bavitech CORPORATION

Case Study

TECHNOLOG
AMETEK

Non-Revenue Water Reduction



Ville de Tân An, province de Long An, Vietnam

- ✓ Reduction in operating costs
- ✓ Rapid return in product investment
- ✓ Delay pipe replacement
- ✓ Leakage and burst reduction
- ✓ Easy to implement

Project Overview

This project was to reduce the non-revenue water (NRW) of the water supply network of Tân An City, Long An province, Việt Nam. Reduction of the NRW would lead to a decrease in the volume of water production necessary, lower operating costs and improved network efficiency. This would in turn increase the number of households with access to the drinking water supply.

Technolog's channel partner, Bavitech was the main contractor for this project. Bavitech carried out the site surveys, technical project design, procurement and implementation.



Key Elements

- Establishment of 14 District Metered Areas (DMAs) over the Tân An City water network
- Installation of electromagnetic flow meters and pressure reducing valves (PRVs)
- Provide data from wireless data loggers to determine leakage and burst location
- Remote control of PRVs from utility office
- Monitor critical pressure points within distribution network
- Reduce instances of intermittent supplies and pipe breaks
- Extend longevity of existing distribution network



Key Outcomes

- **Technolog's advanced pressure control device, the Regulo, and remote data logging solution, Cello GSM data loggers, were selected to provide remote monitoring and NRW management**
- **VIWATER SCADA system was used to collect and analyse data**
- **More accurate calculation of water loss, water balance and minimum night flows were provided**
- **NRW reduced from 40% to less than 20% in less than 3 months**
- **6,900 m3 water recovered per day**
- **Reduction in burst frequency**

Technolog Limited,
Ravenstor Road, Wirksworth,
DE4 4FY, United Kingdom

+44(0)1629 823611
technolog@technolog.com
www.technolog.com

Copyright Technolog 2017
All rights reserved. Specifications subject to change without prior notice.
CS91011 & DMR 7001