

steinmüller engineering news

Modernization | Replacement | Steam Generation &
Combustion Systems

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STRONG CHALLENGES - STEINMÜLLER ENGINEERING SOLUTIONS

An integrated approach to meet the task

The successful operation of power plants depends on an optimized overall system design. Therefore Steinmüller Engineering carefully creates solutions for interconnected single systems.

Power plant operators require the most beneficial system solution for the overall plant. This is ensured by taking into account the water steam cycle and firing system requirements. In a recent project we designed the firing system and the heating surfaces for a new bituminous coal fired boiler in Russia. As an important boundary condition the new boiler needed to fit into the existing boiler house.

Steinmüller Engineering ensured the successful execution of basic engineering and detail design review, while our local partner executed parts of the detail engineering, as well as the manufacture and supply of the components of the boiler. The project was realized under a very tight time schedule in close cooperation with our involved partners.

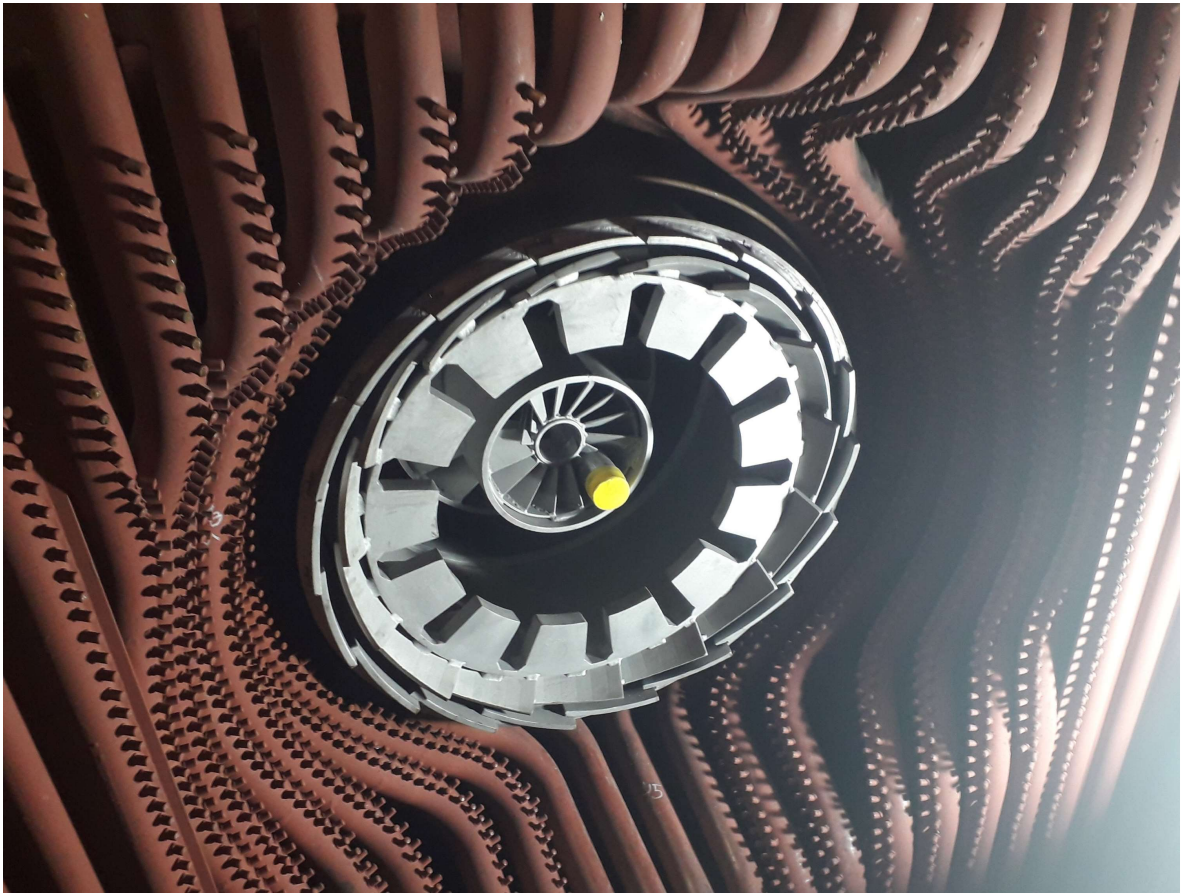


Photo: Steinmüller Engineering GmbH

The cold commissioning of the plant started in October 2018 with the goal to achieve the Russian NO_x emissions targets (400 mg/Nm³ @6% O₂) without secondary measures. Furthermore the operating flexibility and availability should be increased with the new boiler. We will keep you updated with first operational results after hot commissioning starts in January 2019.

Only a holistic view of combustion system and boiler design led to the solution of the task. www.steinmueller.com/en/combustion.html

PROFILE

The customer operates several combined heat and power plants with natural circulation boilers. The steam parameters of the considered boiler are 220 t/h; 540° C; 9,8 MPa. The fuel is a mix of bituminous coal, which is burned in six SM V burners. These burners are equipped with special wear protection parts in order to withstand the challenging coal quality.

„We know how to reach your targets.“

Paolo Schmidt-Holzmann - Department Manager Proposals Combustion Systems

Torsten Klose - Department Manager Proposals Steam Generation

WHAT IS YOUR CHALLENGE?



*Paolo Schmidt-Holzmann, Department
Manager Proposals Combustion Systems*

PLEASE CONTACT US.

Steinmüller Engineering GmbH

Fabrikstr. 5

51643 Gummersbach

+49 2261 78950290

paolo.schmidt-holzmann@steinmueller.com

www.steinmueller.com

Wenn Sie diese E-Mail (an: alliax50@hotmail.com) nicht mehr empfangen möchten, können Sie diese [hier](#) kostenlos abbestellen.

Steinmüller Engineering GmbH

IHI Group Company

Fabrikstraße 5

51643 Gummersbach / Germany

www.steinmueller.com

Impressum