

The Governing Council has been informed of the proposal for the award of its gas supply contract for 8.5 million

Canal de Isabel II generates 80,000 megawatt hours in its sludge treatment plant in Loeches

- This production would cover the energy demands of cities such as Zamora or Avila
- The treatment system generates energy through cogeneration for the thermal drying of this residual waste

20NOV18 – The Governing Council of the Community of Madrid has been informed of the proposal for award, by Canal de Isabel II, of the gas supply contract to the sludge treatment plant in Loeches, a plant which generates 80,000 megawatt hours through cogeneration for drying these wastes. This production would cover the energy demands of cities with a population of 61,000 inhabitants, such as Zamora or Avila.

This one-year contract, with an award sum of 8.5 million euros, includes the supply of 300 GWh of natural gas to the sludge treatment plant. In this facility, which was inaugurated in 2010, the sludge produced in the public entity's wastewater treatment systems is cleaned and electricity is generated.

With this gas, the cogeneration motors produce the heat required to dry the wastewater sludge thanks to the thermal drying process and they generate around 80,000 MWh. Of this electricity production, 12 % covers the plant's own energy requirements, while the rest is delivered to the network.

FOSTERING A CIRCULAR ECONOMY, A STRATEGIC COMMITMENT

Canal de Isabel II has included a line in its Strategic Plan, designed to promote environmental quality and energy efficiency. This includes all the initiatives aimed at fostering a circular economy, such as making use of the sludge generated in wastewater treatment processes.

In 2017, the plant received 58,000 tonnes of sludge. Of these, 47,000 were treated in the thermal drying facilities to produce fertiliser and the remaining 11,000 were composted, mixed in with the pruning waste, to finally obtain 4,000 tonnes of compost, which is used in gardening, agriculture and landscape recovery.

Canal de Isabel II was founded more than 165 years ago to supply water to the city of Madrid. Over 2,500 employees work daily to serve over six million people in the region. It is an innovative company, a leader in its sector, and internationally recognised for its management of the integrated water cycle.

It operates 13 reservoirs; 78 spring tapplings; 14 drinking water treatment plants; 17,556 kilometres of conveyance and distribution channels; 131 pumping stations for drinking water and 133 for waste water; 14,956 kilometres of sewage networks; 65 storm tanks; 877 kilometres of sewers and outfalls; 157 waste water treatment stations; and 588 kilometres of reclaimed water channels.

Press release