

PROTECTING HDD PIPELINE WELDING JOINTS WITH FIBERGLASS WRAPS



Gaz-System SA is a designated national natural gas transmission system operator in Poland. The company ensures safe transport of high pressure natural gas in the country and actively develops an integrated transmission system in Europe. It is therefore a strategic company for Poland's economy and energy security, and an important element within the European gas infrastructure. In their activities, they have a strong focus on caring for the environment, guided by the principles of sustainable development. To protect the pipelines Gaz-System SA reached out to CTE BV to implement a coating for the welding joints to prevent leaks and, as a consequence, economic and environmental damage.

CHALLENGE

Gaz-System SA uses HDD (horizontal directional drilling) to protect the 1000mm carbon steel pipelines. They were looking for a cost-effective solution that could strengthen and protect the welding joints. As the pipelines are treated with FBE (Fusion Bonded Epoxy) it was a challenge to find a solution that offered strong enough adhesive power.

The technicians also had trouble finding the proper material. They tried an often used method in Poland using an older type of 7mm glass fiber low-quality laminate, but that did not offer a solid, long lasting solution. Last but not least, the low outside temperature and rough surrounding environment made the task even more difficult, especially considering the limited available curing time.

REPAIR

To develop an abrasive resistant overlay, the welding joints were protected with a **Diamapro™ fiberglass composite wrap**. The length of the wrap is 700mm. By applying a 2-layer system a comprehensive protective solution was created. Thanks to the fast curing process of this material, the total installation time was under 4 hours.

The installation was done by 3 trained technicians working at the qualified contractor for CTE BV in Poland. After accessing the pipe in the difficult working surroundings, they were able to wrap the pipeline with the impressive diameter of 1000mm. The project was carried out without disruption to operations.

Gaz-System SA now has long-lasting protection of the welding joint coating with rubber shrink sleeves - a result that the customer was expecting.

REASONS TO CHOOSE CTE BV:

- Cost effective protective solution for HDD
- Fast installation time (<4 hours)
- Best quality offering

SOLUTIONS USED

- **Diamapro™**
fiberglass composite wrap



WANT TO KNOW MORE ABOUT OUR SOLUTIONS? PLEASE FEEL FREE TO CONTACT US.

+31 (0) 6 2347 6562 • contact@ctebv.eu • carbontech-composites.eu
Industrieweg 21c, 4214 KZ Vuren, The Netherlands