



SOFIA MECHANICAL & BIOLOGICAL TREATMENT PLANT

Municipal sector

Preventive maintenance of a bioreactor for organic waste processing of food waste

| The challenge

Sofia’s MBT municipal waste plant is located in the village of Gorni Bogrov, near Sofia. A biological treatment plant (BT) was built on site which includes composting of biodegradable waste and composting of green waste.

The anaerobic reactor is 3600 m³ in volume and stopped functioning due to clogging with large debris thus causing a serious environmental issue for the Client. 70 % of the sludge remained in the reactor and had to be disposed of to the Sofia WWTP operated by Veolia. The Client had to find a reliable and experienced partner to safely dispose of the sludge urgently and to restart the technological functioning of the reactor without causing any risk to the environment.

| Veolia’s solution

For the purpose of carrying out the maintenance, the team of Veolia Bulgaria had to install specially designed valves - compatible with the mobile equipment used for vacuum suctioning and transportation of the bioreactor’s contents. In addition, in order to scoop out the solid residue mass, another valve was installed to ensure the controlled and safe release of wastewater.

All activities were performed in accordance with the Health & Safety requirements for working in a hazardous gaseous environment with elevated levels of hydrogen sulphide and methane.

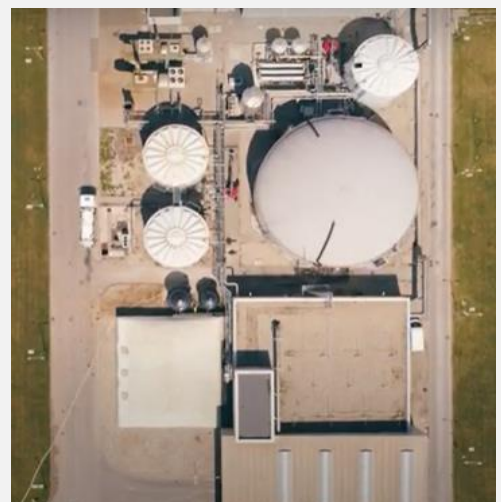


Contract Facts:
 Duration: 2 months
 Type: Waste Service

25
 Employees involved

686 t
 Active sludge

3 600 m³
 bioreactor volume



| The benefits

With the successful completion of the cleaning of the bioreactor of the Sofia MBT municipal waste plant, Veolia demonstrated expertise and commitment to work on complex projects with tight deadlines. Sofiyska Voda, operated by Veolia, carried out preventive maintenance of the production line to improve the efficiency and prolong the service life of the facility. The produced compost is used as a quality fertilizer in agriculture and the bio-methane recovered in the process is utilized as a source of electricity in the organic waste treatment facility.



 <https://www.youtube.com/watch?v=9fow7NrGvUk&t=53s>



Thanks to the skills and expertise of our team, the company was able to implement innovative and sustainable solutions that contribute concretely to the ecological transformation, a strategic goal of Sofiyska Voda, operated by Veolia.

Veselin Dimitrov, Deputy Technical Director



REGIONS & CITIES

The facility has a key role for the environment of the capital



PLANET

Contribution to the Ecological transformation



WOMEN & MEN

Employees develop individual skills