Welcome to our latest issue of Footprint

Since our last issue, we have achieved a successful start-up at Westnewton. Our Nereda Package Plant installed at United Utilities’ wastewater treatment works is the first Package Plant in the UK, or indeed, anywhere. Following a remote start-up, early performance results from the plant are positive and we are excited to work with the onsite team to optimise the plant and monitor its performance over the coming months. We are also celebrating our achievement at the Water Industry Awards last month, where the Westnewton project won ‘Wastewater Innovation Project of the Year’. Another award win was for our Nereda project at Wolf Creek for Riveria Utilities, which was awarded a Distinction at this year’s Global Water Awards.

Congratulations to all.

Last year, like many events across the globe, our Nereda Community Days had to be cancelled. Looking ahead to later this year, we are preparing for a new edition of our Nereda Community Days. It will probably still not be possible to meet in person but we are confident, with all the on-line experience that we have now, that we can organize a virtual event that allows us to share experiences and knowledge and will appeal to all of you. We look forward to seeing many of you there, even if there is still the computer screen.

René Noppeney MSc MBA
Global Director Nereda.

Nereda® news, a small footprint with big impact.
Kaumera goes to market

The consortium responsible for the development of Kaumera, NKOP has decided to create the Kaumera Market Hub, which will focus on the development of market applications. A matrix combining functionalities of Kaumera (biostimulant, flame retardant, binding agent, coatings, etc) and market sectors (agriculture, building, paper, chemical, textile, etc) has been defined. The aim this year is to investigate more than 20 promising combinations in order to boost the implementation of Kaumera within the market. In addition, together with Acciona Agua and Águas de Algarve, we are participants in the Water-Mining project, a 19 million euro demonstration project for circular economy initiatives, coordinated by TU Delft and funded by the EU under the Horizon 2020 programme. Mobile demo plants will be built this year in collaboration with GEA and E+H, and tested in the Netherlands (Utrecht WWTP) and Portugal (Faro WWTP).

Royal HaskoningDHV and EPS extend partnership

We have recently awarded water, wastewater and pumping specialist EPS Group an extension to its existing licence to deliver Nereda technology for wastewater treatment in Northern Ireland and Scotland. The partnership will see more wastewater being treated to the highest levels, sustainably, using less energy.

EPS has worked with Royal HaskoningDHV for seven years and has successfully delivered three Nereda installations in the Republic of Ireland, under its existing licence for the technology. The company has also successfully delivered Nereda installations in the UK, at Great Dunmow for Anglian Water, Dungannon for Northern Ireland Water and Inverurie for Scottish Water. All installations are treating the wastewater to the highest levels and the treated water is benefitting both biodiversity and local recreation.
Technology & Innovation

New features on MyNereda

MyNereda is the user community and support platform for the Nereda community. Here clients and partners can benefit from a wide variety of tools and resources. Beyond that, MyNereda is a real digital twin, allowing clients to monitor their plants’ performance remotely in real-time.

Every month new features are rolled out. For example, we have recently introduced several Nereda early warnings based on data collected at the installations. These warnings provide near-real-time insight and enable early action on key potential plant performance issues, and can be customised per client needs.

We also continue to promote technical webinars about the technology tailored to operators’ needs. You can register for upcoming webinars on topics of interest.

We are building on our roadmap to enhance digital twin features. In this context, it is now possible for plants running on the latest versions of the Aquasuite Nereda Controller software, to see on Mynereda (including on the mobile app) the dynamic (digital) representation of the operational process on Nereda Controller in real-time. Last, but not least, we have just released an interactive troubleshooting guide to support operators solving performance challenges.

For further information about new features consult the Mynereda forum or get in touch via MyNereda@rhdhv.com. We’re always eager to receive feedback!

Project Wins

Scottish Water addresses growing population with plant upgrade

We are pleased to announce that we have secured a contract to design a Nereda plant for the upgrade of Scottish Water’s Winchburgh Wastewater Treatment Works (WwTW). The contract has been awarded to meet tighter regulatory standards and provide increased capacity at the plant to accommodate the projected population increase. It is the second plant to incorporate this technology in Scotland, following on from a successful implementation at Inverurie WwTW.

Barry Oliver, Regional Sales Director, EMEA at Royal HaskoningDHV, commented: “This latest contract win strengthens our presence in Scotland and the UK as a whole. Scottish Water was one of the early adopters of Nereda technology, via pilot schemes. It is now a proven and award-winning technology, and we hope to build on this success with future Scottish Water projects”.

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Nereda global training

Despite the pandemic, the Nereda team managed to run a successful virtual global training session in the last week of March. From Monday to Thursday a group of 60 people tuned in every day to follow presentations on everything from A-Z concerning Nereda technology. For some people around the globe, this meant waking up very early, and for others, it meant staying up until very late, so a lot of coffee was needed. We also had the honor of ending the training with a presentation from the founding father of Nereda, Professor Mark van Loosdrecht. All in all, a virtual success, but we will also be looking forward to sitting in the same room in the future.

Mecana and RMU join the Nereda Community

This quarter we welcome Mecana Umweltechnik as a Nereda Preferred Supplier for post-filtration and Rudolf Messner Umweltechnik (RMU) as Nereda Preferred Supplier for aeration diffusers.

Mecana has over 45 years’ experience in the development of tertiary filtration systems. Its patented OptiFiber® material is highly efficient, can handle high throughput and is able to withstand shock loads. The configuration of the filters enables a small footprint and easy cloth replacement. Nereda and Mecana will work together on more integrated solutions for applications with aggressive nutrient and solids removal requirements.

The partnership with RMU also brings many advantages to Nereda plants. Nereda technology can achieve a 50% reduction of energy required compared to conventional systems. However, combined with efficient systems of RMU and existing partner Aerzen, an even more aggressive energy reduction can be realised. Other advantages include its durability, compactness and lifecycle cost.

World Water Run

This year, the Nereda team joined the annual World Water Run to raise awareness around water. Together we ran and walked more than 1000 km in a week!

It became a week full of beautiful nature and city photos from all over the world. Skyscrapers in Singapore, beaches in Europe and lots of dogs to accompany the many kilometers. We posted our efforts on social media as much as possible and hopefully we also contributed to creating more awareness of our precious water resource.

Focus on...

Jan Theron, Nereda key account manager for the APAC region

Jan’s career has been a diverse one! From living and working in South Africa, the UK, and Saudi Arabia, to his current home base in Singapore, Jan has held many roles within the water sector. As such, he brings a global and diverse perspective to the Nereda community. He is currently a key account manager for the APAC region, managing the Nereda licensee accounts for Aquatec Maxcon, JFE Engineering, and Samsung Engineering, and supports strategic expansions for the Nereda technology. One of his favorite parts of being in the Nereda Community is working on diverse projects with a wide range of stakeholders, priorities and business models. Outside of work, he is an active runner – you may have noticed his 70K achieved during the World Water Week event this year! His next feat is to complete an ultramarathon with his brother in 2022!

For more information visit nereda.net