



Nokian Capacitors won its biggest ever contract for ten capacitor banks from a Dutch energy company

The government owned TenneT ordered ten 150Mvar Capacitor Banks from Nokian Capacitors. The value of the contract is the highest ever in our company's history and the project will be implemented on a turnkey basis. The contract includes the project design, equipment manufacture, delivery, assembly and testing.

Nokian Capacitors won a global bidding, in which TenneT looked for an expert and a partner to increase the transmission capability of its network by reactive power compensation. Apart from a keen price, we had the advantage of a long-term relationship with Nuon, another Dutch energy corporation. Nuon was partnering with us in the TenneT project, Nuon had the responsibility for the building of the foundation as well as assembly. Nokian Capacitors shouldered the overall responsibility for the project.

In the Netherlands, national transmission companies run 400kV and 220kV lines. Regional transmission companies, including Nuon, run 150kV lines. Reactive power generation by transmission companies is common in the Netherlands. TenneT began to generate reactive power to improve the operation of its transmission network and to reduce the cost of reactive power.

A transmission network based on modern equipment and an advanced technical solution helps reduce failures and disturbances.

The contract between TenneT and Nokian Capacitors was signed in August 2002 and the initial delivery was made in March 2003. TenneT has expressed great satisfaction with our modern technological solutions and our professional and reliable performance as a project leader.



TECHNICAL DATA

Ten capacitor banks with C-type filter tuned for 150 Hz.

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|--------------------------|---------------|---------------|
| Rated voltage | 380 kV | 220 kV |
| Rated power | 150 Mvar | 150 Mvar |
| Main capacitor bank C1 | 3.31 μ F | 9.86 μ F |
| Tuning capacitor bank C2 | 26.45 μ F | 78.92 μ F |
| Tuning reactor L | 383.0 mH | 128.4 mH |
| Damping resistor R | 900 ohm | 300 ohm |