

# Environmental Systems

## Environmental Systems Product - Info No. 3

### ESSORP-Technology for oil-disposal-companies



Integration of the **ESSORP-Technology**  
at Bominflot Bremerhaven Tanklager GmbH

In Cooperation with Bominflot Bremerhaven Tanklager GmbH, located in Bremerhaven, the **ESSORP-Technology** is successfully integrated into the existing disposal concept for the collected used oils and sludge oil disposed from the shipping industry.

The goal is the treatment of the collected used oils and sludge oils in a way that approx. the total amount of water and solids will be separated from the collected oils. The treated and cleaned oils will be returned into the economic cycle as substitution fuel oils for the cement and steel industry. To reach this goal successfully, the **ESSORP-Technology** has been installed as a demonstration plant into a 40' Container.



Simultaneously a membrane system for the cleaning of the separated oily water, coming from the treatment process of the used oils and sludge oils, is installed into a 20' Container. This membrane system is in the position to clean the oily water in a way, that the treated and cleaned water can be discharged to the local sewage network system.

Up to 1.000 litre / hour of collected used oils and sludge oils can be recycled with this **ESSORP-Plant**.



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for the treatment and cleaning of used oils



Sludge Oils      Used Oils      Emulsions

Collecting  
& Disposal  
by Bominflot

approx. 47 % oil  
approx. 50 % emulsified water  
approx. 3 % solids

Sludge Oils  
Used Oils  
Emulsions



View into the 40' Container with  
the **ESSORP-Technology**  
for the treatment of sludge oils



View into the 20' Container with  
the membrane system for the  
treatment of the oily water phase



Cleaned oils for sale  
to the cement- & steel-industry  
as substitution fuel oils

Separated & cleaned water to  
the local sewage network system  
oilcontent < 10 ppm