



**BUDAPEST
WATERWORKS**



Gold Standard for
Utility Performance

**Worldwide
Water Solutions**

Technical survey project of Fengxian Water Company



Project Summary and Tasks ⁰¹

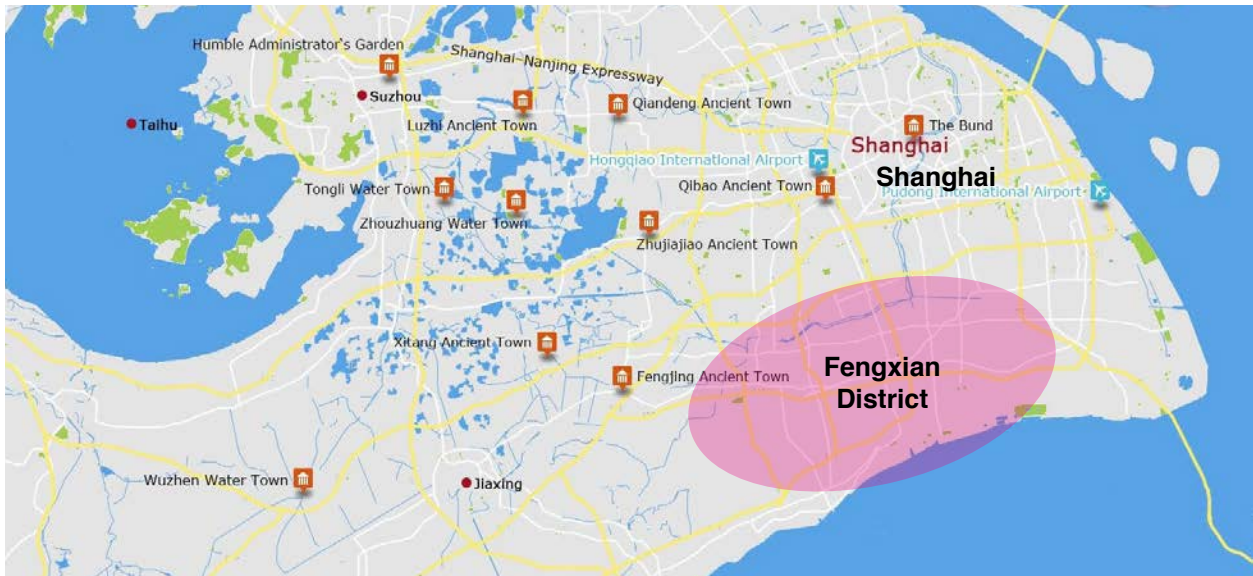
Budapest Waterworks carried out a partial technical audit of the drinking water supply system of Shanghai Waterworks Fengxian Water Company in 2012. Our company provided technical support in connection with non-revenue water among others, as a result of which the amount of non-revenue water has been significantly reduced in the Fengxian district, which has a population of 4 million people. In terms of percentages, the water loss was reduced from 50 % under 20 %.

Objectives to be accomplished

Mapping of the technical areas of the service provider, collection of main technical problems and preparation of a custom-made solution on a guideline level that takes the particular circumstances into consideration.

KPIs ⁰²

- Fengxian area: 705,000 km²
- Population: 4 million people
- Length of pipe network: 10,117 km
- Volume of water flow: 1 million m³/day
- The ratio of water loss has been decreased from 50% to 25%.



Surveyed areas ⁰³

- Hydraulic structure of water production systems
- Water intake
- Technology process of water treatment plants
- Places and data of pumping stations
- Places and data of water reservoirs
- Water quality data
- Source of energy supply, supplied energy data
- Water consumption/water sales data
- Mapping of network of main pipelines
- Preparation of network statistics
(based on diameter, material, age and length parameters of pipes)
- Preparation of pipe network failure statistics
(localization of failures on mains and distribution network)
- Programs used for hydraulic network modelling
- Pipe network reconstruction planning
- Active Leakage Control, etc.

Results achieved ⁰⁴

We completed our task at high level within the given time period of two-month, prepared and submitted a high-quality written study in accordance with the contract specification.