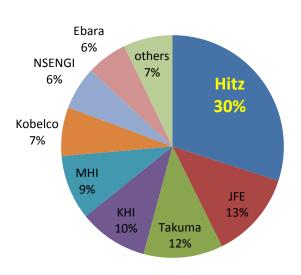
Hitz Market Shares – Japanese EfW Market

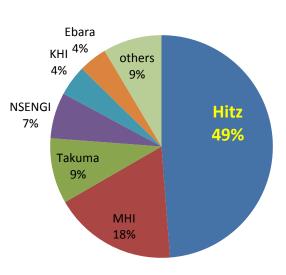
Market Shares
2005 – 2014 by supplier

Market Shares
2012 – 2014 by supplier

Market Shares in 2014 by supplier







Total: 16,515 tpd

Total: 9,143 tpd

Total: 2,247 tpd

Source: Internal survey by Hitachi Zosen Corporation

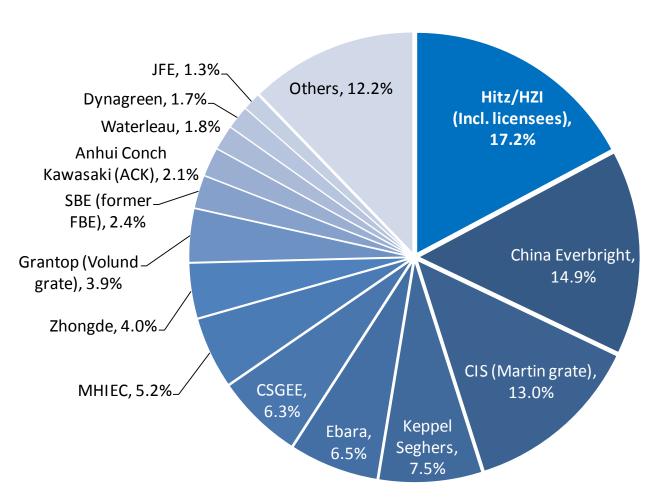
EfW: Energy from Waste

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1. Expansion in growth areas (Overseas): Energy from Waste (4)



Market Shares by Supplier 2008-2014 – China



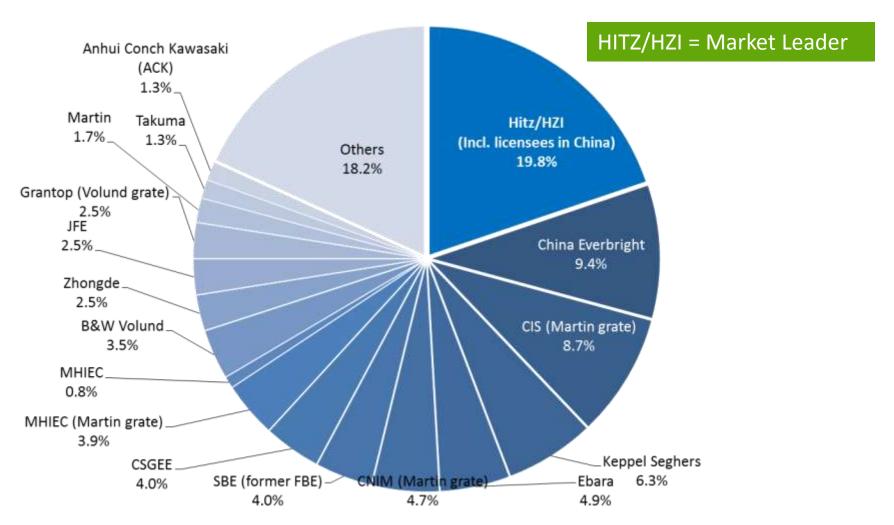
Total: 171,962 tpd

Source: Vaccani Worldwide Market Share Analysis of Thermal Waste Treatment Plants, 2015 Edition

1. Expansion in growth areas (Overseas): Energy from Waste (5)



Market Shares by Supplier 2008-2014 – Worldwide



Total: 271,258 tpd

Source: Vaccani Worldwide Market Share Analysis of Thermal Waste Treatment Plants, 2015 Edition

1. Expansion in growth areas (Overseas): Energy from Waste (6)



◆World-class operation bases, ample reference projects

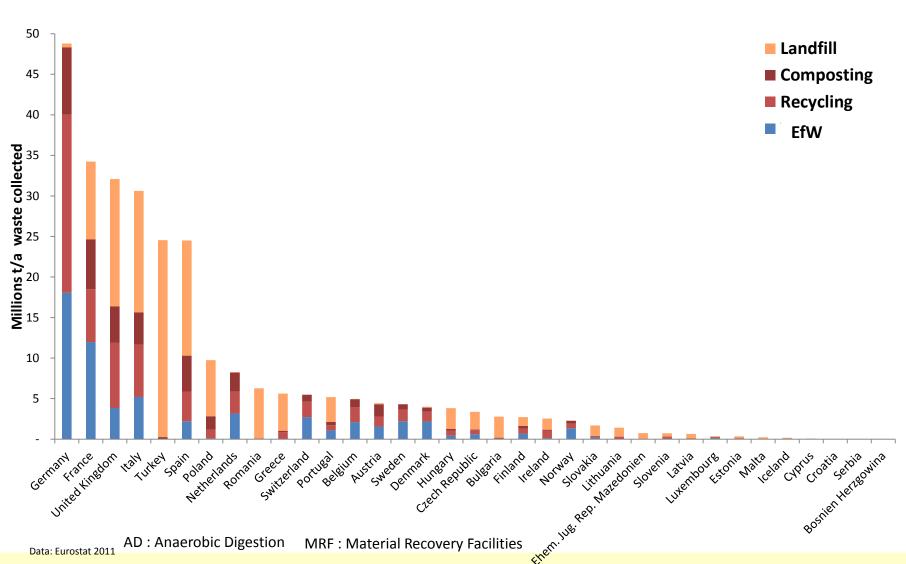


nangnai, China (500t/ux4

1. Expansion in growth areas (Overseas): Energy from Waste (7)



European Waste Management: Outlook Europe Remains Important Market for EfW and AD

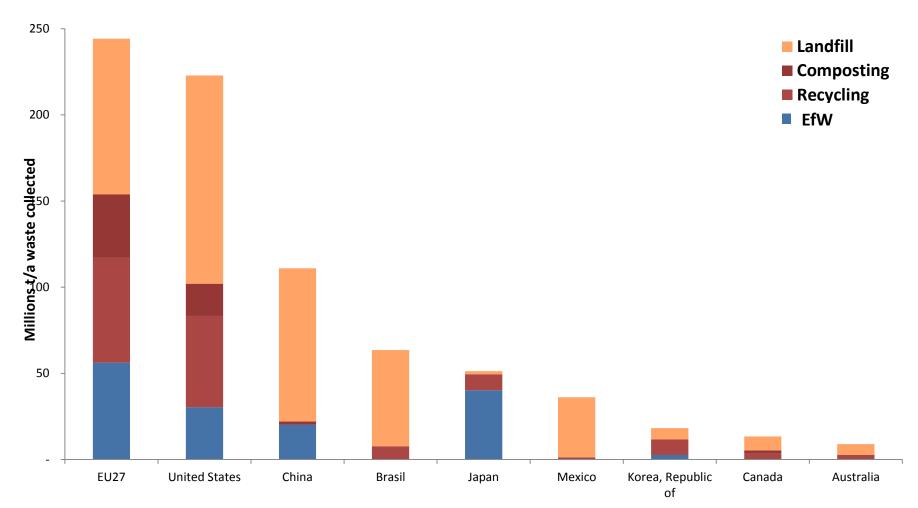


29

1. Expansion in growth areas (Overseas): Energy from Waste (8)



Global Waste Management: Outlook Potential in Many Markets, Slow Development Outside of China

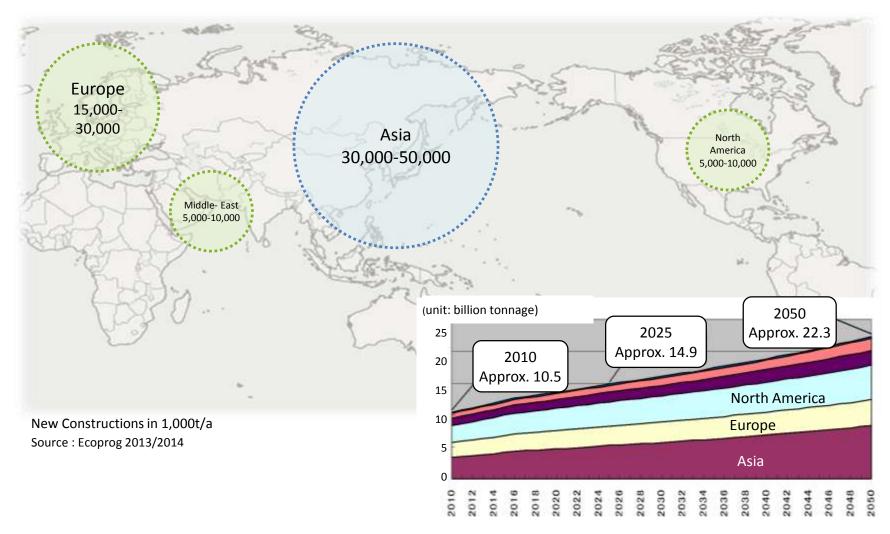


Data from Eurostat and OECD, 2012

1. Expansion in growth areas (Overseas): Energy from Waste (9)



◆Global forecast market volume in EfW 2013-2017

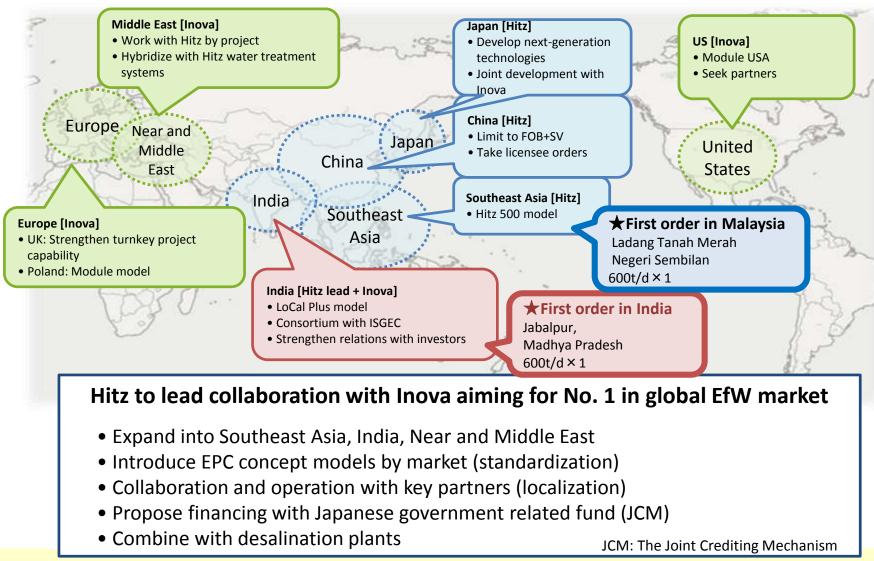


Source: "Estimates and Projections of Global Waste Emission Volumes," Research Institute of Solid Waste Management Engineering

1. Expansion in growth areas (Overseas): Energy from Waste (10)



◆Aim to be No. 1 in global EfW market



Japan

Expand business based on strong track record

- (1) Expand AOM business
 - Propose added value for each facility (life extension, CO₂ emissions reduction)
 - Disaster management
 Retrofit facilities, solution for disaster management bases
 Expand solutions menu (disaster prevention, emergency response, recovery and reconstruction, etc.)
 - Develop further technologies, increase plants with technology (advanced maintenance, energy recovery and etc.)
- (2) Expand long-term operation business
 - Differentiate through feedback of experiences (optimal LCC, etc.)
 - Propose long-term operation along with life extension work
 - Streamline with operation support systems

Overseas

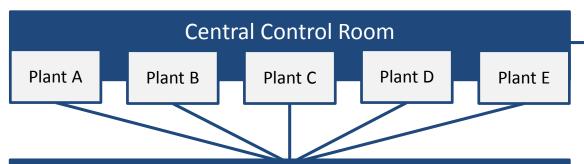
Expand worldwide the know-how acquired in Japan

- (1) China: After-sales and maintenance services
- (2) Southeast Asia: Market research for long-term operation
- (3) Europe: Expansion of AOM business by Inova (including by M&A)

AOM: After-service, Operation and Maintenance



Rationalization by overall operation of support systems



Remote Monitoring / Operation Support Center

Remon system

(sharing of operation/maintenance data)

Maron system

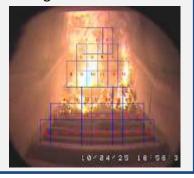
(sharing of site images)

- Plant operations monitored remotely at support center
- 24-hour technical support (operational optimization, troubleshooting, maintenance and repairs, etc.)
- Collects operational data from each plant and provides feedback for future projects



CoSMoS system (combustion control)

Learns the decisions of seasoned engineers, forms a model to maintain optimal combustion settings



Feedback of data for future projects



4. New Businesses and Products



1. Movable Flap-Gate Type Breakwater



(2) Seabed-installed flap-gate breakwater

Improving reliability and preparing environment toward use of new technology

 Two-year test in actual marine environment at Shin Yaizu Fishing Port → Final report October 2013

Strategy:

- Build a track record with neo RiSe and small seabed type projects
- Prepare operations manual
- Provide information to tsunami preparedness technology advisory committees

36

Betz KRAFAS



2. Electron beam sterilization system

Electron beam sterilization (environment friendly and cost-effective)

- Sterilizes PET bottles without heat or chemical treatment
- Can also be used for paper cartons and other food containers

Strategy:

- Develop an aseptic filling system
- Expand maintenance services
- Pharmaceuticals application
- Develop overseas markets





Certificate of Approval

3. SCR (Selective Catalytic Reduction) system for marine engines

Compliant with IMO Tier III NOx emission standards to be enforced in 2016

Hitz is the leader in SCR system for marine engines

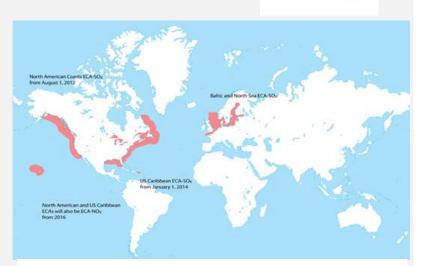
- World's first new vessel commissioned with certified SCR system launched in November 2011
- Development completed in FY2013
- SCR system received World's first approval from Man Diesel & Turbo (MDT) in October 2014



Note:

Tier III requires an 80% reduction of NOx emissions from Tier I (17.0g/kWh) within emission control areas (ECA)

IMO: International Maritime Organization



Current and Future Emission Control Areas
Source: "Understanding exhaust gas treatment systems", LRS



4. Demonstration Plant for Solar Thermal Power Generation

One-year test got successful results

Saudi Arabia

Thermal Power Generation ⇒Contributing to Desalination plants

Using mirror reflectors to focus sunlight on a tube absorber, which acts as a heat source to generate steam and produce electricity Thermal storage enable continuous power generation during nighttime

Hitz Super Low Profile Fresnel concentrated solar power (HSLPF)

- (1) Controllable reflector in both angle and curvature

 →improvement of the solar concentration ratio
- (2) Lower setup of the tube absorber \rightarrow wind resistance and easy maintenance
- ⇒ Received first order for HSLPF from Mitsubishi Hitachi Power Systems, Ltd.





5. High-speed Seabed Infiltration System (HiSIS®)

One-year operation test was started in June 2014

Abu Dhabi

HiSIS® pilot plant construction

is agreed between the Abu Dhabi Water and Electricity Authority (ADWEA) and Hitachi Zosen contributing to Seawater Reverse Osmosis (SWRO) Desalination Plants

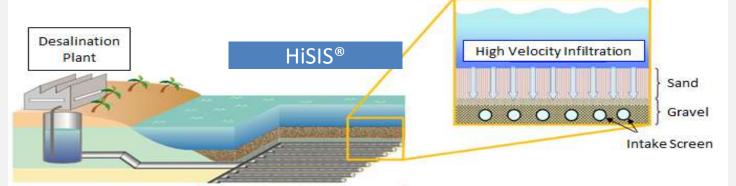
Features of SWRO

Needs fewer electricity consumption, but has problems;

- clogging of membrane
- environmental burden caused by injecting chemicals

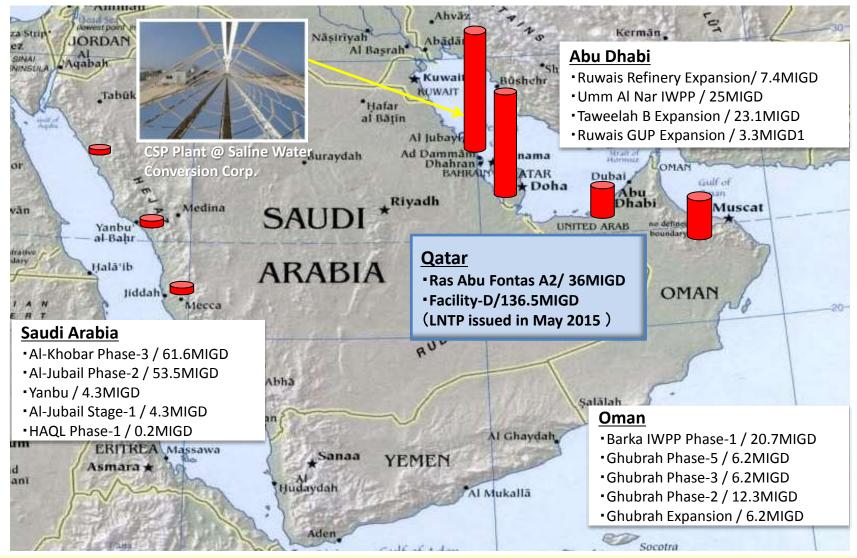
Merits of installing HiSIS® to SWRO

- (1) Saving facilities
 - → Reduction of initial costs
- (2) Restraint the growth of marine life, amount of injecting chemicals, and deterioration of membrane
 - → Reduction of running costs and environmental burden





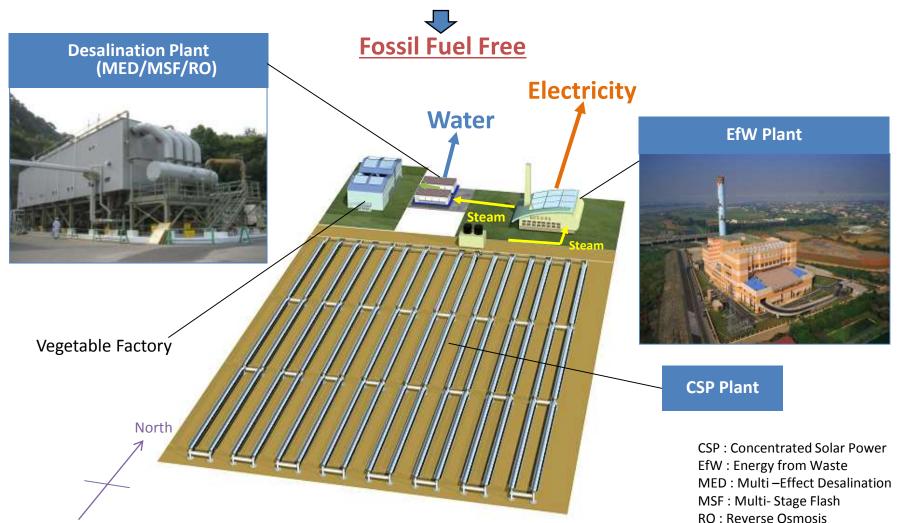
Desalination Plant Experience in Middle East





Low Carbon & Fossil Fuel Free Solution





42



M&A in FY2014

- ✓ Cumberland joined Hitz group
 - → Strengthening A/S network for Seawater electrolysis equipment
 - → Utilization sales network not only water treatment but also other area
- ✓ HZI acquired HNP Kraftwerkstechnik(Germany) engaged in services for EfW and power generation plants(Germany), Axpo Kompogas Engineering with anaerobic biogas technology(Switzerland), and MT-BioMethan GmbH with biogas purification technology(Germany)
 - → Expanding HZI's business area







Cumberland Technology

Axpo Kompogas Technology

MT-BioMethan GmbH Technology

Numerical Targets "Hitz Vision II"



(Unit: Billion Yen)

	FY2013	FY2014	FY2015	FY2016
	Actual	Actual	Forecast	Hitz-V I Plan
Order intake	328.4	452.7	450.0	500.0
Net sales	333.4	359.3	390.0	400.0
Operating income (ratio)	7.8 (2.4%)			23.0 (5.8%)
Ordinary income (ratio)	6.2 (1.9%)			
Net income	3.7	5.1	5.5	13.0
Interest bearing debt	104.3	119.0	126.0	120.0
Shareholders' equity ratio	26.4%	26.6%	27.5%	30.6%
ROE	3.7%	4.9%	5.0%	11.1%





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