



District heating right on time thanks to pragmatic co-operation

FACTS

Customer
TVIS

Time scale
October 2020
- October 2021

SOLUTION

Transmission line

Lunderskov-Vamdrup:
8,000 trench metres 168+168/560

Bredsten-Balle:
4,900 trench metres 139+139/500

Jelling:
7,400 trench metres 168+168/560
500 trench metres 168/315

Skibet:
3,900 trench metres 219+219/710
100 trench metres 219/315

Vejle:
3,400 trench metres 323/560

SALES RESPONSIBLE

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2021 was not the easiest year for planning and implementing large projects. But thanks to a flexible cooperation, TVIS still managed to advance 28 km further towards green economy.

When district heating has to move over long stretches in the Triangle Region, the heat transmission company TVIS is behind the project. In 2021, two new sections of transmission lines were to be installed: 20 km from Vejle to Skibet and onwards to Bredsten-Balle and Jelling and another 8 km from Lunderskov to Vamdrup. Here, TVIS chose to have isoplus deliver the preinsulated pipes and handle the installation of joints in both projects.

Complicated project within a short timeframe

The planning foresaw that the stretch west of Vejle in particular would be very demanding – with small roads, narrow curves, large height differences and many springs. But facing challenges regarding shipments in 2021 ... that was an extra hindrance that put the plan to the test.

When we managed to achieve our goal nonetheless, this was not least thanks to TVIS' responsiveness and flexibility. When components were missing and thus preventing the planned work, we managed to change plans and keep working in other locations, even though the changes would have consequences for the other suppliers – and for the traffic.

The isoplus group has more than 30 years' experience within the production of pre-insulated piping systems with low heat loss, delivered in accordance with the norms and demands of the industry. We are present in more than 30 countries around the world and have considerable expertise in meeting international as well as national standards. It is our ambition to be the fastest, most flexible and most reliable partner in the business.

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“ Apart from good quality and energy efficient pipes, isoplus also provides flexible service, which is a major advantage for a project that is affected by circumstances like the weather, unforeseen soil conditions, traffic and much else. We are happy that we can now deliver stable, environmental and cheap district heating to the new areas ”

Brian Schmidt
Project Manager, TVIS

Systematised documentation

The new transmission line was designed to withstand 120°C hot water and a pressure of 25 bar. Therefore, the project was covered by the Pressure Equipment Directive (PED) – and this means special requirements for construction, manufacture, surveillance, control and documentation.

To isoplus it meant that structural engineers were closely involved throughout the entire process. Every change and every adaptation required new strength calculations to ensure that the shipment would comply with the intensified requirements.

The PED also requires that all steel parts are accompanied by 3.1 certificates. isoplus compiled all these requirements and systematised them in order to make traceability easier for TVIS in the future.

A permanent team – on Teams

Knowhow and experience are the glue which binds large-scale projects together. isoplus combines these qualifications in project managers Lene Lødsen and Kim Nielsen as well as area manager Heino Jensen. Both attended the construction meetings to allow fast action – sometimes other technical experts required to ensure the progress of the project attended, too.

And – if anything has to be considered positive during the second year of the corona crisis – it has to be the efficiency of online meetings. Many construction meetings were held via Teams which made it easy to gather people from all over. At the same time, it saved time and transport – and it was easy to come to and to leave the meetings, so only the relevant qualifications were present.

Fully in line with the original plan, the new transmission lines were completed when the heating season 2021-22 started.

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