TOP-Energy® at a glance



Discover Potentials

Ecological and economic evaluation of investments and business expansions



Structural Optimization

Determine the optimal technologies and dimensions for your energy system



Optimizing Operating mode

Best possible operation of your energy system under conside ration of time-dependent para-

Opportunities with TOP-Energy®



Recognizing Paths

Identify transformation paths to CO2 neutrality using the scenario manager



Multi-Parameter Studies

Holistic design of sector-coupled energy systems and investigation of sensitivities



Individual solutions

Customized energy concepts for your application



Variety

The extensive component library allows mapping of any energy system



Standardization

Project templates for common use cases



Optimization

Integrated optimizers find the economic, ecological, and energetic optimum

Arguments for TOP-Energy®



Time Saving

Quick and easy creation of energy and district concepts



Direct Sales

Development and service, competent consulting, and support from a single source



Flexibility



Compare technically and economically a multitude of approaches with little effort

The TOP-Energy®-Team

The simulation software TOP-Energy® has been developed at the Society for the Advancement of Applied Computer Science (GFal, registered non-profit association) in Berlin since 2003. An independent work group in the GFal's Graph Based Engineering Systems (Graphing) research division is perfecting TOP-Energy® in an agile software development process with continuous intensive testing. Energy and process engineers, economists, software developers, modeling experts, mathematicians, and scientists from other disciplines provide development, sales, and support. Comprehensive documentation ensures clear access to the details.

The software is constantly enhanced with new components and possibilities:

"Constantly changing conditions always pose new challenges for us, that's why we keep working on the topics of tomorrow", says Dr. Stefan Kirschbaum, head of the Graphing research division of GFal.

TOP-Energy®

Modeling, optimization and analysis of energy systems

GFal

The Gesellschaft zur Förderung angewandter Informatik e. V. (Society for the Advancement of Applied Computer Science, registered non-profit association, GFal for short), as a private research institute, has been supporting its partners in innovations with industry-oriented and application-oriented research for over 30 years. In addition to graphical engineering systems such as TOP-Energy®, more than 150 employees also develop promising solutions in the areas of signal processing (acoustic camera), 3-D data processing, and process automation.

Contact

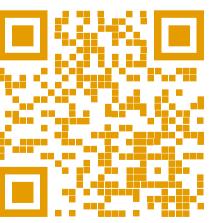
Tim Meyer

Phone: +49 30 814563-538

E-Mail: tmeyer@gfai.de

Do you want to test TOP-Energy®?

Please simply register free of charge at www.top-energy.de/30-tage-demo and test the software without obligation.





Volmerstrasse 3, 12489 Berlin, Germany

Phone: +49 30 814563-741 E-Mail: info@top-energy.de











Optimizing Energy Systems

TOP-Energy® is software for the analysis and evaluation of complex energy systems. It helps you to optimize your plant operation and creates a solid basis for your investment decisions.

Quickly and easily create a digital twin of your energy system. Compare different variants according to economic and ecological aspects and present your simulation results graphically appealing in diagrams, time series plots, and flow charts.

Get the latest measurement data and forecasts evaluated to optimally design and operate your plant at all times.

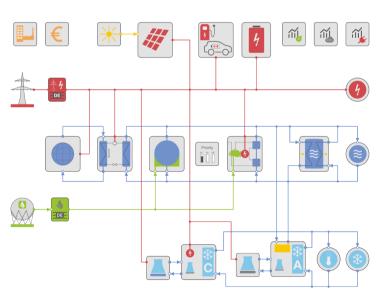
The optimization results are used for predictive loading of storage facilities, marketing of generated energy, optimized purchasing, and avoidance of peak loads.

The convenient and easy-to-use interface of TOP-Energy® allows power plant and district operators, engineering firms, and research institutes to answer the most complicated energy-related questions. You can also model special cases of energy engineering and your innovative ideas with TOP-Energy® with little effort.

Transforming Energy Systems

The transformation of the energy supplychain offers companies the opportunity to build up competitive advantages by investing in innovative technologies. TOP-Energy® shows the potentials and paths resulting from the combination of renewable and conventional energy sources in industry and commerce, in the construction industry, in neighborhood management, and in the mobility sector, and evaluates the interdependencies that are difficult to grasp. TOP-Energy® thus goes far beyond the possibilities of conventional Excel tools and the calculation with standards and estimation tools.

With TOP-Energy®, you minimize energy and operating costs and exploit the optimization potential of sector-coupled energy systems.



Place and connect the components of your energy system on

Component Library More than 200 prefabricated components from the sectors electrici ty, heating, cooling, steam, compressed air, and mobility







Potential analysis - integration of an energy storage device and PV into a buildings energy system





Visualize time series according to your wishes and illustrate parameter relationships in 2-D and 3-D representations

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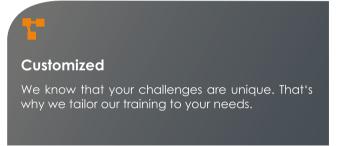
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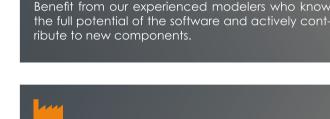


Workshops

To get you started guickly, we offer training courses and workshops in which we show you proven methods and how to use the simulation software effectively - if you like, based on a project of your choice. This way, you will quickly become very familiar with the software and have your bestpractice basic model at your disposal right from the start.

Experienced users also benefit from our experts: through our support and workshops in which you learn, for example, to create your own special components.





Expert Knowledge





Services

For extensive simulation or modeling tasks, we offer TOP-Energy® as a service. We support you in creating the models, or you outsource complex modeling tasks and simulations completely to us. Our experts are happy to work with you to find solutions for your energy objectives. We provide you with customized models and well-prepared results





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