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## Emergency Deployment Oxidation System for Contaminated Lakes and Rivers

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**Mapal Green Energy** (Israel), a developer and supplier of waste water treatment aeration systems, announces at IFAT 2014 a new application for its Floating Fine Bubble Aeration technology (FFBA), which provides immediate response for contaminated water. The solution, called **EDOS (Emergency Deployment Oxidation System)** is designed for quick deployment into contaminated rivers, canals and lakes, to remedy critical water oxidation levels. Maintaining water oxygenation after contamination events is usually critical, if wildlife in the water and the surrounding environment is to be protected. The system is also suitable for deployment into waste water treatment plants suffering from lack of oxygen due to equipment failure for example.

The EDOS system can deliver the required oxygen for the biological process in a matter of hours from the time it arrives on site. The system offers specially designed units that are able to float in various water depths and supply aeration into the water at predetermined flow rates This accelerates the biological process whereby bacteria feeds on the polluted water and so allows the rehabilitation of ecological habitats in the water.

The EDOS system can be employed not only in ecological emergency but also in urban environments. In many cases, pollutant spills into a river from surrounding industrial plants and sewage pipes. Installing EDOS systems is a quick and simple way to correct the damage caused by turning the river into an "independent waste water treatment area".

Mapal Green Energy can deploy EDOS within 24 hours in emergencies. The system operates independently of any specialist infrastructure and the technology is suitable for organic pollutants (wastewater that flows into rivers , industrial wastewater and any other threat on water and the environment).

According to **Zeev Fisher,CEO of Mapal**: "Sufficient aeration can tip the balance and make a real difference, preventing loss of wildlife and avoiding long term harm to the environment, which can cost substantial sums of money to correct"

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Fisher notes that the demand for such systems is expected to reach not only in cases of ecological disasters, but also in many cities around the world where rivers run through. These rivers often turn into "sewage tunnels" as various pollutants flow to there. Quick and easy installation of Mapal's EDOS system can clean up the river, eliminate odours and help restore the ecological balance.

Deployed in waste water treatment plants, Mapal's Floating Fine Bubble Aeration system which is at the heart of the EDOS package can bring significant energy savings benefits in its own right. With no moving parts generating friction and driving high energy consumption, the system reduces energy bill as well as operational and maintenance costs, with savings of up to 70%. The floating units leveled from the water surface rather than fixed to the concrete floor of the reactor.

Mapal Green Energy's technology is currently used in the UK by both Thames Water, the UK's biggest water company, and Anglian Water.

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