EC⊗LAB°

Increasing production time through data-driven CIP wash programs

CASE STUDY

How a beverage manufacturer used digital insights to give **580 hours** of production time back to their facility

BACKGROUND

A large beverage manufacturer wanted to optimize the runtimes of their Clean-In-Place (CIP) cycles on each filler, but they lacked the data required to identify and implement potential high-impact changes. To drive the changes they sought, they needed a deeper, more thorough level of insight into their core CIP processes. By optimizing their CIP programs, the manufacturing team hoped to reduce the amount of water consumed while also reducing capacity constraints on their production lines associated with this process.

SOLUTION

In partnership with Ecolab®, the beverage manufacturer installed 3D TRASAR™ for CIP to monitor, record and analyze every CIP wash on each of their production lines. From there, the Ecolab service team was able to evaluate key metrics such as time and conductivity for each wash, rinse and sanitizing step. Using this analysis, the Ecolab service team proposed a revised CIP program that optimized cleaning, sanitation and post-rinse steps in accordance with the specific needs of each production line. The Ecolab and the beverage producer's teams partnered on a trial to validate the new wash programs throughout the entire facility.



ROI by Ecolab

SOLUTION OUTCOMES



Faster Clean-In-Place (CIP)





Optimized water and energy usage



RESULTS

The optimized CIP program shortened cleaning times significantly, allowing the plant to increase its production. As a result, they were also able to improve their sustainability metrics by reducing water and energy use.

- Advanced Analytics and Insights: 3D TRASAR[™] for CIP provided actionable data that helped to focus resources on critical areas for improvements in each wash step
- Productivity: Minimized cleaning downtime for maximum utilization of resources and improved overall efficiency
- Sustainability: Positive impact on sustainability goals by reducing the consumption of water, energy and chemicals
- Quality and Safety: SSOP compliance tracking enabled rapid corrective action and sustained improvements



Based on data collected for this study between 2/23 and 11/24. The results in this case study are specific to this individual customer and may vary for other customers based on factors and circumstances in their operations.

Contact your Ecolab representative today to learn more.



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