



Press release  
23 July 2021

## GéoRueil: geothermal drilling for local renewable heat is up and running!

The commune of Rueil-Malmaison has joined forces with ENGIE Solutions to establish GéoRueil\*, a company that will use geothermal drilling to provide predominantly local and renewable heating and domestic hot water for the area's residents in 2022. Geothermal energy will drive decarbonisation in the region, and has great potential for growth in Île-de-France. Rueil-Malmaison has therefore chosen to provide its residents with clean heating derived from an immediately available resource, and has entrusted the geothermal aspects to the know-how of the ENGIE Solutions teams.

Drilling – the first key stage in geothermal energy – involves capturing heat available in the soil layers using a probe. Evaporators in heat pumps then release that heat into the homes and buildings connected to the network.

### A technical operation to deliver an efficient future network

The drilling operation undertaken by the ENGIE Solutions teams will be completed in autumn, and construction of the geothermal power plant will then begin. It will undergo final testing and commissioning in 2022, in parallel with the construction of the heating network, also to be undertaken by ENGIE Solutions.

Once the drilling operation is complete (it will be undertaken in the summer of 2021 to minimise disruption to local residents), Rueil-Malmaison's geothermal power will come from water heated to around 62°C some 1,500 metres below the ground.

Eventually, **65% of the energy fuelling the heating network will be renewable, avoiding 21,000 tonnes of CO<sub>2</sub> emissions per year, equivalent to those of 11,600 vehicles.** An excellent example of a decarbonisation project contributing to the comfort of the residents of Rueil-Malmaison.

The geothermal project and construction of the heating network represent a total investment of €71 million, €19.82 million of which will be funded by ADEME and €5.5 million by the Ile-de-France region.

All the news on the drilling operation and the construction of the geothermal plant can be

found on the Rueil-Malmaison website, in the Rezonee section set up by ENGIE Solutions: <https://www.rezonee.fr/rueil-energie/>

A targeted communication campaign is planned to notify local residents of the site's official launch.

*\* S.A.S ENR (Renewable Energy Joint-Stock Company) GéoReuil. The new company set up to deliver this major energy project is the result of a local partnership between ENGIE Solutions, which has an 88.5% stake in it, and the City of Rueil-Malmaison, which owns 11.5%.*

**The GéoReuil project - key figures:**

- 1,500 m: Borehole depth
- 2,200 m: Borehole length
- 11.3 MW: Geothermal output
- 62°C: Temperature of the water extracted

**Rueil-Malmaison heating network figures:**

- Approx. 25 km envisaged
- 126 GWh heat commercialised per year
- 65% renewable energy supplying the heating network
- 21,000 tonnes of CO<sub>2</sub> emissions avoided per year, equivalent to those of 11,600 vehicles
- €71 million investment

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**About GéoReuil**

GéoReuil is an SAS EnR (Renewable Energy Joint-Stock Company) dedicated to the construction and operation of geothermal energy in Rueil-Malmaison. ENGIE Solutions has an 88.5% stake in it, and the commune of Rueil-Malmaison owns 11.5%.

**About ENGIE Solutions**

ENGIE Solutions supports cities, industries and service companies in achieving their transition towards carbon neutrality, helping them to consume less energy, and energy that is greener and carbon free. ENGIE Solutions is the focal point in France for ENGIE Group's expertise in heating and cooling networks, on-site electricity and heat production (photovoltaic and combined heat and power), carbon-free mobility (electric, bioCNG and hydrogen), public lighting and operations/maintenance services, and energy efficiency. ENGIE Solutions has more than 15,000 employees in France and a turnover of €4.9 billion.

To find out more, visit [www.engie-solutions.com](http://www.engie-solutions.com)

**About the City of Rueil-Malmaison**

Rueil-Malmaison has an area of 1,454 hectares, making it the largest commune in Hauts-de-Seine. Its 12 villages are protected areas in a region divided into thirds - one third consists of residential suburbs, one third of collective housing or offices and one third of green spaces. This composition makes Rueil-Malmaison an "eco-town", encouraging the development of a very special environmental conscience. Its wide range of cultural and leisure facilities (museums, regional conservatoire, sporting events) and economic dynamism (town centre retail

shopping and headquarters of large international groups) make Rueil-Malmaison a town that is great to live and work in.

### **About ADEME**

At ADEME - the Agency for Ecological Transition - we are firmly committed to combating climate change and degradation of resources.

On all fronts, we mobilise citizens, economic players, and regions, empowering them to move towards a resource-efficient, carbon-free, fairer, and more harmonious society.

In all areas - energy, circular economy, food, mobility, air quality, adaptation to climate change, soils, etc., we advise, facilitate and help finance many projects, from research through to solution-sharing.

At all levels, we put our expertise and forecasting ability at the service of public policy.

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\* ADEME is a public establishment under the joint oversight of the French Ministry of the Ecological and Solidarity Transition and the French Ministry of Higher Education, Research and Innovation.