



# REROUTING PIPELINES TO MAKE WAY FOR NEW LIGHT RAIL TRANSIT

## KEY INFORMATION

### Customer

VEKS, Vestegnens  
Kraftvarmeselskab I/S

### Time scale

June 2019 - March 2020

## SOLUTION

District heating system

### Length, dimensions, insulation

600 m ø323-500/610-900 in serie 2

## SALES RESPONSIBLE

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Light rail transit is making its entry in the bigger cities of Denmark, and in the capital area a new light rail is scheduled to open in 2025 with 29 stations between the cities Ishøj and Lyngby. The light rail system is a comprehensive project, as a large number of pipelines will have to be rerouted to make way for the 28-kilometer light rail stretch.

VEKS is among the more than 50 pipeline owners who will have to reroute their pipelines. Due to the Danish guest principle VEKS must move pipes in their existing piping system to ensure that no operational problems will arise for the utility companies and the light rail. One of the places where VEKS will need to restructure is in the cities Glostrup and Vallensbæk, where isoplus' part of the project began in June 2019 and is expected to be completed in March 2020.

For the project, isoplus is responsible for the supply of district heating pipes and components, as well as joint and alarm installation on VEKS' affected district heating lines. The delivery consists of 600 meters of ø323-500/610-900 in series 2. To avoid having to move all existing pipes and to limit possible difficulties for the welding and joint work, two z-bends have been produced. The custom-made z-bends with a length of 5 meters are bent with induction heat from a special supplier and then wrapped and insulated by isoplus.

Also quite noteworthy for this project is the fact that it falls under the Pressure Equipment Directive (PED). District heating is normally not included in the directive, but due to higher temperature and pressure requirements than usual Danish law requires district heating pipelines to follow the directive as well. This means that the project is subject to special requirements for design, manufacturing, monitoring and control. Therefore, all steel products for this particular project, including weld bends and prestressing elements, must be delivered with 3.1 certificate from a PED-approved steel plant.

The main contractor, NCC, has chosen to run this project with LEAN. This brings with it an optimization of all processes and thus ensures NCC to be at the forefront of any challenges. The cooperation has been measured continuously through KPIs. This helps ensure that potential challenges of the project are made visible to all involved parties and acts as an extra support in the process.

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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