



Press release

Smart Grids Europe 2010
PTA – Passenger Terminal Amsterdam
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Booth 319

Nexans cable solutions and services help the deployment of smarter power grids

Amsterdam, March 29, 2010 – Nexans, global leader in cables and cabling solutions, is using its participation at Smart Grids Europe 2010, that will take place in Amsterdam from March 29 to March 31, to highlight how its state-of-the-art cable solutions and services can help the deployment of smarter power grids. During the event, Nexans is launching a brand new Smart Grid White Paper and a commercial brochure, while visitors to the Nexans booth will be able to see examples of three key technologies that it considers vital to the smart grid concept: CAT-1™ real time dynamic monitoring of OHL ratings; Low sag, high capacity OHL Aluminium Conductors with Composite (carbon fibre) Core; MV superconducting fault current limiter.

Smart Grid white paper

Nexans has written its new white paper 'Deploying a smarter energy network through cable solutions and services' to provide a contextual overview of 'smart' and 'smarter grids'. It outlines the main challenges and expectations of smart grids and explains Nexans' capacity to provide practical answers. The white paper also deals with the necessity of grid evolution rather than revolution.

Smart Grid commercial brochure

The new Smart Grid commercial brochure details how Nexans can help operators to evolve their networks upward through five technological stages: products, solutions and services – advanced cables and accessories; network simulation – showing how improvements can reduce losses and remove bottlenecks; sensors – monitoring current load and congestion so that load can be safely increased; communications – real-time command of substations and/or smart metering; new technologies – fault current limiters, DC systems and superconductors.

CAT-1™ real-time monitoring for overhead lines

On existing OHLs (overhead lines) for upgrades or for new installations, the CAT-1 Transmission Line Monitoring System provides dynamic and real-time monitoring of the actual capabilities of the OHL by measuring mechanical tension at the dead-ends

of the conductor and local weather parameters, and feeding the information on additional capacity and time until maximum sag is reached back to the Network Control Centre for increased efficiency, safety and reliability.

High capacity aluminium conductor composite core for OHL

The aluminium conductor composite core is an innovative, lighter conductor with a core composed of carbon fibers embedded in an epoxy matrix and outer layers of annealed aluminum or aluminum alloy. This conductor has high tensile strength and low linear expansion with extremely low sag and reduced sensitivity to corrosion. Its high breaking load allows longer spans between pylons. It is particularly suited for river crossing and to decrease the number of towers on long transmission lines. In case of line overloading (contingency), its materials are designed to work at high temperatures still with low sags for increased safety and reliability.

MV superconducting fault current limiter

For Vattenfall in Germany, Nexans recently installed the world's first Superconducting Fault Current Limiter (SFCL) in a power plant to provide short-circuit protection for the internal MV power supply (12 kV). This system can reduce a 63 kA short-circuit current to 30 kA instantaneously and down to 7 kA in less than 10 milliseconds, therefore providing unparalleled protection.

About Nexans

With energy as the basis of its development, Nexans, the worldwide leader in the cable industry, offers an extensive range of cables and cabling systems. The Group is a global player in the infrastructure, industry, building and Local Area Network markets. Nexans addresses a series of market segments: from energy, transport and telecom networks to shipbuilding, oil and gas, nuclear power, automotives, electronics, aeronautics, material handling and automation. With an industrial presence in 39 countries and commercial activities worldwide, Nexans employs 22,700 people and had sales in 2009 of 5 billion euros. Nexans is listed on NYSE Euronext Paris, compartment A. For more information, please consult www.nexans.com

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