



CASE STUDY HYDROELECTRIC PLANT

K-Water, South Korea

K-water is one of the world's largest water utility company responsible for bulk supply of water to most of South Korea including treated water to 25 million people and raw water for industrial use.

PROBLEM

Operated and managed by K-Water, Imha Dam and Daecheong Dam have 50 MW and 90 MW generating capacity, with two generators in each facility. The generators have oil filled bearings which, when not operating correctly, release oil into an overflow pit inside the plant.

Oil overflow is an early indication that generators are not operating at full efficiency and that maintenance is required.

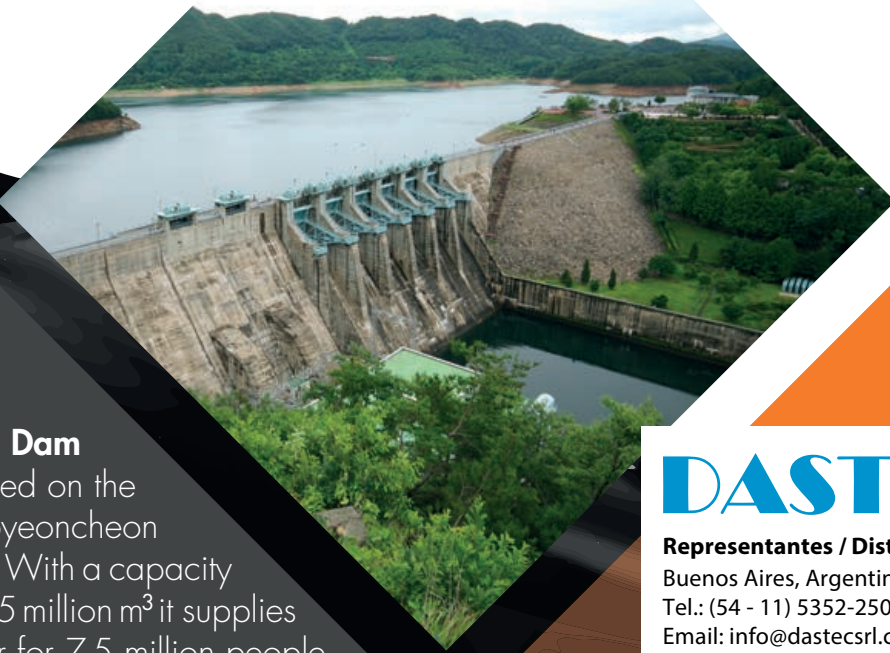
Inability of detecting this overflow leads to reduced lifetime of components, increased downtime and so reduced productivity of the plant.

"We are very satisfied with ROW stable performance against water level change, flow rate change and foreign object. Besides ROW can support to connect effectively to our PLC allowing for our system compatibly with ROW"

Changhyun Yoon,
Korea Water Resources Corporation

Imha Dam

Located on the Banbyeoncheon River. With a capacity of 595 million m³ it supplies water for 7,5 million people and industrial users.



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FIRST INSTALATION
IN 2013



ROW O-2200A



WIRED COMMUNICATION
RELAY OUTPUT, RS 485



SYSTEM EMBEDDED
INTO EXISTING
MONITORING SOFTWARE



SOLUTION

ROW was selected by K-Water and installed in Imha Dam and Daecheong Dam. Operators requested continuous monitoring of the plant that would alert them immediately of any potential incidents.

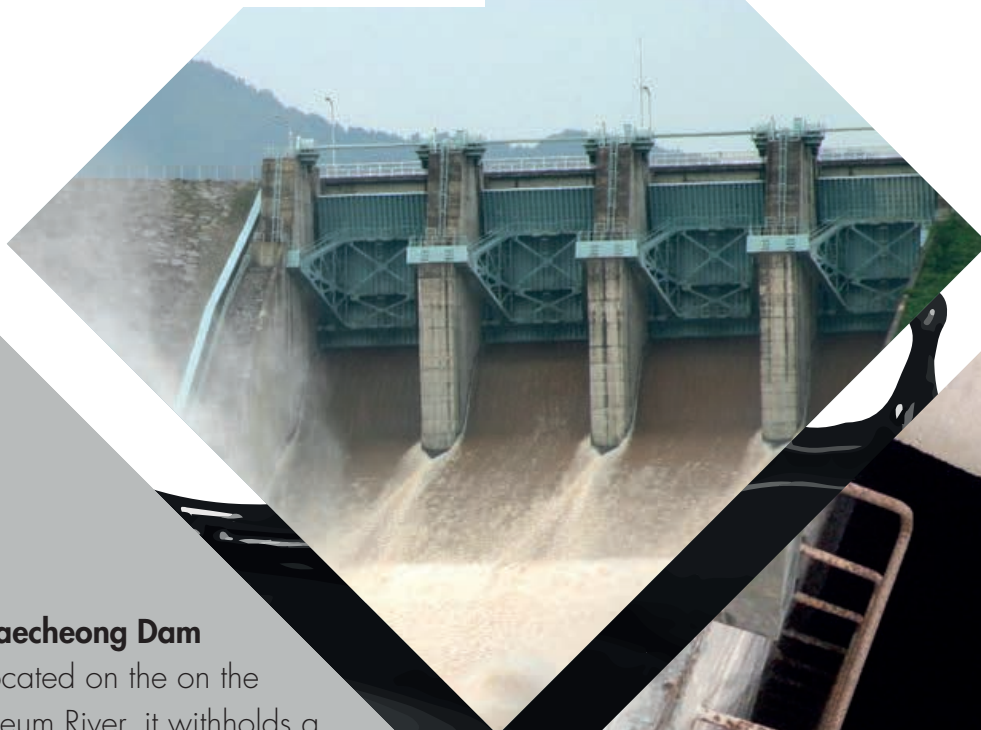
Enabling real-time monitoring and data analysis, the ROW system is part of K-Water's drive towards continuous improvement in its operations and implementation of innovation in ensuring high level of safety standards.

High efficiency and reliability alongside the easy integration into existing security system have convinced K-Water to role out ROW oil detectors into their other facilities in dire with their upgrade plan.

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Daecheong Dam

Located on the on the Geum River, it withholds a reservoir of 1,490 million m³ and has a generating capacity of 90 MW.

