

EUcontrol™

Intelligent optimization of fossil fired steam generators

The overall performance and availability of a fossil-fired thermal power plant is predominantly affected by the steam generating unit. Even though conventional plant DCS/PLC control ensures sufficiently safe and reliable operation, it neither rigorously optimizes the boiler control settings nor does it take care of special combustion problems. Not to mention that much of the information gathered by modern IT systems and advanced monitoring equipment remains untapped. Facing growing technical, environmental and commercial challenges, plant operators can avoid substantial investments by unearthing these “hidden reserves”.

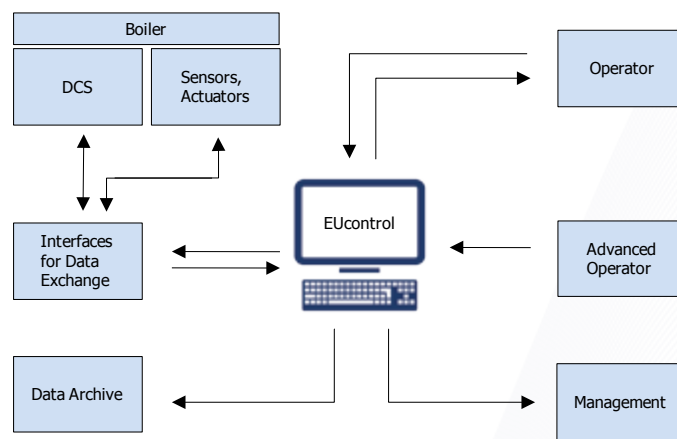
EUcontrol extracts available system information and uses it for intelligent control and optimization objectives: Increasing combustion efficiency, lowering emissions and reducing slagging/fouling tendencies in fossil-fired steam generators.

Optimization Strategy

- Real-time optimization
- Physical model predictive control (PMPC)
- Adapting to changing plant conditions
- Multivariate target optimization
- Emissions control
- Mill operation control

Benefits

- Reducing and controlling emissions
- Improving boiler efficiency
- Reducing slagging and limiting loss on ignition
- Enhancing availability
- Reduction of fuel consumption

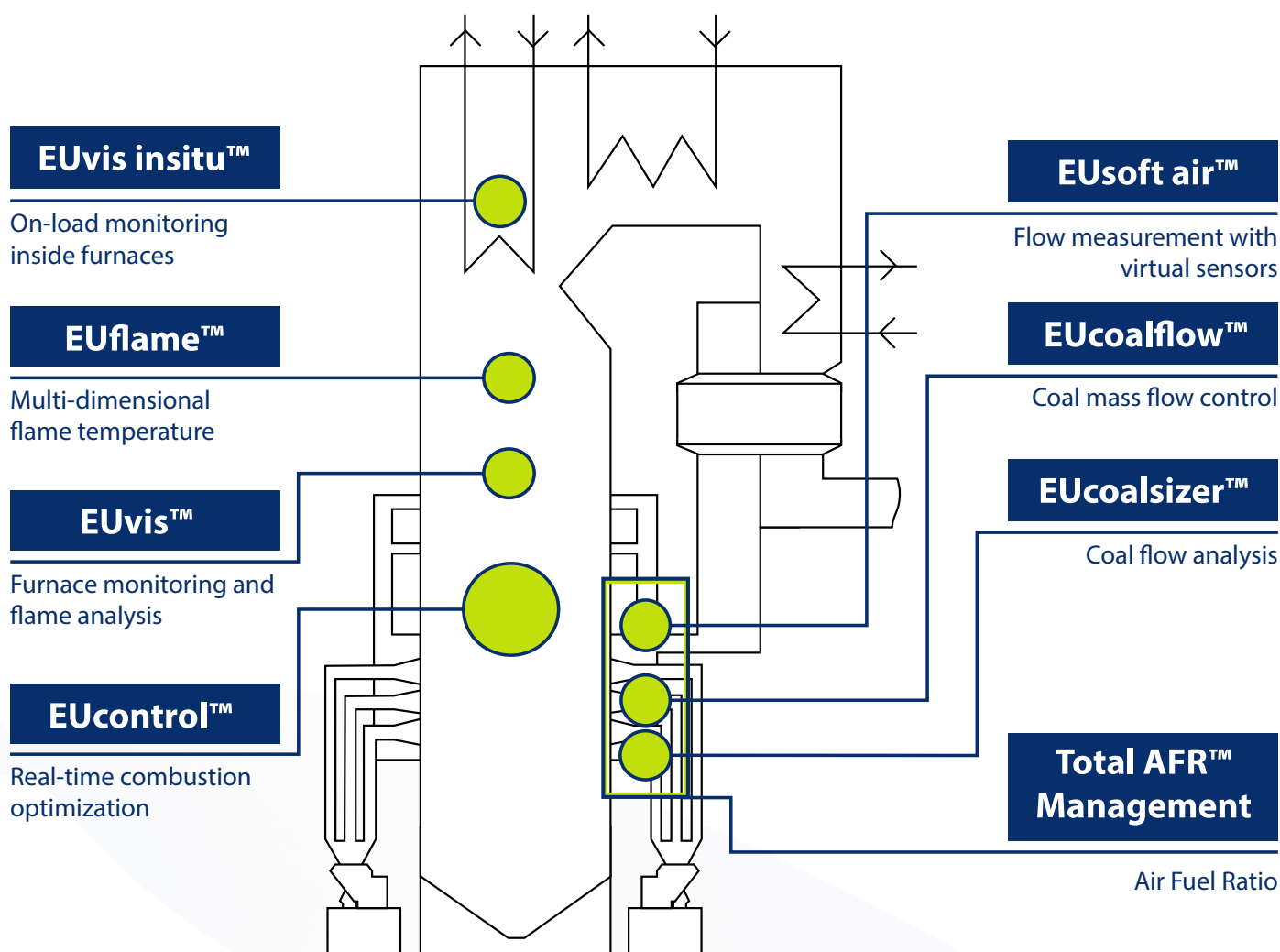


EUcontrol system set-up



EUtech Scientific Engineering GmbH

EUtech Scientific Engineering was founded in 1999. The company has established itself nationally and internationally as a successful engineering company in the areas of test stand engineering, simulation, automation and measuring technology. In addition to engineering services in all development phases, we offer turnkey test stands, software-based development tools and measurement systems for the power generation industry. With our innovative model based approach we optimize operations and increase the efficiency of power plants by stepping through the three phases: Measurement - Control - Optimization.



Contact

EUtech Scientific Engineering GmbH
 Dennewartstr. 25 - 27
 52068 Aachen, Germany
 Phone: +49 241 / 963 - 2380
 Fax: +49 241 / 963 - 2389
 Email: power@eutech.de
 Internet: www.eutech-scientific.de

