Motorola Delivers TETRA Solution With Innovative Fuel Cell Backup Power To Denmark’s SINE Network

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Motorola, Inc. has announced that forty of its TETRA Base Stations, such as the model pictured, are now live across Denmark’s SINE public safety network.

Forty of Motorola’s TETRA Base Stations

Robust, environmentally-friendly TETRA solution backed up by fuel cell technology

Motorola, Inc. today announced that a total of forty Motorola TETRA Base Stations with fuel cell back-up are now live across Denmark’s SINE public safety network, with approximately 50 planned and commissioned for installation throughout the remainder of the year.

The environmentally friendly, fuel cell-based back-up solution, which was developed with Dantherm Power, was installed to provide mission-critical operations with continuous secure communication across the nationwide SINE network in Denmark. It is the first network of its kind in the world.
"The use of our hydrogen fuel cell technology in mission-critical environments provides public safety networks across the country with uninterrupted network access." says Per Albæk, CEO for Dantherm Power. "Our partnership with Motorola is a world's first and we hope to continue developing innovative technology that helps professionals do their jobs more effectively."

Government guidelines dictate that batteries or conventional generator solutions have to be provided as a backup for main power at critical locations or if the main power has regular outages. However, conventional diesel or petrol-based generators have a number of disadvantages, including carbon emissions and noise. Fuel cell technology offers a no carbon, low acoustic alternative to match the needs for TETRA base stations in challenging locations. They are proven in critical power back-up situations and can run for extended periods limited only by the supply of the hydrogen, and the only emission is water.
"Loss of power should never be an issue to professionals working in mission-critical or emergency environments, and Motorola has continued to invest in environmentally-friendly backup power systems for TETRA" said Jens Kristiansen, vice president and general manager, TETRA Global Products and Solutions, Motorola. "We are delighted that the SINE rollout has been such a success and we look forward to rolling out further hydrogen powered fuel cells in critical locations across Northern Europe."

Where the fuel cell power system is being used at a TETRA base station in an emergency, and no main power is available, excess back-up power can be used to recharge TETRA radios, eliminating the need for the user to return to the base to recharge. Motorola has worked to ensure that as its TETRA technology is extended to more and more industries and locations, its solutions have remained cost-effective and environmentally friendly.