



WATER • ENERGY • ENVIRONMENT



The Art of Water Treatment

- ✓ Development of processes and technologies for **treatment and reuse of wastewater**
- ✓ Mobile **membrane pilot plants**
(MBRs, Microfiltration, Ultrafiltration, Nanofiltration, Reverse Osmosis)
 - Containerized (20") 50 p.e. MBR system, fully automated
 - Mobile membrane units for onsite tests in industry
- ✓ Portable wastewater **auto-sampling and analytical equipment** for wastewater characterization onsite
- ✓ **Eco-innovative** additives for cost saving in wastewater treatment
- ✓ **Initiation of R&D beyond state-of-the-art, implementation of latest international R&D results**
 - Municipal wastewater
 - Industrial wastewater (meat industry, dairy industry)
 - Agro-industrial wastewater (olive oil production)
 - Wastewater from holiday resorts and campsites
 - Wastewater and sewage sludge reuse in agriculture and for production of technical biomass
 - Partners in Europe, Middle East, Africa, Latin America and Asia



Bioazul Tailor Made Wastewater Treatment Solutions



SBR and MBR technology for wastewater treatment in hotels, industries, communities, villages, rural areas, isolated areas

- Standardized units with treatment capacity from 10 p.e. to 100 p.e
- Tailored systems up to 2000 p.e
- Retrofitting of existing plants
- Reference list, SBR and MBR catalogues available upon request

Membrane separation concepts

- Industrial water pre-treatment
- Recovery and recycling of valuable substances and process resources

Dosing stations for wastewater treatment additives


- Fully automated dosing stations for liquid products




Bioazul Eco-Efficient Wastewater Treatment Additives



Eco-innovative additives for municipal and industrial biological wastewater treatment plants

 **LODOred** efficient reduction and control of surplus sludge in biological wastewater treatment plants

- Reduction of surplus sludge production by 30%
- Sustainable reduction of sludge management costs
- Successfully applied in more than 40 wastewater treatmentplants in Spain, Austria, Switzerland, Poland, Sweden, Germany and Hungary

 **NANOred** efficient improvement of Sludge Volumetric Index (SVI) and surplus sludge reduction

- Improves significantly sedimentation performance in wastewater treatment plants with high hydraulic loads and insufficient retention time in the clarifier



Bioazul Consultancy for Wastewater Treatment and Reuse



- ✓ **Wastewater treatment and reuse in agriculture, holiday resorts, golf courts, industrial applications**
Irrigation · fertilization · laundry · technical water · cleaning and washing water
Reference list available upon request
- ✓ **Conversion of obsolete wastewater** treatment plants into highly efficient plants
- ✓ **Optimisation and technical upgrading** of existing biological and physic-chemical wastewater treatment plants
- ✓ **Disinfection technologies** based on ozone or UV
- ✓ **Energy efficiency audits** for wastewater treatment plants
- ✓ **Organisation, preparation and management** of national and international R&D projects solving your wastewater treatment problem





innovation beyond state of art · sustainability
high quality technology · tailored solutions

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