

Total Management from Water Source to Tap - Waterworks of Yokohama City -

Project Profiles No.10

Growth of the City Depends on Water

Providing Safe Water



Source: Waterworks Bureau, City of Yokohama



Source: Urban Development Bureau, City of Yokohama

Doshi Watershed Protection Forest



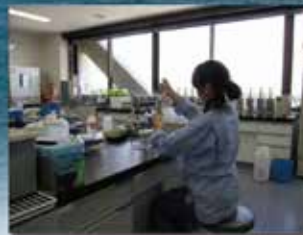
Source: Waterworks Bureau, City of Yokohama

Water Purification Plant



Source: Waterworks Bureau, City of Yokohama

Water Quality Test



Source: Waterworks Bureau, City of Yokohama

Training



Source: Waterworks Bureau, City of Yokohama

Project Summary

Did you know that a modern water supply system played a big role in the development of Yokohama City, which is a key world center of industry and culture today?

In 1887, British engineer Henry Spencer Palmer, with the help of Japanese engineers, installed Japan's first modern waterworks in Yokohama which now has grown up as the 2nd largest city in Japan with a population of 3.7 million.

A stable supply of water is necessary for industries to grow and plays a major role in urban and regional development.

The Yokohama Waterworks Bureau has kept pace with the ever-increasing demand for water by developing water supply engineering technologies.



Source: Urban Development Bureau, City of Yokohama



Character of
Yokohama Waterworks Bureau
"Hama-pyon"

Status of Water Supply (March, 2013)

Item	Value
Population Served	3.694 mil Persons
Population Served Rate	100.0 %
Annual Water Consumption	425,280,300 m ³
Average Daily Water Supply	1,165,152 m ³
Daily Average Water Supply per a Person	315 liter
Total Length of Pipeline	9,247 km

Source: Waterworks Bureau, City of Yokohama

City of Yokohama website - Waterworks Bureau -
<http://www.city.yokohama.lg.jp/suidou/langage/english/>

Waterworks of Yokohama City

Advanced Technology

Today, to supply 1.2 million cubic meters of high-quality water every day, the Yokohama Waterworks Bureau has three purification plants which comply with Yokohama's own purification standards that are stricter than the national ones.

Enormous quantities of water needed by Yokohama City continue to flow without fail largely due to the Bureau's adoption of advanced technology and its management experience.

Water quality is controlled by highly accurate technology. At each purification process, around 200 test criteria are used to ensure water quality. About 23 of these criteria are controlled according to ISO/IEC17025 to assure international compliance.

A water distribution block system was also introduced, and it has proven to be very effective in managing water pressure and flow to prevent water leakage and other problems.

Sustainable Management

The Bureau has consistently maintained a steady supply of potable water to the people of Yokohama City.

The trust between water supplier and customer is reflected in the high payment rate of water charges. Moreover, business plans guided by a long-term vision are the basis for the sound management of water supply services. With these conditions in place, the Waterworks Bureau can run a stable water supply system. The bureau has all the qualities indispensable to a successful business enterprise.

International Cooperation

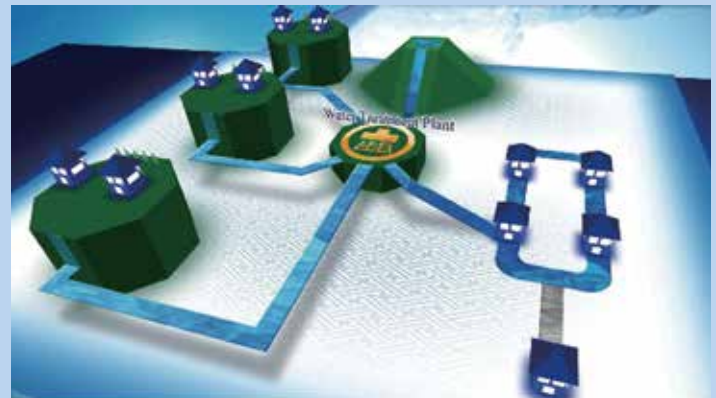
The most unique characteristics of the Waterworks Bureau is its 40-year record of international cooperation. Over this period, it has received more than 2,400 trainees and executives from Asia, Africa, and other regions who visited the City to study the technologies and management experiences of the Bureau.

Under technical assistance projects, the Bureau has also dispatched around 240 experts of its staff to some 30 countries around the world. The expertise of its staff has contributed to solving the water problems and has improved the situations in these countries.

As for one of the activities of the Bureau, in the province of Hue in central Vietnam, which the bureau has been assisting since 2003, water quality has dramatically improved. As a result, a Safe Water Declaration was successfully issued by the Hue Water Company.

To enable the Bureau to contribute more to overseas waterworks services through technical cooperation and technology transfer, the bureau established the Yokohama Water Co., Ltd., in 2010, wholly funded by the Bureau. This company will go to meet more flexibly to various needs, from training to consulting services in technology and management capacity.

Advanced Technology



Source: Waterworks Bureau, City of Yokohama

Sustainable Management



Source: Waterworks Bureau, City of Yokohama

International Cooperation



Source: Waterworks Bureau, City of Yokohama