

CASE STUDY



RESULTS

ENERGY, CHEMICAL AND COST SAVINGS

- Chemical usage reduced by 80%
- Extended membrane life from 6 months to 2-4 years
- Water usage reduced by 40%
- Natural gas savings of \$43,000 annually



TOTAL SAVINGS Over \$75k annually



CHALLENGE

A cellulose paper company had several issues related to boiler water treatment. They were experiencing:

- Extraordinarily high chemical, natural gas and water usage.
- Short RO membrane life
- Boiler tube failure

Watertech determined that the water softener was not functioning properly. The customer had been performing the wrong hardness test, so this problem went undetected.

The hard water led to reduced membrane life on the RO and caused boiler scale which increased natural gas usage and led to tube failure. It also resulted in an increased blowdown rate which increased water usage and chemical cost.



SOLUTION

Watertech and the customer implemented the following solutions:

1. Recommended the correct test procedures and WTeService remote monitoring
2. Identified and fixed the water softener
3. Installed a new, larger RO system

More than a water treatment solution.

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