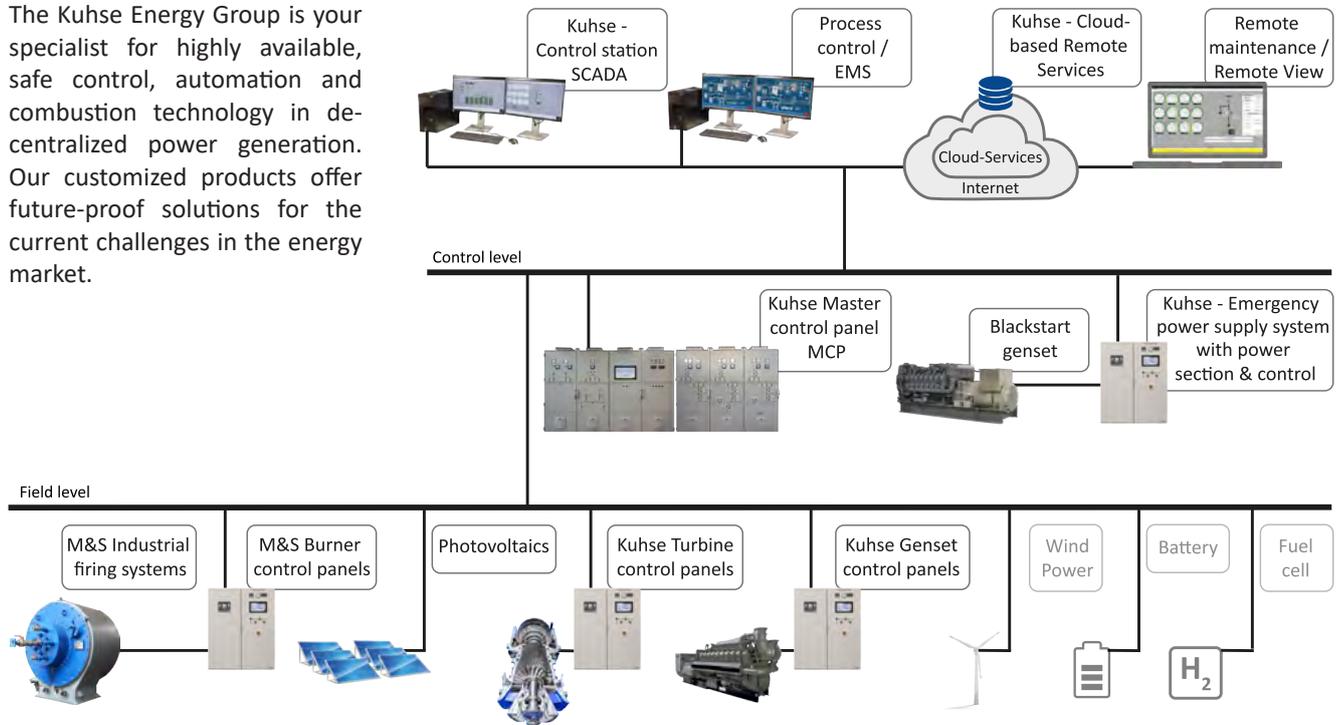




EFFICIENT MANAGEMENT OF
DECENTRALIZED ENERGY FLOWS

HIGHLY AVAILABE CONTROL SYSTEMS FOR POWER GENERATION

The Kuhse Energy Group is your specialist for highly available, safe control, automation and combustion technology in decentralized power generation. Our customized products offer future-proof solutions for the current challenges in the energy market.



BUSINESS SEGMENTS



POWER PLANT AUTOMATION

The Kuhse Energy Group offers conventional and complex control systems for emergency power, prime power, hybrid and power plant applications. The scope of services includes instrumentation and control technology, common control panels, SCADA systems and process control systems.



KRITIS / CYBER SECURITY

Cyber Security Packages of the Kuhse Energy Group secure control systems against cyber attacks. Especially in critical infrastructures, the cyber security solutions for emergency power and power plant applications are used and ensure a high level of operational reliability.

COMPETENCIES OF THE KUHSE ENERGY GROUP



Consulting

- Power Stations:
 - Structure of the electrical part
- Hybrid plants



Hard- / Software solutions

- according to process engineering specifications
- SPS programming of complex control systems
- Hardware and software upgrades



Commissioning and start-up

- Global commissioning support and installation supervision
- Worldwide on-site and remote service
- On-site training of operating personnel



Retrofit

- Modernization of existing control systems and firing plants



Engineering

- 2D & 3D design in the mechanical area
- EPLAN engineering in the electrical environment
- Flow analysis (CFD study) + FEM



Production

- Control panels and control systems
- Burners, plant components and stations
- International logistics



Maintenance services

- Electrical maintenance of switch-gear and control systems
- Maintenance of firing systems



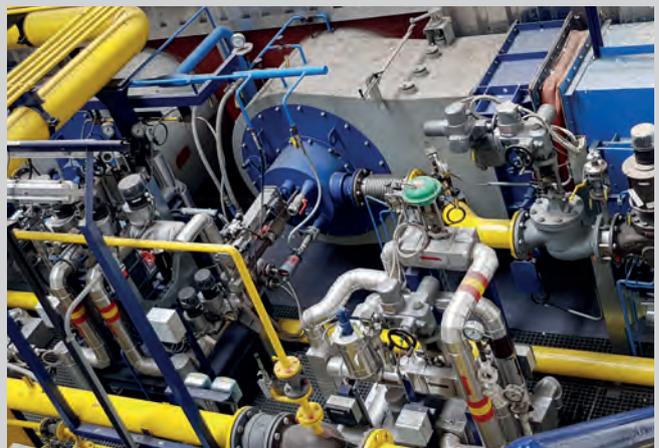
Remote monitoring

- Remote service and operation of control systems
- Preventive maintenance



HYBRID POWER / MICRO GRIDS

The Kuhse Energy Group combines conventional and renewable energy generators to modern hybrid plants. The Kuhse energy management system continuously optimizes plant operation and ensures high economic efficiency.



INDUSTRIAL FIRING TECHNOLOGY

The Kuhse Energy Group offers a comprehensive service portfolio in the field of firing systems for power plants and industrial boilers as well as thermoprocessing plants in the power range 5-100 MW per burner.

COMPANIES OF THE KUHSE ENERGY GROUP



M&S COMBUSTION TECHNOLOGIES GMBH

M&S Combustion Technologies is your partner for future-oriented and functionally reliable firing systems for power plants and industrial boilers as well as thermoprocessing plants in the power range 5-100 MW per burner. From engineering to commissioning, M&S offers all services from a single source.



KUHSE SECURE SYSTEMS GMBH

Kuhse Secure Systems delivers cyber secure digital solutions and remote services for critical infrastructures in the energy market. Cyber security packages for Kuhse control systems in critical infrastructures based on IEC 62443, the Cyber Security Act as well as the IT Security Act 2.0 ensure efficient commissioning, secure plant operation and optimal service support.



KUHSE POWER SOLUTIONS GMBH

Kuhse Power Solutions specializes in complex, high-availability control systems and instrumentation and control technology for power plants, emergency power systems, turbines, exhaust gas combustion and hybrid plants. As a system integrator, Kuhse offers complete individual system solutions - from EPLAN engineering to commissioning and maintenance - from a single source.

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