

CASAFLEX-project, Veneto, Italy 2015

Case Study



Location
Veneto, Italy

Product
CFL DN 80

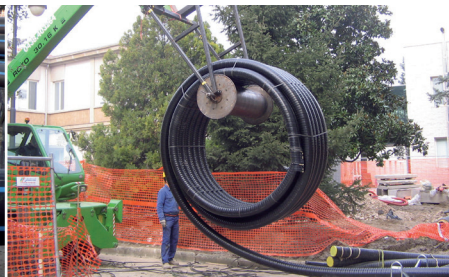
300 m

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Welding of the jacket pipes



Unwinding and laying all-in-one



Ready for trenchless laying

Project

The district heating network at the Veneto Institute of Oncology (IOV) in the historic centre of Padua was renovated. The renovation measures affected the entire heating and cooling system of the institute and the adjoining building, which was formerly the Ospedale Busonera but is now the IOV. This part of the building was connected to the heating system in the eastern part of the hospital premises and a new cooling system was also installed in this area. This was connected using underground pipes, which were laid without trenches.

Challenge

To ensure that the existing listed historic foundation and infrastructure lines did not get damaged, a decision was made to lay the pipes without trenches.

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Solution

The laundry facility was connected to the underground pipes, which were laid without trenches, from the heating plant in the eastern part. Under the hospital, the pipes were led back towards the surface, where the pipe for the systems (all underground pipes and the duct for medical gas pipes) was connected to another pipe. It is still underground and accessible for testing. The eastern branch reaches the oncology building, where the existing heating plant on the roof was upgraded. The western branch is connected to a new heating sub-system, which was built in existing rooms. 300 m of CASAFLEX pipes with a diameter of DN 80 were used.

Result

As Brugg Pipe Systems Piacenza planned and coordinated the process of laying the pipes without trenches so successfully, the various supply lines could be laid underground without damaging the foundations of the listed historic walls of the city of Padua.



The pipes before inserted into the PE-HD jacket pipe



CASAFLEX pipe leaves the jacket pipe after a continuous distance of 190 meters.