

PROJECT COORDINATOR

VITONE ECO
ABSOLUTE SEPARATION

PROJECT PARTNERS



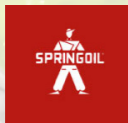
Istituto di Ricerca sulle Acque
CONSIGLIO NAZIONALE DELLE RICERCHE



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A. & A. Fratelli Parodi s.p.a.
www.fratelliparodi.it

PROJECT DETAILS

PROJECT TITLE: Biolubricants from urban sewage sludge

ACRONYM: LIFE BioLubridge

SECTOR: Waste

START DATE: 01/09/2021

END DATE: 31/08/2024

EU CONTRIBUTION: 1,352,049 Euro

CONTACTS

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www.life-biolubridge.eu



LIFE
BioLubridge

BIOLUBRICANTS FROM URBAN SEWAGE SLUDGE



With the contribution of the LIFE Programme of the European Union.
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PROJECT

In LIFE BioLubridge a new process will be demonstrated on a pilot scale, by treating thickened urban sewage sludge with the aim of:

1 recovering lipid contained therein for generating bio-lubricants


2 reducing final residual sludge disposal and improve its final quality and properties, encouraging the safe use of sludge in agriculture

Lipids will be purified and converted into bio-lubricants, which will be tested for specific applications in the field of metalworking fluids.

OBJECTIVES


Development of an innovative technology to recover lipids from sewage sludge


Final Sewage sludge treated for agricultural usage, maximising the use of a waste product


Development of biolubricants from sewage sludge lipids'


Shortening of the overall treatment of sludge, from 15 days to 6-12 hours

ENVIRONMENTAL PROBLEM



WASTE MANAGEMENT ISSUES

Sewage sludge in Europe is increasing fast but it cannot be used in agriculture because of the increasing amount of "emerging pollutants" it contains.

ENVIRONMENTAL POLLUTION

Lubricating oil is emitted into the environment, impacting on soils, groundwater, vegetation, and animals.



RAW MATERIALS SCARCITY

Overuse of virgin natural resources for biolubricants production



IMPACTS

3,5 tons of biolubricants produced

2,5 tons of palm oil saved

2,5 Kg CO₂ emissions saved per Kg of palm oil saved

5000 m³/year of water saved