

Making water go around

“Clean water for everyone! Our vision is to be a leading provider of compact and energy efficient water and wastewater treatment solutions – ensuring that there is enough clean water in the world for everyone.”

Nordic Water develops and supplies efficient and cost effective water treatment solutions for municipal and

industrial markets worldwide, providing:

- Improved water quality
- Reduced footprint (required area of land)
- Lower energy demand
- The possibility to reuse waste products.



Contribution to the UN Sustainable Development Goals



Clean Water and Sanitation and Life Below Water with leading technology for water treatment and purification.



Nordic Water contributes to the solution of water related challenges by improving the access to clean water and by mitigating the threat of pollution to life below water.

With world renowned technologies for sedimentation, filtration and process solutions, the Nordic Water systems offer water treatment solutions for industries and communities.

The company's filtration technology can for example clean

water from particles, all the way down to a particle size of 0.006 mm, and from phosphorus to levels below 0.1 mg/l, with market leading reliability.

Every day, water treatment facilities with equipment from Nordic Water process and clean more than 20 million m³ of water, corresponding to 8 000 Olympic sized swimming pools.



Sustainable communities with compact water purification solutions.

Nordic Water's water treatment solutions are very space efficient and can be operated in highly populated areas.

Large cities with Nordic Water equipment for water treatment include London, Mexico City, Ho Chi Minh City and Singapore.

The Nordic Water band filters that were installed require 40 m² of space, only 15% of the 270 m² area that would be required for conventional sedimentation tanks.

One example of Nordic Water's compact solutions is the water filtration equipment supplied to Iisalmi, Finland.



Climate action through energy efficient solutions and reuse of waste products.

The efficiency of Nordic Water's water treatment solutions contribute to reduced greenhouse gas emissions.

In Iisalmi, described above, the compact filters enable biogas production from the sludge generated in the filtration process, which has a higher carbon content than sludge from conventional sedimentation.

The technology also saves energy and reduces the need for maintenance.

For example, in Gustavsfors, Sweden, the energy saving

realized with Nordic Water's equipment was 83% thanks to higher efficiency and shorter run times.

In addition, the need for hands-on maintenance was radically reduced. Previously, technicians needed to drive 80 km per day to service the equipment – now it is sufficient with one visit per three weeks, reducing the driven distance only to this plant by 95% or 28 000 km per year.

ENVIRONMENT

Nordic Water has set the target to become a carbon positive company and has initiated a plan to reduce CO2 emissions. The company will start measuring CO2 and energy use during 2019.

In 2018, the Headquarter moved to new and more energy efficient premises with district heating. In connection with the move, several initiatives were taken to create a "sustainable office" – furniture, LED lighting, facilities for recycling, a new IT policy, video conferencing equipment and initiatives to reduce print-outs on paper. The policies for travel and cars have also been updated with focus on reducing CO2 emissions.

GOVERNANCE

In 2018, Nordic Water started the project ISO 9001:2015, to ensure that effective management systems are in place across operations. Certification is planned for November 2019.

The Nordic Water Code of Conduct and Anti-Bribery and Corruption Policy has been updated in 2018 and implemented through information and acceptance to all employees. The Code of Conduct and Anti-Bribery and Corruption Policy is also included in distributor agreements and will be rolled out in supplier agreements in 2019.

No incidents were reported in 2018.

SOCIAL

The Nordic Water Way is a guide to the values, principles and policies that guide the organization in their daily operations and interactions.

The three Core Values are:

- Winning spirit – we go the extra mile
- Engagement – we do the right thing
- Teamwork – we work together for the best solution

There are systematic processes for annual personal development and training plans for all employees and all managers have participated in leadership training. In the beginning of 2019, the company will conduct an employee satisfaction survey.

Employee wellbeing is promoted through healthy and ergonomic

working conditions and annual contributions to preventive health care. Sick leave for NWP AB was 3.3% in 2018, including long term leave.

The supplier Code of Conduct has been reviewed in 2018, for roll-out into supplier agreements in 2019. Most of the company's suppliers are located in countries with low risk for human rights violations and poor working conditions.

KEY DATA	2018	2017
Sales (Reported mSEK)	573	493
EBITDA (Reported mSEK)	26	28
Employees	195	167
Of which female	42	36
Total in Management team	6	5
Of which female	3	2
Management systems (NWP AB)	ISO 9001:2015 planned 2019	
Sick leave (NWP AB)	3.3%	1.3%



Case: Wastewater treatment in Växjö – reducing phosphorus discharge

The Sundet waste water treatment plant, outside Växjö in Sweden, is located in an area with many small lakes and sensitive ecosystems. Historically, the lakes have been exposed to high levels of phosphorus, causing eutrophication - dense growth of plant life and death of animal life from lack of oxygen.

In an effort to reverse this development, very high environmental requirements were set for the new waste water treatment plant, including a maximum level of 0.2mg phosphorus per litre of discharged water.

To meet these requirements, ten Nordic Water DynaSand filters were installed in each run-off area. The phosphorus

Case: Desalination in Dubai with efficient water filters

The world's largest installation of Nordic Water's DynaSand filters has been made in The United Arab Emirates. The filters have an important task in a large desalination plant for seawater in Dubai.

Desalination takes place through reverse osmosis, which requires a very high degree of purification.

reduction process has now reached 98%. The requirement was met with room to spare and the output phosphorus levels are often less than 0.1 mg/l.

The treatment plant has a daily outflow of 28 700 m³ of purified water.

456 DynaSand filters with a combined capacity of 13,500 m³/hour are used to filter out particles from the salt water before it goes into the desalination process.

