CASE STUDY · BELLEAQUA

BLUE FOOT
unbreakable membranes ™

CLOSING THE WATER LOOP
ON LIVESTOCK FARMS



END CUSTOMER
Livestock farm

LOCATION
Flanders, Belgium

SECTOR
Agriculture

OEM PARTNER
BelleAqua

APPLICATION
Pilot

THE CHALLENGE

From single use to water reuse

Livestock farms need practical ways to reduce their reliance on drinking water and groundwater. Treating wastewater on-site can help reduce freshwater intake, discharge volumes and associated costs while making water available for reuse.

BelleAqua and **BLUE FOOT** explored how membrane technology could support a standardised, affordable treatment concept for small livestock farms.

THE SOLUTION

A standardised system for farm wastewater

BelleAqua assessed water use and wastewater containing materials such as manure and wood chips. Based on this assessment, it developed a standardised treatment plant designed to process 600 litres per day using one **BLUE FOOT** IPC® compact module.

THE COLLABORATION

Combining application knowledge and membrane technology

BelleAqua specialises in small-scale wastewater treatment for homes and farms. Together, the partners developed a concept tailored to the needs and wastewater characteristics of livestock farming.

THE PILOT

Testing the concept in practice

A pilot installation at BelleAqua was used for testing and demonstration. Wastewater from a neighbouring farm was delivered several times a week, allowing the treatment concept to be monitored and optimised.

> A standardised treatment concept designed for small livestock farms, bringing together BelleAqua's application expertise and **BLUE FOOT**'s membrane technology to support on-site wastewater treatment and water reuse. The partnership continued with further pilot installations in the agricultural sector.