

TREATMENT OF OIL FIELD PRODUCED WATER



PROJECT FACT

Every single day

340,000m³

of water is treated by Oceans-ESU reed beds in Africa

PROJECT FACT

The reed beds are home to

4 endangered species of birds

and countless other creatures!

Oceans ESU Ltd are world leaders in the design and implementation of soil-based reed beds for the treatment of oily waters.

It all started in 1999, when Oceans-ESU were asked to design a trial system to establish the feasibility of using reed beds to treat oil field produced water in the Middle East. A 7,200 m² pilot project was established which showed it was possible to remove hydrocarbons from highly saline waters.

Following this success, Oceans ESU were invited to design a full-scale reed bed system for an African oil field. The resulting system treats 16,000 tonnes of waste water per day, and the clean water is used to irrigate a 400-hectare forestry area. By 2010, Oceans ESU reed beds were installed at 12 oil fields across the region, treating a combined total of 340,000m³ water every day.

Many of these reed beds continue to operate today, providing a valuable clean water resource. The reed beds offer a refuge for wildlife, including several endangered species of birds, which have suffered from the decline of natural wetlands in the area.