

Florence, Italy
30th September – 2nd October 2019

Paper Ref #
(the paper ref# will be supplied to authors)

**DESIGN&BUILDING CONTRACTS AS A PERFORMING OPPORTUNITY TO
C.I.P.P. SEWERS REHABILITATION – BRIANZACQUE CASE STUDY**

ABSTRACT

A 3 million euros budget, in order to renovate 2.5 km of a large ovoid-shaped sewer, running underneath a densely populated area, those are the key elements on which the case study is based. BrianzAcque, the Brianza County water company, has opted for trenchless technology, to reduce the social costs arising from the building site and to minimize the sewer system down-time. The novelty is not only the complexity of the project, of the technology and of the construction materials, but the contract award procedure: design and building contract.

Due to the importance of the rehabilitation, it has been immediately clear that pinpointing qualified and strong players had a strategical significance, with strong innovative capacity, and task oriented. The complexity of the project needed as well an operation team capable of ensuring the coordinated management and able to master from any design steps to the completion goals. Last but not least, it has been set a remarkable overhead wastewater by-pass system up, in order to manage the sewer during the CIPP operation. Design and building contracts, in which two or more companies and designers are bound together to fulfil their obligations, is a useful tool to ensure an high quality performance. A highly technical design, with particular regard to materials and static calculation joining a gathered extensive experience are the key success factors of this challenging project.