

Reaching congenial region through valorisation of municipal and industrial waste waters and sludges (4.10. 2018 – 31.09. 2021)

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Ari Pappinen, Aki Villa, Erik Kaipiainen, Suvi , Sergie Senko

UEF // University of Eastern Finland

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Project

- General project idea is to develop a recycled fertilizer product using sludges and wastewaters as a raw material for businesses in Russian Karelia and Finland;
- Specific project objectives:
 - Techno-economic study (feasibility study) of the utilization of sludges from waste water purification plants in Finland and Russia;
 - Transfer of experience and modern sludge handling technologies from Finland to Republic Karelia:
 - Holding of practical seminars in Finland and Russia with audience of domestic and foreign stakeholders, offering information to legislators and administrative persons on benefits of recycled fertilizer products
 - Basic topic: Sludge and wastewater valorisation technologies and their role in supporting modern water purification activities => development of a new recycled fertilizer product;

Partners

– Responsible executors:

- University of Oulu (Lead partner)
- University of Eastern Finland
- Petrozavodsk State University
- KarelVodokana, Sortavala
- PKS – Vodakanal, Petroskoi
- The Town of Outokumpu
- Valio Ltd, Joensuu dairy
- Ecolan Ltd

– External partners:

- Environmental authorities
- Local development organizations
- Other relating companies, e.g. horticulture, civil engineering



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Outcomes:

- techno-economic evaluation of different wastewater and sludge valorization technologies
- receipt for sludge or wastewater based recycled fertilizer product (co-operation with Oulu)
- business plan for the valorization of sludge and wastewater treatment technologies created (co-operation with Outokumpu, Valio, Ecolan, Sortavala and Petrozavodsk)
- create business model by using results of feasibility studies of different sludge and wastewater treatment technologies

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Financing of project

- KA4020: total budget 766 977 € ,
- Financing of Lead Partner (University of Oulu)
- Financing of UEF 358 176 € ,
- Co financing of all partners 116 000 €.
- Co financing of Russians partners 21 000 €.

Kiitos!



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