SASKI (General Directorate of Sakarya Water and Sewerage Administration)
Sakarya, Turkey

Inside a SASKI Water and Sewarage Location

About SASKI (General Directorate of Sakarya Water and Sewerage Administration)

SASKI, the General Directorate of Sakarya Water and Sewerage Administration, (www.sakarya-SASKI.gov.tr), provides clean water to the province of Sakarya, Turkey. Its multiple stations serve approximately 1,030,000 residents over nearly 4,878 square kilometers, handling an annual average volume of over 60 million cubic meters and a maximum capacity of over 129 million cubic meters. SASKI's multiple locations throughout the region include 11 clean water treatment plants, 668 clean water tanks, 380 pump stations, 171 deep well, and over seven and a half million meters of pipeline.
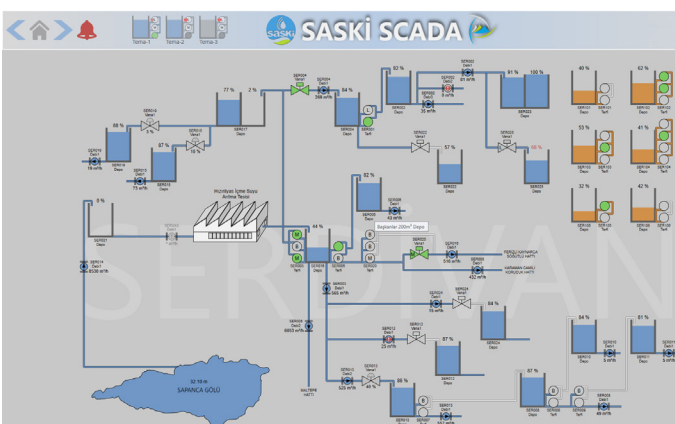
ICONICS Software Deployed

SASKI, working with Cedetaş Engineering & Technology (cedetas.com.tr) of Istanbul, Turkey, selected ICONICS

GENESIS64™ HMI/SCADA suite; Hyper Historian™ rapid data historian; WebHMI™ web-based real-time automation software; ReportWorX™ enterprise reporting, charting, and analysis software; and AlarmWorX™64 Multimedia OPC-integrated alarm management software.

Project Summary

In addition to the motors, pumps, and other equipment that help provide water throughout the province, SASKI's stations contain control devices that collect data, such as water tank levels, from the field. The organization sought to improve its field data collection capabilities, adding functionality such as full station status, detailed reporting, field device control, fast historical archiving/retrieval, and integration with geographic information systems (GIS) (e.g., Esri). SASKI specifically required an automation software provider that could integrate with their multiple

SASKI Water Treatment Facility Monitoring

SASKI Location Overview Dashboard

applications across hundreds of locations, including tank storage, drinking water purification/provision, wastewater purification, drilling, flow metering, and more.

The water-focused organization initially planned for their new monitoring and control solution to connect to over 50,000 tags, and integrating with on-site OPC-integrated equipment (including PLCs). The chosen solution would also need to work with multiple servers, databases (Microsoft SQL Server and Oracle), and client machines.

Benefits of the System

Ultimately, after considering multiple competitor solutions, SASKI selected ICONICS' GENESIS64 and connected components. According to the company's engineers, what attracted them to ICONICS was that the solution's system architecture is able to be expanded and easily integrated into most systems. SASKI's operators also noted that ICONICS is "open to innovation" and provided "strong support" both to them and to their integrator.

Initially, SASKI installed ICONICS Hyper Historian data historian, including its server and distributed collector components. The firm then proceeded, with assistance from Cedetaş Engineering & Technology, to integrate additional ICONICS products, quickly becoming more familiar with their multiple features and benefits including extensive user interface abilities, advanced reporting options, and Esri map integration.

SASKI's engineers also appreciated the ease of use of ICONICS' Bulk Asset Configuration tool, GraphWorX64's

advanced client interface, the expansion of displays via WebHMI and MobileHMI, and Hyper Historian's performance calculations.

Conclusion

SASKI has been pleased with their selection of ICONICS for their water system monitoring and control and has already made a list of additional applications it plans to address with ICONICS' assistance. Among these are drinking water system management, wastewater system management, purification system management, IoT water metering, vehicle tracking, generator monitoring, building management, and energy management. With the success of their most recent implementation, SASKI will be sure to keep ICONICS in the flow of things.

> " ICONICS offered the most advanced open platform that allowed us to integrate various systems that we need to manage on a daily basis. ICONICS' wide range of modules can be deployed based on the project needs. ICONICS software helps us to make qualified decisions based on analytics available at my fingertips. "
>
> **Isa Emre Çomakli**
> SCADA Manager,
> SASKI

Water Level Monitoring Using ICONICS GENESIS64

SASKI Water System Status and Generated Alarms