CUSTOMIZED CONCEPTS FOR ENERGY SYSTEMS

1  Project briefing at a combustor.
2  Optimally utilizing energy systems.
3  A biomass cogeneration plant cost effectively integrated in the manufacturing process.

Fraunhofer Institute for Factory Operation and Automation IFF
Prof. Michael Schenk
Sandtorstrasse 22
39106 Magdeburg
Germany

Contact
Process and Plant Engineering
Dr. Matthias Gohla
Phone +49 391 4090-361
Fax +49 391 4090-93-361
matthias.gohla@iff.fraunhofer.de

www.iff.fraunhofer.de/en/pat

Would you like to supply your company with energy more cost effectively? Are new locations supposed to be developed? Are you planning a change in production? Allow us to develop the right energy supply concept for your company.

From the Basic Analysis to the Concept

Our approach: Following an in-depth holistic analysis of all of the basic technical and economic conditions, we will develop an optimal energy supply concept for your facility. We work vendor and technology neutral and cross-industry. Our expertise in combustion systems, power and process engineering and plant engineering enable us to additionally provide extensive engineering and planning services. Our know-how extends far into your manufacturing. Our solutions will help you avoid problems with later process management or costs ensuing from incorrectly sized systems.

We will ascertain all of the data relevant for your future energy system and explore the feasibility of technologies worth considering for your facility. In the process, we are able to fall back on our extensive portfolio of analysis methods, testing facilities and advanced simulation tools. Our capabilities are supplemented by special software applications.

Rely on our top team of experts in process engineering, process equipment and plant engineering, instrumentation and control engineering and computer simulation to contribute their extensive project experience and their latest research findings to turn innovations into your success.

We would be glad to provide you support throughout every phase of your project, from planning to implementation, including construction site coordination, and even commissioning and operation. We will help
you cut your energy and disposal costs, reduce your use of fossil fuels and thus boost your energy efficiency long term.

---

**Stay Efficient: Optimize Energy Systems**

Take advantage of our services even if your energy system has been in operation for years. Every system needs service and maintenance. This entails continuously searching for potentials for optimization. Following an initial free consultation, we will assess whether further studies of your system are worthwhile and whether there is potential to boost efficiency.

---

**R&D Made Easy**

Professionally sound engineering combined with academic standards is just as natural for us as clear communication. Take advantage of this and make us your research and development partner. Allow us to provide you support if you apply for research and development grants in your specific field and to be your project partner.

---

**Rely on Our Experience**

Numerous companies from the widest variety of industries rely on our know-how:

**Industry and Manufacturing**
- Lumber industry
- Paper industry
- Chemicals industry
- Automotive supplier industry
- Breweries, fruit mills
- Feed industry
- Recycling industry
- Livestock farming
- Agriculture and forestry

**Energy Industry and Disposal**
- Municipal and industrial heating (and power) plants
- Municipal central heating plants
- Biogas plants
- Sewage treatment plants

Take advantage of our know-how for your company, too!

---

4 Continuous monitoring assures high efficiency.
5 Advanced simulation systems support our R&D work.
6 Treat power systems including your production facilities holistically.

Images: 1 Dirk Mahler, 2,3 Marcus Kögler, 4, 6 Dirk Mahler, 5 Thoralf Winkler