



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

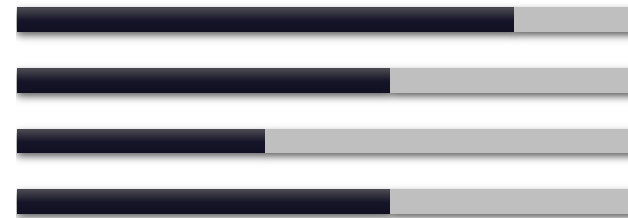
- To study environmental data and evaluate inputs, outputs and impacts of results obtained from green technologies,
- To provide technical knowledge on the waste valorisation from the olive sector to produce synthetic fuel to make an awareness and dissemination plan and courses for universities and industries,
- To ensure the synthetic natural gas and diesel production life cycle is 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.

