ENGINEERING PROJECT

Water recovery from biogas digestate

Clarified digestate after ammonia stripping

UF feed	Feed conductivity	RO design recovery
15 m³/h	15 mS/cm	65–75%

01

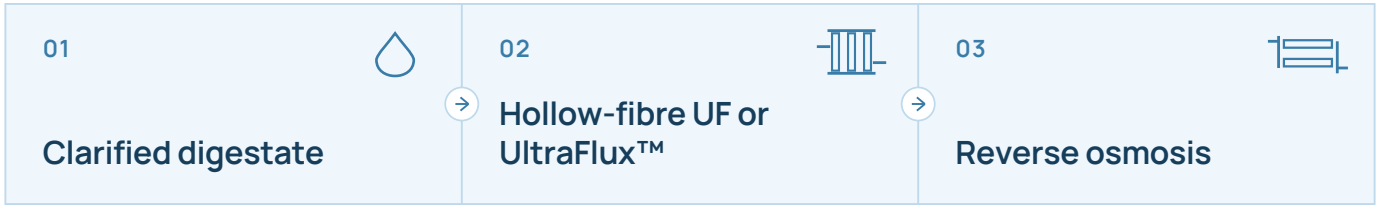
The challenge

Digestate from sewage sludge and pig slurry still contains solids and dissolved salts after ammonia stripping. The process is designed to recover water and reduce the reject volume.

02

The solution

One route combines microporous separation and hollow-fibre UF ahead of reverse osmosis. The other feeds the clarified digestate directly to an UltraFlux™ crossflow unit upstream of the same RO stage.

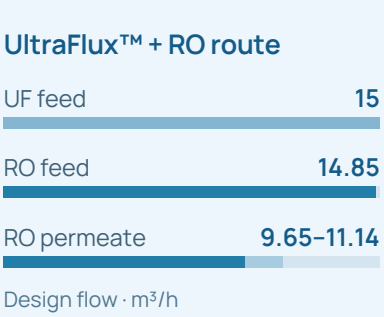


03 / PROCESS DESIGN

9.65–11.14 m³/h final permeate

In the UltraFlux™ layout, the design balance delivers 14.85 m³/h of filtrate to the RO stage. Final permeate represents 64.4–74.3% of the initial feed.

- 92% design recovery across hollow-fibre UF
- 99% design recovery across UltraFlux™ UF



Request a proposal →