## **Water Treatment Plant**



This case study was carried out at a:

Water Treatment Plant

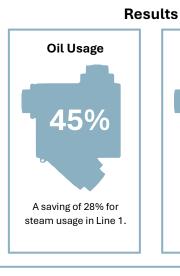
## Study

The Water treatment facility operates 2 sludge drying lines, each requiring significant energy input in the form of steam, supplemented by oil or gas as auxiliary fuels in the incinerator. Line 1 had previously been fitted with brand new fully functional mechanical traps and later swapped for CEELOCs for performance comparison. Line 2 operated with older correctly functioning mechanical traps and had additional operational challenges, such as sludge build-up around the dryer. These traps were replaced with CEELOCs.

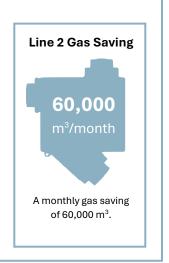
Daily consumption of steam, oil and gas were collected, and the following results were obtained and verified:

- 1. **Line 1** Steam consumption reduced from 3.19 t/hr to 2.28 t/hr equal to approximately 0.9 t/hr reduction (approx. 28% following CEELOC installation).
- 2. **Line 1** Oil consumption reduced from 79.8 L/hr to 43.5 L/hr (approx. 45% reduction following CEELOC installation) due to improved dryer performance.
- 3. Line 2 Significant steam reduction of 1.5 t/hr recorded after CEELOCS installed.
- 4. **Line 2** Gas consumption decrease in lance gas usage of 60,000 m³/month was consistent with improved dryer performance.









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