

RTO platform

less pumping, more cost savings

Energy costs often account for 30-40% of a utility's total operation and maintenance costs. The U.S. EPA reports that drinking water and wastewater systems consume about 2% of total energy use in the nation, adding over 45 million tons of greenhouse gases (GHG) annually.

Key to identifying potential cost savings is determining baseline energy use in addition to energy-intensive processes such as pumping.

KISTERS' Real-Time Optimization (RTO) platform maximizes asset performance. It provides **the best possible operating scenario that meets defined targets for conservation or efficiency improvements.**

Operators + technicians set acceptable thresholds on variables such as pump discharge, inlet levels, and weir crests using a clean, simple web interface over a patent-pending Invex optimization approach that computes at a remarkably fast speed.

"Suboptimal water drainage demands more water and energy, as it requires more flushing. RTO reduced flushing in the summer -- yielding energy cost savings of 20%. During heavy storms RTO also reduced peak water levels by 50%, minimizing potential for urban flooding."

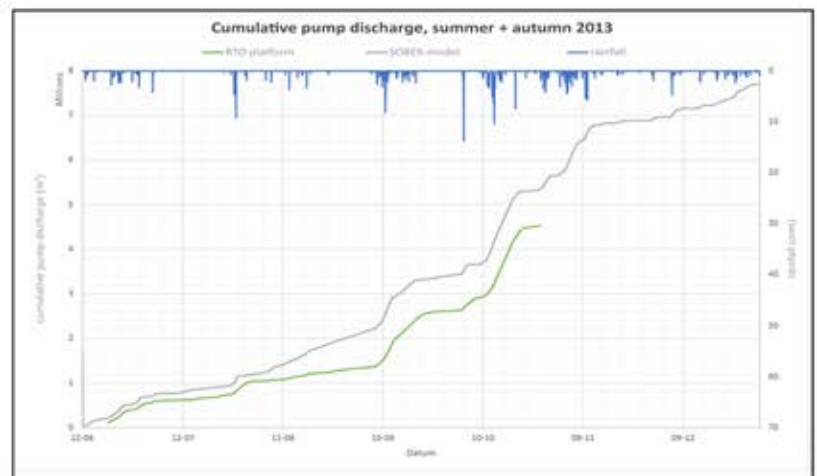
*RTO end-user
a Dutch water authority*



Intuitive Web Interface

Aggregate and validate data in the backend such as WISKI. Then integrate and implement KISTERS RTO Platform in a number of options: a WISKI extension, a stand-alone on an internal server, or hosted in the cloud.

Within the web-browser, define optimization goals and rank their priority level.



Maximize Asset Performance + Lifecycle

In addition to energy cost savings, improving pump system performance can lower maintenance costs. Given the significant number of pumps within a water network, the ability to prioritize pump replacement yields additional cost O+M savings.

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