Cooling Horizon 2030: Economic and Sustainable Benefits for an Agri-Science Player

CASE STUDY I Food & Beverage (Agribusiness)

| Customer challenges

The client's site is equipped with a collection pit for blowdown water from boilers, cooling towers (CTs), and other industrial process effluents.

The use of phosphate-based treatments in these systems promoted significant algae growth, which necessitated cleaning the pit twice a year at a cost of €5000, inevitably impacting the maintenance budget.
The disinfection treatment presented quality issues, and the CT performance monitoring was handled by aging equipment requiring regular maintenance. This situation increased the workload of the teams, adding to the equipment budget and overall maintenance costs.

| Solutions

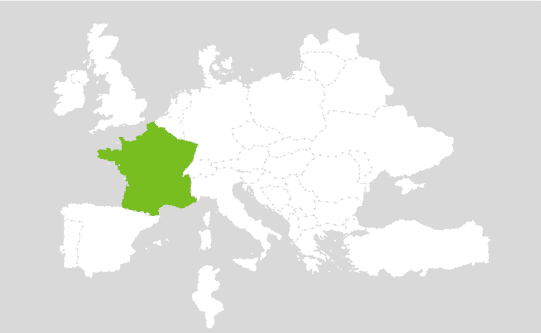
The cooling circuit treatment program has been redesigned to incorporate the latest available innovations. The phosphorus and zinc-free **E.C.O.Film* EF 2897** technology has replaced the existing anti-corrosion and anti-scale treatment.
An automatic filter and a **TrueSense*** ***Ready-Set-GO*** monitoring system have been installed in place of the existing equipment.
A salt electrolyzer has replaced the microbiological treatment program.

| Results

At the heart of the solutions offered via the Cooling Horizon 2030 approach, The phosphate-free E.C.O.FILM treatment has eliminated the algae problem and the associated measurement analyses. Monitoring is now online via a tracer analyzed on our TrueSense *Ready Set Go* range.

The new equipment (filter/*Ready-Set-GO*) reduces human and financial investment with significant maintenance gains.

Finally, for disinfection, the salt electrolyzer has eliminated the use of bleach. In addition to the HSE gain, the environmental footprint associated with the management of these commodities is minimized.



France

| The client

International agricultural company specializing in seeds, crop protection products and digital agriculture solutions.

40k€/y
TCO Savings

MInimized maintenance
(including 204 PO4 measurement analyses avoided per year)

1.8t CO_2 eq/y
avoided

2.2t/y
less commodity chemicals

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