

Les nouvelles solutions "Connected Grid" de Cisco apportent intelligence, résilience et sécurité au réseau électrique intelligent

- Cisco lance deux nouvelles solutions venant renforcer son portfolio « [Connected Grid](#) ».
- Il s'agit d'un ensemble de solutions de communication hautement sécurisées de bout-en-bout dédié au Smart Grid, et destiné aussi bien aux usines de production, aux entreprises qu'aux particuliers pour leurs habitations.
- Le routeur [Cisco 2000 Series Connected Grid Router](#) (CGR 2010) et le commutateur [Cisco 2500 Series Connected Grid Switch](#) (CGR 2520) constituent une infrastructure de communication sécurisée qui permet de capturer et d'analyser l'information circulant dans de multiples appareils électroniques intelligents pratiquement en temps-réel.

Cisco 'Connected Grid' Solutions Help Bring Intelligence, Resiliency and Security to Smart Grid

First Purpose-Built Products Are Key Components in Cisco's End-to-End Smart Grid Strategy

SAN JOSE, Cali – EMBARGOED - May 25, 2010 – Cisco today announced the first in its new [Connected Grid](#) portfolio of smart grid communications solutions that will help utilities more reliably and efficiently deliver electric power from generation facilities all the way to businesses and homes, resulting in better energy management as well as economic and environmental benefits. The purpose-built, ruggedized substation routers and switches form a resilient, manageable and highly secure network solution to integrate Internet Protocol-based communications with the power grid for intelligent grid monitoring and control. These substation communications technologies build on the existing Cisco® [Smart Grid](#) offering and represent the latest in its efforts to deliver end-to-end solutions that help utility customers address grid reliability, industry compliance and operational expenses.

Facts / Highlights:

- The [Cisco 2000 Series Connected Grid Router](#) (CGR 2010) and [Cisco 2500 Series Connected Grid Switch](#) (CGR 2520) are purpose-built for the most demanding utility substation environments.
- They are designed specifically for the Smart Grid communications infrastructure and are the first in Cisco's new [Connected Grid portfolio](#), a family of products that will deliver highly secure, end-to-end and standards-based communications solutions for the smart grid from generation facilities to businesses and homes.

- Together, the Cisco CGR 2010 and Cisco CGS 2520 form a secure communications infrastructure to capture and analyze information in near-real-time from multiple intelligent electronic devices in the substation. This helps utility operators better manage and maintain power transmission and distribution equipment, as well as increase the reliability of power delivery by quickly identifying, isolating, diagnosing and, at times, automatically repairing faults.
- The Cisco solution also extends network-based security and management policies to substations, supporting remote engineering access and proactive maintenance programs.
- The products are based on Cisco IOS® Software, an operating system that delivers high reliability and resiliency as well as multiple network services including support for supervisory control and data acquisition, or SCADA, protocols.
 - Cisco IOS Software consolidates network security, quality of service and network segmentation on a common communications platform, delivering mission-critical reliability and reducing operational expenses.
- Cisco's Connected Grid products represent the latest in Cisco's energy management offerings, which include Cisco [EnergyWise](#) and the [Network Building Mediator](#).

Security and Industry Compliance

- The Cisco 2000 Series Connected Grid Routers and Cisco 2500 Series Connected Grid Switches offer a comprehensive cyber security solution.
- The products include a rich set of network security features to help utilities comply with North American Electric Reliability Corp. / Critical Infrastructure Protection (NERC/CIP) standards. Key security features include the Cisco Intrusion Prevention System, Cisco Network Access Control, Multiprotocol Label Switching virtual private networks, firewalls, user/device identity and access control capability, all of which provide unparalleled protection and reliability to the grid.
- Cisco also supports a complete portfolio of IP-based physical security solutions, such as physical access control to premises and video surveillance, ideal for NERC/CIP compliance.
- The products meet or exceed IEEE 1613 and IEC61850-3 standards for utility substation environments, including the ability to withstand a broad range of temperatures, as well as extended protection against electrical surges and electromagnetic interference (EMI).

Smart Grid Impact

- The expansion of a global “smart grid” will bring substantial environmental and economic benefits. According to the [Smart 2020 Report](#) by the Climate Group, implementation of smart grid technologies could globally reduce CO₂e emissions by 2.03

gigatons. A recent [report](#) by Pacific Northwest National Laboratory predicts a 12 percent reduction in global energy and CO2 emissions if smart grid technologies are deployed.

- The economic impact of a smart grid is estimated to be significant as well. [The GridWise Alliance](#), of which Cisco is a member, estimates that smart grid incentives and investments as encouraged by the American Recovery and Reinvestment Act of 2009 will generate approximately 280,000 direct jobs across various categories.

Supporting Quotes:

Laura Ipsen, senior vice president and general manager, Cisco Smart Grid

“Cisco’s vision is to help utilities transform energy production, distribution and consumption using an end-to-end, IP communications infrastructure to more sustainably meet the world’s future energy needs. Our Connected Grid portfolio represents the foundation of this innovative energy platform that will improve the electrical grid’s efficiency and create exciting opportunities for utilities as well as new consumer energy services. With our substation automation solutions at the core, we look forward to helping utilities achieve their business and operational goals.”

Henning Probst, chief executive officer, E.ON Westfalen Weser

“EON Westfalen Weser has begun testing Cisco’s new substation automation products and believes that they could be a useful component in our Smart Grid architecture. We look forward to further working with Cisco to implement innovative solutions that help us deliver energy to our customers in a more secure, reliable and environmentally-friendly manner.”

Mahvash Yazdi, senior vice president for information technology and business integration and CIO, Southern California Edison

“Building out the Smart Grid will require innovation, partnership and investment. We are pleased to be working with companies like Cisco to more efficiently and reliably deliver energy to our customers. Solutions like those found in Cisco's Connected Grid portfolio will be an important part of the ecosystem needed to bring the Smart Grid and all of its benefits from vision to reality.”

Molly Webb, director of strategic engagement, The Climate Group

“Applying ICT solutions to the generation, delivery and consumption of energy could have economic and environmental benefits for decades to come. Implementation of Smart Grid

solutions such as transmission and distribution automation, combined with the behavioral changes they would enable, has the potential to significantly reduce CO2 emissions on a global scale.”

Supporting Resources:

- Demonstrations of Cisco’s Connected Grid solutions can be seen this week at [Connectivity Week](#) (Booth #205) in Santa Clara, Calif. and at [UTC Telecom 2010](#) (Booth # 549) in Indianapolis, IN.
- For more information on Cisco’s end-to-end Smart Grid strategy:

<http://www.cisco.com/go/smartgrid>

- For a video of Laura Ipsen, Cisco’s General Manager, Smart Grid:

<http://www.youtube.com/watch?v=F3zCxOu-wN4>

- Please visit the Cisco Ecolibrium blog:

<http://blogs.cisco.com/green>

- For information on Cisco’s Connected Energy Management solutions:

<http://www.cisco.com/web/strategy/energy/index.html>

Tags / Keywords:

Cisco, Smart Grid, Sustainability, Environment, Connected Energy Management, Substation Automation, Utilities

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