

Review of the anaerobic pretreatment plant Rixona



Rixona B.V., a subsidiary of Aviko, both part of Royal Cosun, had the intention to overhaul the anaerobic wastewater treatment plant at their facilities in Warffum, the Netherlands. Rixona instructed Brightwork to examine the possibilities and financial impacts of reconstructing the present installation versus building a new plant.

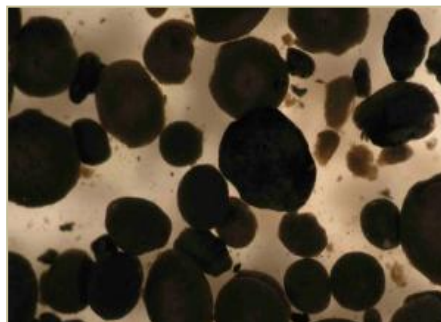
The current anaerobic reactor, type UASB, with a volume of 475 m³, has been in operation since 1981. The systems performance is okay, but an overhaul was required to guarantee safe and stable operation, also in the future. Besides technical aspects, the technological design had to be evaluated, to ensure that possible optimizations were executed within this project.

Overhauling the system was compared with reconstructing a new anaerobic pre-treatment system, comparing high-rate systems with conventional UASB-technology.

Both a financial and a qualitative analysis resulted in clear conclusions that the construction of a new treatment plant was the most favorable solution.

As a part of the project, Brightwork looked at possible options to improve pre-treatment and to optimize the aerobic post-treatment. Afterwards a functional demand specification was formulated to select a technology supplier.

Brightwork will assist Rixona during commissioning and start-up of the new anaerobic pre-treatment system.



Company profile

Brightwork BV develops a series of activities in the field of municipal and industrial (waste) water treatment and/or sludge handling, based upon our long-term (inter)national technical and commercial experience:

- Consultancy (ranging from master planning, strategy, process and conceptual design, feasibility up to research and project execution)
- Participation, project development and project management
- Product development and innovation

Analysing complex issues in order to find bright, cost effective and structural solutions forms the basis of our activities.

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