



Future of Water

↳ Envirosuite (EVS): Water Software

The water sector is facing a future of extremes as increasing climatic events begin to test the resiliency of existing systems – asset owners must be prepared to respond to a higher frequency of droughts, floods and storms in the future.

In response to this complex operating environment, we are harnessing digital smarts, data intelligence and technological innovation to address major design and operational challenges. One real-world example is EVS:Water – a family of software products designed to improve time and cost efficiencies, reduce risk, improve safety and optimise performance.



Introducing EVS: Water

GHD and Envirosuite have an established partnership to bring digital engineering design and predictive analytics to the wider water industry. EVS: Water is a suite of tools addressing both water process design and plant operation optimisation for entire water treatment plants. At present, no other modelling or design tools offer this integrated, whole-of-plant approach.

GHD is a foundation user of this software. Drawing on deep domain knowledge and experience, our EVS: Water specialists ensure that our clients can fully leverage this technology to achieve best possible project outcomes.

A simplified approach to water process design

Within the EVS: Water suite, the Plant Designer software addresses water process design for the whole plant, negating issues such as conflicting spreadsheets, incompatible software and variations in design processes.

Using Plant Designer, design work that historically takes weeks to complete can be finished in a matter of days and outputs are easily integrated into digital engineering and Building Information Modelling (BIM). Teams can model a wide range of scenarios to de-risk challenges such as the impact of drought, flooding, or the use of seawater, brackish water or recycled water.

All information is stored in a safe, secure and controlled environment online, acting as a single source of truth for team members to access at any time, from anywhere. This enables water treatment engineers from different offices, countries and continents to easily collaborate and standardise their design processes. Capturing information in one location also de-risks the prospect of information loss and keeps knowledge within the team.

It's time to move away from treating water as a commodity to be controlled to instead, recognising its intrinsic value as a natural, balanced cycle. To shift to integrated, system-wide solutions, embracing a broader understanding of water's whole, circular picture. To combine engineering and artistry – inventive approaches and original ideas – to deliver truly elegant outcomes.

That's where GHD comes in; to make a meaningful difference, together with our clients. And that's where the Future of Water lies – a future that's ours for the taking.

“We are delighted to be deepening our capability with EVS:Water for the benefit of communities, industry and the environment in the universal field of water management. We recognise the power of this software as a tool that adds significant value to major water projects, and we are excited to be implementing the technology.”

Chris Hertle
GHD Water Market Leader

Optimised operational decisions

Plant Optimiser allows teams to monitor and optimise the performance of their assets. The software mirrors the real-time operations of a water treatment plant, generating insights and plant operation recommendations for better forecasting and improved management of environmental risks.

Plant Optimiser also facilitates accurate decision-making across the entire process train – saving energy and chemical use while reducing the risk of non-compliance events. Ultimately, better performance of the treatment plant will result in an extended asset life through benefits such as the optimisation of membrane life.



Find out more

To request a demonstration
or more information contact
FutureofWater@ghd.com

→ ghd.com/FutureOfWater