



AMEDEUS Accelerate Membrane Development for Urban Sewage Purification (AMEDEUS)

The AMEDEUS project is one of the two co-ordinated projects selected by the European Commission to further develop the technology of membrane activated sludge for municipal applications. This recent invention, commonly referred to as membrane bioreactor (MBR), is already implemented worldwide on a large scale to treat industrial wastewater, and is considered as a key technology to achieve advanced municipal wastewater purification in the future. Compared to conventional technologies, the MBR enables complete disinfection of the treated water, and may lead to superior elimination of trace substances and emerging pollutants.

11 other partners are involved in the project:

- SMEs: A3 GmbH (Germany), Inge AG (Germany), Millenniumpore Ltd. (England), Polymem SA (France) and Envi-Pure s.r.o. (Czech Republic)
- Universities: Technical University of Berlin (Germany) and University of New South Wales (Australia)
- Research centers: Flemish Institute for Technological Research (Belgium) and Tecnotessile R.L. (Italy)
- End users: Anjou Recherche GIE (Veolia Water, France) and Aquafin NV (Belgium)

The long-term vision of the project is to succeed in:

- Reducing both capital and operation costs of the MBR technology in Europe in order to increase its competitiveness with respect to conventional technologies;
- Increasing the share of European companies in the market of MBR plants, in the EU as well as worldwide, while strengthening the European MBR market;
- Facilitating the implementation of the European directive on wastewater treatment, and bathing waters, as well as increasing the potential for non-potable reuse of treated effluent.



The MBR plant of Ile d'Yeu, commissioned in 2000, perfectly integrated in the pristine coastal landscape (courtesy of Veolia Water Systems).



The Schilde WWTP, first MBR plant in Belgium, was commissioned in 2003 (courtesy of Aquafin).

Project subsidised by the European Commission in the frame of the 6th Framework Program (priority „Global Change and Ecosystems“) and co-ordinated by KWB gGmbH

Contact:

Duration: 10/2005 – 09/2008

Project volume: ca. 5,5 Mio Euro (3 Mio Euro subventions)

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