



Image source: [www.one.ro/en/one-lake-district/](http://www.one.ro/en/one-lake-district/)

Project report

**GEROthem<sup>®</sup> DUPLEX geothermal systems**

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One Lake District, RO – Bucharest



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With spectacular views and direct access to the lake, One Lake District offers a unique experience with numerous advantages coupled with modern lifestyles. The development offers an attractive design that meets high quality standards and in which style and functionality create the desired levels of comfort. Ample green spaces, access to the lake and a charming promenade give the area a distinctly natural feel, despite its central urban location. Spacious areas for exercise and sport, along with dedicated play zones and leisure areas for children, support an active lifestyle. In addition, the complex includes its own kindergartens and a school.

One Lake District will be an exclusive residential complex on the shore of Plumbuita Lake. This includes eight residential buildings with over 1,950 modern apartments as well as various service providers on the ground floor. The development will cover about eight hectares of land. These modern apartments combine breathtaking views and a lakeside setting with sustainable construction, innovative design and a full suite of integrated services. The project will include private parking spaces on five levels and benefit from a direct connection to the motorway.



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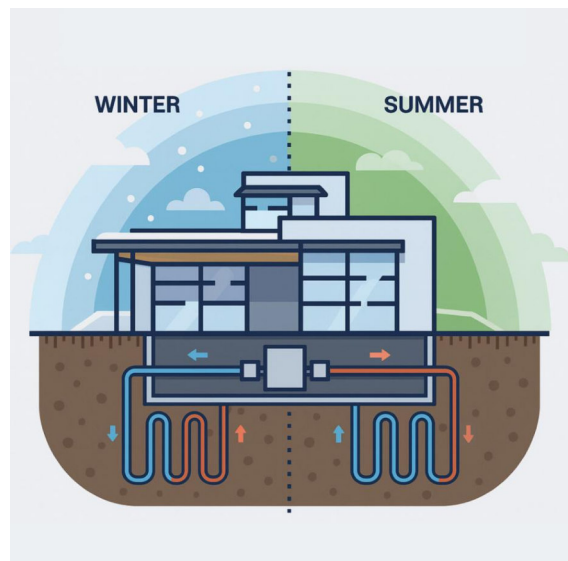
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The client One United Properties places strong emphasis on ensuring the long-term sustainability of its developments. The apartments are certified as green-homes and the CO<sub>2</sub>-neutral office buildings meet the requirements of LEED ZERO carbon. Air conditioning in the buildings is provided by GEROtherm® DUPLEX geothermal probes from HakaGerodur combined with high-efficiency brine-to-water heat pumps.

A sustainable alternative to traditional heating systems: GeoExchange is a modern system that uses the energy stored in the ground to provide space heating and cooling as well as hot water. The technology helps to reduce energy consumption, CO<sub>2</sub> emissions and long-term costs.



The solution is already being implemented in pioneering residential projects such as One High District, One Lake District and One Lake Club and supports the achievement of near zero energy.



Drilling of the geothermal probes was carried out by NISAL Srl. The company based in Medias also installed the connecting pipes, distributors and heat pumps.



Image right: Drilling rig WEI  
Image source: NISAL Srl

## Project details

### Construction site

One Lake District  
Strada Gherghitei 9  
RO-Bucharest

### Client

One United Properties  
One Tower  
Calea Floreasca 165  
RO-Bucharest

### Drilling company

SC NISAL Srl  
Strada A.Iancu No. 4  
RO-Medias

### Products used

- 480 GEROtherm® DUPLEX geothermal probes  
PE100-RC, PN 16, OD 32 mm, length 120 m



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