



PRESS RELEASE

3M to introduce its Smart Grid solutions at CIRED 2013 Exhibition and Conference in Stockholm

3M Sensored Cable Accessories provide fast and efficient way to measure medium voltage distribution grid parameters

The multi-technology global company 3M is introducing new smart grid solutions: Innovative medium voltage cable accessories with integrated high accuracy sensors are the highlight of the 3M exhibit at CIRED 2013, to be held in Stockholm from June 10 -13, 2013. The conference and exhibition are expected to attract 1200 professionals and will focus on Distribution Networks products and solutions. The retrofit design of 3M Sensored Cable Accessories allow a cost-effective, simple and fast upgrade of existing medium voltage network stations and provide highly accurate data.

Smart grid represents the technological revolution of the existing electrical grid. The 3MTM Smart Grid World is more than just the network, and represents a sustainable intelligent distribution and use of energy. „We offer a broad portfolio of innovative and efficient solutions, which will enable an optimized balance between the achievement of the realization of our European energy targets (20-20-20) and the realization of cost efficient grid intelligence, building efficiency and electrification of vehicles“, says Paul Wienen, Business Development Manager Smart Grid and related Markets, Europe, for the strategic alignment of the smart grid department. In Stockholm, 3M will inform and focus on their

portfolio in the electrical distribution segment. A highlight is the new fully innovative 3M™ Sensored Cable Accessories, which will be presented to the public for the first time in Stockholm. Designed for medium voltage network upgrade, the 3M solution offers the real possibility to control and improve energy power quality service. As part of the electrical network transition, more and more energy will be fed from renewable decentralized energy production. 3M™ Sensored Cable Accessories respond to the need of the efficient integration of the renewable energy generation.

The retro-fit 3M™ Sensored Cable Accessories design allows for easy and fast upgrading of medium voltage network infrastructure with highly accurate current and voltage measurement. It is characterized by very high accuracy sensors for current and voltage integrated within medium voltage accessory design. Installation is simple and can be done quickly and efficiently by any high voltage electrician - thanks to the plug and play concept. Intervention on the switchgear is not necessary. The investment costs are therefore relatively low. Advantages for the user are the passive sensor technology, which requires no power supply and the factory calibration, which ensures that the sensor yields correct values immediately after installation.

The installation of the product highlights will be demonstrated during CIRED conference breaks with live presentations at the 3M booth. Several pilot installations have been conducted with the main Italian utility company, ENEL, confirming sensors performance. Together ENEL and 3M will also introduce the topic within the scope of the lecture "The smart termination: an innovative component to enable smart grids development" in Session 1 to network components.

Other highlight products at the 3M booth are:

- **ACCR conductor (Aluminum Conductor Composite Reinforced)** designed as a drop-in replacement on existing

transmission power lines. ACCR conductor carries the same cross-section and lower weight and delivers twice as much current as conventional conductors.

- **Novec** offers a variety of options, for example, as environmentally friendly fire extinguishing, a high-quality coating on electronic materials or as a prospective SF6 replacement in new medium-voltage switchgears.
- **Wind Blade Protection Coating W 4600** – This two-component polyurethane coating protects wind turbine rotor blades against damage caused by sand, rain and other environmental influences.
- **sIMS** is a smart Infrastructure Management System which provides web enabled, centrally supervised access control and monitoring for critical telecom and energy grid assets in outdoor locations. It continues to function even when an internet connection is unavailable.

Images:



3M Sensored Cable Accessories – Sensored Plug-in



3M Sensored Cable Accessories – Sensored Termination

Neuss, June 2013

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About 3M

3M captures the spark of new ideas and transforms them into thousands of ingenious products. Our culture of creative collaboration inspires a never-ending stream of powerful technologies that make life better. 3M is the innovation company that never stops inventing. With \$30 billion in sales, 3M employs about 88,000 people worldwide and has operations in more than 70 countries. For more information, visit www.3M.com or follow @3MNews on Twitter. For a record-setting ninth consecutive year, 3M received the ENERGY STAR Sustained Excellence Award from the U.S. Environmental Protection Agency and the U.S. Department of Energy for its comprehensive worldwide energy conservation efforts. For more information, visit www.3M.com or follow [@3MNews](https://twitter.com/3MNews) on Twitter.

More information about 3M and Smart Grid are available on:

www.3m.com/EU/SmartGrid

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