

# **Federspiel Controls Delivers Dramatic Energy Savings to Data Centers**

## **Energy Usage at California Franchise Tax Board Reduced by 15%**

El Cerrito, California (February 16, 2010) – Federspiel Controls, Inc. today announced the results of an ongoing energy-saving collaboration at the California Franchise Tax Board (FTB), a project that has reduced power costs by more than 15%. Federspiel Controls installed enterprise energy management systems in the FTB's 10,000 square foot data center in Sacramento, California, providing dynamic control of air temperature and cooling capacity, ultimately saving the center over \$30,000 per year.

“Federspiel Controls delivered energy savings that far exceeded our expectations, while keeping us in the driver seat as their system provided the ability to more effectively manage our cooling environment,” said Jim Durborough, Senior Information Systems Analyst at the California Franchise Tax Board. “We realized a rapid payback on this installation, while at the same time achieving more efficient cooling, providing capacity for future IT expansion without additional expenditures.”

After measuring the energy-saving effect of a set of best-practice measures, including containment curtains, variable frequency drives and floor tile tuning, the Franchise Tax Board 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 collaborated with the California Energy Commission and Lawrence Berkeley National Labs in this program, which resulted in the Franchise Tax Board's Data Automation Software and Hardware System Project being recognized with “The Green IT Award” by the Center for Digital Government, which annually salutes IT professionals and projects in California state and local government organizations and educational institutions with their Best of California Award.<sup>2</sup>

“Federspiel Controls’ enterprise energy management systems apply advanced artificial intelligence technology to deliver significant energy savings and reliability improvements,” said Mark Housley, CEO of Federspiel Controls. “We are proud to have collaborated with the California Franchise Tax Board on this important project and excited that our joint work has received the Best of California Award.”

### **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<sup>®</sup> 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)

<sup>2</sup> A complete list of the Center for Digital Government's 2009 Best of California awards can be found at [www.centerdigitalgov.com/survey/2581](http://www.centerdigitalgov.com/survey/2581)