



The urgency

The urgency of the energy transition is increasing every day. Our CO₂ emissions must be reduced by 55% by 2030 compared to 1990 and 1.5 million households must be gas-free. Geothermal energy supplies CO₂-free heat, and is crucial for making the heat demand more sustainable and contributes to our energy independence. It is a local and essential heat source in the national energy mix of the future and must be scaled up sustainably.

TU Delft, Aardyn, Shell and EBN are taking an important step forward in the energy transition and are installing a geothermal source on the TU Delft campus, under the name Geothermie Delft. This source provides both the campus and a number of neighborhoods in Delft with sustainable heat. A unique project in which research and industry come together at a crucial moment in the energy transition.

A unique place

Geothermie Delft is a unique project in which a sustainable geothermal source is exploited on the TU Delft Campus and at the same time is linked in real time to a major scientific research program at TU Delft. This makes it a unique example project, with which we conduct research into the safe and responsible upscaling of geothermal energy in the built environment.

The momentum

The collaboration between researchers, industry, government and the urban environment of Delft offers a unique opportunity to further develop scientific knowledge about geothermal energy in a complex urban environment. And to put geothermal energy into practice immediately by supplying all residents and visitors to the university campus and a large part of the city of Delft with sustainable energy. It is a unique opportunity for the Netherlands to further develop this necessary technology and innovation. It makes Delft proud because this is an important step towards a sustainable CO₂-free campus and city.



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MAY

- Placement construction fence and bicycle crossing
- Ground works
- Water and electricity installation

JUNE

- Piling

JULY

- Concrete in piling
- Piling curing

AUGUST

- Concrete and asphalt works

SEPTEMBER

- Testwater terrain preparations

OKTOBER

- Conduction installation
- Temporary terrain use preparations
- Rig mobilisation

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NOVEMBER

- Drilling producer well

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DECEMBER

- Welltest producer



About the BLVC plan

BLVC stands for Accessibility, Liveability, Safety and Communication. Geothermie Delft is committed to preventing and limiting nuisance in the areas of accessibility, liveability and safety. By accessibility we mean, for example, traffic safety, traffic nuisance, accessibility. Liveability concerns, for example, noise, light and odor nuisance. And safety is about the risks for people and the environment.

This presentation explains which measures have been taken for the surroundings areas of the GTD project regarding BLVC in the first two phases of the project. By actively involving people, we know their concerns and questions, we can possibly prevent some of the concerns and reduce the experienced nuisance.





Accessibility

- All roads will remain available during phase 1
- In the week of May 23, a bicycle crossing will be constructed for 3 days. For that reason, the cycle path is temporarily diverted
- There is a transport plan including stands for transport and equipment. The main transport route is via Rotterdamseweg. The periods in which intensive transports take place will be bundled
- During the work, underground pipes and cables are taken into account so that any excavation damage is prevented
- During phase 2, the Leegwaterstraat will be closed until the end of the drilling (approx. 5 months) and a safe diversion route for bicycle and foot traffic will be constructed, including signage, lighting and an obstacle-free passage

Liveability

- To prevent noise nuisance, lecture and exam periods are taken into account
- During phase 2, sound-absorbing and insulating cladding will be placed on the construction fences and along the parking garage on the south side of the location
- In order to monitor the possible effects of vibrations, a baseline measurement is done for the homes and buildings in the immediate vicinity (<50 meters)
- Weather is taken into account in connection with dust (dry periods/wind)
- Litter and soil pollution created during work will be cleaned up during daily inspection
- There will be temporary lighting in places where bicycle and pedestrian paths have been diverted



Safety

- Work takes place within the construction fences on the construction site. The construction fences are provided with sound-proof cloth, are lockable and cannot be climbed over
- Traffic supervisors are deployed during the construction of the bicycle crossing for the safety of bicycle and footpath users
- Temporary lighting will be installed where the bicycle and pedestrian paths have been diverted
- There are no blockades for emergency services: facilities, access routes, parking places and fire hydrants remain accessible

Communication

We keep the area as well informed as possible about everything around Geothermal Delft. We do this through:

- Personal contact and information meetings
- Digital newsletters
- Messages on the website

You can register for the newsletter via geothermiedelft.nl

How would you like to be kept informed? Are you missing something? Tell us by sending an email to serge@geothermiedelft.nl