

REMONDIS Aqua GmbH & Co. KG

Sustainable water management

The world's most valuable resource – in the safest of hands

Innovative solutions for those constant challenges

When it comes to high-quality water, REMONDIS Aqua is one of the leading specialists. Whether it is an exemplary water supply system, conscientious wastewater treatment or the construction and operation of water treatment plants, REMONDIS Aqua is a competent partner whose experience and expertise you can rely on at all times.

REMONDIS Aqua


REMONDIS Aqua specialises in providing a full range of water management services. No matter whether it involves industrial processes, supplying people and households with high-quality drinking water or treating wastewater, our aim is to develop efficient, innovative and sustainable solutions for every water management requirement of the water industry. REMONDIS Aqua has been working as a partner to local authorities and industrial businesses throughout Germany and internationally for several decades. Local authorities as well as numerous industrial companies place their trust in our sustainable water supply and wastewater treatment solutions. This also includes a smart, networked infrastructure for the city of the future.

Our recycling philosophy

Resource efficiency is our main goal. We are breaking new ground in terms of material flow management. From water extraction to

wastewater treatment, our aim is to conserve natural resources. REMONDIS Aqua develops holistic recycling concepts based on ecological and economic principles to reduce costs and protect the environment in times of raw material shortages.

Over the last few decades, sewage treatment plants have developed into true all-rounders. In addition to treating wastewater, they form a barrier for pollutants, recover minerals such as phosphorus and supply energy. They are therefore making an increasingly important contribution to sustainability and the circular economy. Another challenge, exacerbated by climate change, is the global increase in extreme weather events such as excessive heat, droughts, extreme precipitation and exceptionally strong tropical storms. We support our customers in this ever-increasing challenge with technical innovations. Be it through completely closed water cycles in industry or through digital early warning systems in the area of flood protection.



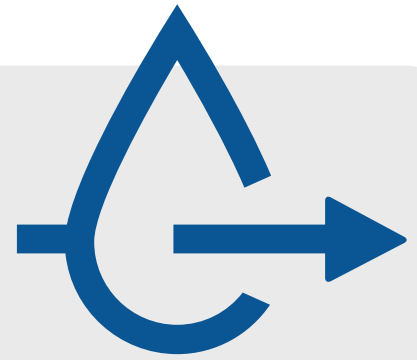
Only 2.5 per cent of all the earth's water resources are fresh water! Therefore, careful and sustainable handling is essential



61 million m³/yr
of processed drinking water



> 100 million m³/yr
of treated wastewater



2.2 million t/yr
of material streams,
incl. sewage sludge



10,300 km
of drinking water
pipe networks



5,800 km
of sewer pipe
networks

Regardless of the scope of the service and the cooperation, we focus on partnership and personal service. This includes customised solutions tailored to the needs of our customers that provide the greatest ecological and economic benefits as well as long-term predictable security.

Municipal water supply

We have been a reliable partner in the field of drinking water treatment for decades and our portfolio covers the entire technical and commercial area of water supply.

- _ water extraction
- _ water treatment
- _ water distribution
- _ infrastructure management

Municipal wastewater treatment

Clear water is a precious commodity. That is why we devote all our energy and experience to wastewater treatment. And we utilise the potential inherent in municipal wastewater, such as energy and raw materials.

- _ wastewater treatment
- _ energy and resource recovery
- _ site drainage
- _ grid operation

Industrial water management

Many companies place the treatment of their process water in our hands. We offer effective, customised solutions and service concepts.

- _ water treatment
- _ industrial wastewater treatment
- _ recycling/process optimisation
- _ REMONDIS Aquatic Mining®
- _ process water management

Sewage sludge recycling

With our expertise and innovative processes for the utilisation of municipal and industrial sewage sludge, we guarantee long-term disposal security.

- _ sewage sludge and residue utilisation
- _ phosphorus recycling
- _ contracting
- _ energy management
- _ co-digestion

Services

We offer numerous services in the field of sustainable water management. All solutions have been developed with operational benefits in mind and have proven their worth.

- _ development and innovation
- _ IT-supported network/plant management
- _ fee management
- _ analytics/laboratory



In addition to flexible partnership models, our customers benefit from digital solutions. Fields of application include intelligent flood protection or the optimisation and planning of systems

Phosphorus recycling secures our future

Phosphorus is essential for all life on our planet. Supplying our agriculture and industry with this valuable raw material, almost 100 per cent of which we have to import in Europe, is becoming increasingly costly due to dwindling resources and the deterioration in raw material quality. As a result, phosphorus from municipal sewage sludge will have to be recycled in Germany from 2029 onwards. The REMONDIS' TetraPhos® process can make an active contribution to phosphorus recovery.

ZLD – the abbreviation for consistent resource conservation

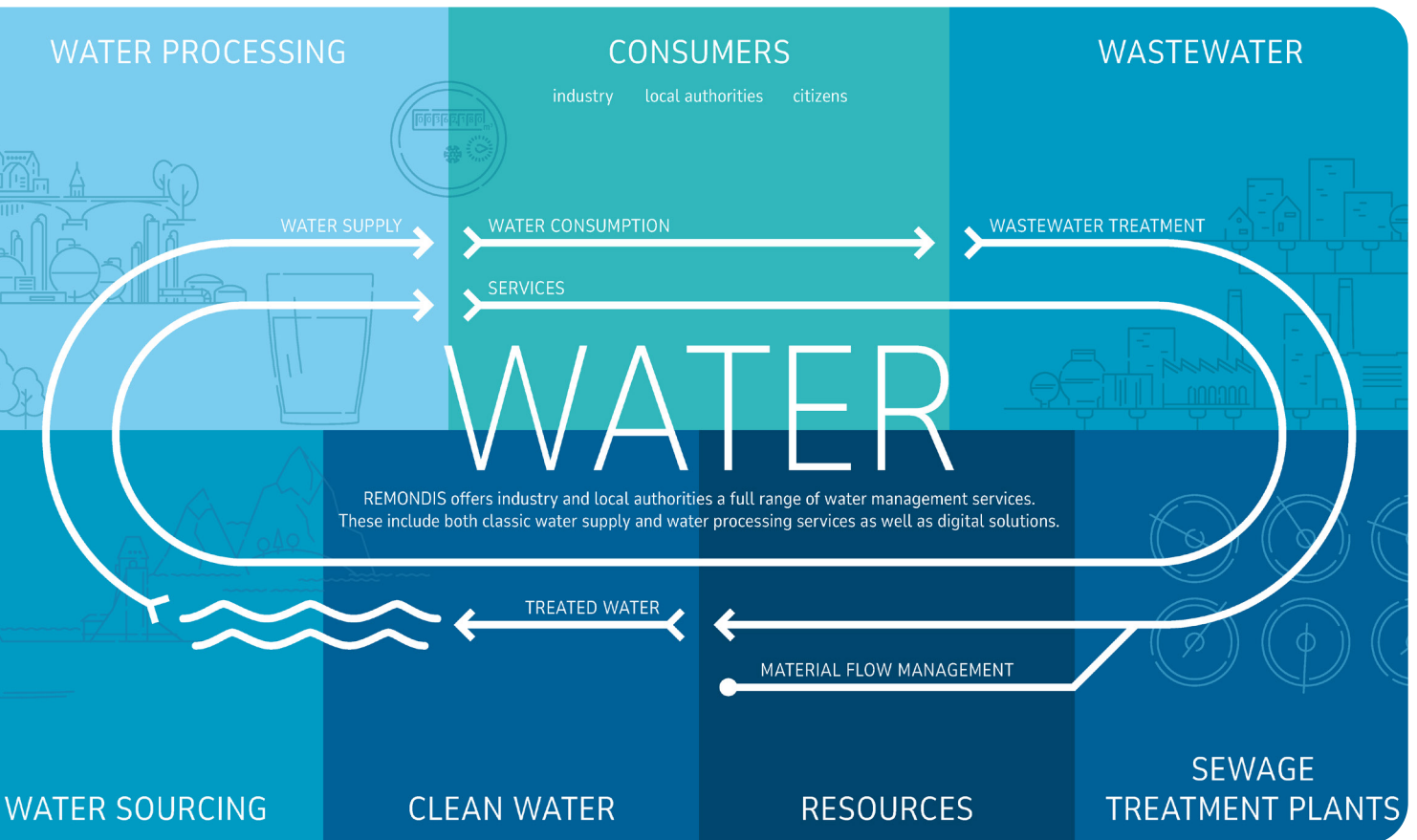
Zero Liquid Discharge (ZLD) solutions help the industry to operate closed water cycles. The result is a completely wastewater-free production. This is based on a closed and independent cycle of water utilisation and treatment, which enables in-house water recycling. With ZLD, water is utilised in the production process, treated and recycled and made available for production again as purified process water. ZLD ensures the long-term competitiveness of industrial plants in countries with water shortages, such as India, and contributes to the sustainable utilisation and protection of water as a valuable resource.

Smart city and smart metering

The Internet of Things (IoT) is increasingly finding its way into municipal and industrial water management and offers completely new possibilities, for example in flood protection. Levels of rivers, canals and retention basins can be transmitted to flood management systems in real time using low-power sensors. In times of climate change with increasing heavy rainfall events, this is an absolute gain – not only in terms of efficiency, but also safety. For example, by transferring them into intelligent models (keyword: digital twin). In addition, the data collected can be used to create hydraulic wastewater models that facilitate the planning of new systems or the maintenance of existing ones.

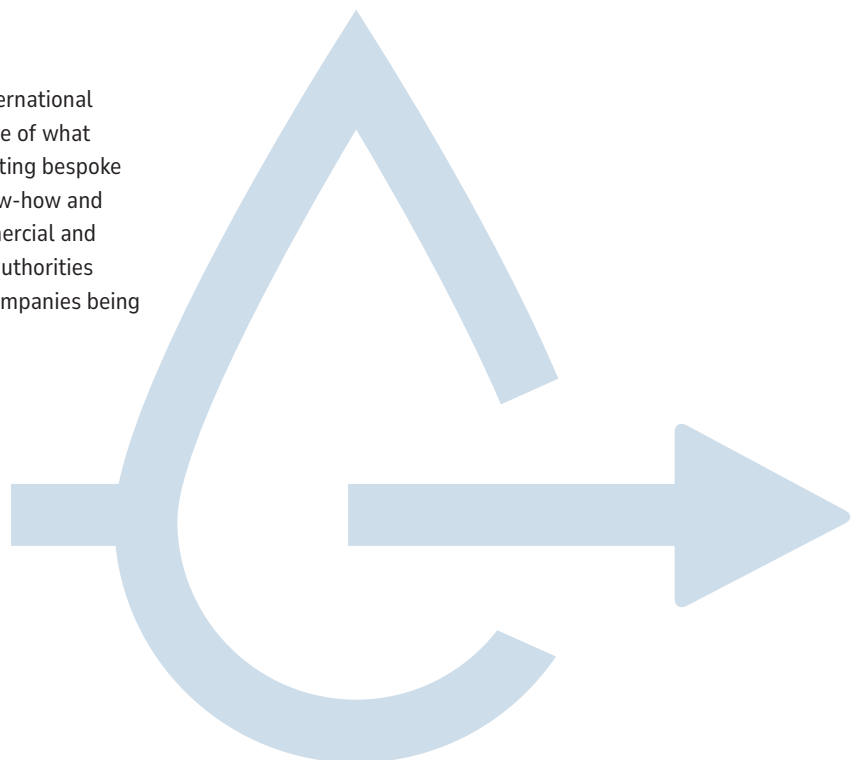
Selected references can be found on our website:





Out of love for water – and good customer relations

REMONDIS Aqua is the company to contact within the international REMONDIS Group for all things water. With a strong sense of what our customers need and wish to have, our focus is on creating bespoke partnerships on equal terms. Thanks to our extensive know-how and wide range of technologies, we are able to cover all commercial and technological aspects of water management. Both Local authorities benefit from this expertise as does industry, with many companies being among our customers and partners.



REMONDIS Aqua is part of the REMONDIS Group, one of the world's leading recycling, service and water companies. The company group has branches and shareholdings in over 30 countries in Europe, Asia and Australia. More than 40,000 employees work here for millions of citizens and many thousands of companies. At the highest level. Working for the future.