



KOWACO – Southern Geum River

Water Supply

Republic of Korea

Water Distribution in the Republic of Korea

In the Republic of Korea, ground water is very scarce, and the major part of drinking water originates from large surface reservoirs and dams. KOWACO (Korea Water Resources Development Corporation) controls most of these reservoirs, from which water is routed through enormous cleaning plants, before it is further distributed to surrounding cities where the local water companies takes over.

KOWACO was founded in 1967 to develop heavy and chemical industries and facilitate modernization of the national industrial structure. In order to meet global standards, KOWACO strives to automate operation as much as possible to reduce costs and enhance efficiency, thus increasing global competitiveness. To ease the process of achieving this goal, KOWACO has implemented AQUIS Real-Time from 7-Technologies in their daily operation of the Southern Geum River Water Supply.

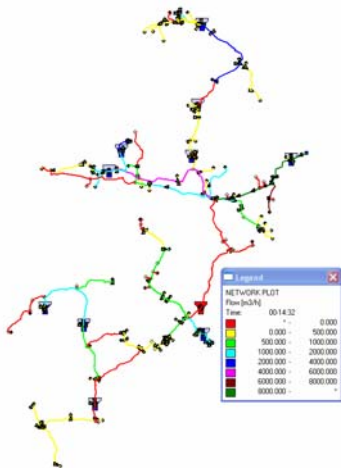
Project Objectives

- To implement the latest technology in model-based water management, including:
 - Optimization of operation
 - Control of water quality
 - Forecast analyses
 - Capacity analyses
- Online connection to SCADA
- Online connection to Pump Optimization module



Sedimentation basins in Gosan. One of five production plants at the Southern Geum River Water Supply.

CUSTOMER CASE



Network Description

Water consumption:	700,000 m ³ /day
Km of main pipes:	650 km
No. of distribution points:	65
Maximum size of pipe:	2,400 mm
Minimum size of pipe:	125 mm
Number of reservoirs:	11
Number of pump stations:	14



AQUIS Applications

- AQUIS Hydraulic (2,500)
- AQUIS Real-Time
- AQUIS Water Quality
- AQUIS Surge

Engineers at work at one of five control centers

System Integrator

Hyundai Heavy Industries has provided the overall SCADA system, and has been the system integrator with assistance from 7T.

