



12/20/2021 – Bangalore Airport India

Energy engineering company Adverio Waste Systems has been awarded the engineering contract for the construction of a plant that will produce biomethane and electricity to supply the Indian airport of Bangalore from its own organic waste.

The plant will process the 17,500t of bio-waste produced each year by this airport, the third in the country and through which more than 30 million passengers passed before the pandemic, the company reported in a statement.

Anaerobic digestion --the same sources have explained-- offers a sustainable solution to the treatment of this waste and produces energy for the operation of the airport itself from, mainly, catering waste from flights, bio-waste from kitchens and restaurants, airport sewage sludge or any other organic waste generated at the facilities.

The facility will be capable of producing 2.25 million Nm³ / year of gas from renewable sources, which will represent 14,625MWh of total energy, which will be used to generate electricity through a 500kW generator motor and biomethane (CNG) for use in vehicles. From the airport.

This concept of waste management and energy self-consumption in airports "represents an innovative model worldwide that promotes the circular economy and sustainable management in these transport infrastructures and that would be applicable in more than 100 airports with a similar or greater activity than that of Bangalore to improve its efficiency and sustainability ", they have pointed out.

The Bangalore airport plant will be based on Adverio Waste Systems' own 'Small Biogas' technology, which will be in charge of design, engineering, technology selection, supply of main equipment and commissioning.

One of the innovative technical characteristics will be the application of a previous process of separation of organic material from other packaging waste that achieves up to 99% purity. This will allow the digestate (material remaining after bio digestion) to be used as fertilizers and amendments for agriculture.

Bangalore Airport in South India opened in 2008 and expanded in 2013. It is already the third largest airport in the country and stands out for its innovation and sustainability. In 2020 it was designated the best airport in the Asia-Pacific Region in 2020 by the International Airports Council.

With this 'Small Biogas' plant, which involves an investment of three million euros, it achieves circularity and the use of all the organic waste it generates.