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Afmitech develops system for runoff interception at biogas installation

Project

Agricultural and biogas company Kloosterman produces durable energy by use of gases produced from the fermentation of maize. Unfortunately the storage of the maize produces runoff that flow out to the surface water. To change this situation Kloosterman has decided to cooperate with Afmitech and the local water board. The parties will act together in designing the optimal solution.

Location

The company is located in Nieuweroord, Drenthe province, the Netherlands. 35.000 tons of maize is fermented on a yearly basis. The company has a storage for 6000 m^2 maize in silos. The electricity production is approximately 15 million Kilowatt hour. This provides power to some 5000 households.

Technique

To treat the runoff properly, it is essential to know from which substances it is composed and in what concentration these substances occur. Another essential aspect is the degree of fluctuation in the runoff. At the moment the concentrations of the runoff are investigated when it has been diluted by heavy rainfall. By adjustments on the terrain the first highly concentrated flush of runoff is being collected and pumped into the fermenter. The remainder of the runoff will be treated for eventual discharge on the surface water.

For more information on this project please check the following sites:
http://www.kloostermanbiogas.com/

http://www.afmitech.com/products/runoff-interceptor

http://www.senternovem.nl/mmfiles/Flyer%20Kloosterman%20Nieuweroord_tcm24-240499.pdf