



Choose certainty.
Add value.

Water Services – Quality Assurance and Quality Control

Independent and impartial
services for the total water
infrastructure lifecycle.

Your challenges

With a water supply-demand gap of up to 40 per cent expected by 2030, huge investment is required for the construction and refurbishment of water infrastructure. The Water-Energy-Food Nexus and growing environmental awareness are driving the construction of increasingly complex integrated projects that combine water treatment and re-use, energy recovery, and nutrient recycling. Financiers, investors, owners, technology providers and operators require a feasible, consistent, efficient and sustainable solution that maintains high quality throughout the total asset lifecycle.

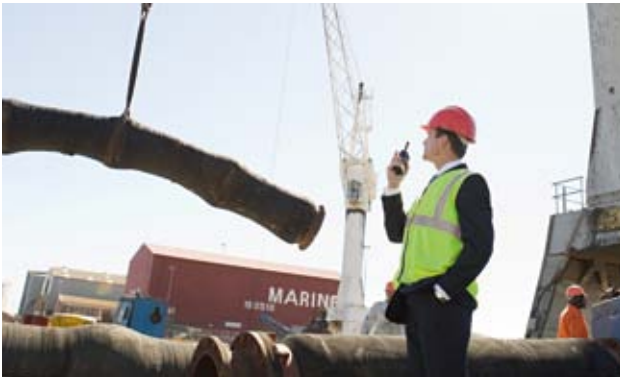
For large-scale infrastructure projects, effective quality assurance and quality control (QA/QC) measures are important for safeguarding budgets and timelines, identifying reliable suppliers, managing conflicts between project participants and ensuring what is planned and built matches the needs of stakeholders. In addition, stakeholders must remain abreast of evolving standards and the changing safety and security landscape.

What QA/QC services does TÜV SÜD provide for water infrastructure?

TÜV SÜD supports clients in developing safe, high-quality water plants and networks in line with their specific technical and quality requirements. Our experts provide QA/QC services throughout the entire value chain, from the early planning stages through the onset of operations up to maintenance. By supporting sound planning, smooth construction and sustainable operations, we ensure water infrastructure is safe, secure, practical, reliable, cost effective and compliant.

Why are QA/QC services important to you?

TÜV SÜD's QA/QC services enable you to maintain full control of your water infrastructure projects. Our experts ensure your plant and network follow national and international requirements for quality and safety. We also help you implement smooth operations within the plant, maintain your system to the latest technical standards, achieve interoperability with the latest technologies, plan and develop projects, and address potential risks.



Our QA/QC services

- **Third-party technical advisory services**
TÜV SÜD supports clients from the early planning stages with proof of concept, assessment of demand and supply network analysis. Our experts provide knowledge services on state-of-the-art technology and assess whether it is appropriate for use. We also develop individual solutions based on user requirement specifications (USR), taking into account potential renewable energy sources and energy-efficient solutions.
- **Design review and design qualification**
We offer services for technical due diligence including testing of functionality, durability, efficiency and security of supply. Our clients also benefit from services for temporal feasibility (critical path), as-is analysis, cost and risk analysis, as well as supplier due diligence.
- **Quality assurance and quality control**
During construction and critical situations, our experts perform testing of installation qualification, provide support for health, safety and environment (HSE) management, account for all relevant issues relating to safety and security, and maintain pre-/post-shipment inspections. We also provide services for fire protection and cost controlling.
- **Final acceptance of construction**
TÜV SÜD supports clients with accompanying of commissioning and final quality assessment of construction and installations. Our experts evaluate operation and maintenance manuals. We also assess actual functionality and efficiency in operation.

Your business benefits

- **Save money** – with guaranteed quality in terms of reliability, interoperability, efficiency, project execution and acceptance.

- **Minimise risk** – by leveraging our expertise and experience to avoid potential problems with safety, quality, system stability, interoperability of technologies and maintenance.
- **Access global support** – with TÜV SÜD’s worldwide network and its commitment to developing the water sector in all key markets.
- **Save time** – with our expert advice from the early planning stages to identify critical paths. This expedites approval processes and avoids revision rounds.
- **Gain a competitive edge** – by applying the most effective and sustainable solutions.

Why choose TÜV SÜD?

As an independent and impartial organisation, TÜV SÜD ensures neutrality and adds value to your projects by providing customised solutions based on your unique needs. We adopt a systemic and interdisciplinary approach that covers all phases of the water project value chain, from planning through to construction, commissioning and maintenance.

Our early project-related integration across the entire value chain minimises the risk of costly rework, project delays and potential downtime and disruptions. With our global presence and local market understanding, we can apply best practices to your water infrastructure projects anywhere in 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 and Asia. 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:

- Civil Engineering
- Water Services – Desalination
- Water Services – Risk Assessment
- Energy Efficiency
- Renewable Energies