



**STEAG Energy Services stands for maximum performance and availability of Energy Facilities**



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# We are STEAG Energy Services

STEAG Energy Services (SES) is one of the world's leading service providers for power assets. Ensuring energy for prosperity and growth is our passion. How do we know what is needed for reliable and environmentally-friendly power plant operation providing sustained economic efficiency?

Because STEAG has planned, constructed and operated its own power plants for more than 80 years now, we are among the best in the industry, thanks to the expertise we have gained over 40 years in providing third parties with energy services. The triad of highly-qualified engineering, operational expertise and innovative software solutions makes us unique.

# This triad makes STEAG Energy Services unique

## 1 German Engineering

We represent the German art of engineering and quality and have worked on more than 100,000 MW of power plant capacity in all technologies.

## 2 O&M Practices

Owing to our background in power generation from more than 80 years, we belong to the leading service providers worldwide and currently operate more than 10,500 MW and provide O&M management support for further 4,600 for third parties.

## 3 Digital Solutions

Our smart digital solutions support owners, operators and asset managers in improving yields, managing process variability, forecasting maintenance needs and increasing revenue. More than 100 GW across all technologies have been equipped so far.



## Value Chain – Solutions & Services

### Consulting & Advisory

- Project management and control
- Quality management, assurance and control
- Technical due diligence
- Lender's Engineer for financing agencies
- Asset management consultancy

### Planning & Development

- Basic engineering and detailed design
- Project development studies
- Permit planning
- Thermal calculation of boilers
- Fluid flow and reaction calculations (CFD)
- Modelling of cycle processes
- Procurement planning (tendering, bid comparison, negotiation of contracts)

### Construction & Commissioning

- Plan and design review
- Project management
- Detailed and implementation planning
- Quality management, assurance and control
- Construction planning and management of supervision
- Owner's engineer for general contractor agreements

### Operation & Maintenance

- O&M Support / Management
- O&M Management & Staff
- IT-based Operation & Maintenance
- Troubleshooting
- Plant optimization and flexibilisation
- Condition assessment of plants and components
- HR development and training
- Creation of individual power plant simulators

### Monitoring & Optimization

- Enhancement of plant availability
- Analysis and optimization
- Optimization of O&M processes
- Online monitoring systems
- Operation management systems
- Soot blowing management
- IT tools for wind farms
- Predictive analytics systems

### Decommissioning & Dismantling

- Planning and construction of facilities for storage of nuclear waste
- Decommissioning and dismantling of nuclear facilities
- Safety, radiation protection and calculations
- Delivery of special cranes and components for nuclear applications
- Planning and delivery of nuclear ventilation systems

## Key Facts

Parent company	SES is a 100 % subsidiary of the STEAG Group
Headquarter	Essen
International Presence	Germany, Brazil, India, Switzerland, Turkey, USA, Botswana and Spain
Management	Anke Langner Ulrich Sigel
Employees	2,500 from 30 nations
Project experience	in 80 countries
Engineering	> 100,000 MW of all technologies
O&M	~ 15,000 MW for third parties
Digital Solutions	> 100 GW of all technologies equipped with real-time Asset Intelligence

## History

1970	Development of the new power generation and waste management business unit as the basis for SES
1983	Expansion into Turkey
1992	Expansion into the USA
2000	SES begins to operate as a wholly owned subsidiary of STEAG
2001	Expansion to India
2002	Expansion to Brazil
2005	Expansion to South Africa
2012	Acquisition of Powitec GmbH – expansion of IT-based optimization solutions with sensor-based control systems
2018	Acquisition of Krantz GmbH – expansion of nuclear engineering with key technologies in the field of ventilation systems
2019	Acquisition of STEAG Solar Energy Solutions GmbH (formerly Gildemeister energy solutions GmbH), in short SENS – Strengthening the service portfolio in the field of photovoltaics

## Selected Customers




[www.steag-energyservices.com](http://www.steag-energyservices.com)