



Total water process solutions -
meeting global business challenges



Global water solutions for sustainable business

Water is essential for life and central to so many industrial processes. From manufacturing to mining and power generation to oil and gas extraction; the supply, use and treatment of water is key to operations and the profitability of your business.

By 2025, it is estimated that the global demand for water will exceed supply by more than 50%¹ with Industrial and manufacturing use accounting for 20% of global water consumption² and with this comes the responsibility to use this valuable resource in intelligent and efficient ways.

Increasing regulation, new sustainability targets, rising water prices and limitations on extraction volumes are forcing businesses to re-evaluate their approach to water use.

¹ World Water Council

² Allianz

The Envirogen Group harnesses innovation to create solutions...

Utilising the optimum technology, know-how in design and engineering matrix enables businesses to reduce, reuse and repurpose their water flows, ensuring that they meet environmental regulations and reduce operating costs, as well as increasing standards of water purity and consistency.

Envirogen is a leading international provider of environmental technology and process solutions for the treatment of water, wastewater, and process filtration.

We deliver innovative industrial water systems through:

- **Expertise** – from the sales team and project managers right through to our process specialists, engineers and in-house installation and commissioning teams, we draw on extensive technical knowledge and experience in water treatment design and engineering across multiple applications and markets
- **Technology** – we develop turnkey solutions to meet our customers' requirements, based around tried and tested, best-in-class, and often patented and proprietary technology. We partner with clients to deliver the most efficient and cost-effective solution
- **Facilities** – our regional manufacturing and distribution centres are ideally suited to the creation of industrial scale treatment systems, with easy transportation links across the globe.

Envirogen provides total solutions for every stage of the water cycle, from incoming water treatment to process filtration and wastewater treatment, water purification, reuse and energy generation. We also offer a comprehensive range of consumable products and full service and maintenance plans. Wherever water is moved through a site, altered or treated, we're there to provide the most efficient solutions.

We operate across a wide range of market sectors including:

- Power
- Food and beverage
- Healthcare
- Industrial and manufacturing
- Oil and Gas
- Mining and minerals
- Pharmaceutical and life sciences
- Chemical processing
- Defence
- Governmental
- Municipal

Our solutions are delivered globally from our regional network of manufacturing and distribution locations that can be found on [Our Locations](#) page.

Total water solutions for the whole lifecycle performance

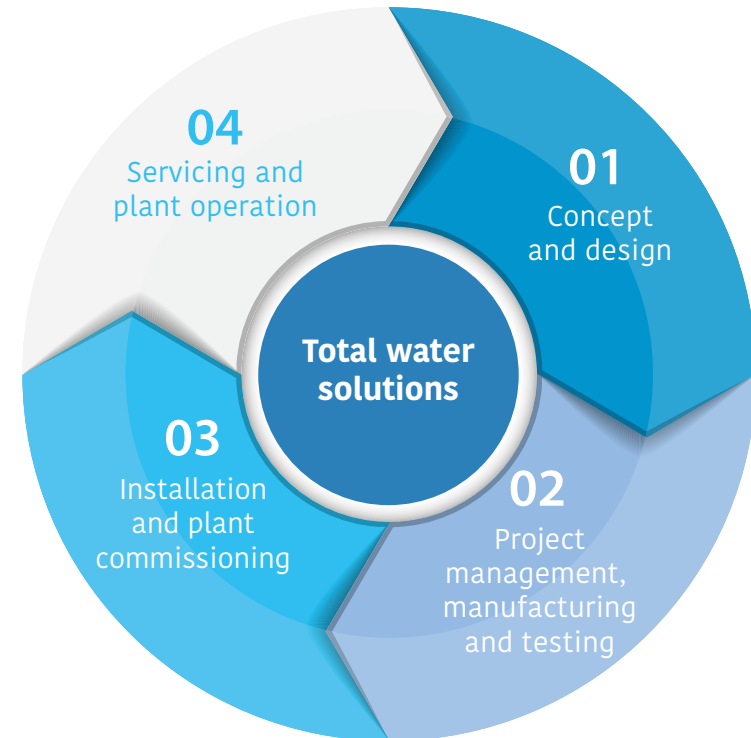
**Design, engineer, build, install, operate, service and maintain –
we are there at every stage of your water process journey**

Stage 1: Concept and design

Every customer has a unique site with different processes, equipment and goals. Our key strengths lie in our ability to interpret our customers' requirements and design solutions to solve specific problems in your individual setting.

Our flexible approach and expertise enable us to draw upon an extensive toolkit of 'best-in-class' components to construct systems that are technically advanced and built to last.

Using advanced 3D modelling software, we design complete plants in the virtual environment to demonstrate proposed layouts and function, giving peace of mind that the system will integrate well into the available space and with existing machinery.



Stage 2: Project management, manufacturing and testing

We pride ourselves on our water know-how and experience. Each project is allocated a dedicated project manager, with extensive product, market and engineering knowledge, to ensure it is completed on time and to budget.

Our state-of-the-art manufacturing centres are the hubs for our construction, assembly and testing functions. Customers are able to view their system as it is being built, oversee testing and complete training. With world class water process experience, you can trust that our engineers are some of the most knowledgeable in the business.



Stage 3: Installation and plant commissioning

With such comprehensive design know-how and extensive testing capabilities, installation and commissioning is an efficient process, having as little impact as possible on your current operations.

Our expert team will ensure that each solution is fully integrated and tested. Full commissioning and training procedures are carried out to ensure that the system is working perfectly and that your team is ready to use the new equipment.

Stage 4: Servicing and plant operation

The correct water processing system will increase your productivity, efficiency and profitability, but to protect your return on investment it makes commercial sense to keep it working well. We know that breakdowns have costly repercussions and that keeping your systems working at their optimum is a necessity. That's why we offer a range of comprehensive service plans to suit every requirement, including call out agreements and inclusive parts for complete peace of mind.

Our distribution centre houses a full stock of cartridges, filters and other consumables for fast next day delivery. We manufacture our own range of long-life cartridges and filters providing quality-assured value for money.



Award winning systems for every stage of the water cycle

We design, build and deliver a range of technologies that meet your challenges at all stages of the water cycle

Stage 1: Incoming water treatment

Incoming water enters the water cycle from multiple sources, including rivers, boreholes, potable towns water, seawater and from industrial sources. As a result, the water quality and composition can be highly variable, requiring flexible and creative process solutions. Our systems are designed to deliver a range of process solutions to meet exact customer requirements. These include:

Desalination

Design, manufacture and construction of multistage membrane systems to treat seawater for production, municipal, and potable water needs.

Groundwater and ash pond remediation

Removal of selenium, nitrate, perchlorate and other contaminants to detectable levels using patented fluidised bed reactor technologies and membrane technologies.

Membrane technologies, including ultrafiltration and reverse osmosis

- EcoSave: eco-friendly, water saving, water softeners
- EcoPure: intelligent short cycle, high purity deioniser systems
- Multimedia filtration solutions including carbon, ion exchange and demineralisation
- Cartridge filtration
- Disinfection and sterilisation, including on demand chlorine production

An Envirogen Fluidised Bed Reactor system. An Envirogen seawater desalination plant.



Stage 2: Process filtration

Consistency, sterility, long shelf-life and clarity are all essential requirements for safe processing. Our solutions deliver reliable results, with the added benefit of water recovery for re-use, that include:

- Membrane technologies, including PureFlow Crossflow Microfiltration
- De-aeration
- Cartridge filtration
- Disinfection and sterilisation, including PureChlor and UV options

Stage 3: Wastewater treatment and waste to energy

Treatment solutions

With environmental pressures to both reduce the amount of wastewater produced and increase the standard of the effluent, reliable treatment solutions are an essential investment. However, systems must be both effective and cost efficient to achieve maximum benefits. Our solutions treat even the most contaminated water and effluent to the standards required for both reuse and discharge.

Conventional wastewater treatment systems include:

- Flow balancing and pH correction
- Dissolved Air Flotation
- Physio-chemical treatment, including coagulation and sedimentation, and direct filtration

Advanced treatment systems include:

- Membrane bioreactors
- Anaerobic and aerobic treatment
- Fluidised bed reactors
- Suspended carrier reactors

Waste to energy

Identifying and utilising fossil fuel alternatives is an increasing global trend. Using the freely available waste products from production as a renewable energy source reduces your organisation's reliance on fossil fuels by generating energy onsite. We offer a range of renewable energy solutions that generate 'free' energy, using only the waste elements from your operational environment, including:

- Anaerobic treatment – the conversion of soluble organic compounds to biogas
- Anaerobic digestion – converting organic solids to biogas

Containerised water treatment systems

We specialise in containerised wastewater treatment systems that integrate conveniently and seamlessly into your existing solution, or as a stand-alone treatment option outside of your existing production setting. Our containerised systems offer a range of benefits that include:

- Mobility – our technologies are manufactured in standard container sizes
- Manufacture and commissioning off-site at our production facilities
- Flexible finance options – you can hire or purchase your solution
- All meeting your target environmental discharge standards.

Containerised water treatment system.



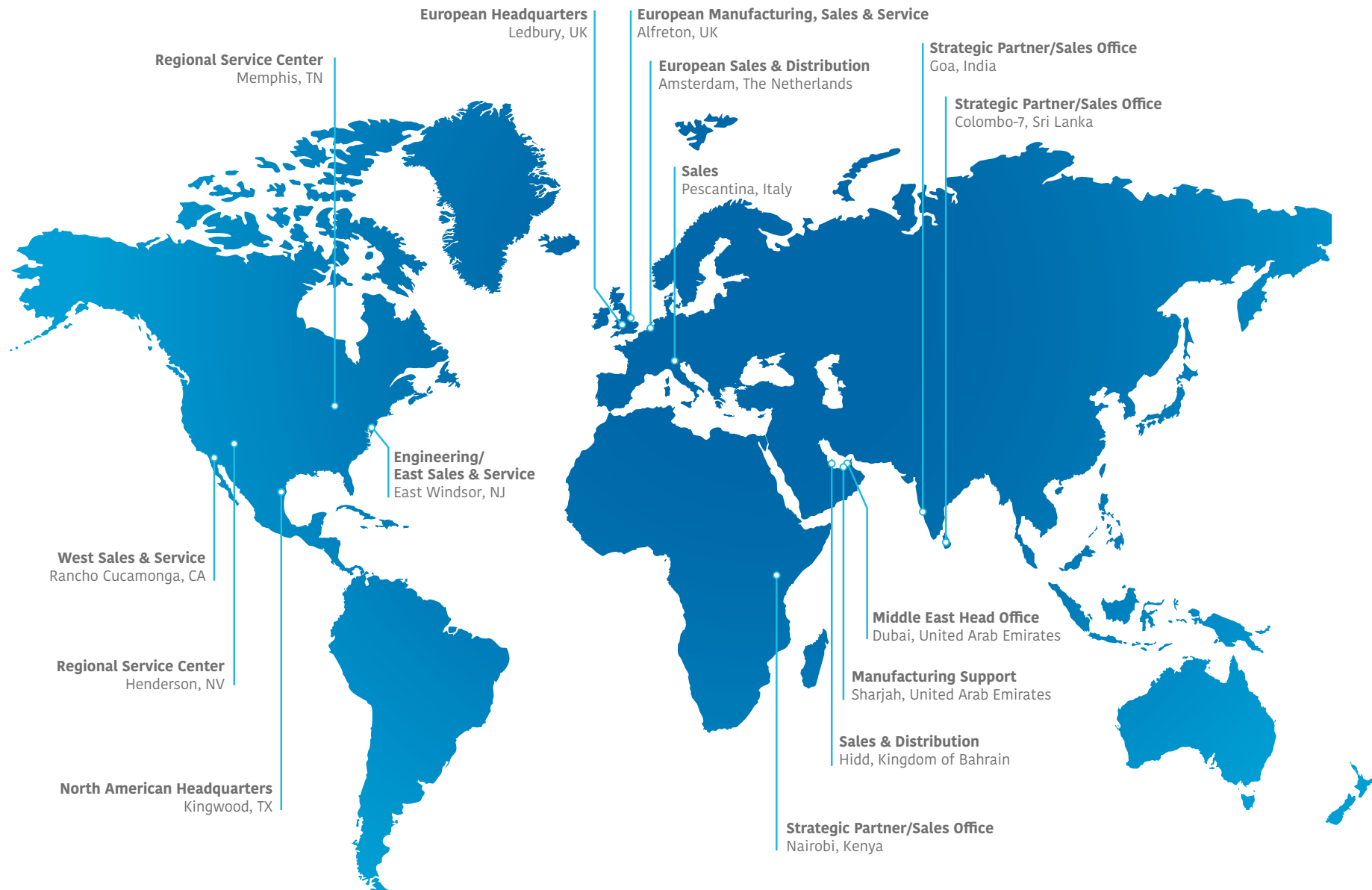
Stage 4: Water reuse and recycling

We take a holistic view of each site, delivering solutions that reduce operating costs, improve performance and save our customers money. Our water reuse solutions ensure that treated and purified water is not lost as a waste stream but recycled back into processes, saving both incoming water bills and discharge-to-sewerage costs.

- Treated Sewage Effluent (TSE) Polishing
- Grey water systems

Our locations

Envirogen has a strong global presence with a network of strategic partners, sales offices and manufacturing centres across the world



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Find out more about the world of Envirogen by
visiting us online at envirogengroup.com



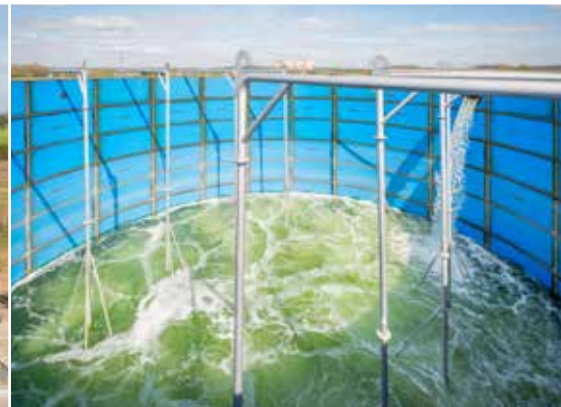
Envirogen has the project capability and engineering know-how to design, engineer, manufacture and install plants across all industries. With specialist knowledge of complex infrastructures such as petrochemical, oil and gas and power generation plants we have the resources and experience to deliver large bespoke solutions. Our high international reach enables local manufacturing and distribution as well as reliable support services.

About the Envirogen Group

The Envirogen Group is one of the global leaders in industrial water and wastewater treatment and process solutions. We solve complex challenges relating to water availability and quality and help our customers to increase productivity, reduce costs and meet environmental and sustainability targets.

We do this through offering:

- Best in class technology
- Expertise in design, project management and engineering
- World class manufacturing capability





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