



LCA study to compare fertilizer production from rock phosphate with P-recovery from the wastewater stream (PHORWÄRTS)

Context

Phosphorus is essential for life and an indispensable component of many fertilisers. The European and national legislation calls for the recovery of phosphorus from the wastewater stream in the medium term. Due to the lack of reliable data it has remained unanswered so far to what extent P-recovery can be considered appropriate in ecological and economic terms.

Objectives

By means of the LCA methodology, the PHORWÄRTS project compares conventional fertiliser production from rock phosphate with selected methods of phosphorus recovery from the wastewater path.

Activities

- Comparative Life-Cycle-Assessment of conventional phosphorus fertiliser production and different processes for phosphorus recovery
- Comparative risk assessment of fertilisers regarding their contamination with heavy metals and organic pollutants
- Cost estimation of the various production methods.



Duration: 9/2016 – 2/2018

Project Volume: 140 k€

Contact

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