

Biorefinery of olive industry wastes



Description

Fuel from waste: raw residues from olive farming and oil production are turned into fuel by a synthetic procedure. Liquid fuel is produced by Fisher-Tropsch synthesis and the SNG by methanation.

Objectives

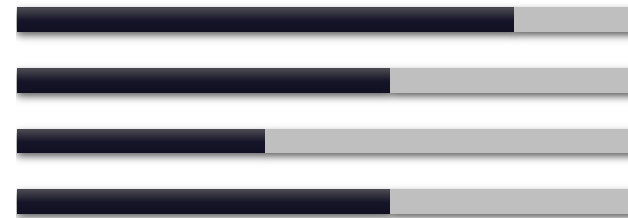
- To collect environmental data for Fraunhofer to optimise the gasification processes and downstream purification/conversion technologies to convert the raw solid materials in a synthesis gas having a high purity and hydrogen content,
- To provide technical knowledge on the waste valorisation from the olive sector to produce fuel for dedicated courses at universities,
- To ensure the processes are in line with the EU and local legislation.

Activities

- Sustainability assessment:
 - Life-Cycle Assessment LCA,
- Market uptake & sustainable communication:
 - Communication & dissemination plan,
 - Regulatory and legislation assessment.

Challenges

- Input data complex to collect
- Technical knowledge required
- Legal & legislation barriers
- Technology readiness level



Added values

- Reduction of waste treatment requirement and technology improvements,
- + 72% energy efficiency (up-scaled case) and reduction of CO₂ in olive farming and olive oil industries,
- Green Communication plan with marketing visual supports.

60/100

■ DIFFICULTY

90/100

■ SUCCESS



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GROUP