

FR, Aéroport de Paris - Orly



General

Description: Coulommiers choose to largely develop geothermal district heating in order to ensure a stable and competitive energy price to citizens, to use local resource and reach a good level of comfort. The heat is extracted at 1.5 km depth in the aquifer called Dogger. The district heating supplies around 3000 housings.

Owner	Aéroport de Paris (ADP)	Operator	Aéroport de Paris (ADP)
Region	Ile-de-France		

Project

Inhabitants connected	Airport Heating and sanitary water	Design of the DH	Water based with pre-insulated pipes
Others uses (drinking water, cascade uses...)	No	Production of heating and/or cooling	Heating + Sanitary Water
Planning of the operation (from pre-studies to full completion)	/	Dates of beginning and end of construction	2008-2011
Administrative permits	French Mining Code Arrêté interpréfectoral du 26 mai 2011	Difficulties faced	/
Comparison with fossil energies	Spared CO2: 8200 t/year /		

Financing

Investment for geothermal well	9M€ for the doublet system	Investment for geothermal heating station	/
Investment for DH network and substation	Not part of geothermal plant	Financing (banks, funds, PPP...)	Banks, Funds, "Fonds Chaleur"
Amount of Subsidies if any	27,4%		

Technical

Installed capacity (MWth)

135 MWth

Operating Temperature of the DH

max temperature 105°C

Geothermal flow rate

300 m³/h

Innovation if any

The use of absorption heat pumps driven by straw district heating boiler, which makes it free to drive the heat pumps.

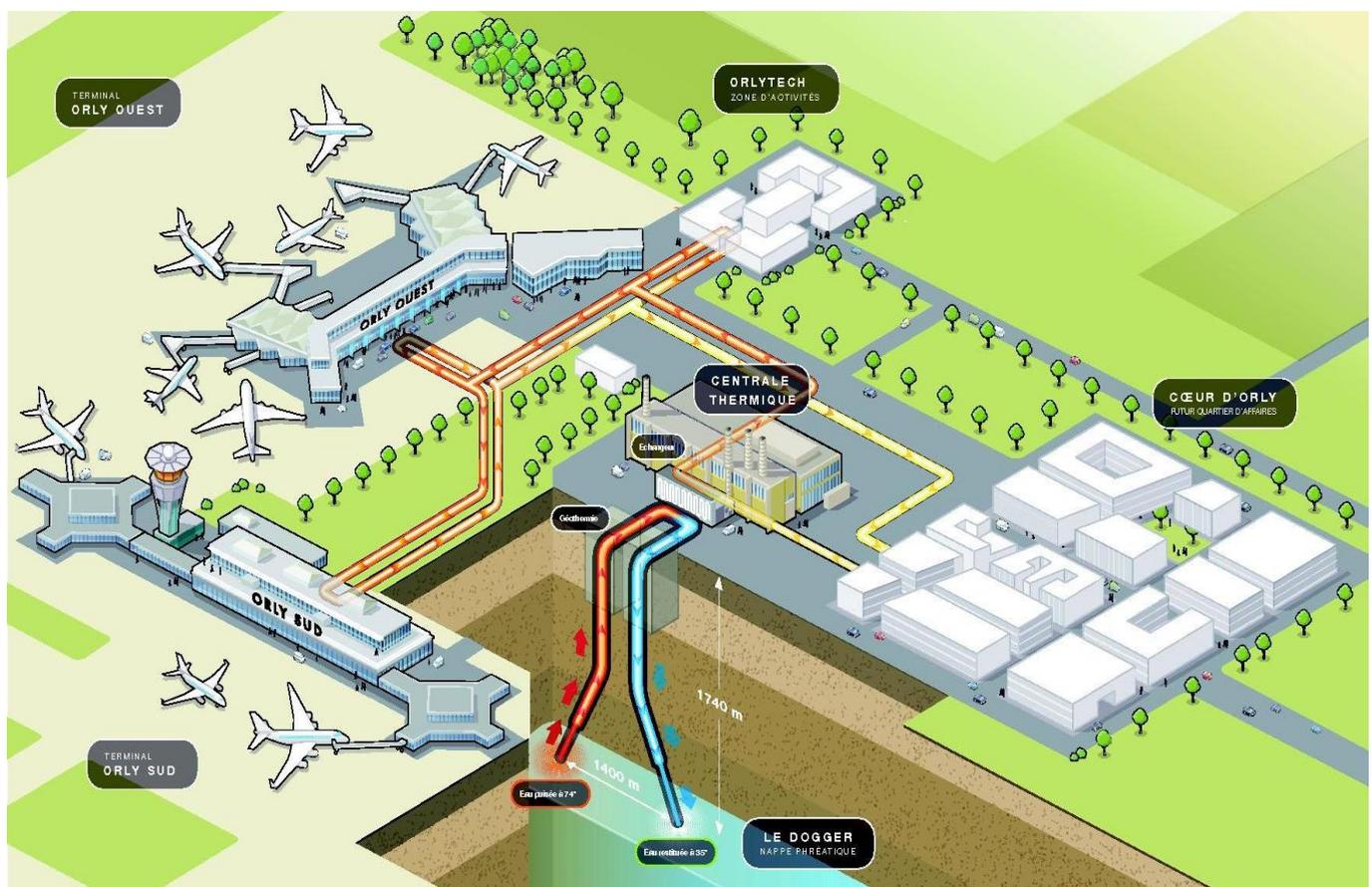
Temperature of the geothermal resource (production - injection)

74°C - 40°C

DH Length

35 km (108 sub-stations)

Doublet scheme: couple of production and injection wells



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