



# Renewable energy from waste and biomass

# Knowledge and experience for your projects

STEAG Energy Services is specialised in engineering and O&M management of waste to energy and biomass power plants, focusing on thermal energy generation facilities for municipal solid wastes, biomass, refuse-derived fuels and production residues. With our range of services we support private and municipal clients to implement projects designed to generate energy from special fuels.







### **Project Development**

We support you in the project development phase with concepts and expertises, for instance by feasibility studies on the basis of market analyses and technology comparison.

You want to know what you're letting yourself in for? First of all we analyze all relevant prerequisites. You get well-founded information from us which can be used as a basis for your investment decision.

### **Project Planning and Engineering**

Independent of technologies and suppliers, we handle the complete project planning for you and contribute our experience from the operation and maintenance, planning and implementation of similar plants. The result is functional solutions based on actual practice.

We prepare and accompany the tendering process, examine optimized energy recovery alternatives and evaluate the bids, technically and commercially.

We prepare all necessary permitting documentation of the project starting from the initial meeting with the authorities – scoping term – up to the hearing.

### **Project Management**

Our primary target is that cost budgets and time schedules will be maintained. As your independent partner we recommend the qualified plant supplier for you and monitor costs and deadlines as well as supervise construction, commissioning and trial operation.

Furthermore the quality control carried out by us ensures an optimum cost-performance ratio for you.

# Competence which conserves natural resources

STEAG Energy Services GmbH is an interdisciplinary designer and operator with decades of experience in power plant engineering and energetic biomass and waste utilisation. The experience we have enables us to develop entirely solutions for projects and to prepare and support client specific the permitting process independent from the fuel to be used.

## Site Supervision/Commissioning

Referring to the numerous own and third parties projects we developed at home and abroad STEAG Energy Services gained a lot of experiences which we will bring in to the benefit of our client.

## Quality Assurance Control

We elaborate quality assurance and control procedures for new-built projects, retrofits and maintenance outages, which we execute commonly with the client. Thereby we execute on site inspections during manufacturing, transport and erection as well as expediting measures – if necessary. Furthermore we accompany on behalf of our client external experts and third parties.

## Plant Operation

STEAG Energy Services with its longstanding O&M experience is as well your qualified, experienced partner for

the structuring of operations and for plant operation itself. For example, we can plan and organize your operating structure and train your staff. However we can also take over the complete operation and maintenance of your plant. Moreover we provide additional services – for instance acceptance measurements and catalyst management.

## Plant Optimization

With the handing-over of a plant, continuous improvement of the plant systems in daily operation commences. Process optimization is a daily task of the on site operating staff, which, through integration of the latest findings, results in an improvement of the availability and, e.g., energy efficiency as well as operating economies.

**Take advantage of the  
potential of an interdis-  
ciplinary engineering  
company**





# References

**Our process, mechanical, civil, electrical and I&C engineers design and realize energy generation plants for following fuels:**

- Municipal solid wastes
- Refuse-derived fuels
- Biomass/waste wood
- Special wastes

STEAG Energy Services GmbH has a successful track record of providing services for projects based on the aforementioned fuels, including:

- EVA Höchst
- T.A. Lauta
- BMK Lünen
- Liquid Waste Incineration of Clariant Products (Switzerland) AG, Site MuttENZ
- Liquid Waste Incineration DSM Nutritional Products AG, Site Sisseln, Switzerland
- AEZ Asdonkshof
- RZR Herten
- RMHKW Böblingen
- MHKW Burgkirchen
- AVA Augsburg
- Biomass Power Plants Buchen, Dresden, Traunreut, Großbaitingen, Neufahrn, Ilmenau

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