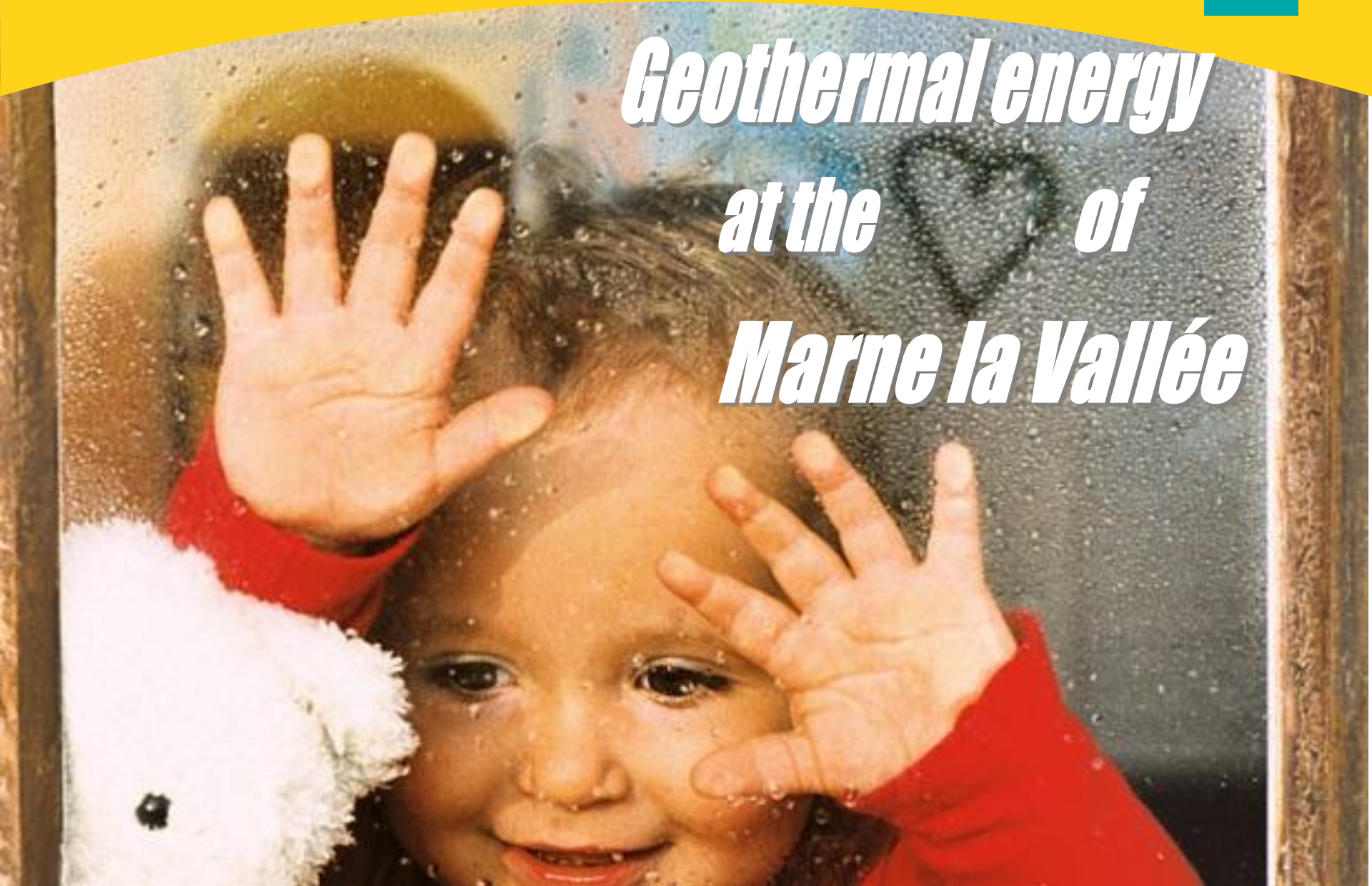
VAL MAUBUEE

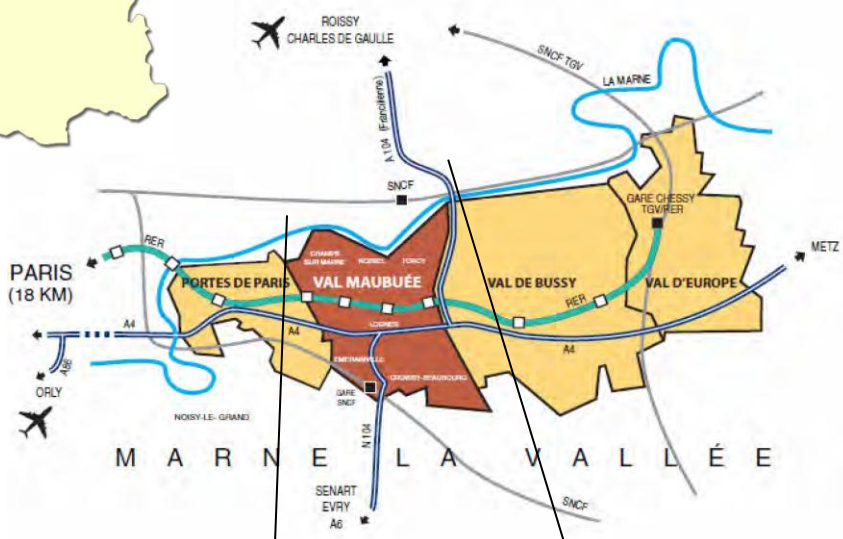
CHAMPS SUR MARNE – CROISSY BEAUBOURG – EMERAINVILLE - LOGNES –- NOISIEL – TORCY

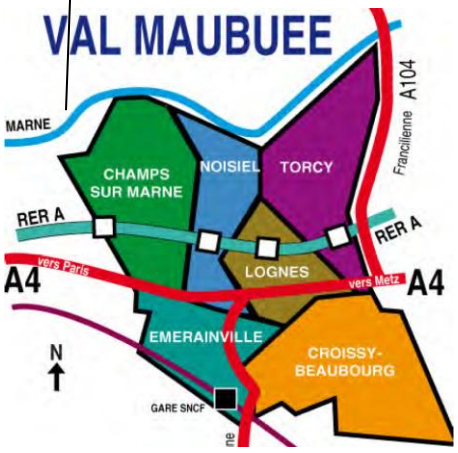
SAN AGGLOMÉRATION DU VAL MAUBUÉE

Geothermal energy at the ♥ of Marne la Vallée



LOCATION





- Val Maubuée: second sector of the new town of Marne La Vallée, built in the 1960s in the east of Paris.

- 6 municipalities, all members of an inter-municipal cooperation body called the *Syndicat d'agglomération nouvelle* (SAN) of Val Maubuée.

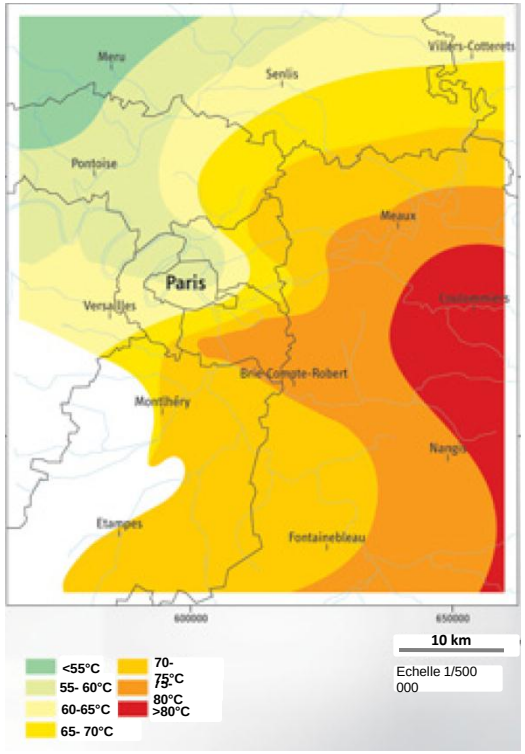
- The SAN is in charge of the public urban heating network which serves part of the municipalities of Lognes and Torcy.

GEOTHERMAL ENERGY IN THE PARISIAN AREA

High temperature geothermy (>150°C)

Low and medium temperature (between 30 and 90°C and between 90°C and 150°C)

Low temperature geothermy (<30°C)



Temperatures map of the Dogger aquifer

- Ile-de-France is one of the best regions in France for the exploitation of geothermal energy.
- Above a vast underground water table known as the Dogger aquifer which lies at a depth of 1,900 metres below ground level.
- The administration of Val Maubuée chose geothermal energy as the solution for its urban heating network.
- Dalkia was chosen to implement the switchover to geothermal energy and is responsible for the installation and maintenance of the geothermal heating network.

KEY FIGURES FOR VAL MAUBUEE NETWORK

- Drilling depth of 2,100 metres
- 6 months work, with 45 days for drilling of each well (24/7)
- €15 million investment
- Water extracted at a temperature of 74°C at a rate of 250 m3 per hour

- **Geothermal energy meets 85% of the heating network's requirements**
- **~5,000 equivalent housing units served**
- **Annual reduction of CO2 emissions: over 9,000 tonnes**
- **reduction in heating bills for subscribers - possibly as much as 30% depending on subscribed demand**

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