

BelleAqua – a standardized wastewater solution for livestock farms

BLUE FOOT 
unbreakable membranes™



Customer: Livestock farms
Location: Flanders, Belgium
Sector: Agriculture
Partner(s): BelleAqua
Size: 1 IPC® 25 module
Start-up: May 2021
Capacity: 600 l/day

CHALLENGE



The challenge here is to convert a linear water system to a circular one. Instead of using precious potable water or groundwater and discharging it after using it once, closing the loop by treating and reusing water solves two problems: less water is taken in and less water is discharged, significantly reducing the associated costs. By using Blue Foot technology, BelleAqua is confident that it can offer a standardized and affordable solution to treat wastewater on-site. This way wastewater is being dealt with, and even better: it can be reused infinitely.

SOLUTION



BelleAqua analyzed the needs of small livestock farms, the amount of water they use and the type of waste they are dealing with, like manure and wood chips. Based on that information they developed a standardized wastewater treatment plant that is fit for purpose. It has a fixed size and capacity to process 600 liter per day.

COLLABORATION



This is a cocreative partnership. BelleAqua specializes in small-scale wastewater treatment for private homes and farms. Both parties explored whether the Blue Foot membrane can be an interesting ingredient for BelleAqua's plants. Soon the idea arose to proactively develop an industry-specific solution for this wastewater problem.

RESULTS



The pilot plant is operational since May 2021 on the premises of BelleAqua for testing and demonstration. Multiple times a week a truck fills the feedtank with wastewater from a neighboring farm. The plant is monitored up close to evaluate and optimize the design. A second plant is being installed soon after at a livestock farm nearby. As a next step this concept will be made available to the market, targeting the many Flemish livestock farms that are looking for a sustainable solution for wastewater treatment and reuse.

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