Baliwag Water District

Baliwag, Philippines

BALIWAG WATER DISTRICT
ISO 9001:2015 Certified

FS AUTOMATION AND SOLUTIONS INC.

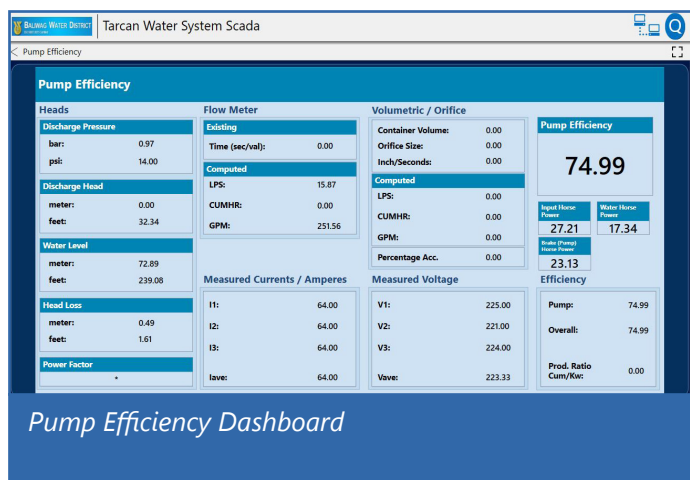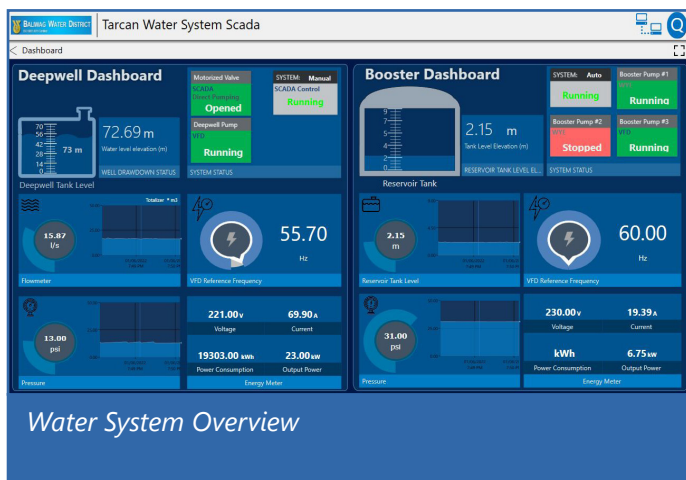*Baliwag Water District Headquarters*

About the Baliwag Water District

The primary reason for the conception of the Baliwag Water District (BWD) was to solve the growing water problem of the town of Baliwag. Established in 1989, the BWD is a government owned and controlled corporation which primarily deals with providing potable, adequate, and affordable water to its customers. The district's vision is to be a world-class water utility that provides excellent service and to lead the industry through innovations, sustainable development, and environmental protection in partnership with the community. Currently, the scope of the quality management system encompasses the production and distribution of potable water, the collection/treatment of septage, and the disposal of end-products. Maintaining 7 pumping stations, 8 boosters stations, and 12 storage facilities and supplying 41,088 service connections and 36,874 active connections, the

BWD is dedicated to continuously improving its facilities to further develop its services in the name of professionalism and public service. Lastly, the Baliwag Water District values the importance of providing adequate potable water and proper sanitation service in compliance with the Philippine National Standard for Drinking Water and other statutory requirements for the continued social-economic growth of the community.

Project Summary

The Baliwag Water District had an older SCADA system that did not provide the required capabilities to properly run the facility. For example, operators had to manually monitor and control the pumping station located in Tarcan, relying on traditional logbooks to record daily parameters. Occasionally, operators encountered difficulties with this manual recording process. Therefore, the district wanted support for their existing SCADA system and a newer,

Water System Overview

Pump Efficiency Dashboard

fresher, modern graphics capability that could be delivered by an advanced SCADA system. In addition, the district wanted a SCADA system that was easy to use and that would allow them to seamlessly implement the phases of their upgrade.

They chose to work with FS Automation and Solutions Inc., a global system integrator with an office located in the Philippines. FS Automation offers quality automation solutions, system integration, project consultation/management, electrical controls, and energy conservation. In addition, the company is committed to providing high quality, prompt, and price competitive products, training, services, and solutions. FS Automation selected the ICONICS solution for several major advantages the software offers compared to other software. For example, the ease of implementation of the ICONICS system allowed for reduced engineering time and cost and provided an extensible multi-user configuration environment. Moreover, ICONICS solutions have reusable smart symbols, global aliasing, and templates that allow the HMI/SCADA developer to efficiently provide content for operators and management.

ICONICS Software Deployed

- GENESIS64™
- GraphWorX™64
- Hyper Historian™
- MobileHMI™
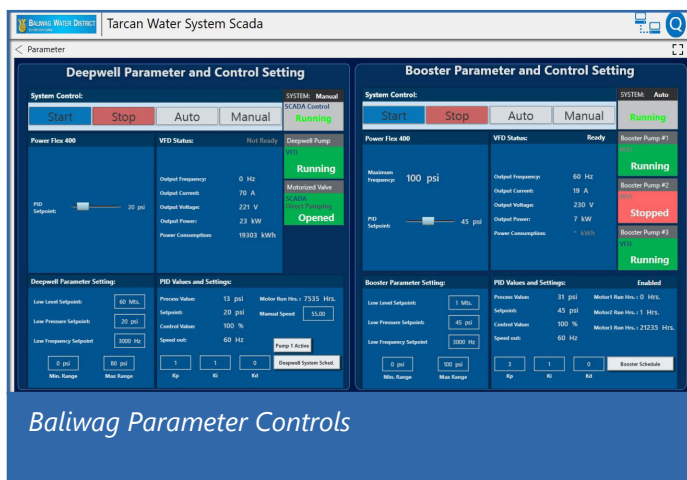- TrendWorX™64
- AlarmWorX™64

Realized Benefits

The Baliwag Water District realized many benefits from using ICONICS' software. For one, the district can more easily and conveniently monitor and control the pumping station remotely from the BWD headquarters office. They can also track crucial operational KPI metrics such as the statuses of their pumps. In addition, they were able to monitor special parameters of the variable frequency drives (VFDs) in their control system. The district also experienced much better reporting of the information from their booster stations. Furthermore, the upgrade has enabled the generation of real-time daily reports and automatic parameter recording, all configured and set up within the ICONICS SCADA system. Likewise, the new system has helped them establish a more efficient and effective preventive maintenance program. Lastly, due to the increase in operational visibility, the district improved their personnel workflows thus contributing to an increase in the overall efficiency of the facility's operations.

Conclusion

With the use of ICONICS, the Baliwag Water District is a top local water district in the Philippines. In fact, other local water districts look to it as a model and as a future benchmark. The BWD, including all their personnel, works hard to serve its customers with efficient and quality services. By prioritizing continuous improvement efforts and an efficient and technologically advanced infrastructure, including using ICONICS for remote monitoring, report generation, and real-time data recording, the Baliwag Water District has become the reference standard and beacon for most of the water districts in the country. The district will continue to complete the phases of its upgrade to better serve the community and will continue to be an example of what the highest quality of a water utility facility looks like.

Baliwag Parameter Controls

" ICONICS SCADA helps the Water Production Division provide quality and efficient services through real-time monitoring and control, accurate historical data logging, and easy report generation. "

Mr. Rodolfo S. Cruz
Water Production Division Head