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## **GéoMarne Inauguration: 82% renewable heat from geothermal energy resources on the horizon for the Paris - Vallée de la Marne urban agglomeration**

Guillaume Le Lay-Felzine, President of the Paris - Vallée de la Marne agglomeration local authorities, Aurélie Lehéricy, Deputy Managing Director of ENGIE Solutions, Angela Pascoa Dos Santos regional advisor of the Île-de-France Region and Jérémie Almosni, Director of ADEME Île-de-France, today inaugurated the Champs-sur-Marne geothermal power plant. The power plant and its network took two years to build and will supply the area with zero-carbon heat, 82% of which is sourced from geothermal energy.

The equivalent of 10,000 homes in Noisiel and Champs-sur-Marne will benefit from this solution providing heating and domestic hot water. The project complies with the requirements of the regional climate, air and energy plan “*Plan Climat Air Energie Territorial*” which was adopted unanimously by the elected representatives of Paris-Vallée de la Marne on 30 September 2021 and will facilitate the region’s transition to carbon neutrality.

### **Renewable, locally produced heat**

GéoMarne, a local ENGIE Solutions subsidiary, created a geothermal power plant with a 19 km heating network and is contributing to developing renewable energy in the area.

The geothermal energy is derived from recovering naturally hot groundwater at a depth of 1,900 m. The water is drawn at a temperature of 70°C in Champs-sur-Marne itself. The heat exchanger located inside the power plant transfers the heat from the geothermal water to the primary heating network, which supplies substations at the foot of the plant. The heat is then transferred from the primary network to the secondary network (inside buildings) enabling users to benefit from heating and domestic hot water. Several housing units, public and tertiary buildings will benefit from this heating solution, including the water park currently under construction in Cité Descartes, Champs-sur-Marne.

Geothermal energy is a local and inexhaustible resource with a virtuous production cycle. Its development therefore contributes to generating a more sustainable energy mix and the GéoMarne project allows for energy savings amounting to 25,000 tonnes of CO<sub>2</sub> per year.

## **A local project supported by ADEME and the Île-de-France Region**

This €40m project received funding from ADEME, the French agency for ecological transition, and the Île-de-France Region totalling €10m, i.e. 25% of the total investment cost. As part of its local community-based approach, ENGIE Solutions opted to use crowdfunding to raise funds for the GéoMarne project at the end of 2019, when the drilling of the geothermal well commenced. It represented the opportunity to open this virtuous project up to locals from Paris-Vallée de la Marne and, more widely, to the inhabitants of Île de France.