A comprehensive approach to nuclear power

End-to-end solutions throughout the entire nuclear power plant lifecycle.
In the face of increasing global energy demand, nuclear power plants (NPPs) need to be efficient and economically sustainable. At the same time, nuclear stakeholders must ensure the utmost safety of workers, the public and the environment. To this end, we support you by providing independent and impartial consultancy, safety assessments and inspections by our experienced nuclear experts according to the relevant regulations and standards. As a renowned independent third-party service provider, we apply international best practices and local knowledge to safeguard NPP operations. Our nuclear experts work closely with national and international bodies, ensuring that our clients benefit from deep insight and knowledge on the valid and applicable regulations and standards in each country. TÜV SÜD's consulting services cover the complete NPP lifecycle, from planning and design all the way up to decommissioning, dismantling and final disposal.

Our experts understand the complex challenges of balancing high availability with safety requirements for nuclear facilities. We enable you to maximise both performance and safety by providing our expertise in assessment, testing, inspection, certification and training.

Ensure safety and reliability at all times

The foremost priorities of the nuclear power sector are ensuring safety while maintaining availability and reliability. TÜV SÜD is ready to serve the needs of stakeholders (authorities, operators and manufacturers) in the use of nuclear power with an independent and objective approach to ensure safety and quality that minimises risk and builds confidence in the use of nuclear energy.

Our renowned technical expertise and in-depth knowledge of the nuclear industry enable our clients to ensure safety, maintain compliance with regulatory requirements, increase availability and improve overall plant performance. We assist you through all phases of nuclear projects, from planning and design through to construction and operation as well as decommissioning.

Providing energy for today and tomorrow

Solve the safety, economic and sustainability challenges of existing and future installations

In the face of increasing global energy demand, nuclear power plants (NPPs) need to be efficient and economically sustainable. At the same time, nuclear stakeholders must ensure the utmost safety of workers, the public and the environment. To this end, we support you by providing independent and impartial consultancy, safety assessments and inspections by our experienced nuclear experts according to the relevant regulations and standards. As a renowned independent third-party service provider, we apply international best practices and local knowledge to safeguard NPP operations. Our nuclear experts work closely with national and international bodies, ensuring that our clients benefit from deep insight and knowledge on the valid and applicable regulations and standards in each country. TÜV SÜD’s consulting services cover the complete NPP lifecycle, from planning and design all the way up to decommissioning, dismantling and final disposal.

Your NPP will benefit from competent support for risk management and safety management. During licensing and commissioning of a new NPP, we provide additional expertise such as licensing procedures, owner’s engineer, feasibility studies and environmental impact analysis. We also provide enhanced safety reviews, reliability assessment, risk management and ageing management during plant operation. During decommissioning, a professional partner is also required to provide support with dismantling and waste management. TÜV SÜD adds value by providing expertise to ensure safety of nuclear facilities and to achieve high availability and reliability.
Your partner for all phases of the NPP lifecycle

As a competent partner, TÜV SÜD supports the complete NPP lifecycle, applying its global knowledge and perspective. At every phase, from licensing until decommissioning, our nuclear experts provide consulting and technical expertise that is vital for ensuring safety, reliability and availability of NPPs.

### Our expertise in national and international standards

- IAEA
- ASME
- NUREG
- KTA (Germany)
- SAPs (UK)
- KEPIC (Korea)
- GOST (Russia)
- RCC (France)
- YVL (Finland)

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Independent and impartial
TÜV SÜD has a strong reputation as an independent third-party technical service provider for regulators as well as suppliers, vendors and operators in the nuclear sector. Our objectivity and impartiality adds value to your services.

End-to-end consultancy
With our comprehensive solution portfolio, we are a one-stop source for nuclear energy consultancy. We provide customised service packages along the process chain throughout the entire lifecycle.

World-class expertise
We operate a team of almost 1,000 engineers and scientists that are highly specialised in the nuclear business, with extensive international experience. Backed by the worldwide reputation and strength of the TÜV SÜD brand, we provide solutions based on best practice case scenarios and support customers as a capable partner.

International presence with local knowledge
We possess global knowledge of regulations and processes in the nuclear energy sector, from the U.S. to Korea and from Finland to South Africa. Our local experts in key markets are trained to deliver a consistent level of premium TÜV SÜD quality that our customers have come to expect from us.

Extensive multidisciplinary experience
Our multidisciplinary team adopts a holistic approach using the full scope of in-depth nuclear knowledge, with technical expertise of licensing, design and construction, plant operation, safety assessment, radiation protection, waste management and decommissioning.

Your business benefits

Minimise risks – TÜV SÜD offers decades of experience in the nuclear sector to help you identify risks in the early planning stages and focus on solutions for mitigation and prevention.

Apply a comprehensive safety solution – We serve as a single source for one-stop services across the entire lifecycle to help ensure compliance with regulatory requirements.

Gain an expert partner – Our clients benefit from our international expertise, backed by extensive working experience and knowledge of regulations and standards.

Benefit from global support – TÜV SÜD has expert staff in numerous international markets, supporting you with the best possible knowledge.

Ensure transparency – TÜV SÜD is a trusted and objective third-party organisation that will help increase confidence and assurance in NPP projects.
Contact us to learn more about our nuclear power plant solutions

www.tuv-sud.com/nuclear
nuclear@tuv-sud.com

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.

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