

# Recycling of production waste water in aquacultures

Based on the experiences with the membrane technology in the system for domestic waste water the Busse GmbH (Leipzig) has developed an innovative system for the recycling of production waste water in aquacultures. After the successful testing of a semi-industrial pilot plant in a fish farming company in Saxony, a fish farming company was won as investor for a commercial industrial complex. The new procedure was applied for the first time. With the help of 1.19 million subsidies by the Free State of Saxony a completely new workshop for brood and seedlings was developed. The new system had to fulfil strict water protection requirements. The sanitary waste water, the sewage of the laboratory as well as the sewage of the floor drainage in the fish farming company are discharged in the receiving water after having passed a membrane filtration. Concerning the energy consumption the new system offers clear advantages. The heating of the production facilities is supported by the use of alternative energy sources as solar heat and cogeneration. The positive effects of germ reduction in the circulation water are further advantages. With regard to export the effluent free technology allows the use in arid areas and under adverse climatic conditions.

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First „carp harvest“ in the research project in a aquaculture in Torgau, funded by the German Environmental Foundation



Pilot project „effluent free aquaculture“ in Thierbach - line of 6 breeding systems



10 circulation systems with „separation“ per membrane technology