

Combining Three Innovative Cleaning Solutions to Restore a Boiler's Efficiency

An power plant in Newfoundland, Canada was responsible for 70% of the province's production. However, it faced a critical challenge with its cogeneration boiler, which was becoming less efficient due to significant residue accumulation. When traditional cleaning methods failed to resolve the issue, the client contacted CTP Environment for an effective, timely solution.

The Challenge

The power plant faced two significant challenges. Its boiler featured concrete-like deposits that were resistant to conventional cleaning methods such as dry ice, high pressure jetting and chemical cleaning. Meanwhile, restricted access between the economizer's sections meant that workers would need to crawl to attempt to clean the boiler.

During the shutdown, the water treatment was not running; a temporary water treatment was needed.

The client needed a quick, efficient solution before winter's severe weather made plant shutdowns and cleaning operations unsafe.



Before



After



The Solution

To recover the cogeneration boiler's efficiency, CTP proposed its Neutrol® and Geofloc® solutions. We began by cleaning the boiler with Neutrol®'s double-action process, which focused on the economizer and air preheaters (APH). The effluent produced in this stage was then recovered, treated, discharged and dewatered by the Geofloc® mobile unit. To enhance the efficiency, we provided our internal chemical cleaning for the preheat train (tubular heat exchanger).

The project was completed within just two weeks, before Newfoundland's severe winter weather set in. There were no incidents, accidents or delays.

The Results

Thanks to CTP's unique combination of processes, our team restored efficient operations despite the boiler's limited access and tough residue. Now in its sixth year, this successful client partnership continues to deliver an efficient, reliable annual cleaning.

Discover how [Neutrol®](#) and [Geofloc®](#) can help you overcome the limitations of conventional boiler cleaning methods today.