Yara Circular Economy Focus Area: Recycled Nutrients from Organic Sources

Yara evaluates opportunities related to nutrient recyclates, with the aim to utilize them in the agronomic sector, in Yara production processes or in small industrial loops.

Yara Climate Smart & Circular Offerings | Marina Ettl



Yara R&D sites Porsgrunn (Norway), Pocklington (UK) and Dülmen (Germany)

Potential identified pathways to utilize P, N, K out of organic sources: Upgrading to high quality fertilizer



VARA

Yara R&D analyses and product development process

- R&D Yara production (Porsgrunn, Norway): Lab and pilot tests
 - Chemical / physical quality analyses \rightarrow minimum requirements
 - Technical requirements to integrate recyclates into the production process

R&D Yara Agronomy (Dülmen, Germany and Pocklington, UK)

- Fertilization efficiency, plant-availability (glasshouse, field)
- Soil health (soil physics, chemistry, respiration, micro-biodiversity)
- Physical characteristics \rightarrow storage / transport, field application

Legal requirements (FPR, REACH, …)

Cost / benefit analysis, business case calculation

Market-oriented activities:

- Partnerships within EU- and BMBF-funded projects and JIPs
- Collaboration with associations, universities / institutes, technology providers
- Commercialization of OF/OMF

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