

Bilfinger SE

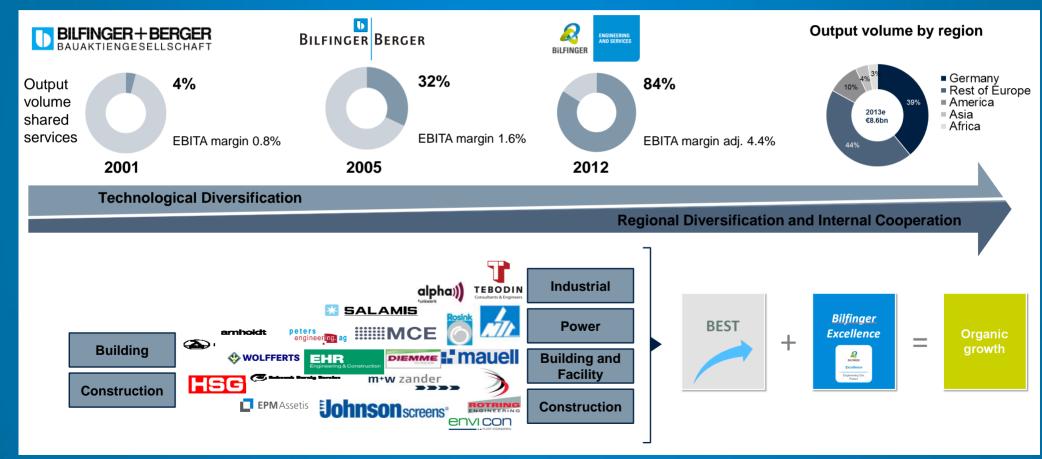
Capital Markets Day "Bilfinger Power"

Joachim Enenkel | Member of the Executive Board at Bilfinger SENovember 29, 2013

Bilfinger SE in 2013



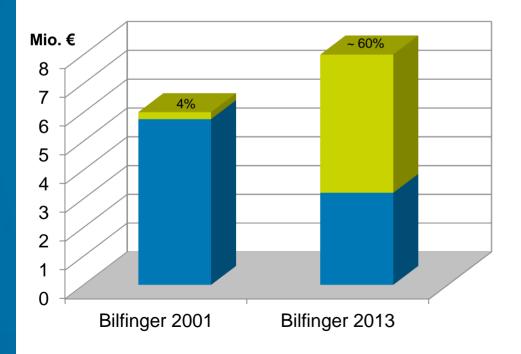
Successful evolution into an Engineering and Services Group



Bilfinger SE in 2013 Our differentiation and strengths



Overview Bilfinger's contract structure



Bilfinger's contract structure



Services (OPEX driven)
Projects (CAPEX driven)



Bilfinger SE in 2013



Future growth is one of Bilfinger's core strategic challenges

Organic growth strategy

- Expansion of higher-margin activities
- Expansion of full-service offering in all our markets
- Regional expansion and "follow our friends" strategy

Deeper integration through cooperation between segments

- Leveraging of customer relationships from other segments
- Stronger market presence through joint customer approach / tenders across segments
- New types of contracts, e.g. life-cycle solution "one"
- Leveraging the international distribution network

External growth strategy

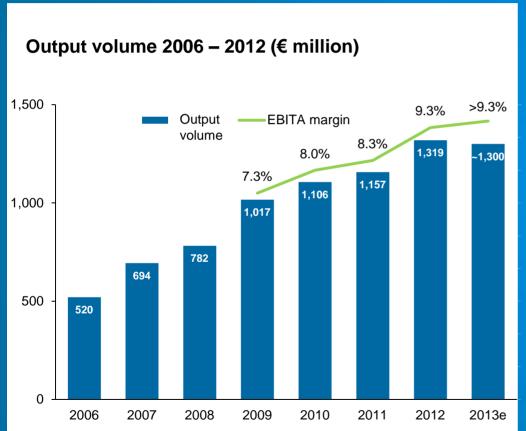
- Broadening and balancing global footprint of Bilfinger's presence, including emerging markets
- Further completing Bilfinger's service offering along the value chain
- Segment Power: Regional expansion to USA, Middle East, Asia
- Expansion of technological scope

WE MAKE POWER WORK



Bilfinger Power Systems Key figures





Output volume by region FY 2013 17% 13% 2013e €1.3bn 33% ■ Germany ■ Rest of Europe ■ America ■ Africa ■ Asia

in € million	9m 2012	9m 2013	Change	2012
Output volume	937	916	-2%	1,319
Orders received	828	881	6%	1,178
Order backlog	1,361	1,283	-6%	1,311
Capital expenditure	11	17	55%	20
Depreciation of P, P & E	16	17	6%	22
ЕВПА / ЕВПА adjusted	85	83	-2%	123
EBITA margin	9.1%	9.1%		9.3%

Bilfinger Power Systems Strengths and competences



Selected acquisitions within Bilfinger Group



A focused acquisition strategy is in plan to reach our goals for 2016

Value chain of activities



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Bilfinger Power Systems Range of activities



3/4 of the Power Systems activities are currently in the area of brownfield (OPEX and CAPEX)

Examples:

- Maintenance services, repair, spare parts
- Service framework agreements
- Lifetime extension
- Rehabilitation/ Modernization
- Efficiency improvement (e.g. heat recovery systems)
- Environmental enhancements (e.g. flue gas cleaning)
- Optimization (e.g. of firing technology)
- Fuel supply and ash treatment
- Conversion of the firing system / Conversion Open Cycle in Combined Cycle power plants

1/4 of the Power Systems activities are currently in the area of greenfield (CAPEX)

Examples:

- Construction of boiler and heat recovery systems
- High and medium pressure piping
- Design, Engineering and General Management of power plants
- Flue gas cleaning

Bilfinger Power Systems Range of activities – selected references



3/4 of the Power Systems activities are currently in the area of brownfield (OPEX and CAPEX)

Reference: Lignite-fired power plant Belchatow, Poland

- Modernization of boilers no. 3-12
- Renewal of the steam generators
- Design, manufacture and assembly of the modernized firing systems, pressure section

Involved units (i.a.):

- Babcock Borsig
 Steinmüller
- Bilfinger Piping Technologies
- Bilfinger Duro Dakovic Montaza
- Subgroups of Bilfinger Industrial



1/4 of the Power Systems activities are currently in the area of greenfield (CAPEX)

Reference: Coal-fired power plant Moorburg, Germany

 Engineering, Supply, Construction and Commissioning of two Flue Gas Desulfurization (820-MW blocks)

Involved units (i.a.)

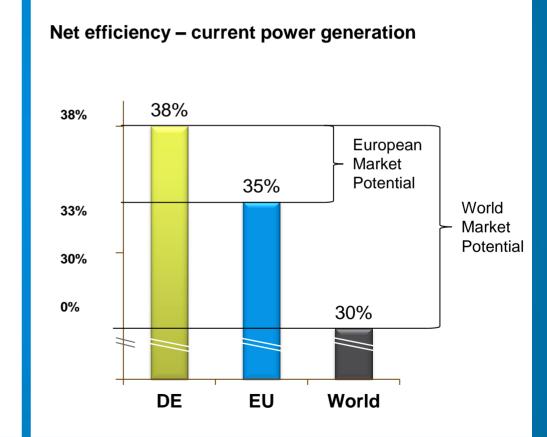
- Envi Con
- Bilfinger Piping Technologies
- Babcock Noell
- Bilfinger Mauell
- Bilfinger MCE Aschersleben



Bilfinger Power Systems Market potential



- η = net efficiency
- $\eta = \frac{\text{net useful energy}}{\text{input energy}} \times 100$
- Market potential derives from increase in efficiency, increase of available capacity and environmental protection:
 - Increase in efficiency: high temperature boiler and piping (700 °C power plant), condensers, international heat use, cogeneration, reduce of losses, optimization etc.
 - Increase of available capacity: modernization, repowering, rehabilitation, automation&control (Mauell)
 - Environmental protection: flue gas desulphurisation plants (FGD), DeNOx, dust removal, noise protection



Bilfinger Power Systems The energy sector

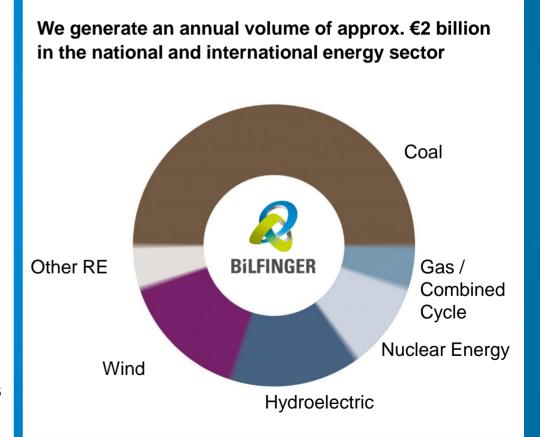


Analysis of the energy sector and determination of target markets – examples for decisive factors

- Number of existing power plants in a given country
- Type of power plants
- Age and condition of existing power plants
- Capacity of power plants
- Efficiency / environmental requirements (e.g. limit values for CO₂ emissions, NOx-emission)
- Economy growth, political circumstances (e.g. availability of financing, energy mix)
- Long term demand for energy



Business drivers for rehabilitation measures



Bilfinger Power Systems Analysis of selected energy sectors



Installed electricity generating capacity (in GW)

	USA	IN	POL	RUS	VIE	DEU	Total
Coal	343,8	132,3	28,7	58,6	2,1	55,1	620,6
Oil	57,5	1,2	1,0	83,8	1,2	6,4	151,1
Gas	479,5	20,4	0,6	21,6	3,7	23,9	549,7
Nuclear	107,0	4,8	-	21,7	-	12,7	146,2
Hydro	99,0	39,6	2,3	39,3	7,2	10,6	198,0
Renewable	64,2	27,5	0,4	-	-	65,8	157,9
Total	1.151,0	225,8	33,0	225,0	14,2	174,5	1.823,5





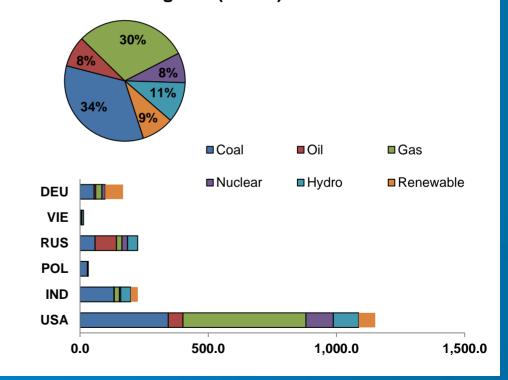




y Outlook 2009 Source: Ministry of Power, 06/2013

Source: APEC Energy Statistics,

Installed electricity generating capacity Installed by sources and regions (in GW)



Bilfinger Power Systems Analysis of selected energy sectors



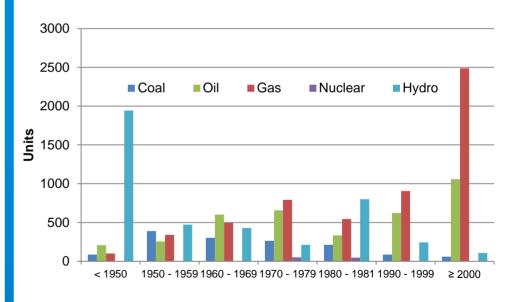
Overview average age of power plant units (on the example of power plant units USA)



	< 1950					1990 - 1999	≥ 2000
Coal	85	390	303	264	213	86	59
Oil	207	256	602	657	334	624	1.058
Gas	101	340	494	792	545	906	2.487
Nuclear	0	0	2	51	46	5	0
Hydro	1942	472	428	211	800	243	106
Total	2.335	1.458	1.829	1.975	1.938	1.864	15.109

Target market

Overview initial year of operation (on the example of power plant units USA)

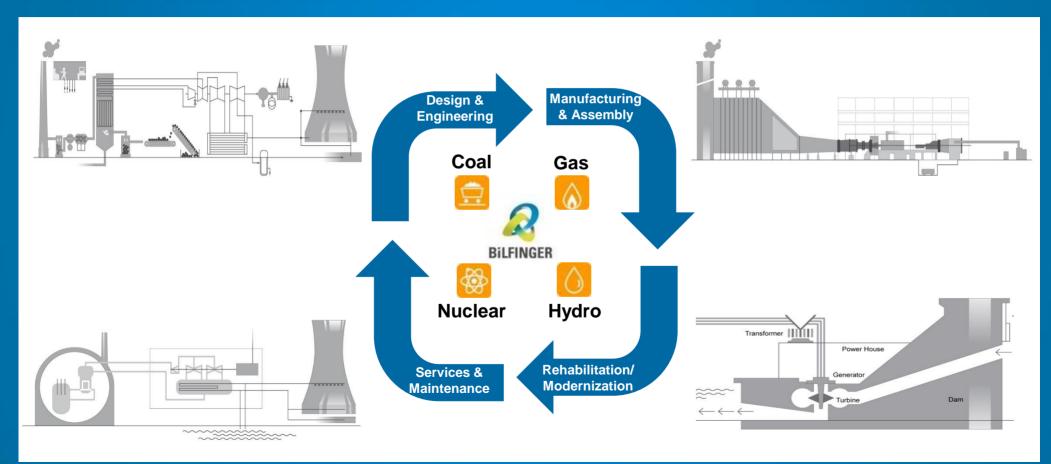


Initial Year of Operation

Source: U.S. Energy Information Administration



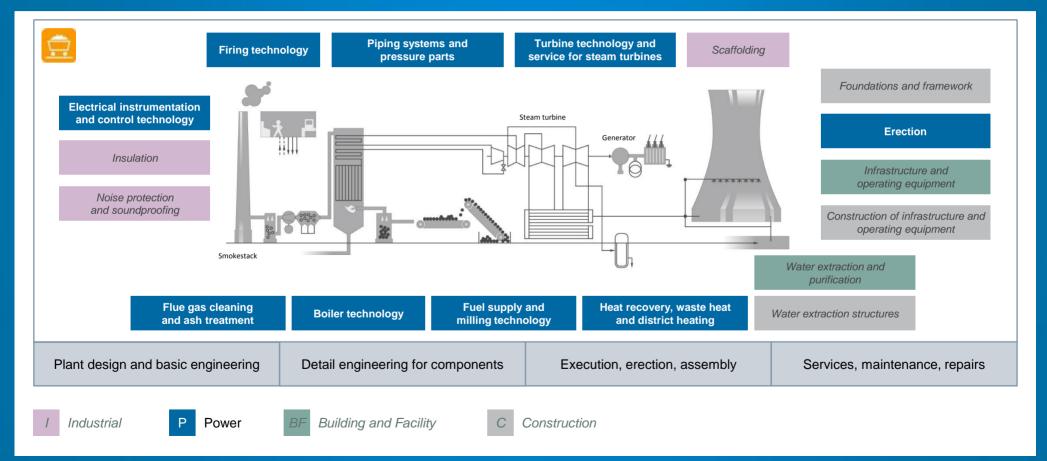
Strength & Innovations of Bilfinger Group LifeCycle approach – products and services from a single source



Strength & Innovations of Bilfinger Group



Power plant range of services - Coal



Strength & Innovations of Bilfinger Power Selected references – Coal





Babcock Noell | Heat recovery from flue gas Boxberg power plant | Germany

- Flue gas desulfurization technology and the Powerise system
- 46,000 ton reduction of CO₂ a year



Bilfinger Envi Con | Engineering Power Plant Westfalen / RWE, Block D & E | Germany

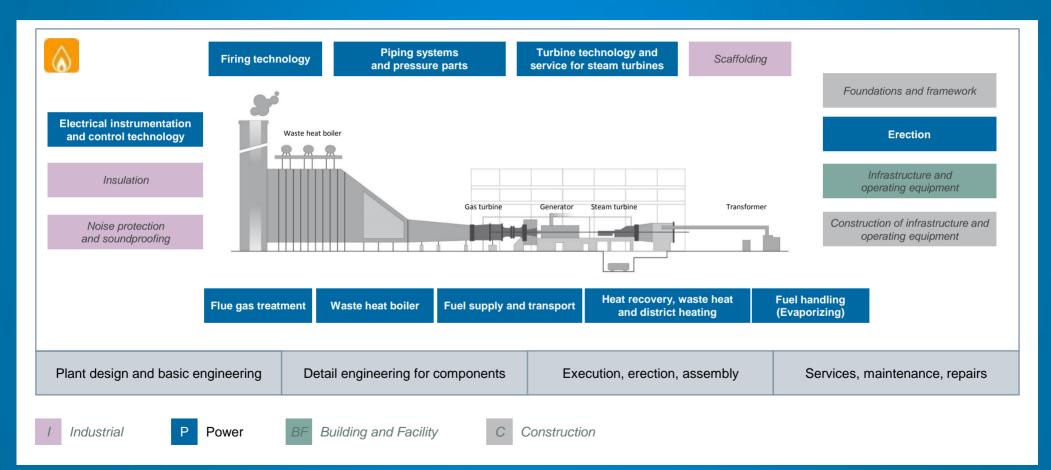
- Overall planner for the entire project
- Project development
- Basic design and construction planning

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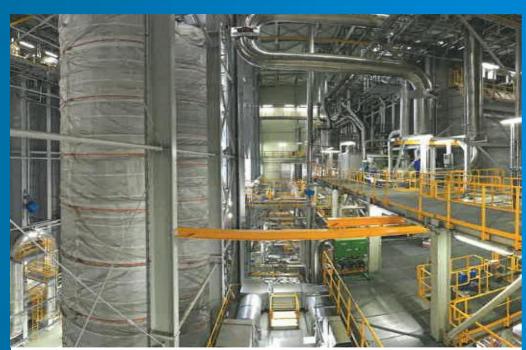


Strength & Innovations of Bilfinger Group Power plant range of services – Combined Cycle Power Plant



Strength & Innovations of Bilfinger Power Selected references – Combined Cycle Power Plant





Babcock Borsig Steinmüller | Heat Recovery Steam Generator Heat Recovery Steam Generator Mellach | Austria

- Design, construction, assembly and commissioning of the HRSG
- Plant capacity: 840 Mw_{el} net efficiency: 59,2%
- Boiler type: 2x HRSG, horizontal, triple pressure with reheat

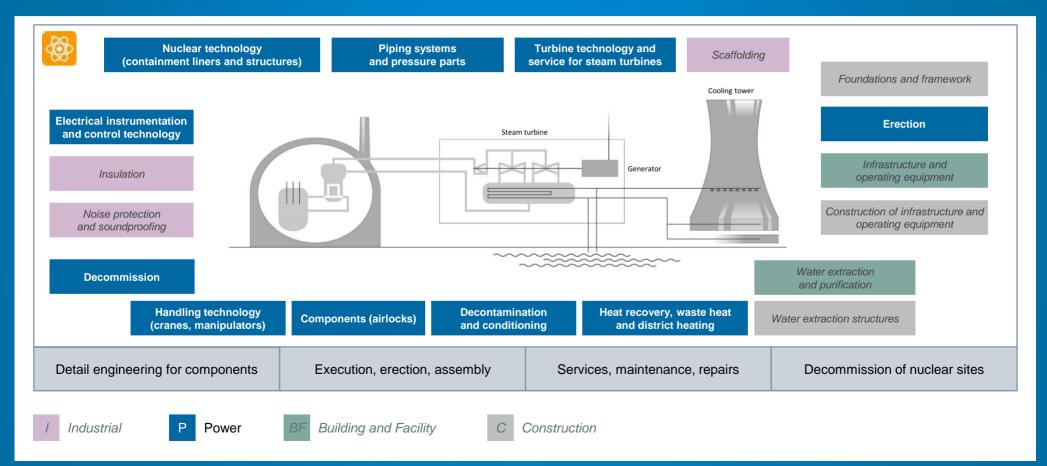


Bilfinger Mauell | Control Room Technology Control Room CCP Plant Munich South

- Automation System for new plant (two gas turbines and one steam turbine)
- Central Control Room for two plants with uniform operator interface
- Three Large Screen Systems for optimum plant survey

Strength & Innovations of Bilfinger Group Power plant range of services – Nuclear Energy





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Strength & Innovations of Bilfinger Power Selected references – Nuclear Energy





Babcock Noell | Nuclear Technology
Bilfinger Piping Technologies
Nuclear Power Station Olkiluoto 3 | Finland

 Construction of a new 1,600 MW EPR-reactor; design, delivery, prefabrication and construction of main steam and feed water lines and Nuclear Island. Design, prefabrication and delivery of containment liner.



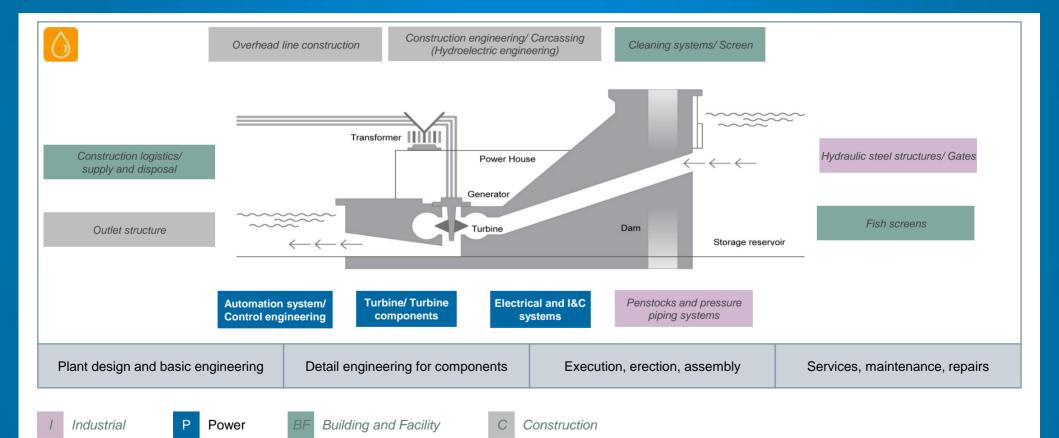
Babcock Noell | Nuclear Technology Nuclear Power Station Caorso (Piacenza) | Italy

 PHADEC (PHosphoric Acid DEContamination) Decontamination plant for radioactive steel; Design; Manufacturing; Fabrication; Construction; Commissioning

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Strength & Innovations of Bilfinger Group Power plant range of services – Hydropower





Strength & Innovations of Bilfinger Power Selected references – Renewable Energies





Babcock Maschienenbau | Hydro Power Hydro Power Plant Lünersee | Austria

Ready for delivery after total repair



Babcock Borsig Steinmüller | Upgrading and efficiency improvement Rodenhuize power plant | Belgium

- Conversion of the power plant from coal to operation with biomass
- Engineering, manufacturing, assembly and commissioning
- Conversion of the burners, modernization of the air ducts

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Strength & Innovations of Bilfinger Group

Range of services - Renewable Energies





Onshore wind power

Prestressing for wind towers



Foundations for wind parks



Photovoltaic

Installation, operation and maintenance

Building integration



Biomass / biogas

Biomass gasification

Biogas preparation / purification

Conversion to burning with biomass

Integration of regenerative fuels in buildings

Construction of operating buildings



Solar thermal

Insulation of piping systems in solar thermal power plants

Power block for solar thermal

power plants

Other

Micro gas turbines

Decentralized combined heat and power

Oxyfuel systems

Desertec Industrial Initiative



