

Alumichem Helps Rose Poultry Optimize Wastewater Treatment

Rose Poultry, in collaboration with Alumichem, has developed a wastewater treatment solution that saves DKK 350,000 annually and reduces CO₂ emissions. Optimized chemical dosing provides both environmental and economic benefits.

Introduction

Rose Poultry, one of Denmark's leading chicken producers, faced a significant challenge with wastewater treatment at their slaughterhouse in Vinderup. With a daily water consumption of 1,600 m³, efficient water treatment was crucial to both meet regulatory requirements and reduce costs. In collaboration with Alumichem, a leading water treatment expert, Rose Poultry developed a customized solution that reduced chemical consumption and lowered CO₂ emissions.

The Challenge

For several years, Rose Poultry struggled with high wastewater treatment costs while needing to comply with strict environmental regulations. The challenge was to reduce both chemical usage and CO₂ emissions while ensuring effective treatment of wastewater, which contained large amounts of organic matter such as blood and fat from meat production. This required a more advanced and targeted water treatment process.

Alumichem's Solution

In close collaboration with Alumichem, Rose Poultry developed a new water treatment strategy that optimized chemical dosing and tailored the cleaning process to the specific needs of the poultry slaughterhouse's wastewater. Alumichem provided a customized chemical solution that effectively precipitated the small particles in the wastewater, making them easier to separate from the water. By precisely dosing chemicals at the right times and places in the process, the wastewater treatment became not only more efficient but also more cost-effective and environmentally friendly.



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Solution & Results

- Customized water treatment strategy developed in collaboration with Alumichem.
- Annual savings of approximately DKK 350,000 on chemicals.
- Reduced CO₂ emissions through less sludge transport to the biogas plant.
- Compliance with strict environmental regulations for the treated wastewater.
- Economic gains through reduced operational costs and optimized chemical consumption.

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Results

With the implementation of Alumichem's solution, Rose Poultry achieved significant improvements. They now save approximately DKK 350,000 annually by using fewer chemicals in their treatment process. At the same time, CO₂ emissions have been reduced, as the amount of sludge transported to the biogas plant has decreased. The new process has led to both economic savings and a positive environmental impact. The treatment process now ensures that the clean water discharged meets all environmental requirements, supporting Rose Poultry's and Alumichem's shared goal of a sustainable future.

With Alumichem as a partner, Rose Poultry has gained a long-lasting, environmentally friendly, and cost-effective solution for their wastewater treatment, benefiting both the bottom line and the climate.

