

## FOR IMMEDIATE RELEASE

### CONTACT:

Tanya Pantone  
312-567-6930  
[tpantone@iit.edu](mailto:tpantone@iit.edu)

Please contact Mohammad Shahidehpour 312-567-5737

### Perfect Power at IIT Celebrates Completion of Phase One of Five Year Project

**Chicago, February 12, 2010** — Illinois Institute of Technology (IIT), Galvin Electricity Initiative, S&C Electric Company, and Intelligent Power Solutions, LLC are pleased to announce that the first phase of Perfect Power at IIT has recently been completed. The system consists of smart microgrids featuring a High-Reliability Distribution System (HRDS) loop design and redundant electricity. It will allow IIT to eliminate costly outages, minimize power disturbances, moderate an ever-growing demand, and curb greenhouse gas emissions.

Part of a five year project, the completion of phase one means that the first high reliability distribution loop, serving Hermann Hall, Alumni Hall, Perlstein Hall, Wishnick Hall and Siegel Hall on IIT Main Campus is complete, as is the automation of the university's north substation. The buildings included in the first phase now have automatic fault detection and distribution information that will allow for greater understanding of electricity usage. The automation of the south substation, and the installation of the high reliability distribution loops that serve other campus buildings, will be completed in the next four years of the project.

The Nation's first Perfect Power System, Perfect Power at IIT, is an example of how government, utilities, businesses and municipalities can collaborate in the development and implementation of advanced power systems that are required to meet rising 21<sup>st</sup> century power demands. The project, developed by Illinois Institute of Technology (IIT) is the result of an uncommon partnership among the U.S. Department of Energy (DOE), local utility Exelon/ComEd, the entrepreneurial electricity distribution developer Intelligent Power Solutions, the Chicago-based global provider of electric power systems, S&C Electric Company, and the Galvin Electricity Initiative.

The Perfect Power System is based on a smart microgrid — a small, local, modernized version of the electricity grid that carries bulk power across the country. These microgrids focus on rapidly bringing the economic and environmental benefits of modern grid technology to consumers. They engage entrepreneurial innovators and investors to install the smart digital technology that allows the instantaneous, two-way flow of electricity and real-time pricing and demand information between utilities and consumers. This is in stark contrast to today's antiquated, electromechanical-controlled bulk power grids that effectively hold consumers prisoner behind an iron curtain electricity meter.

Projections indicate that the Perfect Power model at IIT will pay for itself within five years after it is completed. For IIT, the Perfect Power System will generate significant savings — at least \$10 million over 10 years. Following the short payback period, the university will make money from Perfect Power through cheaper power costs, such as grid infrastructure improvements, allowing them to purchase electricity based on real-time prices rather than the traditional contracted average. IIT will also be able to sell electricity back

to local energy markets and to employ more efficient energy conservation efforts by integrating local power generation from clean sources, like solar.

To view a comprehensive report showcasing the design and benefits of Perfect Power, visit [http://www.iit.edu/perfect\\_power](http://www.iit.edu/perfect_power).

### **Illinois Institute of Technology**

Founded in 1890, IIT is a Ph.D.-granting university with more than 7,700 students in engineering, sciences, architecture, psychology, design, humanities, business and law. IIT's interprofessional, technology-focused curriculum is designed to advance knowledge through research and scholarship, to cultivate invention improving the human condition, and to prepare students from throughout the world for a life of professional achievement, service to society, and individual fulfillment. Visit [www.iit.edu](http://www.iit.edu).

### **S&C Electric Company**

is a global provider of equipment and services for electric power systems. Founded in 1911, the Chicago-based company designs and manufactures switching and protection products for electric power transmission and distribution. S&C's products help deliver electric power efficiently and reliably. Some are used to switch circuits. Others minimize damage to equipment in the event of a fault or reduce the area of an outage by automatically rerouting power flow. And S&C's sophisticated power-quality products can deliver uninterrupted power for an entire facility, for crucial process industries. Visit <http://www.sandc.com>.

### **Galvin Electricity Initiative**

The Galvin Electricity Initiative, launched by former Motorola CEO Robert W. Galvin, is leading a campaign to transform the Nation's obsolete electric power system into one that can truly meet consumers' needs in this new century. Galvin's vision — a Perfect Power System that cannot fail the end-user — includes a major technological update to the electricity grid infrastructure as well as the development of smart microgrids around the country to benefit consumers and suppliers alike. See how Galvin is turning this vision into a reality at [www.galvinpower.org](http://www.galvinpower.org).

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