

Nexans and Epsilon Composite achieve world-first field validation of CORECHECK technology on TenneT's 380 kV transmission network

PRESS RELEASE

- **Nexans and Epsilon Composite successfully validate CORECHECK monitoring technology on TenneT's 380 kV transmission network in the Netherlands**
- **Industry-first deployment enables utilities to verify the integrity of composite-core conductors after installation, reducing project risk and improving quality assurance**
- **Milestone strengthens Nexans' position as a trusted partner delivering innovative solutions for Europe's grid modernisation and energy transition**

Paris, July 9, 2026 – Nexans, a global leader in sustainable electrification, has successfully completed the world's first field validation of [CORECHECK](#), an innovative composite-core monitoring technology developed and integrated in collaboration with Epsilon Composite. Successfully deployed on a 380 kV transmission line operated by Dutch transmission system operator TenneT, the technology enables utilities to verify the structural integrity of composite-core overhead conductors throughout transport, installation and commissioning.

The milestone supports TenneT's long-term programme to increase transmission capacity while accelerating the energy transition. As part of its 2045 strategy, TenneT is deploying [High Temperature Low Sag \(HTLS\) conductors](#), including Nexans' High Voltage Composite Reinforced Conductor (HVCRC), to upgrade existing overhead lines and deliver greater network capacity without the need for significant new infrastructure.

As electricity grids across Europe come under increasing pressure from renewable generation, electrification and growing demand, utilities are increasingly turning to advanced composite-core conductors to maximise transmission capacity. Until now, however, there has been no practical and reliable field method to verify that composite cores have remained undamaged throughout transportation, handling and installation.

CORECHECK detects internal defects within the composite core using a breakdown voltage test that takes advantage of the insulating properties of the conductor's glass fibre outer layer. The test is designed for use in the field, requires minimal operator training and can typically be completed by a single technician in approximately five minutes per conductor without disrupting installation schedules.

*"Utilities are looking for ways to increase network capacity quickly while maintaining the highest levels of reliability," said **Stéphane Morice, Nexans OHL Sales Director**. "By integrating CORECHECK into our HVCRC solution, we are providing customers with a practical way to verify conductor integrity throughout the installation process. This gives utilities and contractors greater confidence that critical transmission infrastructure has been installed correctly and is ready to perform throughout its operational lifetime."*

Alexandre Lull, Managing Director of Epsilon Composite commented: *"Epsilon Composite - a long-standing Nexans partner in advanced overhead conductors - is proud to have successfully developed CORECHECK, an innovative system for monitoring composite core integrity, supporting safer and faster grid modernization. This first successful in-field deployment on TenneT's grid definitely marks a key milestone for our companies."*

During the TenneT project, conductor integrity was verified at every key stage of the project lifecycle, including after manufacture of the composite core by Epsilon Composite, following conductor stranding by Nexans, upon delivery to site and after installation by the engineering contractor. Testing was successfully completed under challenging field conditions, including strong winds, dense fog, heavy rain and sub-zero temperatures, while also demonstrating compatibility with complex transmission environments containing nearby energised circuits.

Negar Iswini, Overhead line Engineer at TenneT, added: *"The CORECHECK procedure takes approximately five to ten minutes per conductor, so around 15 minutes for each phase. We remained on schedule because the test integrates smoothly into the installation process while providing verification of conductor integrity."*

Beyond providing a simple pass or fail assessment, CORECHECK delivers full traceability throughout the project by recording operator identification, conductor batch information and measurement results for every test performed. This creates a comprehensive quality record for utilities and contractors while supporting greater accountability across complex infrastructure projects.

The successful deployment further strengthens Nexans' portfolio of overhead line (OHL) solutions designed to support Europe's energy transition. By combining advanced conductor technologies with innovative quality assurance tools, Nexans helps utilities modernise transmission networks more efficiently while reducing project risk and increasing confidence in long-term network performance.

A technical paper detailing the project and field validation results will be presented at CIGRE Paris 2026, building on the technology principles first introduced at the 2024 conference.

An installation CORECHECK feedback video is available [here](#) and to learn more about Nexans' OHL solutions, visit <https://www.nexans.be/ohl>.

About Nexans

Nexans is the global pure player in sustainable electrification, building the essential systems that power the world's transition to a connected, resilient, and low-carbon future. From offshore and onshore renewable energies to smart cities and homes, Nexans designs and delivers advanced cable solutions, accessories and services that electrify progress safely, efficiently, and sustainably.

With over 140 years of history, through three core businesses: PWR Transmission, PWR Grid, and PWR Connect, Nexans blends deep industry expertise with cutting-edge innovation to accelerate the energy transition, and better meet its customers' needs. Its unique E3 model, focused on Environment, Economy and Engagement, drives every action, aligning performance with purpose.

Nexans operates in 41 countries with 25,700 people and generated €6.1 billion in standard sales in 2025. Nexans is committed to Net-Zero emissions by 2050 aligned with the Science Based Targets initiative (SBTi) and expanding energy access through the Fondation Nexans.

Nexans is listed on Euronext Paris, Compartment A.
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