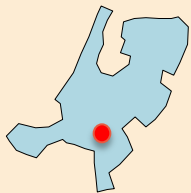


Veghel, The Netherlands

Mars



Creation of a sustainable Waste Water Treatment Plant



Veghel

THE NETHERLANDS

CONTRACT SCOPE

Site: Veghel, The Netherlands

Scope: DBOM sustainable waste water treatment plant by using anaerobic memthane process.

CONTRACT DATA

Duration: 3 years

ACTIVITY SECTOR

Food & Beverage

EXPERTISE

Project Management, Wastewater treatment, Energy recovery, Memthane technology, Carbon Footprint reduction, O&M

The challenge

Mars strives to have a complete sustainable production in the year 2040 (Sustainable In one Generation program). Through the installation of the anaerobic Memthane Treatment plant, Mars makes significant progress in the achievement of its sustainability targets at their largest chocolate processing facility of the world.

Veolia's solution

Supply of the most appropriate anaerobic wastewater treatment technology. The solution differentiates by achieving more than 99% removal in a one stage anaerobic process. In the memthane reactor the Wastewater from Mars is biologically treated and converted into high calorific biogas. The treated effluent and biomass are separated by means of ultra filtration units. The biomass is returned to the reactor. The final effluent discharged to sewer.

Complete operation and maintenance of the wastewater treatment plant.

Benefits Mars:

- o Most compact solution and lowest operational costs in comparison to other treatment routes
- o Nett carbon footprint reduction of more than 150 Ton CO₂/year
- o Maximization of renewable energy production, up to 10% of gas consumption
- o More than 99% reduction of pollution equivalents
- o Complete outsourcing of operations

↓ 150 tons CO₂ avoided annually

↑ Up to more than 10% energy savings

↓ Reduction on sewer cost 97%