<table>
<thead>
<tr>
<th>Bilfinger Berger AG</th>
<th>Bilfinger Berger Power Services GmbH</th>
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<tr>
<td>Babcock Borsig Service GmbH Oberhausen</td>
<td>Steinmüller-Instandsetzung Kraftwerke Gesellschaft für Energie- und Umwelttechnik mbH Peitz</td>
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<td>Bilfinger Berger Power Holdings (Pty) Ltd. Johannesburg (South Africa)</td>
<td>Deutsche Babcock Middle East Dubai (U.A.E.)</td>
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<td>Deutsche Babcock Middle East Dubai (U.A.E.)</td>
<td>Babcock Noell GmbH Würzburg</td>
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<td>BHR Hochdruck-Rohrleitungsbau GmbH Essen</td>
<td>(Operative Management Structure)</td>
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Dear Ladies and Gentlemen,

For the previous fiscal year 2008 Bilfinger Berger Power Services GmbH (BBPS) is once again able to present an altogether gratifying balance sheet for all divisions. This is unusually good news in view of the dramatic crisis in the financial markets and its effect on the economy as a whole. As a matter of fact, the energy and power station industry is hardly affected by these turbulences. The power demand continues to rise all over the world, for demographic reasons alone. There is in particular a continued demand for clean and efficient power stations which save resources and protect our environment. As specialists in this area in 2008 the companies of the BBPS Group have once again obtained many major and minor orders in addition to the already comfortable backlog of orders. In view of the solid financial situation of the Group the necessary investments were no problem.

In 2008 the companies of the Group continued to form the planned integrated whole, worthy of particular mention is the successful merger of the former EHR and of the piping division of BBS into BHR Hochdruck-Rohrleitungsbau GmbH. The new company is the unchallenged market leader in piping construction for power stations.

All companies of Bilfinger Berger Power Services GmbH were to a large extent involved in the construction of sophisticated new power stations and conversions in Germany and Europe. An example of the excellent development of our activities outside Europe is Bilfinger Berger Power Holdings (Pty) Ltd. (BBPH) in South Africa, to name just one. At the new production location of Pretoria this company started with the manufacture of pressure parts and is on its way to continue the excellent development in the South African market.

We are very optimistic that the remarkable development of the previous year will also continue in future. Bilfinger Berger Power Services remains on course for growth. With complex investments in the future our companies prepared themselves in 2008 for the future challenges of the market. Numerous new employees were recruited; the number of apprentices has almost doubled.

The Group places special emphasis on the strengthening and further development of its engineering competence in its divisions of steam generators, piping systems as well as environmental, nuclear and magnetic engineering. On this basis we see ourselves excellently prepared for the challenges of the energy market.

Special thanks go once again to our customers and suppliers. The management and our whole team of excellent employees will continue to be reliable partners to you.

Yours faithfully

Gerd Lesser
Chairman of the Executive Board

“Bilfinger Berger Power Services remains on course for growth.”
Bilfinger Berger Power Services GmbH (BBPS) represents one of the three service segments of the Bilfinger Berger AG Multi-Service Group. Six companies operate under the umbrella of BBPS: Babcock Borsig Service GmbH, Deutsche Babcock Middle East, Steinmüller-Instandsetzung Kraftwerke Gesellschaft für Energie- und Umwelttechnik mbH, Bilfinger Berger Power Holdings (Pty) Ltd. in South Africa, BHR Hochdruck-Rohrleitungsbau GmbH as well as Babcock Noell GmbH. A close network of branch establishments links the activities of BBPS within the most important markets of the Group: in Germany and Europe as well as in the Middle East and South Africa. In fiscal year 2008 the Group had approx. 4,600 employees, thereof approx. 3,000 in Germany. In 2008 the number of employees included 152 apprentices. BBPS achieved a group performance of approx. € 782 million in 2008.

With its subsidiaries and participations Bilfinger Berger Power Services GmbH is counted among the market-leading service companies of the power generating industry. About half of the business volume is realised in the German market. In the area of power services BBPS is now an important factor in the European market.

The core business of BBPS basically concentrates on power station technology, piping systems, and environmental, magnetic and nuclear engineering and service. In these segments it offers maintenance, repair and upkeep and in particular demanding measures for the service life extension, efficiency increase and rehabilitation of power stations. In addition, the company is actively involved in the construction and conversion of power stations and supplies components – partly from its own manufacturing facilities. It goes without saying that the company possesses all the required certificates and its high project management competence and comprehensive engineering know how make it a competent partner for its customers. This has been impressively demonstrated once again in 2008 by numerous important reference projects at home and abroad.

Further information about our group of companies is available on the Internet at: www.bbps.bilfinger.de

"A major share of our human resources are tied up already now in a busy schedule for the next few years."

### Key Data Bilfinger Berger Power Services GmbH in 2008

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<thead>
<tr>
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<th>2008</th>
<th>2007</th>
<th>2006</th>
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<tr>
<td><strong>Bilfinger Berger Power Services (consolidated)</strong></td>
<td></td>
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<tr>
<td>Order receipt</td>
<td>1,091,049</td>
<td>1,042,999</td>
<td>672,306</td>
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<tr>
<td>Orders on hand</td>
<td>1,101,307</td>
<td>792,447</td>
<td>443,422</td>
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<tr>
<td>Performance</td>
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<td>699,794</td>
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<tr>
<td>Balance sheet total</td>
<td>501,657</td>
<td>415,156</td>
<td>321,686</td>
</tr>
<tr>
<td>Employees</td>
<td>4,582</td>
<td>3,917</td>
<td>3,702</td>
</tr>
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</table>
The Power Services division as part of the Bilfinger Berger Multi-Service Group continued its extremely successful business development also in 2008. The individual companies achieved good results in all business areas. The cooperation of the companies under the umbrella of Bilfinger Berger Power Services GmbH (BBPS) was further intensified. Especially the merger of the former EH-HR and of the BBS piping division into BHR Hochdruck Rohrleitungsbau GmbH (BHR) was very successful.
Business activities
Bilfinger Berger Power Services GmbH is actively involved in the business areas of steam generators, piping systems and environmental, magnetic and nuclear engineering. For its customers from the power station sector BBPS plans and manufactures power station components, partly supplies these from its own manufacturing facilities, and repairs and maintains power stations. When it comes to service life extension of power-generating plants, their efficiency increase or basic rehabilitation, the company is a sought-after business partner. With its know-how and its continuous research and development work BBPS also provides a considerable contribution to the reduction of CO2 emissions of power stations. The group of companies mainly operates in Germany, Europe, South Africa and in the Gulf region.

Development of the business segments
All business segments of the Bilfinger Berger Power Services Group took advantage of the continuously increasing power demand all over the world and the necessary modernisation of existing power stations. The Group has a share in the construction of the Finnish power station Oikuloulu amounting to an order value of € 270 million. In Pretoria (South Africa) Bilfinger Berger Power Holdings (Pty) Ltd. (BBPH) opened a new production facility and started with the manufacture of boiler internals here. An important South African company engaged in piping construction has been acquired. In addition, BHR installs an inductive bending machine also for this growth market.

In the German market all companies of the Group participated in the processing of demanding projects and profited from new orders. Babcock Noell GmbH (BNG) supplied a flue gas desulfurisation plant for the Schwarzepumpe pilot project and is currently processing orders for the power stations of Bosberg and Moorbürg. BHR obtained orders for high-pressure pipes at several power stations. Babcock Borsig Service GmbH (BBS) completed the large inspection of the Westfalen power station according to schedule and received a major order for the conversion of the Voerde power station. Good results were also obtained by Steinmüller-Instandsetzung Kraftwerke Gesellschaft für Energie- und Umwelttechnik mbH (SIK) with its engineering for the conversion of another boiler at the coal-fired power station of Belchatów.

Capacity utilisation
The positive development of all business segments resulted in an excellent utilisation of capacities. For its numerous large orders BBPS will also in future use the full scope of its human resources. Where delays – caused by the customer – occurred in power station projects the utilisation of employees was secured by other orders.

Investments
Investments in 2008 amounting to a good € 26 million were even higher than in the previous year. They were fully covered by our own cashflow and were not affected by the global financial crisis. For 2009 further investments amounting to € 30 million are planned in order to keep the Group prepared for the high demands of the market.

Training and human resources development
In 2008 the excellent business development and order situation once again led to increased personnel requirements. The workforce of all companies of the Group was increased by more than 300 employees. The company continues to pursue its target to fill vacant jobs with junior staff from within its own ranks. 119 new apprentices were employed in the previous year; the total number rose from 94 to 119 and has thereby clearly increased. In the area of advanced training the company maintained its commitment to provide its employees with even better qualifications in order to prepare them for increasing and changing requirements.

Expected development of the company
Bilfinger Berger Power Services GmbH will continue to grow. The focus for the near future is on minor selective acquisitions in order to round off the area of competence and the market presence of the Group.

Excellent chances for the future
The Group looks into the future with great optimism. Power stations continue to require rehabilitation to a large extent. In spite of the cyclical slowdown the demand for clean and safe energy will continue. Due to the consistent maintenance and extension of our competence by targeted investments, healthy growth and long-term cooperation with reliable partners and satisfied customers Bilfinger Berger Power Services is well prepared for the future.

Bilfinger Berger Power Services GmbH, Oberhausen, March 2009

Gerd Lesser
Chairman of the Executive Board

Ronald Diehl
Managing Director

Alexander Neubauer
Managing Director
“With complex investments in the future our companies have adjusted themselves to the future requirements of the market”
Babcock Borsig Service GmbH

Babcock Borsig Service GmbH (BBS) is a company of Bilfinger Berger Power Services GmbH and a market-leading service provider in Germany for the power generating industry.

The focus is on engineering-supported power station service and on the project business. The service concept of BBS combines a broad spectrum of products and services with individual customer support.

Increase in performance, reduction of CO₂ emission
The primary business is the rehabilitation and conversion of power stations – in order to increase performance, service life and efficiency. The company thereby provides a substantial contribution to CO₂ reduction, to the protection of our climate and our environment. In addition, BBS is actively involved in the construction of new power stations.

BBS nowadays has the largest German power station erection team at its disposal and has its own manufacturing capacities and competent engineering units. Development, construction, manufacture, installation and commissioning can therefore all be offered from one source. In the service area many customers rely on the full life-cycle management by BBS. All these services are offered by BBS not only in superior quality but also with strict adherence to schedules.

Further development of technologies
At BBS research and development are an integral part of its culture of innovation and a basic condition for sustained growth. With one of the most modern hard coal pulverisers in the world the company is counted among the pioneers and market leaders in future-oriented pulveriser construction. Within this comprehensive spectrum of services BBS takes advantage of the combined know-how of several traditional power station construction companies.

One of the outstanding projects in 2008 was the replacement of 28 flue gas coolers at the lignite-fired power station of Niederaußem. Within an extremely short period of time BBS installed new, progressive heat exchangers which increase the overall efficiency by 1 %. A damage at the Veltheim power station was repaired within an extremely short time due to professional processing. The supply and installation of a tubular air heater for the Sasol power station Secunda added another important project to the references of BBS in South Africa.

Figures and Facts 2008
- In 2008 the company had 1,377 employees, thereof 592 at BBS.
- The performance of the fiscal year amounted to € 161 million.

Management:
- Gerd Lesser (Chairman of the Executive Board)
- Andreas Michalke
- Alexander Neubauer
Deutsche Babcock Middle East

In spite of the difficult situation in Iraq and Iran the Gulf region has been a prospering economic area for many years. This applies primarily to the United Arab Emirates. Here, in Abu Dhabi, Deutsche Babcock Middle East (DBME) has been represented for many years and has recently also participated in the rapid economic development. The activities under the umbrella of the holding company extend to the regional generation of energy and in particular also to the maintenance of onshore and offshore plants for oil and gas production as well as the construction of seawater desalination plants. The holding company also holds a minority share in Deutsche Babcock Al Jaber which focuses on the installation of new plants.

Optimised business processes

In view of the continued growth experience by the United Arab Emirates in the industrial and service sector DBME changed its structure during the previous year in order to meet the increasing challenges of the booming market in an improved manner. The strategy was to convert former branch establishments into local companies on the basis of partnership with the former representatives. In May 2008 the local company Deutsche Babcock LLC was formed – a joint venture of Deutsche Babcock Middle East and Bin Hamoodah Trading & General Services. The new location of Deutsche Babcock formed – a joint venture of Deutsche Babcock Middle East and Bin

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Deutsche Babcock LLC takes care of the areas of installation and maintenance as well as the area of engineering supported projects. The activities of Deutsche Babcock Energie- und Umwelttechnik Abu Dhabi are fully transferred to the new company:
- Energy and desalination
- Oil and gas
- Engineering and manufacture of electrical systems and automatic control systems, motor control systems (IMCC) and protection system cabinets
- Oil field service

Focus on Saudi Arabia

DBME increasingly focuses on Saudi Arabia as a special growth market. In this area the existing potential is far from being fully exploited. To cover the rapidly increasing demand for energy and drinking water the Saudi-Arabian utility companies are planning considerable investments in power generation and seawater desalination. In addition to its Saudi Arabian core business in boiler service DBME intends to get actively involved in these promising developments with its experience and competence. In Saudi Arabia the structures are also optimised for this purpose: With a new company under the corporate name of Babcock Borsig Service Arabia the company wants to present itself as a competent partner to large Saudi Arabian customers.

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Steinmüller-Instandsetzung Kraftwerke Gesellschaft für Energie- und Umwelttechnik mbH

Steinmüller-Instandsetzung Kraftwerke Gesellschaft für Energie- und Umwelttechnik mbH (SIK) offers extensive engineering and service to customers from industry and the power sector. The company has 407 highly qualified employees and operates with three subsidiaries in the new federal states of Germany as well as in Central and Eastern Europe.

In the service area the results of the fiscal year largely remained at the high level of the previous year. The main jobs consisted of inspection measures on two units of a lignite-fired power station in Lausitz and on a unit of a lignite-fired power station in Central Germany.

Increased production of membrane walls

The production facility at Jänschwalde secures the supply of new assemblies such as e.g. burners and pressure parts as well as spare and wear parts. It looks back on the highest capacity utilisation ever since its establishment. It is to be emphasized that after the start of membrane wall production at the end of 2007 the first internally manufactured walls were already installed during the first boiler inspection in March this year. Services in the area of large equipment for open-cast mining remained at the high level of the previous year.

Top engineering for pilot plant

Outstanding events in the project area were the handing-over of the first boiler and the engineering for the conversion of another boiler at the Belchatów coal-fired power station in Poland as well as the handing-over of a pilot plant for a pressure-loaded steam-fluidized-bed drying system for raw lignite. With this pilot plant a future-oriented technology has been realised for the first time in cooperation with the customer which has also attracted much interest by the public.

Contract for the future

As a result of this cooperation a contract has been concluded for the preparation of a feasibility study for the construction of a lignite drying plant for the 85th steam generator at the location of Schwarze Pumpe. Based on this contract SIK will participate in the next stage of the development and implementation of future-oriented technologies for the construction of lignite-fired power stations with low CO2 emission.

Management:
- Martin Schalkowski
- Peer Maluck
- Clemens Wolters

Management:
- Udo Wolter

Figures and Facts 2008
- In 2008 the company had 407 employees.
- The performance of the fiscal year amounted to € 105 million.

Figures and Facts 2008
- In 2008 the company had 1,377 employees, thereof 785 at DBME.
- The performance of the fiscal year amounted to € 68 million.
Bilfinger Berger Power Holdings (Pty) Ltd. is actively involved in the areas of maintenance, modernisation and conversion of South African power stations with special focus on hard-coal-fired plants. In addition, it offers service and maintenance to other industrial sectors. BBPH has further extended its position as a preferred supplier in this region and has prepared itself for the industrial sectors. BBPH has further extended its position as a preferred supplier in this region and has prepared itself for the areas of maintenance, modernisation and conversion of South African power stations. In addition, it offers service and maintenance to other industrial sectors. BBPH has further extended its position as a preferred supplier in this region and has prepared itself for the areas of maintenance, modernisation and conversion of South African power stations.

Subsidiaries and participations of Bilfinger Berger Power Holdings are:
- Eduardo Construction (Pty) Ltd. provides qualified installation facilities for valves and fittings and spare parts.
- Intervalve (Pty) Ltd. offers service and maintenance for a broad spectrum of valves and fittings and has its own manufacturing capabilities for valves and fittings and spare parts.
- Eduardo Construction (Pty) Ltd. provides qualified installation facilities.
- EBS Training Academy (Pty) Ltd. secures the medium and long-term availability of qualified technical staff in South Africa by means of training.

A world-class engineering company with more than 100 years of experience
The centre of all BBPH activities is Steinmüller Engineering Services (Pty) Ltd. as the largest company which offers engineering services for energy producers, the petroleum and chemical industry, the iron and steel industry, the paper and pulp industry as well as for mines and ore dressing. Technical analyses and calculations, boiler and piping design, manufacture and installation as well as complete plant downtime management are included in this. Steinmüller offers appropriate solutions such as waste heat systems, coal pulversisers, firing systems, coal feeding equipment and ash-conveying systems. Services are also offered for steam turbines, flue gas desulphurisation plants, lignite fluidised bed drying systems, seawater desalination plants as well as nuclear and magnetic technology.

Jointly well equipped
With the start of production at its new pressure part manufacturing plant near Pretoria in 2008 Steinmüller Africa has provided the company with a new strategic orientation. In close vicinity to this new plant another exciting chapter of BBPH history will soon be written: BHR is going to have a subsidiary in South Africa named “BHR Piping SA”. An inductive bending plant as the most important element of equipment has already been ordered.

BHR Hochdruck-Rohrleitungsbau GmbH
BHR Hochdruck-Rohrleitungsbau is the European market leader in the construction of high-pressure piping systems for water-steam circuits in power stations. The company has many years of experience in the engineering, pre-fabrication and installation for power stations. Its special competence in the processing of materials which are permanently being further developed for use in modern power stations at high operating temperatures of up to 700°C and wall thickness of up to 100 mm is concentrated in particular at the Dortmund pre-fabrication plant. With two inductive bending plants all bends required for water-steam circuits in power stations are made at this plant.

Efficient upgrades for power stations
The huge demand for these piping systems results from the need for an improved utilisation of fuels and for lower emissions which again requires more efficiency. Efficiency and utilisation factor can be increased in power stations by higher temperatures and pressures. As a market-leading supplier of suitable piping systems BHR has a considerable share in the economical and ecological modernisation of power stations all over the world.

Specialists achieve more
The company also has highly specialised know-how in efficient welding techniques such as submerged arc narrow gap welding, branch welding and cladding at the pre-fabrication site as well as TIG-orbital narrow gap welding during installation. The reliable control of these techniques is an important key to the construction of efficient and thermally highly stressed power stations.

Worldwide success in obtaining new orders
Further segments of BHR are industrial piping systems as well as plant engineering and installation. BHR provides its customers from the chemical and petrochemical industry, from the power-generating, steel and metallurgical industry with all services from one source – these range from engineering via manufacturing up to installation and follow-up services. At the main location of Essen and at branch establishments and factories all over the Federal Republic a total of approximately 1,500 persons are currently employed. In 2008 the successful growth performance continued in the national and international power station market with the acquisition of a large number of major orders. To name just a few, orders were obtained from the Russian, Indian and South-African market.

Figures and Facts 2008
- In 2008 the company had 821 employees.
- The performance in the fiscal year amounted to € 96 million.

Management:
- Hermann Brümmer
- Gerd Lesser
- Alexander Neubauer

Figures and Facts 2008
- In 2008 the company had 1,106 employees.
- The performance of the fiscal year amounted to € 302 million.

Management:
- Ronald Dohi
- Mario Peper
- Günter Bichl
- Jürgen Weyers
Babcock Noell GmbH (BNG) successfully operates in the areas of environmental engineering, nuclear engineering, magnetic engineering and nuclear service with 284 employees, mainly engineers and technicians.

Technology leader in desulfurisation technology
The area of environmental engineering is expanding at national and international level. The range of supply extends from plants for flue gas cleaning up to the modernisation and optimisation of existing plants. Major projects which are currently being processed are flue gas desulfurisation plants for the power stations of Boxberg and Moorburg of Vattenfall Europe Generation AG & Co. KG, Cottbus. A highlight of the year was the commissioning of the flue gas desulfurisation plant at the Oxyfuel pilot power station of Vattenfall which is to investigate the alternatives to reach the largest possible reduction of CO2 during the combustion process.

Use of well-founded experience
The area of nuclear engineering which looks back on more than 40 years of experience is well prepared for challenges such as the construction of new power stations, shutdown as well as the conditioning and storage of radioactive waste. Orders for the construction of the first new ERP-type power stations are currently being processed in Finland and France. In the areas of shutdown, conditioning and storage all large orders are being successfully processed according to schedule.

Full commitment to research
Large international research projects such as ITER (nuclear fusion experiment in Cadarache, France), X-FEL (X-ray free electron laser at DESY in Hamburg) or FAIR (GSI acceleration plant for heavy ions in Darmstadt) offer great chances for development in the near future: In the area of magnetic engineering the superconducting conductor test magnet coil for the planned research reactor ITER in Cadarache as well as the eleven undulators for the international research institute DESY in Hamburg are being processed. In addition, the large order for 50 coils for the fusion experiment W 7-X of the Max-Planck Institute in Greifswald was completed with a good result.

The product area of nuclear service with 70 highly qualified specialists for service and installation looks back on a successful year 2008. The staff carries out regular inspections as well as installation work and special tasks at many German and foreign power stations.

Figures and Facts 2008
- In 2008 the company had 284 employees.
- The performance of the fiscal year amounted to € 54 million.

Management:
- Dr. Ronald Hepper
- Peter Stephan
BBPS Competence

Technologies
- BHR technologies: Key to success
- Boiler technologies: “Green megawatt” – Innovative optimisation of power stations
- Flue gas desulfurisation plants: Schwarze Pumpe pilot project for CO₂ separation at coal-fired power stations
- Turbomachine technology: Opening up growth perspectives by new and old services

Reference projects
- Neurath: Start of piping installation for the largest and most modern lignite-fired power station in Europe
- Veltheim: “Fire brigade” puts power station quickly back on the grid
- Olkiluoto: Teamwork for a nuclear power station high up in the North
The excellent position of BHR in the market of high pressure pipes for power stations is based on its technological competence. The basic issue is that an efficiency increase of steam power stations can be achieved only via higher steam temperatures and higher pressures. To control the resulting higher operating loads new materials are required. The selection of such materials and their processing is the core competence of BHR.

Bending in new dimensions
BHR was and still is leading in the development of processing technologies for highly resistant steel alloys. This material which is used all over the world for the main steam lines between boiler and turbine is called P92 or, according to DIN: X10CrWMoVNb92. It is not sufficient, however, to have pipes manufactured of suitable materials. They also have to be cut to exactly the right length, to be formed and connected. In this particular respect new materials call for new processing technologies. BHR has got them. It is capable of bending high-strength pipes with a wall thickness of 100 mm and an outside diameter of 550 mm, for instance. The inductive bending machine PB850 has been specially developed for this application by BHR Hochdruck-Rohrleitungsbau together with a machine manufacturer. This machine safely bends these huge dimensions with no trouble at all.

Safe welding on site
Apart from bending, it is also important to master the welding process at the pre-production facility and at the building site. With the introduction of the fully mechanized TIG-orbital narrow-gap welding process BHR successfully produces welds of higher quality and makes the welding process safer. Especially due to the narrow-gap welding procedure a volume reduction of 50 % and more has been achieved. The procedure has also been released for use during the installation work at the Neurath power station and is currently used here very successfully. In pre-production BHR also uses submerged-arc narrow-gap welding as well as submerged-arc branch welding. Even thick-walled tanks or hydraulic cylinders are joined efficiently and with high-quality by means of submerged-arc narrow-gap welding.

Cladding for highest demands
For use in nuclear engineering the main coolant lines are provided with internal cladding. After many years of research and development work BHR has optimised the welding process as well as the annealing process for stress reduction and is globally one of the three leading companies for weld cladding.

BHR technologies: Key to success
Higher efficiency, fuel saving and low emissions - these are nowadays the primary requirements in connection with the construction and conversion as well as the maintenance and upkeep of power stations. Due to their know-how in various fields of technology the companies of BBPS are decisively contributing to the fact that ambitious targets for the optimisation of power stations can be reached. It goes without saying that this also applies to the technical area of Babcock Borsig Service GmbH (BBS). Progressive technologies which make power stations more economical and more environmentally compatible are used by BBS in several places of the central power station element, the steam generator.

In connection with oil and gas firing systems, for instance, BBS uses the ADS burner which reduces the emission of nitrogen oxides (NOx) to a considerable extent. During the conversion of the Belgian Kallo power station the NOx values which had so far been typical of the plant were reduced by more than 70 % after commissioning of the ADS gas burners installed by BBS. For coal-fired power stations BBS also offers modern burner technologies which considerably contribute to an increase in efficiency and environmental compatibility - e.g. by optimisation of the pulsed fuel feeding to the pulsed fuel burners.

For the actual steam generator itself BBS also develops concepts to achieve high efficiencies in new plants and in connection with the modification of existing steam generators. An important factor in this is the selection of new materials for highly stressed heat transfer components because here the principle also applies that improvements of efficiency are largely achieved by higher pressures and higher temperatures in the process.

Reduction of CO₂ emissions
BBS uses the optimisation potential on the flue gas side by means of its progressive POWERISE® system designed for the recovery of flue gas heat in the power station. The waste heat of the flue gas is used for feed water and air preheating of the plant before the flue gas is discharged into the desulphurisation plant. The bleed steam of the turbine which has previously been used for preheating now remains in the water-steam circuit and additionally generates "Green megawatt" – up to 3 % of the electrical energy – without using primary energy. The efficiency of the power station is thereby significantly increased. CO₂ emissions are reduced at the same time and environmental pollution is also reduced due to the reduction of waste heat.

After the good experience gained at the Niederaußem lignite-fired power station the owners of the Polish power station of Lagisza have recently also decided in favour of the POWERISE® technology of BBS. They want to use the flue gas heat according to the best technology currently available. Due to the new plastic heat exchanger system 20 MW of usable waste heat are withdrawn from the waste gas during operation at nominal load, and an additional amount of electrical energy of 8 "Green megawatt" is produced. This corresponds to an annual reduction of CO₂ emissions by 39,000 tons.

Due to these advanced technologies used during the construction and conversion of steam generator plants but also due to the continuous maintenance and optimisation of existing plants BBS contributes to a large extent to a more economical and ecological operation of power stations than ever before.
In spring 2006 Babcock Noell GmbH (BNG) received an order from Vattenfall Europe to install a special flue gas desulfurisation plant (FGD plant) with very high demands on the degree of SO₂ separation of more than 99 % in the 30 MW Oxyfuel pilot power station at the location of Schwarze Pumpe. The plant was handed over to the customer at the scheduled time in October 2008 and to the entire satisfaction of all parties involved in the project.

The operation of the whole pilot power plant started as scheduled and straight away reached the required CO₂ purity of approx. 90 % during the so-called Oxyfuel operation. The resulting CO₂ gas can be stored in liquid form without affecting the climate or be used for other purposes. This is an important step towards an energy production based on the combustion of fossil fuels with low CO₂ emission.

Unprecedented degree of desulfurisation of 99.8 % reached

During the Oxyfuel combustion process the fuel is burnt in the steam generator, not with the supply of air but with pure oxygen. The developing flue gas is therefore nitrogen-free and is additionally enriched with CO₂ by recirculated waste gas. An important condition for the subsequent CO₂ treatment is that after precipitation the sulphur dioxide existing in the flue gas is largely removed in order to ensure the highest possible CO₂ purity in the further process. With its modified Tray Absorber Technology BNG has been able at the pilot power plant to safely reach an unprecedented degree of desulfurisation of 99.8 % at an SO₂ raw gas concentration of up to 7000 mg/Nm³. It also became clear that this degree of separation cannot be reached by means of conventional, open absorber systems. The Schwarze Pumpe pilot project has therefore already now provided important and reliable information for the design of the tried and tested Babcock Noell Tray Absorber for maximum SO₂ separation.

Perfect project management

In spite of the limited time frame the project was completed in due time and according to schedule. After the engineering phase by BNG the installation was completed in due time at the end of January 2008. Subsequent commissioning was completed in October with successful trial operation and acceptance measurements by an independent institute. Observance of all the required purity data was impressively confirmed and values even fell clearly below the required limits.

Technology partnership with perspective

The 30 MW pilot power station will now run for a trial period of five years during which Vattenfall, supported by BNG, will operate and optimise the plant in several different experimental cycles within the scope of a technology partnership. Based on the experience gained with this plant Vattenfall intends to build another two 300 MW power stations in Germany and Denmark in order to make the Oxyfuel technology for an emissions-neutral CO₂ separation ready for serial production on a large-scale technical basis.

As a technology leader BNG has excellent chances to play a substantial role again in these projects.

Flue gas desulfurisation plants: Schwarze Pumpe pilot project for CO₂ separation in coal-fired power stations
After the restructuring of its former parent company a few years ago Babcock Borsig Service GmbH (BBS) used to be primarily associated in the market with boiler-making but not with turbomachines. Based on the planned orientation of the company towards complete power plants and in view of the demand for services beyond the boiler scope, BBS decided a good two years ago not to give up its department of Turbomachine Technology (TT) but to re-establish it in the market. By means of an extension of existing competence BBS wants to take up the tradition in the area of turbine service. In the meantime the department has taken the first successful steps in this direction and is increasingly noticed by potential customers again.

**Focus on: Industrial turbines up to 350 MW**

As an independent service provider BBS-TT primarily concentrates on the segment of industrial turbines up to an output of 150 MW and has references and experience up to a performance range of 350 MW. The focus of the turbine manufacturers on the construction of new plants gives sufficient leeway, especially in this performance category, to competent service providers such as BBS-TT.

Special features of this area are consulting and engineering services, full inspections and repairs, building site service for the solution of problems including the mobile processing of parts and components up to the manufacture and supply of spare parts.

**Under control: Displaying engineering competence**

A distinction from competitors is achieved by outstanding engineering competence. This is characterised in particular by high flexibility with regard to the solution of complex issues in the areas of construction and calculation up to assessment and consulting services. Turbomachine technology is supported by the competence of BBS GmbH in the area of measuring technology for the water-steam circuit. An important step towards the future is the successful use of a mobile lathe in this area. This lathe is now being upgraded for the low-speed balancing of rotors. Competence and comprehensive rotor service are provided by BBS-TT from one source within a short time.

In view: Communicating and implementing solution competence

BBS-TT has already introduced itself as a competent team to all major power utility companies and has been able to obtain several orders. The first few orders have in the meantime been successfully processed. One of these was the large inspection of a 25 MW machine at the industrial power station of Premnitz. The customer was in particular convinced by the solution-oriented quotation. Its expectations were confirmed by the timely and smooth processing. This was even topped by the quick and reliable reaction of BBS-TT to an accident damage which occurred at this plant.

**T ogether with other partners of the Group, studies on plant operation were carried out within the scope of complete plant projects. In this connection BBS-TT dealt with the analysis of the thermo-dynamic process of the water-steam circuit.**

**For the near future it is planned to extend the portfolio by an internal service workshop for turbomachines. In addition, the service offer to customers is to be extended from individual services to full plant service in order to secure economical operation. Based on intensified cooperation and by development of a centre of competence, both within BBPS and also in cooperation with other areas of the Bilfinger Berger Group, the turbomachine service will considerably contribute to an extension of the service offer to power stations and industrial customers.**

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**Turbomachine Technology: Growth perspectives are developed by new and old services**

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The construction of two power station units at the RWE location of Neurath is a project full of superlatives: Europe’s largest lignite-fired power station is under construction here; the new units are an improvement of an already modern power station type and increase the efficiency to more than 45%.

Optimised manufacturing technology

The German abbreviation “BoA” used for this type of power station which stands for “lignite-fired power station with optimised plant technology” is now more justified than ever before. In view of the high demands it suggested itself to place the order for the installation of the high-pressure piping systems for the new BoA units with BHR. The leading technology of BHR is particularly required in this project because the BoA concept includes high steam parameters and wall thickness of up to 115 mm.

When the improved BoA concept was technically implemented for the first time the project team worked out new methods and implemented these under the management of BHR. Approx. 5,000 tons of pipes were pre-produced at the BHR factories in Essen and Dortmund. The pipes are currently being installed at the building site and the work is expected to be completed in September 2010.

Innovative welding techniques

Many years of cooperation in the development of materials now pay off. The experience gained with the development of these materials and in particular the high demands on the welding techniques are implemented both in production and during installation: in pre-production by submerged-arc narrow-gap welding and submerged-arc branch welding and during installation by TIG-orbital narrow-gap welding. In June 2008 the first six orbital welds on the live steam line were completed and accepted as being free from defects. High quality of the weld is the basis for securing long intervals between further expensive tests.

BHR supplies a total of about 6,200 tons of material for Neurath which corresponds to a total pipe length of 22,000 metres. The total number of circumferential welds amounts to 14,000. The power station units are expected to be put into service in 2010.
The project team of BBS impressed the persons in charge and employees of the Veltheim power station with fast support and superior quality of repair which was provided in spite of the extremely short time available. An explosion had occurred in the superheater area of the power station which caused severe damage to the riser and downcomer system of the front wall of the steam generator in Unit 2. It was necessary to replace the entire front wall across half the boiler width as well as the connecting lines in the evaporator and superheater area of the hard-coal-fired slag tap boiler in Unit 2. In this connection the refractory and insulating brickwork was extensively replaced.

Time is money
The negotiations for the contract award in which BBS successfully asserted itself against its competitors were to a large extent characterised by the extremely tight schedule. After the preliminary order had been received on 19-11-2007 – which was also the starting date for setting up the site facilities – the 80 BBS employees involved in the project had only half a year to carry out this project worth several million euros. For the 100 MW hard-coal-fired boiler the team first of all had to plan and carry out the dismantling and then in particular the supply and installation of approx. 25 km of pipes and the performance of approx. 4,400 welds. In this connection a boiler repair was for the first time planned in 3D-representation. This technology implies a considerable optimisation of design planning and of the performance of installation.

Scheduled success
The project was completed on June 30, 2008 as scheduled. The high quality of the work was also confirmed without any doubt by the results of the non-destructive tests carried out by the technical inspection agency (TÜV Nord).

In a letter from Gemeinschaftskraftwerk Veltheim GmbH to BBS the project team was pleased to read: “We thank you for the technically competent performance and the good cooperation during the processing of the project.” In this project BBS was once again able to demonstrate its enormous efficiency and all employees have reason to be proud of the fast re-commissioning of Unit 2 of the Veltheim power station.

With an output of 1,600 MW and its modern safety standards the new nuclear power station at the Finnish location of Olkiluoto is a project of superlatives. The German-French consortium of Siemens AG and AREVA instructed various companies of BBPS to take on decisive roles in this important project – especially BHR and BNG.

Large volume of work
BHR brings in its many years of experience in the construction of nuclear power stations and supplies the piping systems for the power house, the reactor building and the outbuildings of the new power station unit. Installation of the pipes started in June 2008 and is expected to take until April 2010. The installation team of BHR in Olkiluoto will be successively increased in the next few months to 400 persons. The installation work includes a volume of work of about 1.3 million hours. In spring 2008 the scope of the order was considerably increased for BHR.

High competence in nuclear engineering
BNG also has a good chance in Olkiluoto to demonstrate its many years of experience and high competence in nuclear engineering. It has been charged with the supply of the steel lining for the reactor building, the high-grade steel lining for the fuel element and reactor vessel, components for the closure system of the reactor pressure vessel and the personnel airlocks. In addition, it performs various engineering tasks and minor supplies.

Reference project in progress
Since the new reactor type which is under construction in Olkiluoto is to be regarded as a reference project and since further plants of the same type are planned the participation in the Olkiluoto project will provide BHR and BNG with promising perspectives for the future.
“Even during a cyclical slowdown there will be a continued demand for clean, safe energy.”
Overview of our range of supply:
Pressure parts: headers, heating surfaces, heat exchangers, membrane walls, pressure vessels, HP pipes
Firing components: coal, oil and gas burners, pulverised coal lines, grates, pulverisers for lignite and hard-coal, firing systems
Coal feeding and ash removal components: belt conveyors, wet ash removal
Machines and plant components: fans, pumps, gear units, valves and fittings
Electrical plant components: cabling, connections, sub-distributions
Instrumentation and control: temperature, conductivity, pressure and flow metering and control, waste gas and water analyzers, electronic components, relays

Referred to the aforementioned components we offer:
- Construction according to the state of current technology
- Manufacture of new parts and repairs, partly at our own workshops
- Just-in-time delivery for planned inspections
- Sale of standard parts of power station and plant engineering
- Documentation management for efficient warehouse handling
- Re-design and/or re-manufacturing of special parts

Manufacturing capacities
The companies of Bilfinger Berger Power Services GmbH have efficient domestic manufacturing resources at the locations of Dortmund, Essen, Oberhausen, Osterode, Peitz and St. Ingbert. In addition, they have capacities in South Africa. Many years of experience, comprehensive manufacturing know-how, highly modern technical equipment and the required licences in the conventional and nuclear area guarantee high quality standards to our customers at each of our manufacturing locations. In addition, customers can count on the reliable manufacture of critical components and on prompt service, repairs and spare parts supplies.
Human Resources Development: Targeted growth

The number of employees at all companies increased in 2008 by 500 to 4,582. One of the nicest challenges of a company is to build up a team of qualified employees for demanding tasks. A challenge it remains nonetheless. The fact that the growth in the power station area was for various reasons preceded by a longer phase of standstill had serious consequences. At that time very few young people decided to get trained in this area. Therefore we now have a demand for qualified specialists and executives in this area. The companies of Bilfinger Berger Power Services (BBPS) are actively engaged in this competition and are attractive employers because they offer excellent career perspectives.

Junior staff from within the company

As in previous years the primary aim of the Group in 2008 with regard to the strategic development of human resources was to fill new and vacant jobs with employees from its own ranks. For this purpose the cooperation with schools and universities has been further intensified so that interns and students are given the opportunity to look into a particular job area and that graduates are offered the chance to join the company as trainees via this interesting scheme. The instrument of the so-called cooperative engineer training has also been continued. At industrial level the welder training of 20 unemployed persons from Saxony-Anhalt at BHR was one of the outstanding measures of human resources development.

Training and further education

Another focus is on the advanced training of employees. In 2008 training was provided for the installation management staff who were made familiar with the latest developments in personnel management, EDP, labour law, industrial safety and costing. In Oberhausen a meeting of project managers took place who were trained at various workshops on the subject of project management. The instrument of Management Audit is now in place in all companies of the Group.

### Personnel Figures

<table>
<thead>
<tr>
<th>Company</th>
<th>2008 incl. apprentices</th>
<th>2007 incl. apprentices</th>
<th>2006 incl. apprentices</th>
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<tr>
<td>Bilfinger Berger Power Services GmbH</td>
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<td>thereof at Deutsche Babcock Middle East</td>
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<tr>
<td>Steinmüller-Instandsetzung Kraftwerke Gesellschaft für Energie- und Umwelttechnik mbH</td>
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<td>383</td>
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<td>583</td>
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<td>BHR Hochdruck-Rohrleitungsbau GmbH</td>
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<td>Babcock Neotl GmbH</td>
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<tr>
<td>Other companies</td>
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<td>314</td>
<td>269</td>
</tr>
<tr>
<td><strong>Bilfinger Berger Power Services Group</strong></td>
<td><strong>4,582</strong></td>
<td><strong>3,917</strong></td>
<td><strong>3,702</strong></td>
</tr>
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</table>
The Bilfinger Berger Power Services Group regards the training of young people as a social obligation. In view of our good future prospects it is a welcome fact that we have an urgent need for young, motivated and well trained employees. The future has quite a lot in store for us. In fiscal year 2008 the company employed 119 new apprentices and the total number of apprentices has almost doubled. In 2007 the company had 94 and in the past year 2008 already 152 apprentices.

The new apprentices are distributed among the individual companies as follows:

<table>
<thead>
<tr>
<th>Company</th>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>BBS/BBAS</td>
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<td>BHR</td>
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<td>BNG</td>
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<td>SIK/KIS</td>
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<tr>
<td>BBPH</td>
<td>57</td>
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<tr>
<td>BBPS</td>
<td>119</td>
</tr>
</tbody>
</table>

We train apprentices

Making demands and providing support
The contents of training for each apprenticeship are continuously extended and adjusted at BBPS according to the technical requirements. Especially in the training area of welding and in the practical training at the factory the company requirements are well above the standards of the Chamber of Industry and Commerce.

In 2008 the company increasingly took advantage of the cooperative engineer training (KIA) which is completed with the degree of a Bachelor of Engineering. Apart from their practical training at the company the trainees study mechanical engineering at the University of Applied Sciences of the Lower Rhine. This type of training which is close to practice and theoretically well founded leads to good success and fast integration into the working process after the graduates have been taken on permanently.

High level of training
The final examination results reached by our apprentices which range from good to excellent reflect the high quality of training at Bilfinger Berger Power Services. To meet the increasing and changing requirements of the market the companies of the Group continue to include new areas of training into their programme. For the first time BBPS now offers an apprenticeship as management assistant for personnel services, for instance, and is one of the first companies in North Rhine-Westphalia to include this new occupational profile into its training scheme.

During the training increasing importance is attached to social competence and communication skills since the confident interaction with customers and colleagues is the key to success for employees and for the company BNG organised a communication workshop for its apprentices, for example, which provided them with competence in personal demeanour and conflict management.

The entire training programme of the BBPS Group includes the following training courses and apprenticeships:
- Bachelor of Engineering (cooperative engineer training)
- Graduate in business administration with parallel training as an industrial business management assistant
- Industrial business management assistant
- Management assistant in office communication
- Management assistant in personnel services
- Technical draughtsman
- IT specialist, area of systems engineering
- Plant mechanic
- Industrial mechanic
- Construction mechanic (area of welding technology)
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Locations

Europe
- Germany
- Kosovo
- Croatia
- Serbia
- Slovakia
- Hungary
- Czech Republic
- Poland
- Turkey

Africa
- South Africa

Asia
- Thailand

Near/Middle East
- Kuwait
- Qatar
- Saudi Arabia
- United Arab Emirates

South America
- Argentina

North America
- United States

Australia

Support References
- Berlin
- Bremen
- Dortmund
- Essen
- Frankfurt
- Hamburg
- Leuna
- Lippendorf
- Munich
- Oberhausen
- Osterode
- Peitz
- Schwarze Pumpe
- Stuttgart
- Würzburg

Other
- Voerde
- Wolfen
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