

## **KPA Unicon to deliver 45 MW superheated steam boiler plant to Pomacle in France**

Dalkia Est and KPA Unicon have signed a contract for delivery of Unicon Renefluid 45 MW bubbling fluidized bed boiler plant to Pomacle in France, using biomass as fuel with 49 MW power. KPA Unicon boiler plant is part of Cogecab power plant, which generates energy for Européenne de Biomasse HPCI black pellet i.e. biochar production processes. Biochar can be used to replace fossil coal in coal-fired power plants.

The boiler plant will use biofuels, including chips and bark, recycled wood and cuttings from vines. The boiler plant will generate superheated steam for electricity production as well as hot water and steam for black pellet production process and other nearby industrial processes. The plant will be put into operation in 2020 and will be handed over for commercial use in June 2020.

The turnkey delivery includes the boiler plant and flue gas cleaning unit. Unicon Renefluid bubbling fluidized bed boiler is capable to burn fuels of wide spectrum of humidity and calorific value. The boiler has very high availability and efficiency. In addition, black pellet process produces waste steam that is burned in the boiler furnace, thereby improving the efficiency of flue gas condensation and thus the overall efficiency of the power plant.

The delivery includes also KPA Unicon`s PlantSys digital platform that enables remote operation and monitoring of the energy production plant. Intelligent predictive maintenance for long life span of the plant is achieved by gathering real-time information from devices.

"Dalkia have a good experience with KPA Unicon (Renewa), who has supplied to Lens CHP plant in the north of France, a boiler with the same technology. That boiler is reliable and efficient. Moreover, the performances and the time delivery were in line with the contract", says Project Manager Habib Diop, Dalkia Est.

"The project is the result of long-term development and creates opportunities to increase share of future green energy production by replacing fossil fuels. This is KPA Unicon's second boiler plant delivery for Dalkia and it continues and consolidates our very successful cooperation", says Timo Aspelin, Key Account Manager of KPA Unicon.

### **Dalkia Est.**

*Dalkia is a subsidiary of the EDF group and leading provider of energy services in France. Dalkia offers its customers tailor-made solutions and expertise covering the entire energy chain, from energy supply to optimisation of energy consumption, as well as operation and maintenance of facilities.*

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

### **KPA Unicon**

*KPA Unicon provides life cycle services for responsible district heat, steam and power generation. The company was founded in 1990 and has delivered over 300 biomass boiler plants and over 2000 oil and gas boiler plants to Finnish and international markets. The Group employs over 250 energy industry professionals and its turnover in 2017 was approx. 80 MEUR with strongly positive result. The Group comprises of the parent company KPA Unicon Group Oy and its subsidiary KPA Unicon Oy in Finland and its international subsidiaries in France, Russia, Croatia and Chile. The company's headquarter is located in Pieksämäki, Finland and energy-producing factories at Kiuruvesi and Lapua, Finland.*

### **About the customer COGECAB**

***COGECAB** is a CHP subsidiary of FICA HPCI, renewable company owned by the investment funds Meridiam and Caisse des Depots associated to Européenne de Biomasse who developed the project and the HPCI-Black Pellet technology.*

***Meridiam** was founded in 2005 by Thierry Déau, with the belief that the alignment of interests between the public and private sector can provide critical solutions to the collective needs of communities. Meridiam is an*

*independent investment firm specializing in the development, financing, and management of long-term and sustainable public infrastructure projects. With offices in New York, Paris, Toronto, Luxembourg, Istanbul, Vienna, Addis Ababa and Dakar, Meridiam currently manages 6.2 billion Euros of assets, and more than 60 projects under development, construction, or in operation to date. <http://www.meridiam.com/en/>*

***Caisse des Dépôts et Consignations** and its subsidiaries constitute a public group serving the public interest and the country's economic development. The Group carries out missions of public interest in support of the public policies implemented by the State and local government bodies and may also exercise competitive activities. Caisse des Dépôts et Consignations is a long-term investor and contributes to the development of enterprises in line with its own proprietorial interests.*

*Banque des Territoires, from Caisse des Dépôts et Consignations has for aim to provide bespoke solutions more quickly to all its customers, upstream and downstream of their projects, with a particular attention to the small and medium-sized local authorities*

***Européenne de Biomasse** defined the industrial design of the HPCI Black pellet and developed the FICA-HPCI project, the first industrial plant that will be reproduced as an industrial field in France, Europe and in the world.*

**Additional information:**

*Habib Diop, Project Manager, Dalkia Est, tel. +33 3 8318 1119, [habib.diop@dalkia.fr](mailto:habib.diop@dalkia.fr)*

*Timo Aspelin, Key Account Manager, KPA Unicon, tel. +358 44 422 1509, [timo.aspelin@kpaunicon.com](mailto:timo.aspelin@kpaunicon.com)*

*Tuomas Räsänen, Project Manager, KPA Unicon, tel. +358 50 590 3319, [tuomas.rasanen@kpaunicon.com](mailto:tuomas.rasanen@kpaunicon.com)*