



Choose certainty.
Add value.

Water Services – Water Technology Verification

Utilise the full potential of new
water technologies.

Your challenges

The water sector is under increasing pressure from population growth, economic development, climate change and urbanisation. These factors are intensifying water scarcity on a global scale, driving demand for an innovative approach that addresses the inherent energy, cost and performance inefficiencies of existing water and waste water treatment facilities and networks.

Emerging technologies that are increasingly penetrating the water market offer potential solutions for current and future water challenges. However, these technologies present utilities, operators, EPCs and investors with a high degree of uncertainty regarding reliability and comparability. In particular, the need for higher efficiencies and overall sustainability has led to the wide deployment of membranes, sensor systems and other novel technologies. However, in the absence of objective comparative evaluation, stakeholders may risk making poor investment decisions.

What water technology verification services does TÜV SÜD provide?

TÜV SÜD supports the water sector with performance testing and verification services for key technologies and components such as membranes, sensors and water purifiers. These services can be provided in the lab or in the field. Our experts assess long-term performance with regard to membrane stability, sensitivity and reliability of sensor systems, and quality of purification systems.

Why is verification important to your business?

Operators, utilities, investors, end users as well as EPCs and equipment manufacturers can gain confidence in their technologies and investments by having products tested and verified. Our verification services provide comparability and transparency for water technologies. This ultimately identifies appropriate technologies according to the specific requirements.



How can we support you?

TÜV SÜD is an independent and impartial partner that offers technology-based knowledge services across the entire water lifecycle. As a credible third-party testing and certification organisation, we assist manufacturers, operators, suppliers and authorities with our interdisciplinary technical expertise and testing facilities, as well as the TÜV SÜD mark which is synonymous with quality and safety.

Our water technology verification services

■ Performance testing

TÜV SÜD tests sensor systems, membranes and water purification systems to ensure the required quality (reliability, accuracy, precision) of the product; transparency regarding the stated properties and verification of manufacturer statements regarding long-term functionality and performance in the field. We develop protocols that consist of existing standards such as ISO and ASTM, as well as additional criteria and indicators based on the individual needs of our clients' products, systems or processes. Finally, our comprehensive tests based on protocols and standards qualify products and solutions with corresponding certificates.

■ Recording and assessment criteria

We record our testing procedure and results for real-life and long-term performance testing. Based on this, we develop criteria catalogues (e.g. treatability, flux, fouling index in the membrane context) for clients, in order to compare and evaluate new and existing technologies.

■ Optimisation criteria

Based on test results from our labs and in the field, our experts develop individual optimisation criteria according to our clients' systems and needs.

Your business benefits

- **Gain a competitive edge** – by selecting the best technology based on specific criteria catalogues and

standardised testing procedures developed by TÜV SÜD.

- **Work with a professional partner** – and benefit from the state-of-the-art technological expertise of TÜV SÜD, a service provider with decades of experience in the water sector.
- **Enjoy global support** – from our worldwide network of experts who can support you globally with the best local knowledge.
- **Benefit from independence and impartiality** – with a renowned independent third-party testing and certification organisation. We ensure transparency and neutrality for your projects and add value to your organisation.

Why choose TÜV SÜD?

TÜV SÜD has been a trusted partner for water-related services for several decades. Our services help strengthen our clients' confidence in a wide range of technologies and systems. We maintain testing facilities and environmental labs for testing systems for reliability and functionality.

By adopting a holistic and interdisciplinary approach, our services cover all relevant aspects of technology verification, from preparing verification protocols to testing short- and long-term quality and performance through to final assessment. Our water professionals combine international expertise with local knowledge. We take best practices from our German roots as well as our international experience, applying them to the individual needs of our clients around the world.

Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

Related services

TÜV SÜD provides the following related services:

- Water Services – Water Efficiency
- Water Services – Desalination
- Water Services – QA/QC
- Water Services – Risk Assessment
- Water Services – Optimisation