

## PRESS RELEASE

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# Inauguration of Bagneux geothermal network

**After two and a half years of work, the Bagéops heating network in Bagneux on the southern outskirts of Paris is now up and running. Nearly half of the people living in Bagneux and a significant number of Châtillon residents will benefit this clean, local energy source as of autumn 2016. The project reflects the resurgence of geothermal energy in the Ile-de-France region.**

The towns of Bagneux and Châtillon chose to commit to an ambitious, long-term project to build a heating network supplied by geothermal power as part of the drive to support the energy transition and deliver energy to residents at competitive rates. The two municipalities implemented the project through an intercommunal association known as Syndicat Intercommunal de la Périphérie de Paris pour les Énergies et les Réseaux de Communication (SIPPEREC). Following an invitation to tender, Dalkia was awarded the public service concession contract to build and operate the network through its subsidiary Bagéops <sup>(1)</sup>.

The municipality of Châtillon borders Bagneux and chose to green its existing heating network by connecting it to the Bagéops system.

It took two and a half years—from November 2014 to June 2016—to create a completely new heating network and related facilities. Work included drilling down to the Dogger aquifer, 1,800 metres below ground, building the geothermal plant, laying the underground heating network, installing two heat pumps to boost capacity, and providing a connection to the existing Châtillon heating network. The project brings geothermal heating to the equivalent of more than 10,000 homes in Bagneux and Châtillon as of autumn 2016.

Bagéops, the concession holder, has invested a total of €38 million in the project, with 20% of financing provided by the heat fund set up by the French environment and energy management agency (ADEME) and the Ile-de-France regional council.

The project meets a number of environmental, economic and social goals:

- **Environmental benefits:** the new geothermal network will prevent more than 15,000 metric tons of CO<sub>2</sub> emissions each year, the equivalent of taking 5,000 cars off the roads;
- **Economic benefits:** the Bagéops project reduces costs and heating bills in the medium and long term, and because the network derives more than 50% of its energy from renewables, users benefit from VAT of just 5.5%;
- **Social benefits:** the new Bagneux heating network will supply more than 75% of social housing in the area as part of a tangible outreach initiative to tackle fuel poverty, a problem that affects an increasing number of families as a result of the rising cost of fossil fuels.

(1) Bagéops: "Ba" for Bagneux, "Gé" meaning earth in Greek and "Ops" meaning wealth in Latin.

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*"Geothermal energy provides a response to key environmental and social challenges in Bagneux. The energy gives us a means to tackle the problem of climate change through a solution that emits no greenhouse gases. It also provides us with a new way to offset fuel poverty by offering families inexpensive energy at stable rates. All of this reflects our goal of continuing to build a modern, sustainable town that promotes solidarity. A town that offers a better life for everyone."*

**Marie-Hélène Amiable, Mayor of Bagneux and Departmental Councillor for Hauts-de-Seine**

*"Châtillon is a town with a clear sustainability policy that is committed to geothermal energy as part of an inventive, long-term approach."*

**Jean-Pierre Schosteck, Mayor of Châtillon and Vice-Chairman of the Vallée Sud Grand Paris intercommunal association**

*"SIPPEREC has also demonstrated successful synergy in developing an environmental project for the region and its people. This local, renewable energy production was made possible through a public-private partnership, which is vital for such complex projects."*

**Jacques J.P. Martin, SIPPEREC Chairman, Mayor of Nogent-sur-Marne and Chairman of the ParisEstMarne&Bois intercommunal association**

*"Bagéops is a shining example of the drive to use local energy sources, which is a cornerstone of our strategy to help customers implement the energy transition policy."*

**Jean-Michel Mazalérat, Chairman and CEO of Dalkia**

#### **Bagneux**

Bagneux is a dynamic, working-class town three kilometres south of Paris, at the heart of major metropolitan projects. In line with key initiatives underway in the south of the Greater Paris region, including the area in and around the Bièvre Science Valley, the town is unfolding a number of urban development programmes. Examples include the Victor Hugo eco-district and integrated development zone (ZAC) around new stations on line 4 of the Paris metro and line 15 of the Grand Paris Express rapid transit line, urban renewal in the north of the city, renovation of the Mathurins site housing the French Defence Procurement Agency (DGA) until 2016, completion of the urban renewal initiative for the southern district, and work to expand the Moulin Blanchard industrial estate into an integrated development zone. The town is also pursuing its goals through the Vallée Sud Grand Paris intercommunal organisation established in 2016 through a partnership between local authorities in Clamart, Malakoff, Fontenay-aux-Roses, Hauts-de-Bièvre and Châtillon-Montrouge. Sustainable development is a key priority in Bagneux, especially with regard to promoting renewables and tackling fuel poverty. The 2016 completion of the district heating network drawing energy from the earth was a key part of this strategy.

<http://www.bagneux92.fr>

#### **Châtillon**

Châtillon is an attractive, dynamic town on the outskirts of Paris. It has grown to accommodate new residents and attract a number of companies through a sensible, balanced approach to urban planning that protects quality of life. In 2016, Orange built an "eco-campus" in the area spanning 71,600 square metres including offices and services for nearly 4,000 employees. Line T6 of the Paris tramway and ongoing construction for the Grand Paris Express rapid transit system ensure an efficient, modern transport system for Châtillon. Jean-Pierre Schosteck has been mayor of Châtillon since 1983. The former senator and deputy is also Vice-Chairman of the Vallée Sud Grand Paris association established on 1 January 2016. Environmental protection spearheads municipal initiatives. In 2006, the local authority embarked on a policy of "eco-responsibility", offering residents a range of schemes to reduce waste and prevent needless energy use. The move to connect Châtillon to the Bagéops network to replace the Cocharec system is further proof of the town's commitment to developing clean energy, curbing CO<sub>2</sub> emissions and reducing household energy bills.

<http://www.ville-chatillon.fr>

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## **SIPPEREC**

SIPPEREC is a local public body comprising 112 local authorities in and around the Paris region. It works to support, advise and assist its members in implementing public policies in the fields of energy and communications to improve the quality of local public services. It is the first port of call for communities seeking to promote renewable energy, including solar and geothermal power. SIPPEREC has also been a renewable energy producer since 2006, managing 64 solar arrays and four geothermal projects (Arcueil/Gentilly, Bagneux, Rosny-sous-Bois/Noisy-le-Sec/Montreuil and Grigny/Viry-Châtillon). In December 2013, SIPPEREC created the public-private partnership SIPEnR to pursue projects promoting the use of renewable energy, especially in integrated development zones with the support of private partners. SIPPEREC is scheduled to conduct geothermal studies in Épinay/Villetaneuse and Drancy/Bobigny in the near future. Since May 2014, the association has been chaired by Jacques JP. Martin, Mayor of Nogent-sur-Marne and Chairman of the ParisEstMarne&Bois intercommunal body.

<http://www.sipperec.fr>

## **Dalkia: leading energy savings in France**

Dalkia, a subsidiary of the EDF group, is one of the leading providers of energy services in France. Dalkia offers its clients tailor-made solutions scaled to fit each building, city, municipality, region and industrial site. Dalkia rises to the challenge of the energy transition and provides its clients with expertise covering the entire energy chain, from energy supply to optimisation of their energy consumption, as well as operation and maintenance of installations. All Dalkia's solutions are paired with energy efficiency commitments and long-term performance guarantees.

<http://www.dalkia.fr/en>

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