



## Emerson's Global Data Center In St. Louis — Fact Sheet

### Where:

Emerson's global headquarters campus in St. Louis

### Size:

35,000 square feet

### Investment:

\$50 million, including the facility and IT equipment

### Opening:

July 2009; applications go live in August 2009

### Energy-Efficiency Attributes

- The Emerson St. Louis data center will be **31 percent more energy efficient** than traditional data centers.
- A **7,800-square-foot rooftop solar array** containing more than 550 solar panels is the largest in Missouri and is capable of generating **100 kW of power**.
- Emerson anticipates achieving **LEED Gold** certification from the U.S. Green Building Council.
- The latest energy-efficiency technologies and precision cooling products from **Emerson Network Power** – as well as the implementation of its **Energy Logic** strategies – are helping the data center achieve increased efficiency.



### Other Key Facts

- The opening of the St. Louis data center is an integral part of **Emerson's global consolidation of more than 100 data centers worldwide to just four**. The facilities in St. Louis and Marshalltown, Iowa, are completed. Plans are under way for data centers in Europe and Asia.
- Approximately **80 percent of the waste generated during construction has been diverted from landfills**.
- Emerson's innovative approach to the design of this data center enabled it to minimize excess material use. For instance, by locating heat-exchange units on the roof rather than on the property adjacent to the data center, Emerson **saved more than 2.5 miles of copper piping** and created a more scalable cooling infrastructure.
- Emerson anticipates the data center will have **99.982 percent uptime** – with an average of only 1.6 hours per year of unplanned downtime.
- The data center will ultimately house **5,000 servers on 12,000 square feet of raised floor**.
- The center was designed to cope with a variety of natural and man-made disaster scenarios, including earthquakes, telecom fiber cuts, flooding, tornados, and fires.
  - The new data center is designed to **withstand up to an F3 tornado or an earthquake up to 8.0 on the Richter scale**.
  - Glass used on the front of the building is rated to **withstand hurricane-force winds**.

### Key Design Partners

- The design and construction of the data center required an **estimated 150 workers** and the expertise of these design and construction partners:
  - **Architect:** Fox Architects
  - **Construction:** Musick Construction
  - **Consulting Engineers:** Clive Samuels & Associates
  - **Technology:** Technology Site Planners

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