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Industrial validation of an ozone based CIP system for dairy industries

Hygienic standards are a main concern in dairies. Some of the most important cleaning tasks are those related to the washing of closed equipment where Cleaning In Place (CIP) systems are of common use.

CIP are characterized by automatic cleaning programs based on a succession of several solutions of water, cleaning chemicals and disinfection agents that are discharged together with large amounts of water to rinse out residual chemicals. So health and environmental concerns are supporting the need for alternative sanitation technologies.

ECO₃CIP deals with the first industrial application of an ozone based CIP system and its validation in technical and economic terms at industrial level to boost its wide implementation in dairy industry.

The technical tasks scheduled include an on site environmental and hygienic diagnosis, design and retrofitting of the existing CIP system into ozone based CIP and monitoring and validation of the ozone based CIP system at industrial scale.

Funded by

First Application and market replication projects

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*Environmental & Hygienic baseline
Laboratory testing*

Ozone based CIP design



EXPECTES RESULTYS

- ❖ Expected reductions: water consumption & wastewater volume (25%), chemical consumption (10%) and organic load in wastewater (15%) compared to current practice
- ❖ Validation of the ozone based CIP as a BAT



*Plant operation and monitoring
Performance assessment*

*Plant construction
Plant start up & tuning*

