

# VEGA Journal

**TECHNOLOGY:** Embedded in Nature's cycles. **FIELD REPORT:** Innovative energy storage. **FIELD REPORT:** Energy storage at the top of the world. **FIELD REPORT:** When the heat gets hot. **LOOKING FORWARD:** Energy at VEGA.

Issue 1/12

Energy of  
the Future



## Energy at VEGA

**The headquarters of Vega grieshaber kg is located in a picturesque valley in the Black Forest, directly next to the river Kinzig. Because of its close ties to the location and its desire to preserve the natural landscape, Vega places great emphasis on implementing the latest building and energy management.**

Energy and water are managed efficiently and effectively at VEGA. Since 1997, VEGA has been producing electricity in its own hydroelectric power station. Today, 50 % of VEGA's energy needs are covered by it and a new cogeneration plant.



In the new building complex, even more energy-saving measures than usual have been implemented. A combined heating and cooling system, with concrete core cooling, creates an optimal working temperature for employees. The floors are supplied with heated or cooled air through tubing integrated in the concrete slabs and the stored energy is released when needed. Thanks to the highly efficient building insulation, a flow temperature of +23 °C in the heating circuits suffices for a room temperature of +21 °C. In winter, the heating circuits are supplied by a gas-powered cogeneration plant with about 220 kW of thermal power output. Energy efficiency is also improved through daylight-dependent balanced lighting. A regulating system ensures that light levels in the various work areas is constant, thus saving about 40 % of electrical energy for lighting. This represents the annual consumption of about 4 single-family homes

“Every kilowatt hour of electricity or heat saved, every litre of water saved, protects the environment beyond just today.”



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