

Aerovit SC-Jet automated system helps saving € 400.000 by increasing availability.



FJERNVARME FYN Odense, Denmark

The SC-Jet, in combination with explosion cleaning, has allowed us to seamlessly transition from one revision to the next without any downtime. For district heating companies yet to embrace this technology, I highly recommend considering SC-Jet for its transformative impact on plant maintenance and operational efficiency.

- Tommy Mastrup Hansen (Project Manager at Fjernvarme Fyn)



Problem

Fjernvarme Fyn faced challenges with manual cleaning procedures at its waste incineration plant in Odense. Manual cleaning procedures were sporadic and often neglected due to competing priorities.

The company had to halt operations for one week every six months for manual cleaning of the boiler.

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Solution - Aerovit SC-Jet

Fjernvarme Fyn implemented the fully automatic Aerovit SC-Jet system in August, 2023. The SC-Jet system is controlled by a PLC system and was installed at Fjernvarme Fyn's waste incineration plant which produces 15 MWh of electricity and 60 MWh of heat per hour. The boiler was first brought into operation in 1999 and burns approximately 450 tons of waste a day.

Aerovit SC-Jet facilitates cleaning of both the second and third boiler passes within a two-day cycle, optimizing plant cleanliness without excessively cooling the superheaters. This has led to improved boiler performance, as the reduced buildup of deposits minimized the need for unscheduled shutdowns and maintenance downtime.

With the SC-Jet's automated functionality, cleaning became systematic and efficient. Operators can now initiate cleaning cycles with the push of a button from the control room, ensuring daily maintenance without interruptions.

Implementation of SC-Jet, in collaboration with Aerovit, transformed the cleaning processes, leading to significant improvements in plant performance and cost savings. Fjernvarme Fyn seamlessly transitions from one revision to the next without any downtime, ensuring continuous energy production.

The utilization of Aerovit SC-Jet, alongside explosion cleaning, results in savings of € 400,000 for every avoided shutdown of the boiler, encompassing expenses associated with cleaning (€ 200,000) and lost production income (€ 200,000).

Overview

Fjernvarme Fyn stands as Denmark's 3rd largest district heating company, owned jointly by Odense and Nordfyn Municipality. The company operates the largest cogeneration plants on Funen, boasting a workforce exceeding 300 employees.

Renowned as one of Europe's premier heat suppliers, Fjernvarme Fyn is one of the key contributors of the region's energy infrastructure. With a broad service reach, the company caters to approximately 97% of the heating demands in Odense and its surrounding area, catering to over 100,000 residences, industrial facilities, and institutions.



Results

- € 400.000 savings
- Elimination of scheduled cleaning stops between annual revisions
- Systematic and efficient cleaning
- Optimized plant cleanliness without excessively cooling the superheaters
- Improved boiler performance
- Easy operation
- Increased operational uptime
- Decreased maintenance downtime
- Continuous energy production
- No unscheduled shutdowns



Scan the QR code to watch video with how Aerovit SC-Jet performs the cleaning.

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