

# **Federspiel Controls Named Finalist for 2010 Green Enterprise IT Award**

## **Collaboration with California Franchise Tax Board Reduces Energy Consumption by 15%**

El Cerrito, California (April 15, 2010) – [Federspiel Controls](#) today announced that it has been named a Finalist in this year’s annual [Green Enterprise IT \(GEIT\) Awards](#) by the Uptime Institute. The GEIT Awards showcase organizations that are pioneering energy-efficiency improvements in their IT and data center operations, or that provide technology that can significantly reduce energy consumption. Awards will be presented at the fifth annual [Uptime Institute Symposium](#), May 17-19 in New York, NY.

“The Institute grants these Awards to projects, ideas and products submitted by organizations from around the world. This year we received a record number of entries, which is in line with the increased prioritization companies place on greener data centers and IT in general,” stated Andy Lawrence, Program Director of the Uptime Institute Symposium and Research Director of Eco-Efficient IT at The 451 Group.

“The panel of expert judges looked beyond power-consumption savings and considered capacity planning together with the availability of the data center against the applicants’ suggested Tier classification in order to determine the shortlist,” said Lex Coors, Head Judge of the Awards.

Federspiel Controls has been named one of only two Finalists in the category of Facilities Innovation, based on its installation of enterprise energy management systems in the California Franchise Tax Board’s (FTB) 10,000 square foot data center in Sacramento, California, which provides dynamic control of air temperature and cooling capacity, saving the center over \$30,000 per year. After measuring the energy-saving effect of a set of best-practice measures, including containment curtains, variable frequency drives and floor tile tuning, the FTB found that Federspiel Controls’ dynamic cooling control yielded the greatest energy savings of all.

The installation of Federspiel Controls’ technology eliminated the need for over 339,000 kilowatt hours per year, or more than 15% of the center’s annual energy consumption. Moreover, these energy reductions eliminate about 300 tons of carbon dioxide greenhouse gas emissions annually. It achieved these results by intelligently throttling

the output of the computer room air handler (CRAH) units, reducing operating time while ensuring that inlet air temperatures were within ASHRAE recommendations.<sup>1</sup>

“Federspiel Controls is strongly committed to green energy solutions that not only contribute to a more sustainable planet, but deliver real-world savings to our customers. We are delighted to have been named a Finalist by The Uptime Institute, an important voice leading the debate on data center energy efficiency.” said Mark Housley, CEO of Federspiel Controls. “Federspiel Controls is proud to have collaborated with the California Franchise Tax Board in achieving the goals which have resulted in this prestigious recognition.”

### **About Federspiel Enterprise 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 Control’s enterprise energy management systems include:

- AI Engine – State-of-the-art artificial intelligence is used to automatically manage the thermal behavior of a site, adjusting temperature and airflow in closed-loop control to respond to real-time variations.
- Dynamic, closed-loop feedback – Integrated BACnet and Modbus support provides real-time control of computer room air handlers (CRAH) and building HVAC systems.
- Simulation and modeling – Advanced tools allow “what-if” configurations to be explored, enabling risk to be better managed by providing insight into potential capacity issues.
- Web-based user interface – An integrated web server allows the system to be easily managed using a standard web browser.
- Architectural views – Facility layouts are automatically imported, providing a graphical overview of loads and cooling behavior in real time.
- Remote sensors – Miniature thermal sensors can be quickly deployed throughout a facility, allowing inlet temperatures to be precisely measured.

- Wireless mesh network –Dust Networks® wireless technology connects all of the sensing nodes in a seamless, real-time network that is dynamically configured, without the need for laying costly cables or building retrofits.

## **About Federspiel Controls**

Federspiel Controls ([www.federspielcontrols.com](http://www.federspielcontrols.com)) is the leader in closed-loop enterprise energy management systems for data centers 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 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.

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<sup>1</sup> Additional information on Federspiel Control's joint project with the California Franchise Tax Board's data center is available at [hightech.lbl.gov/demo-ftb-wireless.html](http://hightech.lbl.gov/demo-ftb-wireless.html)