

Energy Port Loudden Ports of Stockholm



“ Safety and the environment must be in focus all the time. This is not just talk, it’s our daily mission.”

Niklas Lundkvist,
Head of Energy Port Loudden



Equipment: SCC 400 ATEX
Capacity: 8,000 l/h
Purchased: 2003

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A sustainable future? YES!

Please tell us about your company

Loudden energy port was opened in 1927 and is an important facility for the transport of fuel. Today we have three employees who supervise, repair and maintain the infrastructure which is used by oil companies to import fuel.

What is your focus in your role?

I am responsible for a project to expand facilities for the treatment of oil-contaminated stormwater at the Port of Stockholm. Therefore, for me, operational reliability and compliance with environmental requirements are extremely important.

Why did you start looking at this type of solution?

The Port of Stockholm needed more effective control over cleaning of oil-contaminated stormwater in Loudden energy port. The capability to record and document the process was required as well as safer operation complying with the requirements and stipulations of the authorities. Continuous bacterial growth in the oil-water separator has led to varying amounts of contaminants in the discharged water. Micro-organisms absorb the oil in the water and when they die they sink slowly downwards. Thus they are not removed by the gravimetric separation process but instead show up as hydrocarbons in the water analysis.

Why the final decision to choose SurfCleaner?

SurfCleaner collects and separates oil layers from 0.1 µm and upwards, continuously keeping the water surface completely free from oil and bacterial growth. This does not give the organisms time to start growing and the problem of dead bacteria suspended in the water does not arise. Continuous separation increases the capacity of the gravimetric separation process and avoids the risk of bacterial growth. Previously, when a large volume of oily water was released, the bandskimmer we had was not able to handle it, nor could it meet the stipulated cleaning requirements. Another factor is that when the amount of water in the oil is reduced using SurfCleaner, our cost for the disposal of the oil is lower.

What were your expectations on the investment in SurfCleaner?

We needed additional equipment to clean the oil-contaminated stormwater. SurfCleaner has exceeded our expectations, both in terms of capacity and maintenance. So much so that we no longer need to use the bandskimmer.

What is the result so far?

SurfCleaner has made our daily work easier. In the past we made rounds of the facility measuring and manually recording the levels in the tanks. Now the plant looks after itself and sends an alarm if there is a problem.

The solution performs so well that the results are below the environmental requirement of 3 ppm hydrocarbons in the cleaned water. Another factor is that SurfCleaner reduces the amount of water in the oil, therefore our costs for disposal of the separated oil are lower.