



ALGAEFREE Ultrasound System mod. QUATTRO-DB

ELKEM Solar AS, Fiskåveien 100, 4675 Kristiansand, Norway install **ALGAEFREE mod. QUATTRO-DB Ultrasound System** in sea water intake June 2017.

The problem that **ELKEM Solar** has been experiencing, is that we have been plagued with a large amount of mussels in the grates and in sea-water pipes, inside the factory. This caused the water temperature in heat exchanges to increase. As result, frequent and costly maintenance control, including regular cleaning of the pipes and grates was required.

Four months after the installation of **ALGAEFREE mod. QUATTRO-DB Ultrasound System**, a visual inspection of the control suction pool, as well as an examination of other components, to look at whether there was a reduction in the number of mussels.

Maintenance Planning Manager, Gert Ivar Gundersen at **Elkem Solar AS**, said that after the installation almost no more mussels were present. The few mussels that remained, were already dead, as a result of the Ultrasound system. A noted effect, was a reduction of biofilm and algae on the walls, so the mussels can no longer get access to food.

ELKEM Solar AS provided this **ALGAEFREE Ultrasound System mod. QUATTRO-DB**. I am happy to give my approval to be a reference for other businesses that are struggling with the same sea water and mussel problems that ELKEM Solar AS have had.

Contact person for the references: Maintenance Planning Infrastructure by Elkem Solar AS, Norway is Gert Ivar Gundersen

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