CASE STUDY

Improving Boiler Conductivity Control and Increasing Cycles at a Medical Center with CTVista®+

Background

A medical center was using manual adjustments for conductivity control after an old controller failed, causing them to over- or under-cycle their boilers. They needed to increase control to preserve and maintain their boiler assets, increase cycles of concentration, and achieve their water savings goals.

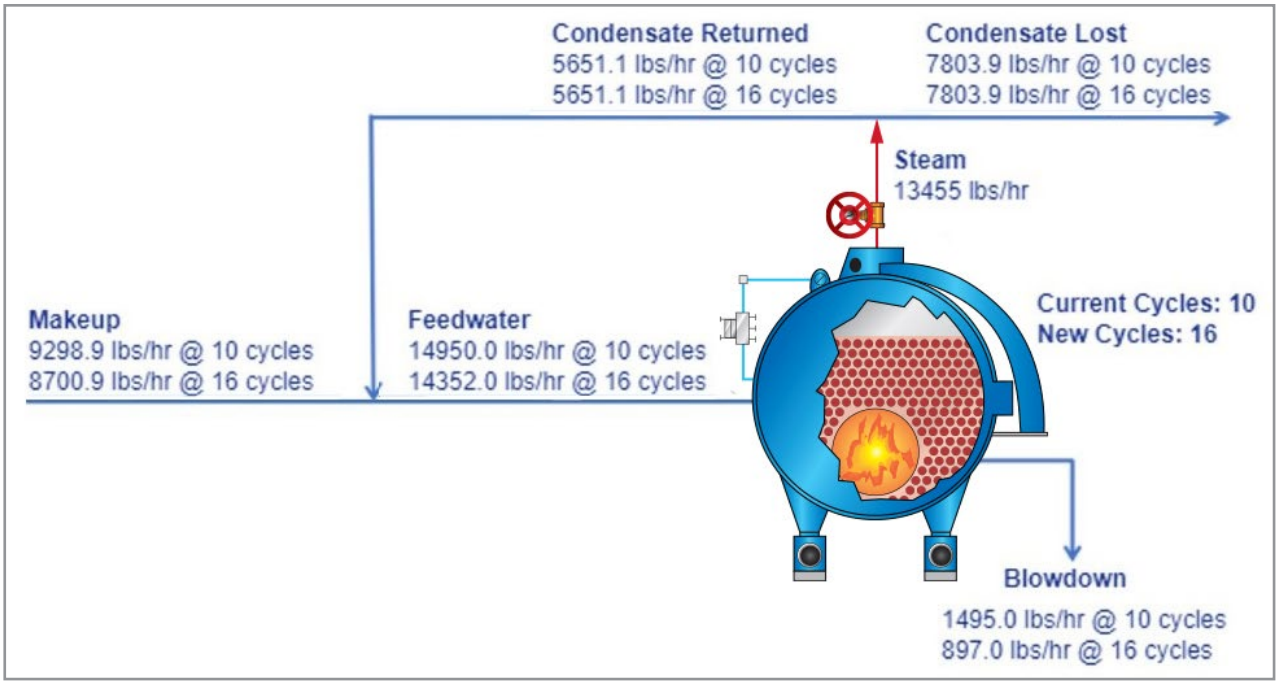
Solution

ChemTreat helped the facility install a boiler controller and connected it to their CTVista®+ software to increase boiler conductivity control and cycles of concentration. CTVista®+ provided real-time monitoring of the boiler system.

Results

With the new boiler controller and CTVista®+ setup, the customer was able to:

- **Increase boiler conductivity control from 40 to 70%**
- **Increase cycles of concentration by 60%**



This firetube boiler mass balance diagram, generated within CTVista®+, shows the water savings associated with increasing cycles of concentration from 10 to 16.

Results are examples only. They are not guaranteed. Actual results may vary.

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Neutralized conductivity trend chart generated by CTVista®+ to monitor performance. The green spectrum indicates the range of desired conductivity. The yellow arrow indicates when the new controller was installed.

CALCULATED SAVINGS FROM THIS PROJECT

364,307
gallons per year in water

1,102
MMBtu per year in fuel

CTVISTA+®

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