

Treatment of Fermentation Residue from a Biogas Plant

Project:	Supply of a process water treatment plant
Contractor:	SwissFarmerPower AG, Inwil (Switzerland)
Application:	Treatment of digestate
Capacity:	45,500 t/a
Input:	Effluent of biogas plant
Data:	Design and supply of a treatment plant for fermentation residue from a biogas plant with an influent consisting of a manure mix and organic waste from agriculture. The fermentation residue has high concentrations of COD, nitrogen and phosphorous. It is treated so that the membrane plant's effluent can be directly discharged to the public sewer system.

■ COD influent	up to 60,000mg/L
■ COD effluent	< 300 mg/L
■ NH ₄ -N effluent	< 60 mg/L
■ PO ₄ -P effluent	< 30 mg/L
■ Treatment stages	Chamber Bowl Separator Decanter Ultrafiltration Reverse Osmosis

