



Subsurface research - exploring the potential for geothermal energy

(Month) 2026

Dear resident/stakeholder,

You are receiving this letter because geophysical surveys will take place in your neighbourhood in the coming weeks. During the surveys, you may feel vibrations or hear noise. This letter explains what this means for you.

The survey is being carried out by SCAN in collaboration with Smart Seismic Solutions (S³). We are mapping the deep ground layers to assess whether they are suitable for geothermal energy extraction. Geothermal energy is a sustainable source of heat for heating homes and buildings.

About the survey

To carry out the survey, we use two methods.

- In residential areas: A vibroseis vehicle, which resembles a refuse collection lorry (pictured on the left), uses a vibrating plate to send sound waves into the ground. It stops every 20 metres to generate these waves (vibro-seismic survey).
- In a field or park: A tractor uses a small drill to place seismic charges at a depth of 20 metres. These are detonated one by one (borehole seismics).



Vibroseis vehicle



Tractor with a drill for borehole seismic surveys

Leave the white and orange ground microphones where they are

During the survey, white and orange ground microphones will be placed in the grass, in fields or on the pavement. These ground microphones are small measuring devices that pick-up sound waves and collect important data. Please leave them where they are. We will remove them once the survey is complete. Scan the QR code on the back of this letter to watch an explanatory video and find out more.



Ground microphone

What you may notice

When the vehicle sends sound waves into the ground on the streets, you may hear quite a lot of noise. This may wake you up. The vibrations may feel like a tram passing by or a heavy lorry driving over a speed bump.

When seismic charges are detonated in a field or park, you will hear a heavy, muffled thud. The vibrations can be felt in the immediate vicinity and sometimes further afield. The intensity of the vibrations depends on the ground and the surroundings. One of our team members will attach a sensor to several building façades. We



use this to check that the vibrations remain within the permitted limits. We ask for your understanding and patience whilst the survey is underway.

Survey work in the evening and at night

Work involving the vibroseis vehicle will take place in your area once or twice over the next few days or sometimes spread over a few weeks. This will happen on weekdays in the evening and at night, between 9.00 pm and 7.00 am. The vehicle may sometimes take a few minutes to park precisely at the measurement point. Generating the sound waves then takes one minute per measurement point. The vehicle then moves 20 metres on to the next measurement point, where the process is repeated.

The detonation of seismic charges in a field or park takes place during the day on working days, between 7.00 am and 11.00 pm, mainly in the evening. In your immediate vicinity, this will last from a few minutes to several hours and may be spread over several days.

The survey is carried out in the evening and at night because there is less ambient noise at those times. The quieter the surroundings, the better the results.

Further information and contact details

For more information, please visit scanaardwarmte.nl/seismisch-onderzoek-west or scan the QR code below. Do you have any questions about the work or are you experiencing any disturbance? Please feel free to contact us at info@scanaardwarmte.nl or call **085 332 7900**.

Kind regards,
The SCAN & S³ team

Scan deze QR-code voor meer informatie op onze website in het Nederlands:



Scan this QR code for more information on our website in English:

