

AXIANS TAKES ON
MODERNISATION OF BROADBAND NETWORK AS GC

High-performance fibre-optic network for the municipality of Sissach

In keeping with the motto «The fibre-optic network for everyone», sissanet, a division of Elektra Sissach with Axians as general contractor, is building a high-performance fibre-optic network for the municipality of around 6,600 inhabitants. All properties will be connected to the network via Fibre to the Home (FTTH) – a total of 1,600 buildings (BEP) and 3,800 utilisation units (OTO sockets).



«We have been able to successfully complete phase 1, the development, thanks to the excellent analysis, engineering, fibre planning and construction management of Axians. We are pleased that we can continue to count on the support of the specialists at Axians in the upcoming phases.»

Stephan Jurt, Managing Director of Elektra Sissach



Our solution

As the general contractor, Axians took on the entire FTTH project with direct point-to-point rollout, including consulting, engineering, fibre planning, construction management and documentation of the network.

The initial preparations began in 2016 with consultation of the administrative board in the decision-making process. Axians then carried out a SWOT analysis to identify the main opportunities, risks and benefits of the new fibre-optic network.

«Axians has not only provided us with a comprehensive concept, they've also assisted us in our decision-making with their expert opinion and budget calculations», said Stephan Jurt of Elektra Sissach, in reference to the excellent preparatory work.

Initial situation

The ageing coaxial network in the municipality of Sissach needed to be renovated and adapted to modern technological requirements.

In addition to the many customer benefits of a high-speed fibre-optic network, it was also important to enable automatic reading of the electricity meters. As such, it was an easy decision for Elektra Sissach to invest in the reliable, bug-proof and radiation-free fibre-optic technology.

As GC, Axians was responsible for all planning, tendering, construction management and commissioning. Thanks to precise specifications, the intensive construction planning and coordination with numerous subcontractors went smoothly and according to plan at all times. The gradual development, installation and migration to new fibre-optic products started in 2020 and is set for completion by the end of 2023. This involves successful implementation of AON, PON and RFoG technologies. At the heart of the new network is the technical room in central Sissach, which serves as a point of presence (PoP) from which everything is controlled.

The project is split into three phases across various zones. After the completion of the pilot phase in May 2021, it took just three months to connect the first customers to the fibre-optic network. Zone 2 is set for completion by August 2022, and work on the final zone will commence before the summer holidays.

As a client of Axians, Elektra Sissach benefits from efficient overall project management and smooth cooperation. And this results in a major milestone for the future of an entire municipality: The users connected to the network benefit from high-speed data transmission as well as increased data protection and stability.



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