

Phos4You – Phosphorus recovery from waste water for your life

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Lead

Partner: Lippeverband

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The project

Phos4You addresses the phosphorus challenge. Phosphorus (P) is a nutrient, essential for all living organisms. Though it is a finite resource on earth, phosphorus is largely wasted today. The EU acknowledged this by adding phosphate rock to its list of critical raw materials in 2014. There is a need to boost the use of secondary raw phosphorus.

Phos4You specifically targets phosphorus recovery from municipal waste water treatment plants. It aims at accelerating the exploitation of the recovery potential in municipal sewage water. This potential, estimated at 113,000 tons P per year could cover 26% of the mineral phosphorus demand in North-West Europe (NWE). In 2015 NWE imported almost 100% of its mineral phosphorus need.

Phos4You will demonstrate that phosphorus recovery from waste water is feasible.

The project can help to decide which technology is best for different territorial situations. To close the gap between P-recovery and recycling Phos4You will show that fertilizer with secondary raw phosphorus is good for plants, low in contaminants and compliant to relevant legislation.

Relevant steps to achieve this will be:

- Constructing & operating demonstrators of innovative P-recovery technologies in real life conditions for municipal sewage water
- Integrating the novel P-products in recycling processes for fertilizers
- Proposing a EU-Standard to assess quality of new fertilizer products
- Elaborating business plans for P-recycling in urban & rural areas

The partnership



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