

EIP-AGRI practice abstract

Short title:

NH₃-water from pig manure or digestate with VP-Hobe Manure Valorisation system

Summary:

NH₃-water is produced using the VP-Hobe Manure Valorisation system: flotation, belt press sieve, reverse osmosis and stripper. The input is pig manure or digestate.

The NH₃-water is a liquid biobased fertilizer with 14%N. Using biobased fertilisers contributes to closing nutrient cycles.

The production and usage of RENURE fertilizers allows farmers to process their (excess) livestock manure into a RENURE fertilizer. This product is a potential RENURE fertilizer which means that application will no longer be defined as livestock manure in the Nitrates Directive. This means application will no longer be limited to 170 kg N/ha. RENURE fertilizers are based on processed manure fractions replacing chemical fertilizers.

Because the N and K are separated in two fractions optimal N/K balance can be achieved using precision fertilizing techniques using biobased fertilizers.

The product is hygienic and free from salmonella and E-coli.

Key product benefits:

- Liquid biobased fertilizer
- Straight liquid inorganic macronutrient fertiliser (PFC 1.C.I.b.i)
- High N concentration: 14%
- Potential RENURE fertilizer
- Can replace chemical fertilizer
- Free from salmonella and E-coli

Costs for farmers will be approximately €20-40 per ton ex works.

Application can be done using liquid manure injection systems. Low emission application techniques are compulsory to prevent ammonia volatilization.

For more information: https://nutriman.net/farmer-platform/product/id_1527