



MEMBRANE TECHNOLOGY FOR

# WATER REUSE APPLICATIONS



# MEMBRANE FILTRATION FOR



## Water Reduction and Reuse through Membrane Filtration

MMS is an innovative company who works closely with our customers and suppliers to create new or improved membrane-based solutions. We have more than 25 years of experience in well-proven, large-scale applications within several sectors, such as dairy, beverage, foods, chemical, and pharmaceutical industries.

Within these industries, there is a continuous drive to reduce and reuse water due to increasing water scarcity. MMS is dedicated to finding novel solutions to support our customers with this journey..



### Sustainable Innovations

All industries are facing challenges that demand innovative and sustainable approaches for reducing water consumption and waste. To address this, MMS has developed innovative technology to for water reuse. MMS can support these needs.



Our commitment to innovation and continuous improvement drives us to develop new technologies and applications that meet the evolving needs of our customers.

MMS has optimized our units to reduce energy consumption. We have developed smart solutions for water recovery and water reuse, and we invest heavily in applied development to ensure that our solutions remain at the forefront of membrane filtration technology.

### Cross-industry Approach

Working across various industries and filtration processes, including microfiltration, nanofiltration, ultrafiltration, and reverse osmosis, gives us a unique opportunity to integrate cross-industry experiences.

Our team of innovative experts actively identifies emerging market trends, ideas, and challenges from customers in the various industries, connecting the dots to enable new processes for our customers.



# WATER REUSE APPLICATIONS



## Embrace the future of water reuse through membrane filtration

Join the global movement towards sustainable water practices, contribute to environmental conservation, and make a positive impact on our planet.



### Pilot Systems & Process Development

MMS specializes in the development of membrane processes. Our goal is to support our customers to establish a complete solution, including technical feasibility studies and cost estimates at an early stage of development.

Through our dedicated membrane laboratory in Zurich, we have helped customers develop 100s of process solutions. Please refer to our leaflets on Lab & Pilot Systems and Process Development Service for more information.

### Membrane Filtration Applications for Water Reuse

APPLICATION	PROCESS	BENEFITS
Condensate water polishing	RO	Recovers low conductive water for reuse
Reverse Osmosis permeate polishing	RO	Recovers clean water for reuse as process water
Biologically treated wastewater reuse	UF-RO	Recovers water for technical water
Wastewater treatment	UF-RO	Recovers water which is difficult to treat biologically
Whitewater recovery	RO	Recovers milk and whey and produces clean water
High-pressure Reverse Osmosis for brine concentration	NF-RO	Recover brine solutions and reduce waste
Salad wash water reuse	UF-NF	Reduces fresh water requirements
Paper factory wastewater	UF-NF-RO	Re-uses water which is complex to treat biologically
Paint wash water	RO	Reduces waste and transport costs







## Why choose MMS

- We offer solutions and guidance for all stages from development through pilot trials to full-scale systems.
- We understand the technology and processes and match them to your needs and requirements.
- We have more than 25 years of experience.
- We are open to new ideas and opportunities.
- We are easy to communicate with in all respects.
- We innovate based on customer challenges and cross-industry experience.
- We are independent and do not represent any specific manufacturers

## CONTACT US

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