

Veolia to manage low carbon energy supply for some of the tallest residential towers in Canary Wharf

2 years ago



Following the signing of a new 25 year contract, the energy teams at Veolia UK are set to manage low carbon heating and cooling supplies for the new district energy network serving the prestigious Consort Place development on the Isle of Dogs, London.

Developed by Far East Consortium (FEC), it is designed to support local decarbonisation of energy, and the contract will deliver essential heating and cooling to the 80,000 m² mixed-use development covering 636 apartments, together with a 231 bed hotel, school, pub, and smaller retail units. This will support the network that serves some of the tallest residential towers in the Canary Wharf district including the 217 metre tall Aspen with 65 storeys, and the neighbouring 125 metre high Alta, which has 34 storeys.

Veolia will manage the entire system and deliver energy supplies from the energy centre to each customer on a year round 24/7 basis. As space heating and hot water accounts for about 21% of total UK carbon emissions, the baseload for the low carbon energy comes from the latest water source heat pump technology with water cooled chillers providing the cooling load. To optimise efficiency, heat is recovered from the chillers' condensers circuits, before the cooling towers, to feed the cold side of the heat pumps. This will guarantee delivery of 850kW of heating and 600kW of cooling to the network that will serve around 20,000 people including residents, hotel guests and other building users.

Veolia's specialists will be fully responsible for all plant and equipment in the energy centre, the district heating mains on the site, and the rising mains up to and including either the consumer interface units (heat meters), or the commercial heat exchangers. This operations and maintenance service will be fully

responsible for compliance with all current legislative and regulatory requirements, and produce reports covering carbon emissions, building regulations and local planning.

Commenting on this latest development, John Abraham, Chief Operating Officer – Industrial, Water and Energy for Veolia UK & Ireland said:

“This latest contract marks a further step forwards in the drive to make London a sustainable city and advance the decarbonisation of buildings. Providing the essential low carbon power to support new communities, and boosting energy efficiency, are key to establishing the sustainable cities of the future. By using the latest technology, and optimising energy management, we can not only power modern living but also make a real contribution towards meeting London’s environmental targets. As one of the biggest cities in the world it is important for London to set an example, and this shows what can be achieved.”

In the UK Veolia currently manages the energy plant and networks across 60 sites and operates over 120 community heating schemes serving large campuses and hospitals. These distribute low carbon or renewable heat from combined heat and power plants, waste wood biomass, heat pumps, and Energy Recovery Facilities. Using district heating the company provides essential energy to support 66,300 residents, 244,000 students, and 44,500 hospital beds (equivalent to 8.1million in-patients per year). The Group currently operates around 600 district heating networks covering 7000km of heat mains around the world.

With GreenUp, Veolia becomes the best catalyst for ecological transformation for cities and industries, ready to seize the opportunities created by the demand from populations all over the world. Already a leading player in the research and development of environmental solutions, with 14 research centres worldwide, the Group will significantly accelerate its investments in innovation with an additional €200 million to design the technologies of the future.