

# geff

## visualization + monitoring +



**g**eneration - all of us

**e**fficiency - doing things right, being effective

We provide energy efficiency-focused consulting and project management services for building technology, production processes, and infrastructure challenges. Through our network of geff Partners and our branded services, we bring local and international, licensed experts to you from under one brand to cover all of your energy efficiency-related needs - from planning & installation to maintenance & operation.

visualization +

monitoring +

**Reveal Energy Behavior**  
**Create Transparency**  
**Systematically Control Consumption**  
**Sensibilize**

## Optimization of your Energy Consumption

**geff** offers modular solutions, customized to the demands of your operations and existing systems. We focus on both your economic and your environmental needs.

**geff** guides you through the entire optimization process.

The collection and visualization of your consumption data builds the foundation for all optimization measures. The analysis of that data gives us the ability to identify and act in a targeted manner, together with you, to improve your energy outcomes. Together, we set the scope for savings and investments in the latest technology. We will of course also provide the implementation and execution of all the necessary improvement measures. Once the chosen optimization measure has been deployed, ongoing monitoring of resulting energy consumption ensures ongoing sustainability.

**User behavior** plays a central role in optimizing your energy consumption. The visualization of your consumption and its costs helps increase awareness and sensitivity towards energy efficiency within your company. We provide all the necessary training for your staff as participants in the optimization solution.

Our role as a **manufacturer-independent** energy efficiency provider guarantees that we will help you find the most modern and innovative monitoring hardware concept to fit your individual needs.

**We offer you a complete solution - a worry-free package  
guaranteed and financed.**

### Steps

**Visualize/Analyze**  
**Implement**  
**Monitor**



**feel worry-free**

<b>Energy Savings Guarantee</b>	<b>Facilitation of Financing</b>
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## geff - global Energy Monitoring System (gEMS)



### Web-Based

Access your energy data at any time from anywhere in the world via your web browser



### Multi-Language Integration

Administer your energy data across multiple sites around the world from within one multi-language system.



### Scalable

Start with just a few measurement points or with thousands; the system easily grows with you.



### Advanced Analytics

All the tools you need to monitor, target, and reduce energy consumption.



### Hardware-Agnostic

Integrate data from a wide range of equipment, systems, and formats.



### Modular Concept

Select levels of functionality to fit your organization's individual needs. . . . .



### gEMS Marketing Tool

Provides your employees, clients, and visitors with a way to actually see the savings that you have been able to generate.



**Energy Analysis**

**Cost Tracking**

**Reporting**

**Virtual Metering**

**Benchmarking**

**Automatic E-Mail Alerts**

**Utility Bill Verification**

**Sustainability Dashboard**

**Tenant Billing**

**Flexible Data Import**

**Data Export Capability (Excel®)**

**Features**

## Efficient Operations through Visualization and Monitoring

The plus points of energy visualization and monitoring

- + continual improvement of energy efficiency
- + energy savings
- + improved economic viability
- + reduction of CO<sub>2</sub> emissions
- + sensitization of all involved parties towards energy efficiency
- + clear positioning as a sustainable company
- + creates the basis for energy-sensitive company policies
- + meets the base requirements for ISO 50001
- + requirement for various government-funded programs

# Save up to 30%

**cfm ° Fahrenheit**

**CO<sub>2</sub> kWh**

Lighting

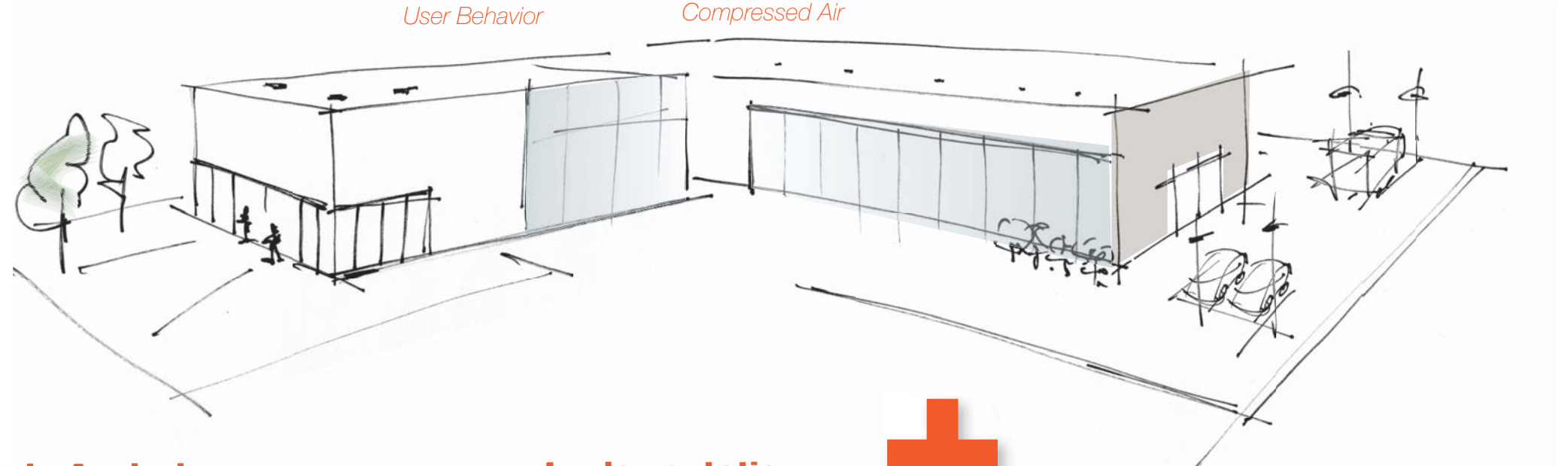
Production Processes

Climate Control

Water Consumption

User Behavior

Compressed Air



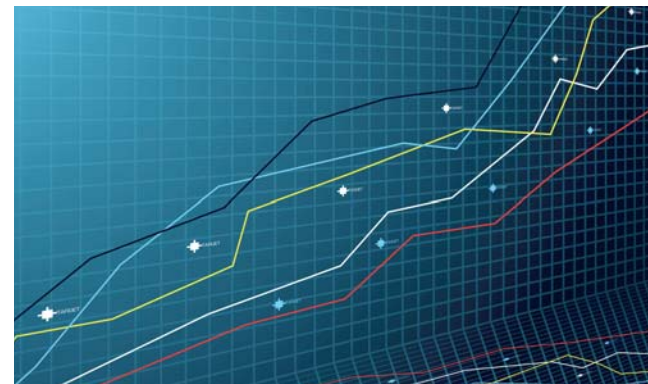
### Data-Gathering and Integration



Data on the consumption, equipment, utility contracts, and the operational characteristics of your complete facility, as well as user behavior across the entire value chain is collected. The necessary hardware and sensors will be integrated into your operations as seamlessly as possible. The raw data will be processed and visualized to provide usable and easily understandable measurements.

Regularly seeing this data will inevitably lead to a higher level of sensitization towards energy waste and efficiency measures in your company.

### Data Analysis



Your energy balance will be revealed, allowing for the development of system-related, technical, organizational, and personnel-related efficiency improvements.

Together, we will determine the need for appropriate technologies and investments. We will also include the availability and feasibility of government and utility incentives in the financial planning for the project.

### Implementation



We will implement all the necessary optimization measures to the highest quality standards. We have a long history of experience working in highly-sensitive client operations, and are very careful to take all of your operational schedules and business needs into account within our project management practices. An important element during this phase of the implementation process is the training and integration of your employees into the solution.

### Monitoring



Via gEEMS (geff Energy Monitoring System), we monitor and evaluate all measurement data on a continual basis. Anomalies can be quickly identified and corrected, while also allowing for ongoing optimization.

Of course we also protect and secure all of your data.

Should further technical optimization of your operational and facility infrastructure become necessary, we will be there to help you implement those improvements.

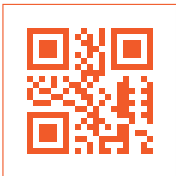
feel efficiency

feel good

feel **geff**

**The first step to becoming more efficient  
and sustainable is to recognize your role  
in solving the greatest challenge in our society  
- join generation efficiency.**

**g**eneration  
**e**fficiency



**geff**  
**generation efficiency**

Steffen Müller, President

Telephone +1 (302) 482-4872

[ask@geff.us](mailto:ask@geff.us)  
[www.geff.us](http://www.geff.us)

**geff L.P.**

Karlheinz Rogge, LEED Green Associate  
Managing Director of West Coast Operations  
12777 Wildcat Canyon Road  
Lakeside, California 92040  
USA

Telephone +1 (619) 561-0228  
Mobile +1 (858) 413-6649

[karlheinz.rogge@geff.us](mailto:karlheinz.rogge@geff.us)  
[www.geff.us](http://www.geff.us)