

# Green energy from organic waste



Attero, formerly known as Essent Milieu, processes organic waste in Venlo, the Netherlands using thirty composting tunnels. Attero initiated research to upgrade the present plant aiming at increasing sustainability and energy efficiency.

In cooperation with the Lettinga Associates Foundation (LeAF) tests have been executed to generate biogas by anaerobic conversion of organic matter in combination with the existing aerobic composting process. Biogas is converted into energy for cogeneration. This project leads to process optimization and green energy production, supporting the company strategy Attero.

Attero asked Brightwork to assist in the optimization of research to disclose organic matter and the translation of the research data into an economically viable full scale plant.

Brightwork translated the research results in a basis of design, including CAPEX and OPEX of the full scale plant. A functional design specification was formulated for suppliers to offer a dedicated plant.

After prequalification of a number of contractors the Belgian company Enprotech was selected. During the detailed design of the plant additional tests have been executed to support the design process.

The plant has been built in 2009 for an initial design capacity of 16 metric tons COD per day, with the possibility for further extensions.



## 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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