

SINILEVÄSTOP, A Finnish Solution for Blue-green Algae Problems

Saloy Ltd, a Finnish engineering company, is a true pioneer in finding solutions for blue-green algae prevention. The company has been invited to participate in the Baltic Sea Action Summit on February 10 at the Finlandia House in Helsinki. Saloy Ltd is strongly committed to the Baltic Sea rescue program.

Saloy Ltd has developed a method through which the internal load cycle can be interrupted by removing blue-green algae from the water. The harmful algae is removed from the water by using a filter made of special filtering fabric that collects the algae while allowing water to run through.

– Never before has there been a method to remove substantial amounts of algae from the water. Removing the algae is crucial in stopping the cycle of internal load. When you remove the algae, you improve the oxygen levels on the bottom, while collecting algae and phosphorus, the source of eutrophication, says **Tapio Salminen**, Managing Director of Saloy Ltd.

One of the locations, where the Saloy methods have been developed, is Kurala Lake in Rymättylä, in Southwestern Finland. The lake is one of the most heavily blue-green algae infested lakes in Finland.

– Product development at the Kurala Lake proved that blue-green algae can really be removed from the water. Now the time has come to change scale and start removing the algae from larger bodies of water like the Gulf of Finland and the Baltic Sea, states Tapio Salminen. Another area worth studying could be utilising the removed algae in energy production.

Phosphorus runoff through streams can be prevented

– Reduction of internal load of bodies of water through reduction of blue-green algae makes even more sense, when you can stop the phosphorus flow into to the water at the same time. Saloy Ltd offer a solution to this problem as well, says Tapio Salminen.

According to Saloy's experience, blue-green algae presence is highest where the highest amounts of nutrition, or phosphorus, can be found. The presence of algae in different parts of the body of water can be charted precisely through the use of a special instrument, which reacts to the colour pigments of the algae. When high amounts of the algae are present, the phosphorus concentration is charted upstream until the phosphorus source is found. The phosphorus is removed with a precipitation device using ferric sulfate. The precipitated phosphorus can then be removed from the bottom of the stream. Utilizing the precipitated phosphorus as a fertilizer is being studied. A similar method for removing phosphorus from wastewater has been used for years.

For more information, please contact:

Managing Director Tapio Salminen
Saloy Ltd, tel. +358 (0)10 6666 310
info@saloy.net
www.saloy.net

Saloy Ltd

Saloy Ltd is a Helsinki-based engineering company founded in 1978. The company's main focus today is in developing methods for blue-green algae prevention. Saloy is the first company in the world to be able to remove significant amounts of blue-green algae from the water. Many swimming beaches have been cleaned of blue-green algae with methods developed by the company. Saloy Ltd also provides phosphorus precipitation devices for streams and ditches for external load prevention of waters.