



Industrie Service

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Near-Surface Geothermal Energy – Your cost-effective solution for sustainable energy generation.

Numerous systems have demonstrated that near-surface geothermal energy offers a cost-effective solution for heating and cooling. The near-surface geothermal layer up to a depth of approx. 400 m and temperatures of 25 °C is an energy source which can be used for the heating and cooling of buildings, technical systems or infrastructural facilities. For this purpose, heat is extracted from subsoil, near-surface rock layers or groundwater. The geothermal energy can then be used by means of probes, collectors or concrete piles. Heat from groundwater is generally used directly by boring wells at shallow depths of up to 20 m below ground level. The water is then pumped up to a heat pump where the heat is extracted.

If professionally planned, the systems pay off after only a short term, as only a small amount of electricity must be purchased to operate the heat pump while the majority of the energy comes from underground geothermal sources.

To find out whether near-surface geothermal energy generation would be a viable alternative in your case, we first prepare a customised energy concept.

Energy efficiency has a positive impact on all aspects of your operations. As TÜV SÜD's experts, we provide interdisciplinary support based on long-standing experience in the plant engineering and energy sector.

Our services

- Preparation of geothermal energy concepts
- Support in approval procedures
- Site investigation, site exploration
- Assessment of project risks
- Heat extraction scheme and planning of your system
- Consultancy and quality assurance during construction
- Planning of plant layout under energy aspects

As the experts at TÜV SÜD, we stand for cost-effectiveness and safety. We offer a high and internationally recognized reputation. Choose an independent partner to support you with technical expertise and interdisciplinary know-how. We will be happy to advise you in more detail and look forward to hearing from you.

TÜV SÜD. Choose certainty. Add value.

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