

# Green solutions developed by experts

STEAG offering medium-sized enterprises energy studies that map out a specific path for decarbonization

Essen. Building upon more than eight decades of extensive experience in the concept-level design, planning, construction, and operation of complex power engineering systems, Essen-based energy company STEAG is now offering three graded energy studies for industrial and commercial companies. These ready-made packages enable medium-sized enterprises to get off to a quick start with their decarbonization process. STEAG's particular strength here lies in its broad-based expertise across the entire energy value chain: From photovoltaic systems to storage technology, solutions for waste heat utilization and heat recovery, ventilation, air filtration and compressed air technology, as well as digital services - STEAG integrates all this expertise in the energy studies to identify how the customer can decarbonize in their pursuit of carbon neutrality.

Be it energy optimization of an automotive supplier's power and heat generation, harnessing waste heat on an industrial scale, preparing consumption analyses or providing customized engineering services – STEAG can draw on the wealth of its own resources when it comes to creating individual energy concepts: "Our versatility is our greatest asset," says Ulrich Sigel who, together with Anke Langner, heads the Energy Solutions business unit.

## What does "energy study" mean?

The preparation of an energy study begins with a fundamental analysis of the current situation. Based on this, STEAG then works out options for action for the customer. If desired, STEAG also provides support in implementing the proposed measures.

STEAG delivers a broad, in-depth service when drawing up an energy concept: "We analyze the baseline situation, define goals in consultation with our customers, and then identify ways these goals can be accomplished," Ulrich Sigel explains, outlining STEAG's approach. For a project to succeed on a long-term basis, he says, there is one thing in particular that is important: "The first step is understanding what our customers need and where they're starting from, and then identifying perspectives for making processes better, more efficient and more sustainable on a lasting basis. And that's precisely why we've put together three packages for our medium-sized customers." Depending on the challenges they face, customers can

choose between costs ranging from 13,500 euros for the Basic package to 36,250 euros for the Expert package. Even in the Basic package, potential government funding opportunities can be identified if required.

### Energy concept studies provide specific recommendations

Especially for medium-sized industrial enterprises, the energy concept studies offer clear recommendations for action geared towards achieving carbon neutrality. For Karlsberg Brewery in the Saarland region, for example, the study showed how the existing steam turbine for on-site power generation could be replaced by a modern power and heat supply system. Following completion of the project, the combined generation of power and heat enabled a significant cut in CO<sub>2</sub> emissions by around 5,200 t per year.

It is projects like this that explain why customers not only seek advice and support from STEAG in developing ideas and concepts for improving their systems technology and operating processes, but also subsequently entrust the Essen-based energy specialists with implementing the plans: “We’re accomplished in theory and practice, we know what we’re talking about, and not having to buy in the necessary expertise for implementation gives us the competitive edge. Our customers have one contact person and don’t have to deal with coordinating the individual steps themselves,” says Anke Langner, highlighting the advantages of such an approach. This ultimately eases the stress on the customer, who also benefits from STEAG’s extensive experience in managing complex infrastructure projects, she continues.

### Methanol synthesis

What this actually looks like in practice is impressively demonstrated by a number of recent projects. For example, a methanol synthesis facility is to be built on the site of a municipal waste-to-energy plant in Zella-Mehlis, Thuringia, and will be fed with energy from that plant. “This will enable us to provide the local public transport system and the fleet of municipal waste disposal vehicles with green fuel directly on the spot, so making an important contribution to reducing emissions and achieving climate neutrality,” Ulrich Sigel explains, underlining the scale of the project.

The Stuttgart-based STEAG subsidiary OPTENDA also offers companies help with decarbonization. The “CO<sub>2</sub> Monitor”, a lean and intuitive software solution for recording and balancing emissions, identifies possible approaches to reducing CO<sub>2</sub> emissions in the future or avoiding them altogether.

### Analytical preparation and concrete measures – STEAG offers all-inclusive service

What all these projects have in common is that they were developed from the fundamental stance that is typical of STEAG of seeing the given task from the perspective of the customer, who has a specific problem to solve, or who needs to optimize, improve efficiency or tap unused synergy potential. Ulrich Sigel values the quality of the STEAG team: “With our skills and abilities, we can look at the task set by our customer from all angles, analyze it and then in effect immediately offer a concrete solution for implementation from our toolbox, enabling the customer to hit the ground running.”

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### Want to get in touch?

Are you interested in having STEAG draw up an energy concept for you, too? Find out more about the different packages on our website: <https://www.steag.com/en/services/energy-concepts>. Feel free to contact us – we look forward to helping you!

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## About STEAG

For over 80 years, STEAG has stood for efficient and reliable power generation, both in Germany and abroad. As an experienced partner, we support our customers comprehensively in all phases of power supply. We design, develop, implement, operate and market highly efficient energy solutions – from distributed generation facilities and those based on renewable sources to large central power plants. Together with customized solutions in the field of electricity and heat supply, we also provide a wide range of energy services – increasingly on the basis of renewables. Successfully so: Since 1990, STEAG has permanently reduced its own CO<sub>2</sub> emissions in Germany by approximately 85 percent.

## About the STEAG Energy Solutions business unit

STEAG Energy Solutions is the specialist for the complex challenges in the field of energy. We are passionate about finding smart solutions. Our customers span a range of industries and also include cities & municipalities, utilities, and investors. Because they're local, regional and international, we are too. In interdisciplinary teams, we develop solutions that increase value, cut costs and make our customers fit for a sustainable future. Our strength is being able to draw on a broad, in-depth range of products and services, from which we put together the right package for the customer. Our customers and partners range from refineries to pharmaceutical companies, automotive suppliers, food companies, paper mills, and airports. Regardless of sector, we are the preferred solution provider for public utilities, municipalities, international energy companies, industries, developers / investors, and general contractors.

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