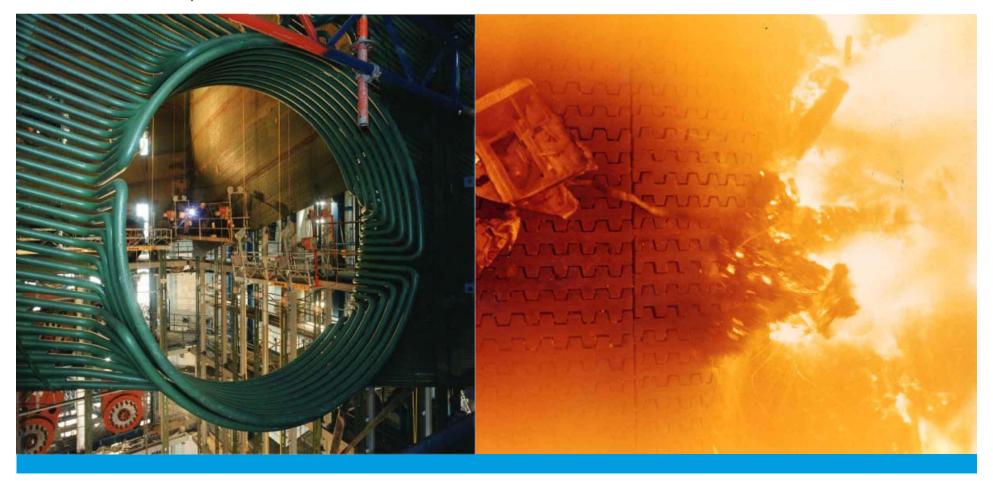


Focus on Steam Generators – POWERing ahead together

Capital Markets Day "Power Services" at Moorburg Power Plant

December 2, 2010

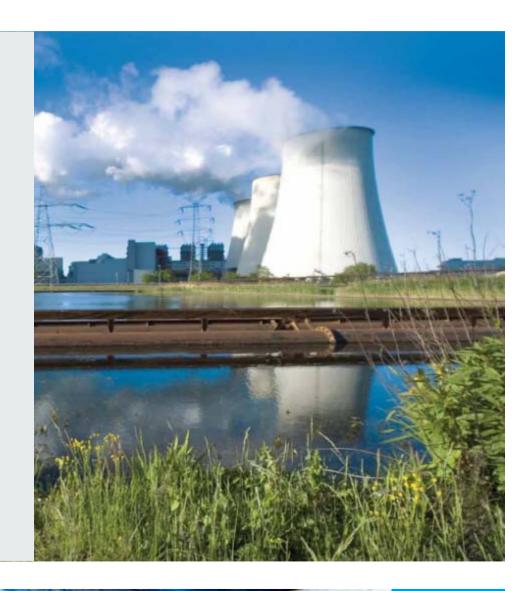
Gerd Lesser, CEO of BB Power Services GmbH





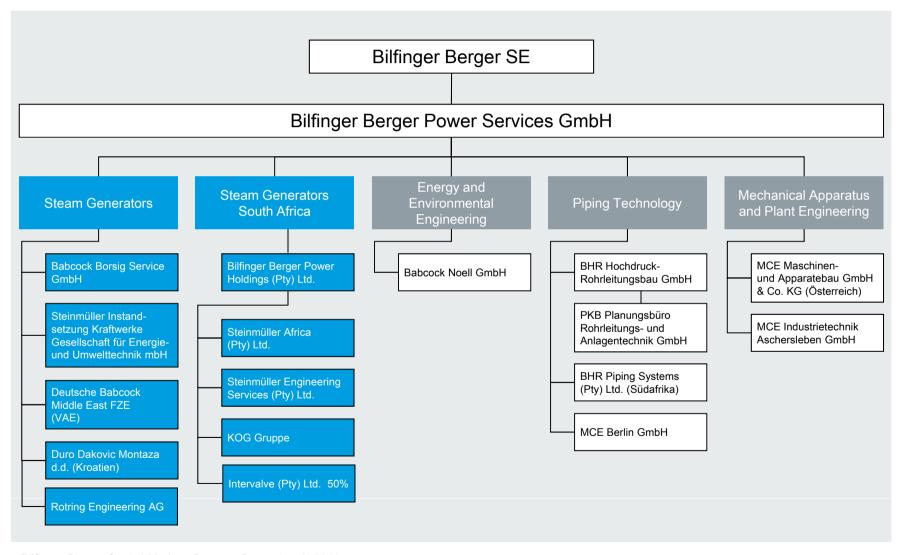
Agenda

- 1. Competences and portfolio
- 2. Contract structure
 - 2.1 Definition
 - 2.2 References
- 3. Value added
 - 3.1 Workshops and capacities
 - 3.2 Assembly capacities
- 4. Market structure
 - 4.1 Main competitors
 - 4.2 Main customers
- 5. New technologies / R&D activities
- 6. Business philosophy



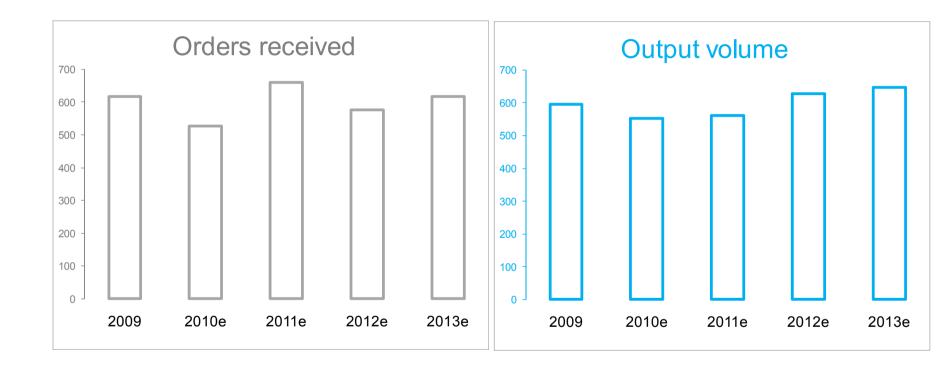
1. Competences and portfolio Steam Generators





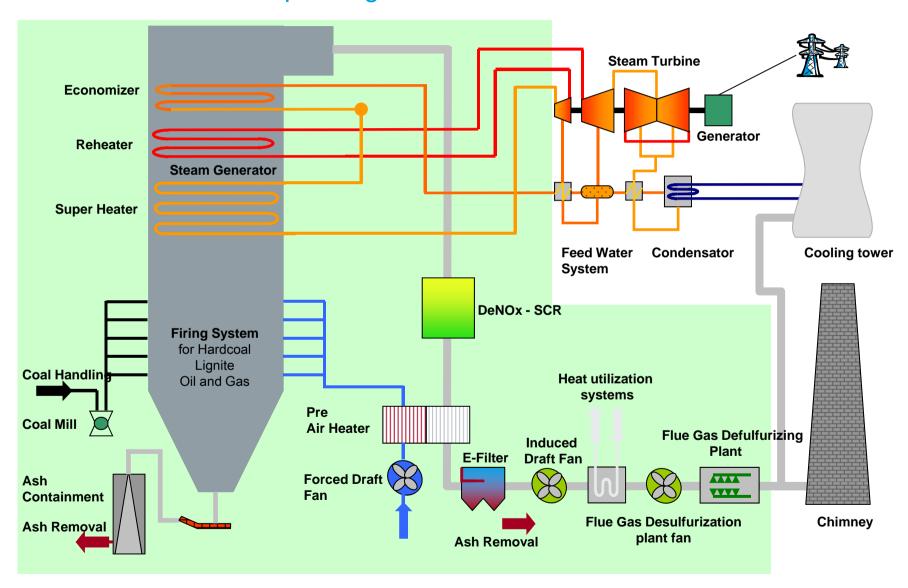
1. Competences and portfolio Development and volume forecast for Steam Generators





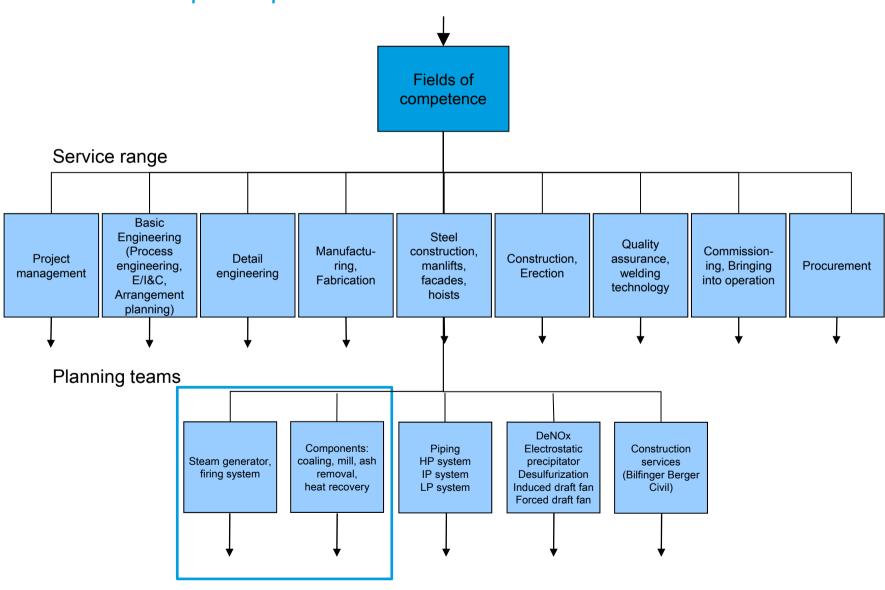
Competences and portfolio Overview of fossil-fuel power generation





1. Competences and portfolio Activities in the power plant sector





1. Competences and portfolio Service range



Steam
Generators &
Pressure Parts



Oil- Gas Firing, Coal Firing Systems



Coal Mills Coal Handling and Ash Removal Systems



Heat Reclaimers

Valves Flow Measurements

Electrical and I & C





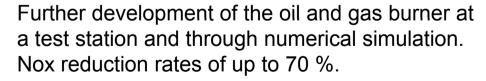


1. Competences and portfolio Low-emission oil and gas burner (ADS burner)

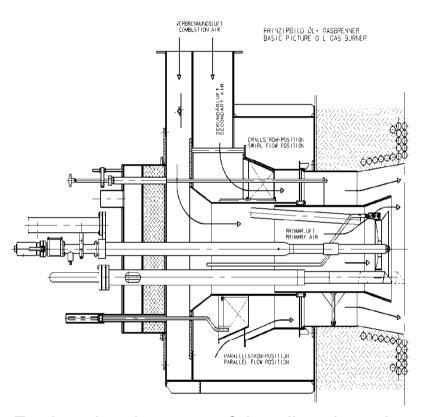








Kallo Power Plant, Belgium: reduction of NOx from 700 mg/Nm³ to < 200 mg/Nm³.



Bilfinger Berger Capital Markets Day

1. Competences and portfolio Coal mills





New development of the coal mill (BBS) together with the Russian company Tyazhmash (Syzran) as well as a newly patented (BBS) separator (for use in Zolling Power Plant and others).

Installation in the Voerde Power Plant Technical data:

- 100 t/h coal, grinding 5% to 90µm filter
- Hot air temperature carrying gas 320°C
- Separator temperature 85°C
- Pressure surge resistance 3.5 bar
- Service life wear parts > 20,000h



2.1 Definition



Projects

Complex orders consisting of engineering, delivery and assembly, including process technology risks.

Service

Contracts with fixed periods and order volume. The difference to the project business is the lack of involvement from the process technology engineering capacities. Examples include planned turnarounds.

Framework agreements

Long-term (1-10 years) service contracts. Service delivery is on demand (no purchase commitment). Invoicing based on time and expenses as well as according to special prices or catalogue prices.

Delivery and spare parts business

Delivery of spare parts for older facilities from the Babcock and Steinmüller history (1:1 delivery of components based primarily on existing parts lists and drawings).

2.2 Reference: Project

Power plant Belchatow, Poland



Client

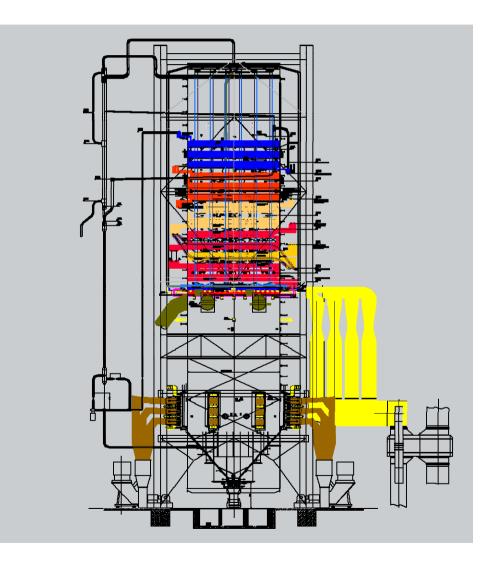
PGE Elektrownia Belchatow

Period

2007 - 2011

Scope

- Modernisation Boiler 3
- Modernisation Boiler 4
- Modernisation Boiler 5



The Multi Service Group. BILFINGER BERGER

2.2 Reference: Service

Heavy oil power stations Cordemais / Aramon, France



Client

EdF

Period

2005 - 2008

Size

Approximately € 10m

Scope

 Refurbishment of pressure part, oil burners, ducts and air heaters incl. insulation for service life extension by another 10 years after an operating time of 25 years.



2.2 Reference: Long term services

Power plant Jänschwalde





The Multi Service Group. BILFINGER BERGER

2.2 Reference: Delivery

Fabrication of boiler components Pretoria, South Africa



Client

Hitachi Power Africa

Period

2009 - 2014

Size

Approximately € 90m

Scope

Manufacture for new Power Plants Medupi and Kusile (12 x 750 MW)

- Coils
- Membrane walls
- Headers



3. Value added

The Multi Service Group. BILFINGER BERGER

3.1 Workshops and product manufacturing Sites and capacities

| | Employees | Square footage (m ²) | Manufacturing Capacity |
|--|-----------|----------------------------------|---------------------------|
| Bilfinger Berger Power Holdings (Pty) Ltd. Steinmüller Africa, Pretoria | 430 | 115,300 | 870,000 h/a |
| Babcock Fertigungszentrum GmbH, Oberhausen 50% shareholding | 130 | 16,000 | 200,000 h/a |
| Heatec Co., Ltd. / Thailand, Laemchabang | 63 | 7,525 | 110,000 h/a |
| Steinmüller Instandsetzung Kraftwerke GmbH, Jänschwalde | 50 | 16,000 | 100,000 h/a |
| Babcock Borsig Service GmbH, St. Ingbert | 26 | 4,500 | 40,000 h/a |
| Đuro Đaković Montaža d.d., Slavonski Brod 81% shareholding | 120 | 14,436 | 260,000 h/a |
| Total manufacturing capacity | 819 | 173,761 | 1,580,000 h/a |

3. Value added

The Multi Service Group. BILFINGER BERGER

3.2 Assembly capacities

| | Internal personnel | External personnel |
|---|--------------------|--------------------|
| Germany Steam generators, components | 1,850,000 h/a | |
| Croatia & Europe Steam generators and industrial plants, environmental technology, components | 500,000 h/a | |
| South Africa Steam generators, components | 1,150,000 h/a | 4,000,000 h/a |
| Gulf region Stream generators, components, pipings | 600,000 h/a | 4,500,000 h/a |
| Total assembly capacity | 4,100,000 h/a | 8,500,000 h/a |

4. Market structure

4.1 Main competitors



Projects Alstom

Hitachi Power Europe

AE&E

Doosan

Ansaldo

Services / Long-term services Alstom

E.On Anlagenservice

Balcke-Dürr Service

ThyssenKrupp Xervon (LLS)

Doosan

Delivery and spare parts business Alstom

Hitachi Power Europe

Doosan

4. Market structure

4.2 Main customers



SIEMENS





























The energy to lead



Stadtwerke









5. New technologies / R&D activities

- Participation in R & D Projects
 - Micro gas turbine and PowerBlock BTU Cottbus / BBPS
 - Marcko 700- new materials for 700 ° C power plant
 - Examination and testing of new materials FDBR / VGB
 - Development of a steam pressure fluidized bed drying of lignite pilot stage
 - Development of an FGD with extremely high precipitator efficiency for oxyfuel power plant - pilot stage
- Further developments of components and processes
 - Concept development for dried lignite / brown coal (TBK) steam generators
 - Oxyfuel concept development for steam generator based on lignite
 - Welding procedures for new materials and large wall thicknesses
 - Low-NO, Oil /Gas / pulverized coal Burner
 - New materials for pulverized coal Burner less wear, improved temperature resistance and stability
 - Rollers for coal mill
 - Classifier with improved selectivity
- Innovative future technologies CCS (Carbon capture and storage)
 - Pre-combustion capture Oxyfuel-combustion
 - Post-combustion capture CO₂-scrubbing

5. New technologies / R&D activities Reference: DDWT pilot plant Schwarze Pumpe



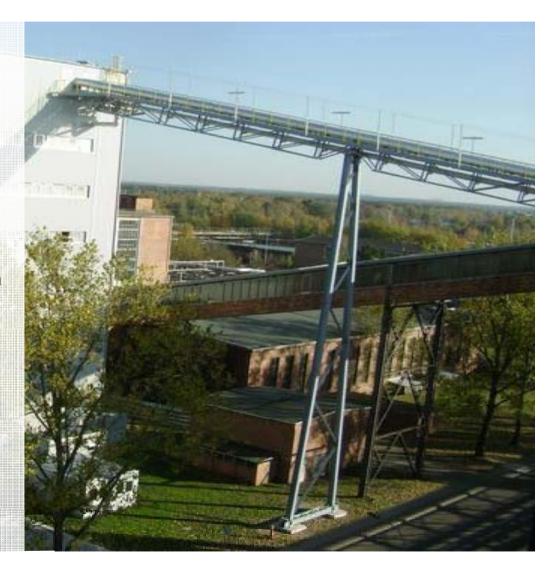


ClientVattenfall Europe

Period 2007 – 2010

Scope

 Realisation of and participation in trial operation of a plant for the pressurised steam fluidised bed drying (PFBD) of lignite





6. Business philosophy

- Service based on up-to-date engineering know-how
- High level of own value added (engineering, manufacturing, delivery, assembly)
- Strict and high quality assurance standards
- Strong reputation and confidence with regard to quality and schedules
- Own capacities: Even when we cooporate with other (e.g. local) companies, we can fully control the processes (quality review) with our own personnel, or, if needed, we can fullfill the contract ourselves.



Strong arguments for efficiency increase in power plants!

Thank you for your attention!

