

# **Federspiel Controls Energy Management Systems Reduce Carbon Footprint, Energy Consumption at Akamai**

## **Akamai Saves Over \$17,000 per year and 170,000 lbs. in avoided GHG Emissions in Data Center**

El Cerrito, California (April 5, 2011) Federspiel Controls announced today that Akamai Technologies, Inc., a leading provider of cloud optimization services, expects to save more than \$17,000 per year in corporate data center energy costs and dramatically reduce carbon emissions based on its use of Federspiel Controls energy management systems.

Beyond these direct energy savings, the Federspiel Controls energy management systems provide Akamai with visibility into its data center's cooling infrastructure, enabling facility management to "spot problems before they occur" and identify more ways to improve operational efficiency, uptime and resilience.

When Akamai targeted its 5,700 square foot corporate data center as a particularly high energy consumer, it began to seek options for reducing costs and supporting sustainability objectives. A Federspiel Controls energy management system was chosen and, following implementation, nearly instantaneously netted significant energy savings by optimizing the cooling dynamics of existing equipment within the data center. As a result, Akamai will reduce annual kilowatt hours used by approximately 150,000 - equivalent to the annual electricity use of 13 households. In addition, the company expects to reduce its annual carbon emissions by 170,000 lbs.

"The Federspiel Controls system performed brilliantly," said Akamai Facility Systems Manager Joe Roux. "Within moments of deployment, the Federspiel Controls system identified and corrected cooling system inefficiencies. In addition, it optimized the operation of the remaining units for longer life and revealed previously invisible airflow blockages. We were amazed by the depth of the insight and immediate results provided by this technology."

"Our parameters for this project were unequivocal," said Nicole Peill-Moelter, Akamai Director of Environmental Sustainability. "We required energy savings with short-term

ROI, and absolutely no adverse impact to our corporate data center. Federspiel Controls exceeded our expectations in both areas.”

Housing a total of five computer room air conditioners (CRACs), the data center featured an air-cooled direct expansion system with fixed fan speeds and no variable drive capabilities. With Federspiel Controls dynamic cooling technology, Akamai can now operate its data center with fewer CRACs with no impact to temperature or performance. In addition, the Federspiel Controls systems automatically adjusted the remaining CRACs for more consistent and higher efficiency operation, reducing on/off cycling and associated wear and tear on the machinery. Newfound visibility throughout the cooling infrastructure provided by Federspiel Controls real-time monitoring has enabled facility management to continually adjust operations as new conditions arise, anticipating and proactively resolving potential issues.

“Akamai’s leadership in sustainability and carbon accounting makes a dramatic statement that what is green can also be good for the bottom line,” said Mark Housley, CEO of Federspiel Controls. “With a Federspiel Controls energy management system, savings are just the beginning, however. The improved uptime and resiliency our systems provide is an essential tool for delivering on SLA commitments.”

### **About Federspiel Controls Energy Management Systems**

Federspiel Controls systems combine the latest hardware, software and networking technology to deliver a powerful solution for the needs of real-time energy management. The systems not only provide the ability to monitor hundreds or thousands of collection points in real-time, but more importantly, to automatically and intelligently control a site’s cooling capacity to optimize efficiency, reduce costs, and provide the security of an environment where risk can be managed.

Federspiel Controls offers a line of energy management systems designed to meet the needs of data centers and telecommunications facilities:

- SLA Sentry™ – Real-time monitoring of thermal data at up to thousands of collection points, with graphical display and reports that provide a valuable tool for informed decision making.
- Uptime Advisor™ – An advanced artificial intelligence system provides consultative assistance to determine proper CRAC/CRAH deployment, facilitate what-if experimentation with cooling remediation techniques, and maintenance planning.

- Real-time Energy Optimizer™ – Sophisticated dynamic control technology analyzes data in real-time to automatically and constantly manage cooling output and airflow, to ensure temperatures remain within preset limits while at the same time reducing consumption by up to 50% of cooling energy.

Federspiel Controls energy management systems for data centers and buildings provide dynamic control using sophisticated AI-based technology that transforms cooling into a managed resource – delivering increased uptime and resilience while simultaneously reducing cooling energy costs by as much as 50%. A wireless mesh network of environmental sensors collects data in real-time, combines with integrated BACnet support to deliver real-time control of computer room air handlers (CRAH) and building HVAC systems. Temperature and airflow are adjusted with closed-loop control, constantly responding in real time to optimize a facility's environmental parameters.

### **About Akamai**

Akamai provides market-leading, cloud-based services for optimizing Web and mobile content and applications, online HD video, and secure e-commerce. Combining highly-distributed, energy-efficient computing with intelligent software, Akamai's global platform is transforming the cloud into a more viable place to inform, entertain, advertise, transact and collaborate. To learn how the world's leading enterprises are optimizing their business in the cloud, please visit [www.akamai.com](http://www.akamai.com) and follow @Akamai on Twitter.

### **About Federspiel Controls**

Federspiel Controls ([www.federspielcontrols.com](http://www.federspielcontrols.com)) is the leader in dynamic energy management systems for data centers, telecommunications facilities and large, commercial buildings. Since its start in 2004, the company has pioneered the application of advanced, artificial intelligence technology to the real-time demands of energy usage, delivering significant reductions in operating costs and increased reliability. Federspiel Controls is a privately held firm located in the technology corridor of San Francisco's East Bay and is committed to green energy solutions that make for a more sustainable planet.

### **Media Contacts**

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