



Industrial Decarbonisation: Fresenius Medical Care and Dalkia Inaugurate a High-Performance Heat Recovery Facility in L'Arbresle (Rhône)

Fresenius Medical Care (SMAD) marks a decisive turning point in its energy transition: with a new installation designed and operated by Dalkia, the L'Arbresle site is reducing its gas consumption by 10%, thereby avoiding the emission of nearly 1,900 tonnes of CO2 each year. This decarbonisation project, representing an investment of nearly €2 million, received €682,390 in support from the French State via ADEME through the Heat Fund (Fonds Chaleur). It fully aligns with a circular economy approach by recovering waste heat.

Innovation Serving Responsible Industry

The project is based on the principle of waste heat recovery: heat generated by cooling towers is now captured and reused. Thanks to the installation of a high-capacity heat pump (HP), this energy is repurposed to meet the thermal requirements of the site. This solution relies on the electrification of energy uses: to ensure this energy transfer, the heat pump consumes approximately 2.4 GWh/year of electricity, thereby transforming thermal loss into a high-performance, decarbonised resource.

- Nearly 1,900 tonnes of CO2 emissions avoided annually
- 10% reduction in the plant's annual gas consumption
- 10.4 GWh of gas offset per year thanks to the valorisation of recovered heat

Magali Hainaut, Director of the Fresenius SMAD Site: "At Fresenius Medical Care, energy transition is an operational reality. This new heat recovery system enables us to offset over 10 GWh of gas per year. It is a key structuring project that embodies our vision of responsible performance: manufacturing essential medical devices whilst sustainably reducing our environmental footprint."

Jérôme Aguesse, Regional Director at Dalkia: "This project illustrates the commitment of Dalkia's teams to the decarbonisation of industrial processes. By placing electrification at the heart of this facility, we transform energy loss into a valuable, decarbonised resource. Fresenius Medical Care demonstrates that it is possible to reconcile industrial performance with environmental stewardship. We are proud to support this progress."

Franck Dumaitre, Regional Director of ADEME in AURA: "ADEME, as a French state agency, is proud to support this exemplary project, which demonstrates how public financial support helps industrial players implement the best decarbonisation technologies. Every euro of public funds invested here reduces our fossil fuel imports and contributes to national energy sovereignty. By valorising its waste heat, Fresenius Medical Care secures the long-term sustainability of its activity at the heart of our regions."

Public-Private Sector Cooperation

This practical project, initiated in 2022, is the result of a close partnership between teams from Fresenius Medical Care and Dalkia, a subsidiary of the EDF Group. With an overall investment of nearly €2 million, this industrial decarbonisation project was notably supported by ADEME (the French Agency for Ecological Transition) via the Heat Fund to the tune of €682,390. This achievement exemplifies successful cooperation between public and private stakeholders to accelerate industrial decarbonisation across the Rhône department.

About Fresenius Medical Care:

As the world's leading provider of products and services for individuals suffering from renal diseases, Fresenius Medical Care is committed to sustainable healthcare. The SMAD site in L'Arbresle is a major industrial centre of excellence in the region.

About Dalkia:

For nearly 90 years, Dalkia, a subsidiary of the EDF Group and a leader in energy services, has been investing in and developing renewable and recovered energy, partnering with its clients over the long term to help them save energy and cut their CO₂ emissions. Over 23,000 employees across France and internationally maintain and operate facilities for industrial sites, commercial buildings, local authorities, healthcare institutions, and housing, using innovative, high-performance solutions to accelerate the electrification and decarbonisation of sites and regions. More information at www.dalkia.com



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