



Rely on our Experience!

Skills, Engineering Tools
and Experts for your
Project Success

Application	Scope of Service
<p>Thermal Power Plants and Industrial Energy Management</p> <ul style="list-style-type: none"> • Owner’s engineering services • Lender’s engineering services • Management support • Engineering solutions <p>Benefits</p> <ul style="list-style-type: none"> • Concentrated know-how from experienced and skilled professionals • Inhouse design capabilities and design tools for steam generators, heat exchangers and flue gas cleaning plants • Reliable solutions based on decades of practical experience 	<p>Project Development Phase:</p> <ul style="list-style-type: none"> • Conceptual engineering • Feasibility studies • Environmental and social impact assessments (ESIA) • Fuel supply studies • Power evacuation and grid studies <p>Tender and Contracting Phase:</p> <ul style="list-style-type: none"> • Tender specifications • Bid clarifications and evaluations • Contracting strategy • Contract negotiations <p>Project Execution Phase:</p> <ul style="list-style-type: none"> • Project management (EPCM) • Design reviews • QA & QM • Erection and commissioning supervision • Acceptance tests • Training of personnel <p>Know-How Transfer / Licensing</p> <ul style="list-style-type: none"> • Boiler and heat exchanger design • Flue gas desulfurization and DeNO_x plant design

Reference List Excerpt

Consulting and Engineering Services

Scope	Client
Feasibility study for the retrofit of a flue gas desulphurisation plant, 3x50 MWel, Bituminous Coal, International Paper-Kwidzyn, Poland	International Paper - Kwidzyn sp. Z.o.o., Kwidzyn, Poland
Investigation and recovery scope development support after boiler damage, 600 MWel, Bituminous Coal, Duvha PS, South Africa	Eskom Enterprises, Johannesburg, South Africa
Plant assessment and life-ex study for a coal-fired power plant, 22.5 MWel, Lignite, Soma A PS, Turkey	Tübitak MRC, Ankara, Turkey
Know-how transfer and training in the design of CFBC boilers, Eskom Enterprises, South Africa	Eskom Enterprises, Johannesburg, South Africa
Basic design review, consultancy and supervision services - Owner's Engineer - for the construction of the 300 MWel lignite-fired thermal power plant Stanari, Bosnia&Herzegovina	EFT - Rudnik i Termoelektrana Stanari d.o.o., Serbia
Life time extension assessment for coal-fired boilers, 10x200 MWel, Hendrina PS, Bituminous Coal, South Africa	Siemens Ltd. South Africa for Eskom Enterprises, South Africa
Design study on coal range extension in supercritical utility boilers, 5x830 MWel, Bituminous Coal, Mundra PS, India	Coastal Gujarat Power Generation, Mumbai, India
FGD optimization-study, 2x110 MWel, Lignite, Novaky PS, Slovakia	Slovenske elektrarne, a. s., Bratislava, Slovakia
Design study for boiler with ultra-supercritical steam parameter and double reheat, 1350 MWel, Bituminous Coal, WaiGaoQiao PS No. 9, Shanghai, China	Wai Gao Qiao No.3 Power Generation Co., Ltd., Shanghai, China
Boiler operation monitoring, 2x750 t/h steam generators, Refinery Residues, Heavy Fuel Oil and Low-Pressure-Gas, PCK Schwedt, Germany	PCK Raffinerie GmbH, Schwedt, Germany
Design review for the steam generators, 12x800 MWel coal-fired power station, Kusile and Medupi PS, South Africa	Eskom Enterprises, Johannesburg, South Africa
Feasibility study for 2x660 MWel lignite fired power stations in Czech Republic	E.ON Engineering GmbH, Gelsenkirchen, Germany
Owner's Engineer for 800 MWel power plant, Bituminous Coal and Biomass, Amercentrale PS Unit 10, Netherlands	Essent Energie B.V., Netherlands

Legend:

PS – Power Station
 PF – Pulverized Fuel
 CHP – Heat and power plant

SCR – Selective Catalytic Reduction
 STP – Standard Temperature and Pressure
 HRSG – Heat Recovery Steam Generator

FGD – Flue Gas Desulphurization
 CFB – Circulating Fluidized Bed
 ESP – Electrostatic Precipitator

steinmüller
engineering

Steinmüller Engineering GmbH
IHI Group Company
Fabrikstraße 5 • D-51643 Gummersbach • Germany
Tel: +49 2261 78950-0
Fax: +49 2261 78950-199
info@steinmueller.com
www.steinmueller.com

