

# Powerful Performance

**At home in Energy Plant Engineering**

Company Presentation Hitachi Power Europe GmbH

# Key figures Hitachi, Ltd.

as of 31 March 2013

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	Income*	Sales
Information & Telecommunication Systems	1,261	21,525
Power Systems	361	10,899
Social Infrastructure & Industrial Systems	725	15,829
Electronic Systems & Equipment	354	12,221
Construction Machinery	657	9,108
High Functional Materials & Components	704	16,102
Automotive Systems	426	9,721
Digital Media & Consumer Products	(63)	9,862
Financial Services	353	4,099
Others	483	13,387

\* Operating Income,  
Eliminations Corporate Items: (177)\*\*, (13,825)\*\*\*

5,084\*\* Mio. US \$

108,928\*\*\* Mio. US \$  
Net Sales Total

**Employees, worldwide**

**326,000**

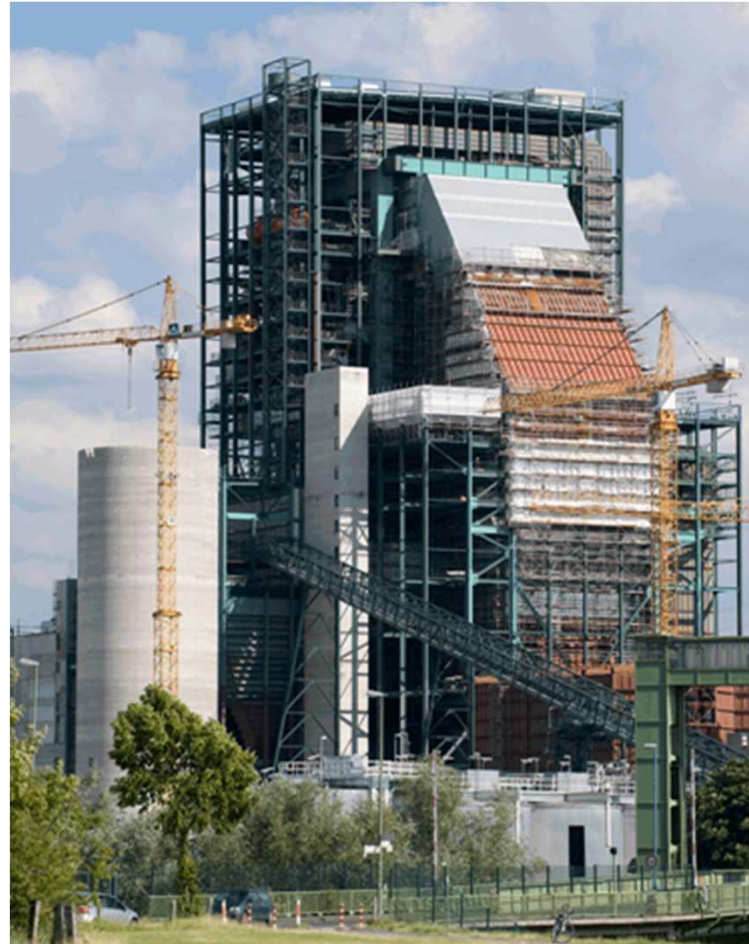


# The Power Systems division of Hitachi, Ltd.

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## Power Systems and Equipment

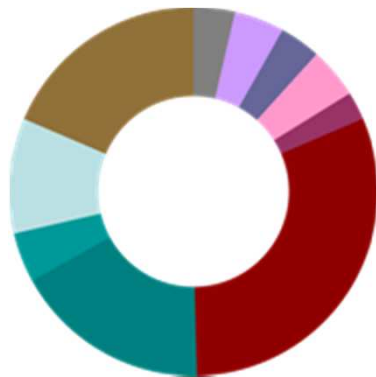
- Thermal power plants
- Nuclear power plants
- Hydroelectric power plants
- Substations and power conversion equipment
- Air quality control systems



# Hitachi Power Systems

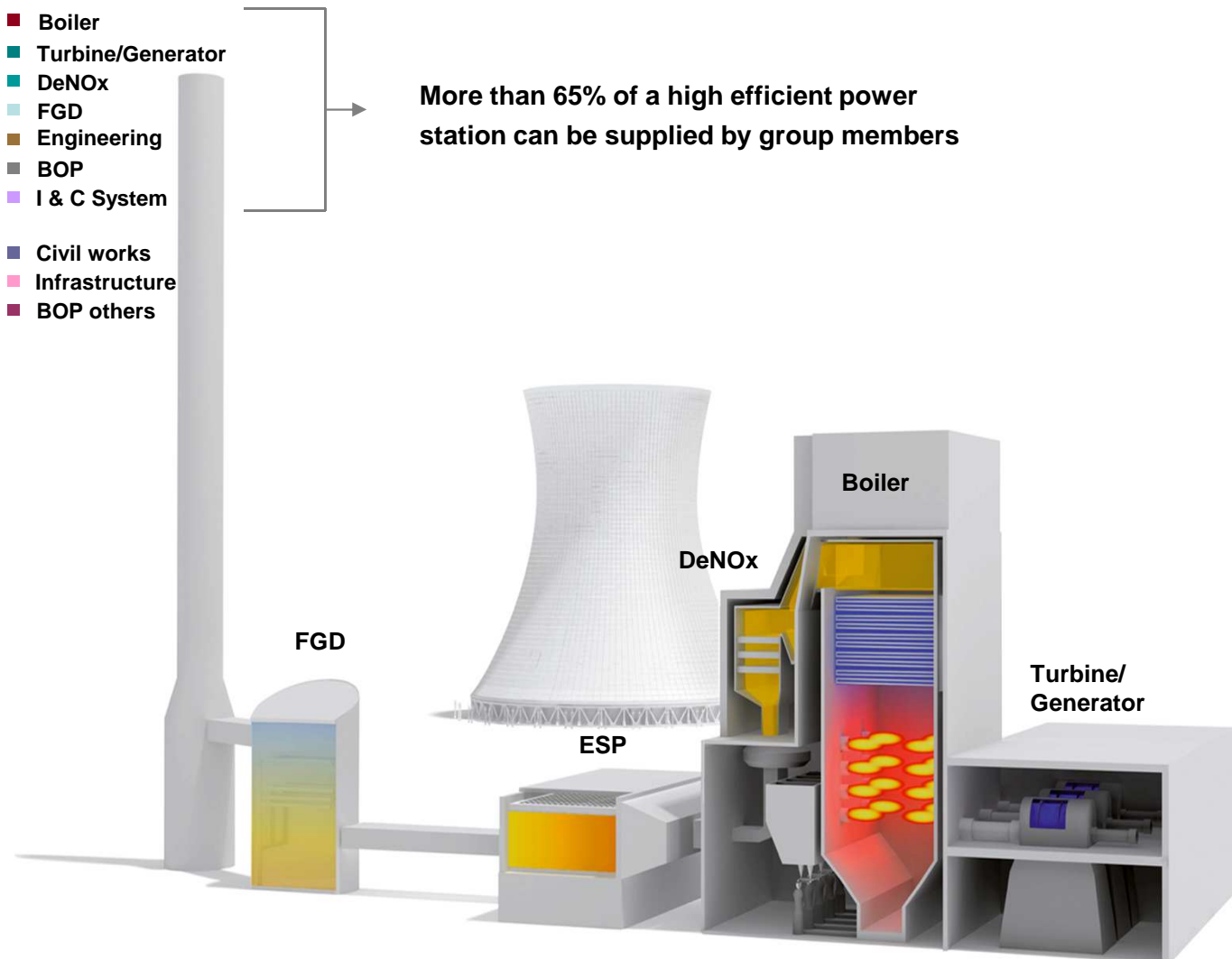
Competence in fossil-fired power plants

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- Boiler
- Turbine/Generator
- DeNOx
- FGD
- Engineering
- BOP
- I & C System
- Civil works
- Infrastructure
- BOP others

More than 65% of a high efficient power station can be supplied by group members



# Hitachi Power Europe

## Group of companies

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**Babcock Fertigungszentrum  
Oberhausen GmbH**

Production of  
first-class components  
for power plants  
(e.g. coal mill),  
mainly for  
Hitachi Power Europe



**BGR Boilers Private Ltd.**

Engineering, manufacture  
and delivery of  
utility steam generators  
in India



**Donges SteelTec GmbH**

One of Germany's leading  
steel and bridge  
constructors;  
manufacturing of  
steel structure  
for power plants

**Hitachi Power Europe GmbH**



**Hitachi Power Africa  
(Pty) Ltd.**

Subsidiary of HPE in  
South Africa; construction  
and engineering of  
12 utility steam generators  
for utility ESKOM



**Hitachi Power Europe  
Service GmbH**

Service, rehabilitation  
and components  
in the industrial plant field



**Meeraner Dampfkesselbau  
GmbH**

Manufacturing of  
premium components  
for utility steam generators  
(e.g. pressure parts)  
for power plants



- **Design and construction** of conventional fired power plants
- **Delivery of components** such as utility steam generator, environmental technology, turbines, milling plants

# Hitachi Power Europe

## Shareholders and key figures

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- Start of business:  
1 May 2003
- Subscribed capital:  
182 Mio. EUR



	2010	2011	2012
Employees	1,130	1,052	871
Order intake in Mio. EUR:	86	225	1,159
Order backlog in Mio. EUR: (acc. HGB, not consolidated)	5,216	5,413	5,894





# Hitachi Power Europe

## Main business activities

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### Conventional power plants

- Coal fired EPC power plants
  - Power train
  - Utility steam generator
  - Firing systems
  - Mills
  - Ash handling systems
  - Flue gas cleaning systems
  - Steam turbines (Hitachi, Ltd.)
- 
- CCS-Technology
  - Combined-cycle power plants
  - Gas turbines (Hitachi, Ltd.)
- 
- Rehabilitations
  - Modernization
- 
- Service for energy systems and power plants
  - Delivery of all replacement parts



# Hitachi Power Europe

## Market region and locations

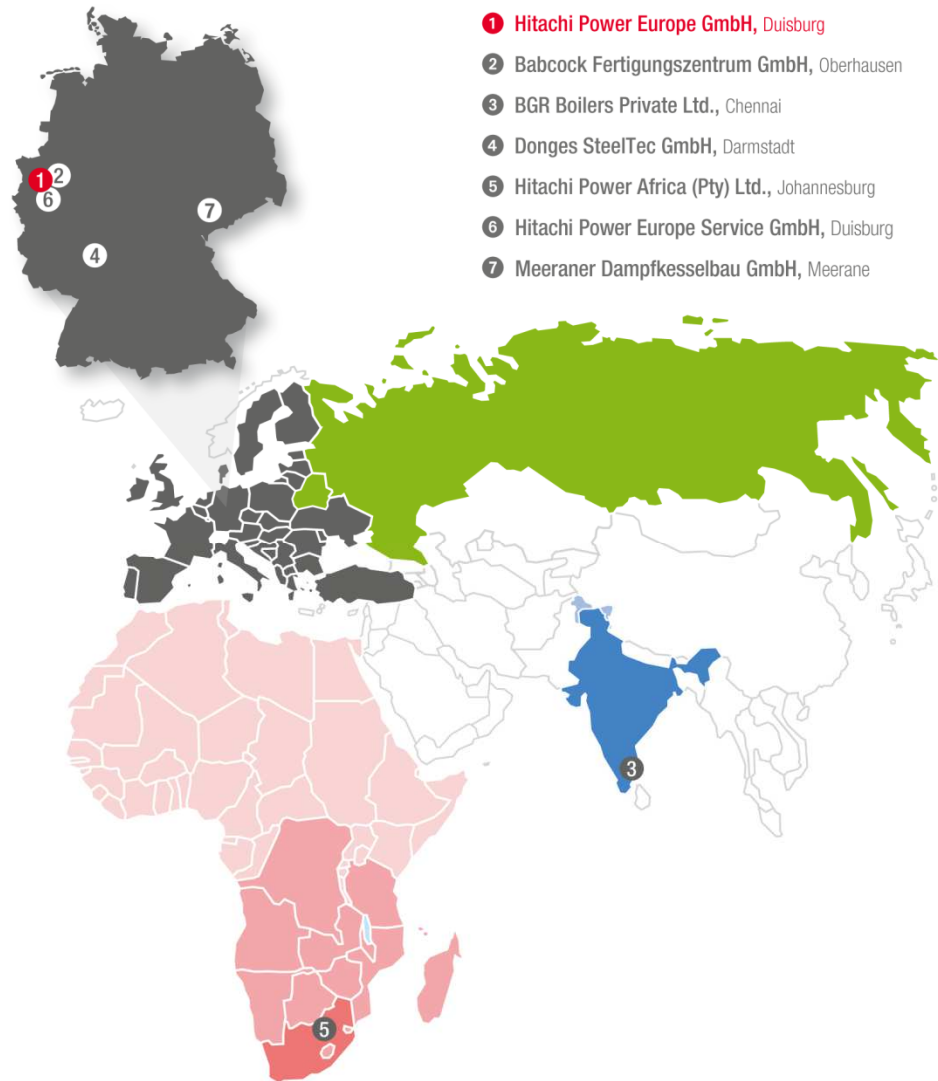
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Hitachi Power Europe is responsible for the **EIRA** region as part of a global strategy for Power Systems:

- Europe (incl. Turkey)
- India
- Russia (incl. Belarus)
- Africa / SADC\*

\*SADC: Southern African Development Community

Product portfolio enlarged with steam turbine/ generator, gas turbine and EPC.





# Hitachi Power Europe

## Selection of projects / products

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As of June 2013

Project	Customer	Product	Capacity
<b>Ptolemais</b> Greece	Terna S.A.	Power Train**	1 x 660 MW
<b>Kozienice</b> Poland	Enea	Turnkey power plant *	1 x 1,075 MW
<b>Maja / Solapur / Raghunathpur</b> India	NTPC	Utility steam generator	6 x 660 MW
<b>Kusile</b> South Africa	ESKOM	Utility steam generator	6 x 800 MW
<b>Medupi</b> South Africa	ESKOM	Utility steam generator	6 x 800 MW
<b>Eemshaven</b> Netherlands	RWE	Flue gas cleaning	2 x 800 MW
<b>Rotterdam</b> Netherlands	Electrabel / GDF Suez	Power Train **	1 x 790 MW
<b>Wilhelmshaven</b> Germany	Electrabel / GDF Suez	Power Train **	1 x 790 MW
<b>Maasvlakte</b> Netherlands	E.ON	Utility steam generator	1 x 1.100 MW
<b>Moorburg</b> Germany	Vattenfall	Utility steam generator	2 x 820 MW
<b>Westfalen</b> Germany	RWE	Flue gas cleaning	2 x 800 MW
<b>Datteln</b> Germany	E.ON	Utility steam generator	1 x 1,100 MW
<b>Neurath F &amp; G</b> Germany	RWE	Utility steam generator	2 x 1,100 MW
<b>Boxberg</b> Germany	Vattenfall	Utility steam generator	1 x 670 MW
<b>Walsum</b> Germany	Evonik / EVN	Turnkey power plant *	1 x 750 MW
<b>Gent</b> Belgium	Electrabel	Blast furnace gas utility steam generator	1 x 305 MWel

\* Supply of utility steam generator, flue gas cleaning equipment, steam turbine/ generator, civil engineering including cooling tower; overall plant layout

\*\* Power Train = utility steam generator, flue gas cleaning equipment, steam turbine/ generator including balance-of-plant equipment (excluding construction work, electrical engineering, instrumentation & control, external coal feeding etc.)

# Hitachi Power Europe – References (selection)

■ Power Plants (turnkey) ■ Power Trains ■ Steam Generators ■ FGDs

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\* in operation

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