

Clean-in-Place Analytics

Optimizing clean-in-place operations to transform resource efficiency, performance and productivity.

Challenges

Clean-in-place (CIP) systems in the food and beverage industry can waste significant resources like water, energy, labor and time. Lack of analytical tools and accurate insights make it difficult to dial in your cycle time and utilities.

CIP OPERATIONS CONSUME NEARLY 30% OF PLANT UTILITY RESOURCES.



Accurately tracking and recording CIP procedures is critical to process reliability and document traceability. Manual checking of instruments and data entry adds significant time to a stretched labor force and increases the potential for manual logging errors.

MANUAL REPORTING CAN ADD \$20k-\$40k IN LABOR COSTS.



Meeting consumer demand for increased product variety requires more changeovers that reduce line availability. CIP processes during changeovers can add significant downtime and, if manually executed, labor cost to production.

LONG CHANGEOVER TIMES REDUCE LINE AVAILABILITY.



OUR SOLUTION — Utilities and reporting analytics to optimize CIP systems

Transform the resource efficiency and productivity of your CIP operations with Emerson's complete CIP analytics platform. Our digital tools for real-time monitoring, automated reporting and KPI benchmarking can be integrated with any system, whether you're using advanced Emerson technology or competing hardware. Our solution empowers you to optimize cleaning times while dramatically improving energy efficiency and reducing costs to help you achieve production and sustainability goals.

Real-time monitoring optimizes energy efficiency and reduces water consumption by as much as 45%

Emerson's multimedia monitoring solutions optimize resource efficiency and ensure economical use of a variety of media, like energy, water, air or chemicals. From sensors to controllers to software, we can offer a complete solution to make CIP operations more sustainable.



Automated cleaning reports reduce time managing CIP by as much as 20% and minimize human errors

Emerson's automated reporting solution for CIP operations eliminates errors and reduces labor costs associated with manual entry. This alleviates issues with stretched workforces and can deliver an estimated \$20k-\$40k in savings annually.



Advanced technology improves visibility across multiple systems to set new standards for production

Our benchmarking tools let companies evaluate trends and determine effective cleaning processes across an entire operation. With a comprehensive solution offering and application expertise, Emerson can help you significantly reduce changeover times, thereby increasing uptime and productivity.



**PACEdge -CIP
Utilities &
Automated
Reporting Analytics**



**PACSystems with Edge
Analytics RXi2**



**ASCO™ Series 290D
Pressure Operated
Piston Valves**



**ASCO™ Series 290C
Motorized Valves**



**AVENTICS™ Series
AF2 Sensors**



**Rosemount™ Series
3051HT Hygienic
Pressure Transmitters**



**Rosemount™ Series 1056
Intelligent Four-Wire
Transmitters**



**Micro Motion
H-Series Hygienic
Coriolis Flow and
Density Meters**



Scan to see the video on our Clean in Place 4.0 solutions



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