

RECORDED BENEFITS

- Increased time between acid cleanings
- Reduced acid chemical cost
- Reduced labor cost
- Increased production
- Reduced safety hazards
- \$440,000 annual savings

Scale Control Program Doubles Run Time Between Digester Acid Cleanings

SmartScale Technology

Customer Challenge

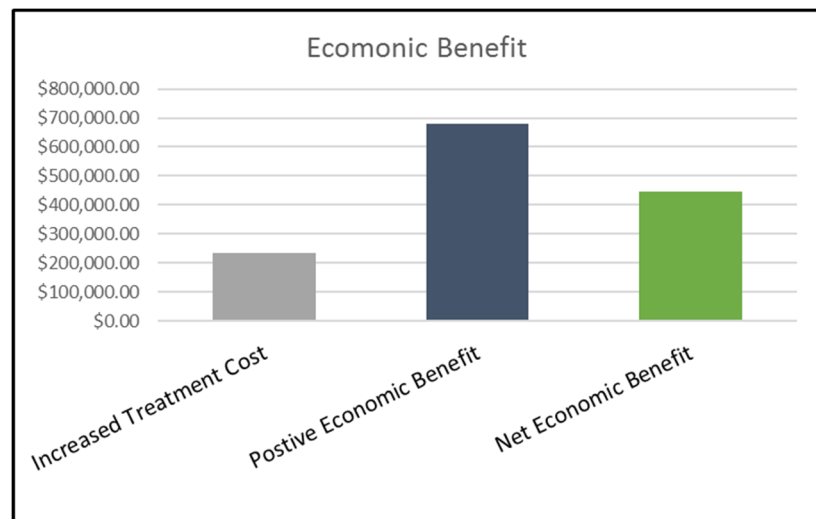
A Southern U.S. pulp mill wanted to extend the time between its digester acid cleanings from once a year to once every two years. To accomplish this goal, the mill required a more robust scale inhibitor program to control scale buildup.

Recommended Solution

Solenis recommended that the baseline feed rate of the existing scale inhibitor (Infinity™ SL4342) be increased from 0.45 lb/ton to 0.60 lb/ton and that SmartScale Technology be employed to proactively adjust feed rates based on various digester KPI inputs.

Results Achieved

The SmartScale Technology was used to finetune the feed rate of the Infinity SL4342 scale inhibitor at various dosage points. The program enabled the mill to increase the time between cleanings to two years, saving the mill an estimated \$440,000 a year. Additionally, the mill gained three days of production per year and reduced potential safety hazards associated with the acid cleanings.



$$\text{Economic Benefit} = \text{Production Increase} + \text{Reduced Chemicals for Cleaning} - \text{Increased Treatment Cost}$$

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