

Title: Exploration new substrates for the bio fuels industry making use of waste materials to recover and generate hydrocarbon substrates.

Acronym: BIOS

Submitted by:

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Focus Area: Energy from renewable sources

Type of project: RTD project, including scaling up from laboratory pilot to pilot plant

Summary: This project is directed at recovering long to medium chain hydrocarbons from municipal and industrial waste using bio remediation and conversion to functionalities which could perform as bio fuels. These include alcohols which could function as fuels without conversion and carboxylic acids which require further esterification. The project has been initiated on laboratory scale and is aiming to move up to laboratory pilot and pilot scale operations. The project is directing at identifying alternative sources of hydrocarbon chains outside of food grade vegetable oils for the bio fuels industry, providing flexibility of fuel type, the reaction protocols required to make use of existing plant, development additives where required, and generation of bio fuel for independent verification to EN specifications and road testing in vehicles.

Expertise Offered: Extensive experience in fuels and bio fuel testing, lipid biochemistry and microbial treatment of waste streams.

Previous FP involvement: no

Consortium status: Currently Bioservices is seeking partners in the bio fuels industry and interested municipalities and commercial operations with specific waste streams.

Expertise sought: Entities with experience in certification and road testing of bio fuels, bio fuels manufacturers and municipal partners

Related projects: none