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Installation in difficult terrain

CO_2 emissions can be substantially reduced using natural gas instead of oil as energy source. This was the argument behind the technically demanding connection of the Erft District waste management centre (VZEK) to the supply network of the GVG Rhein-Erft via a 3,700 m long natural gas pipeline. A former, recultivated open cast lignite mine had to be crossed between the start and end point. The rubble, industrial waste as well as several pollutants in the subsoil whose presence was known about from earlier soil surveys meant that several kinds of material were expected that might have an aggressive reaction on pipes during insertion and subsequent operation. The pipe selected was therefore the egeplast SLM® DCT. Important factors were the immediate inspection of intact and perfect installation as well as accurate measurement and subsequent location of the pipe during later building measures. The trenchless installation using the HDD method meant that the area, which had in the meantime been designated a conservation area, was scarcely impaired. The pipes, which were supplied in coils cut to installation lengths, were installed in a time-saving manner and only needed to be joined in the pit area.

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Project data:

Project description	New installation of a connecting pipeline to supply the VZEK with natural gas
Challenge	Topographically difficult terrain in conservation area, recultivated areas with problematic backfill materials
Solution	Prefabrication and insertion (minimum quantities of excavation materials) of sheathed pipes, can be located and inspected after insertion, cut to final length and supplied in coils
Installation	Trenchless installation using the HDD method
Pipes	Gas connection pipe Length 3,700 m SLM® RC^{plus} DCT 125 x 7.4 mm
Parties involved in the project	Client: VZEK, Town of Erfstadt Gas supplier: GVG Gasversorgungsgesellschaft mbH Rhein-Erft, Hürth

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