GF Piping Systems

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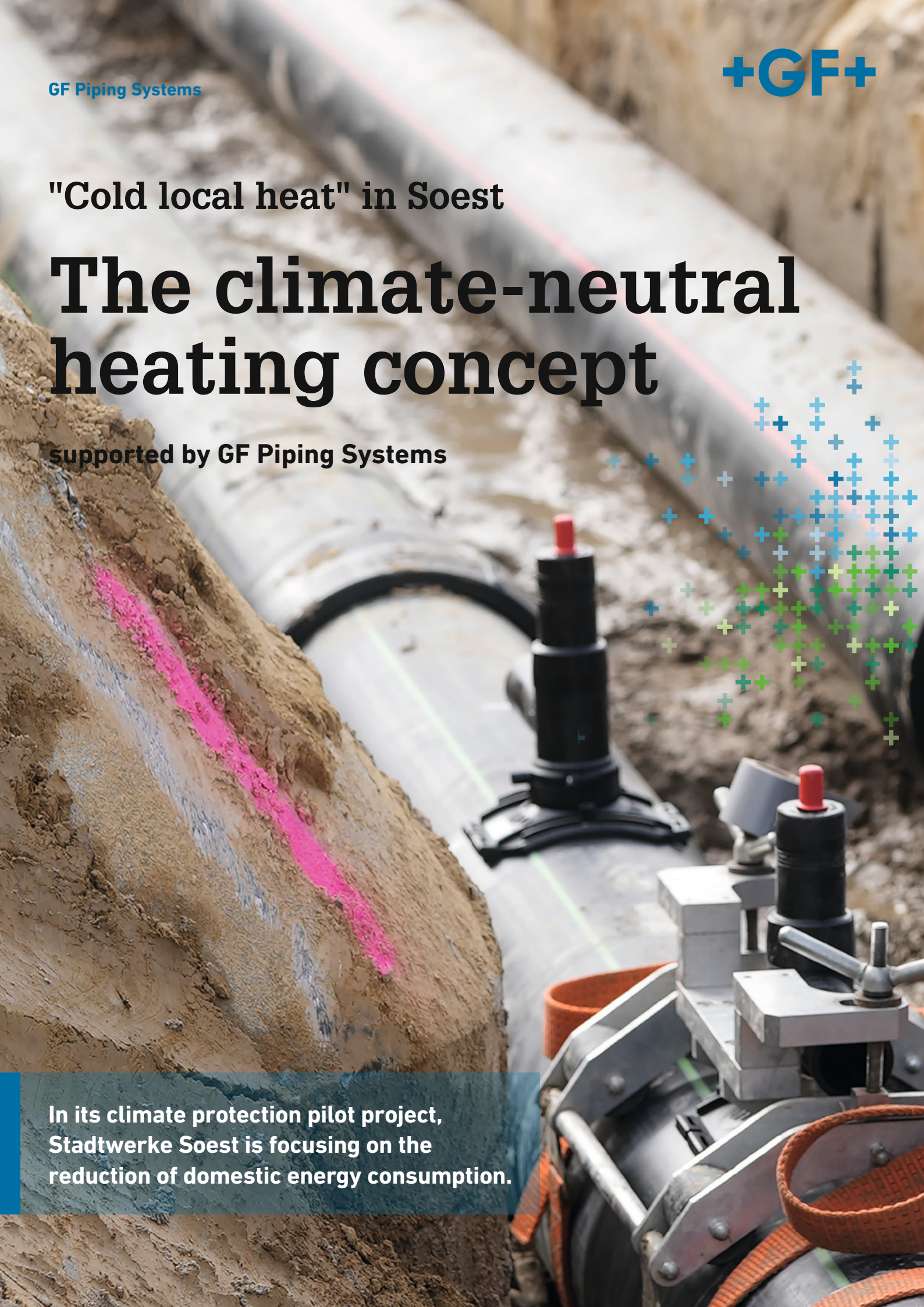
"Cold local heat" in Soest

The climate-neutral heating concept

supported by GF Piping Systems



In its climate protection pilot project, Stadtwerke Soest is focusing on the reduction of domestic energy consumption.

GF Piping Systems supports the "Cold local heat" initiative in Soest

Stadtwerke Soest

Climate change and sustainability have become deeply embedded in social consciousness. More and more people are forcing us to rethink how we treat our planet. While events often appear to be slow at national and international level, certain municipalities are taking matters into their own hands. The city of Soest in North Rhine-Westphalia, for example, is running a pilot project with the intention of supplying some 600 residential units with cold local heat. The scheme is making use of products from GF Piping Systems.

Background to the project

A glance at Germany's carbon footprint shows that private households account for the lion's share of energy consumption, heating systems and hot water to be precise. What's more, the use of fossil fuels releases large amounts of CO2. With its "Cold local heat" initiative, Stadtwerke Soest is backing a climate-neutral heating concept: below ground, the year-round constant temperature of 10°C is harnessed and transported to heating pumps in the residential units. A mixture of water and glycol, which is then routed below the ground and heated up, acts as the energy carrier.

Chosen technical solution

An extensive piping system is required to circulate the cold local heat by transporting the water/glycol mixture. Especially the numerous fittings and connectors, then, have to work safely and reliably. This is where GF Piping Systems can offer its expertise as a partner: In the "Soester Norden" building zone, ELGEF Plus electrofusion welding sockets and fittings are used to route the long polyethylene pipes. In addition, the ELGEF Plus pressure tapping valves, rotatable through 360°, make sure the numerous branch lines reach the individual dwellings. The corrosion-free and chemical resistant components from GF Piping Systems are likewise made from polyethylene, making them ideally suited for use in Soest.

Accomplished improvements

Installation is quick and easy thanks to the ELGEF Plus modular system. Moreover, the high-performance ELGEF Plus polyethylen components are stress-free and ensure long-lasting and low-maintenance operation. In GF Piping Systems, Stadtwerke Soest has found a partner that is actively shaping a green future with safe, modern and above all sustainable piping systems.

In the "Neuer Soester Norden" development area, pipes are being laid that will later transport the heat from the ground to the 600 residential units.

Among the components being used for the sustainability project are pressure tapping valves from GF Piping Systems. These valves can be rotated through 360° prior to welding.

The modular system offers stress-free components that are easily to install for safe and efficient operation.

Customer benefits

- **The ELGEF Plus modular system is designed with compatibility and reliable operation in mind.**
- **The ELGEF Plus polyethylen components are durable and practically maintenance-free.**
- **Pressure tapping valves, rotatable through 360°, add flexibility to the piping network arrangement.**
- **The system's modular structure significantly reduce storage costs.**

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