

Urban Water Efficiency

Miya, an Arison group company, is a global provider of urban water efficiency solutions, with an emphasis on Non-Revenue Water (NRW) management. Miya helps utilities to increase water supply, revenues, and profits through comprehensive economic and sustainable water efficiency projects. The Company's solution includes audit and analysis of a city's water system, comprehensive project planning, management, implementation, maintenance, and training.



SHAPING THE FUTURE OF URBAN WATER

More than a third of the world's water supply is lost from municipal supply systems. The most sustainable and cost-effective way to prevent such losses is to repair and optimize existing networks.

Improving water efficiency will provide access to clean drinking water for millions of people, improve quality of service, contribute to the economic empowerment of water utilities, reduce the energy consumption associated with water production and distribution, save many lives through disease prevention, and reduce the need for additional water production capacity.

Miya's Solution

Miya's comprehensive solutions are tailored to meet a city's budget, needs, and priorities. A typical Miya project includes the following elements:

- ◆ Audit/study of the city's water system
- ◆ NRW strategy, plan and financial model/analysis
- ◆ Implementation: management and execution of the overall program, including physical and commercial loss reduction, and software and management services
- ◆ Maintenance and Training



Miya has extensive experience in implementing successful water efficiency projects around the globe, for example :

**Manila, Philippines
(2009-2012)**

- ◆ The world's largest NRW project
- ◆ So far, NRW has been decreased from 1,550 MLD, at the beginning of 2008, to 1,017 MLD in August 2011 – an amount that exceeds the daily production of 5 desalination plants producing 100 MLD each
- ◆ The project will enable the city to provide safe, clean water to an additional three million residents by the end of 2012

**Itapevi, Brazil
(2006-2007)**

- ◆ NRW was reduced from 777 Litre/Connection/Day to 293 litre/connection/day by reducing both physical and commercial losses
- ◆ Performance contract with return on investment of 17 months

**Sao-Paulo, Brazil
(2009-2019)**

- ◆ 11-year program of SABESP, the Sao-Paulo water company, to reduce the total water loss in Sao-Paulo by 2019 from 403 Liters/Connection/Day to 211 Liters/Connection/Day, and the NRW from 26% to 13.1%
- ◆ During the initial 30 months of the program, BBL is providing technical assistance, advisory engineering services and a management software system for the planning and control of the overall program

**York Region,
Canada
(1998-2006)**

- ◆ The largest contracted leakage reduction program in Canada
- ◆ Design and implementation of DMAs in all nine regional municipalities within an area covering 2500km of water mains
- ◆ The reduction achieved was 156% of the project target

**Sebokeng,
South Africa
(2005-2010)**

- ◆ The project saved 50 million cubic meters of water over 5 years, which translates to savings of more than US\$20 million
- ◆ The project provides annual energy savings in excess of 14,000 MWh, equivalent to reducing 12,000 tons of CO2 emissions per year
- ◆ A comparison made by the customer showed that the alternative of constructing a water treatment facility to produce the amount of water equivalent to the savings would cost 150 times the investment in this NRW project