



LIFE Project Number
LIFE15 ENV/GR/000257

LIFE PROJECT NAME or Acronym
LIFE-F4F (Food for Feed)



Data

Action:	B3 Initiating, Operating and Optimising the F4F System
Partner:	HMU
Deliverable:	B3.5 Data, results and biodiesel produced during project

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1. Abstract

The collection of cooking oils has been concluded on August, 2019 by ELMEPA (former TEIC). More specifically, the team of HMU collected cooking oils partially from the restaurant of the institution, within summer 2019. After the collection of about 2.000Kg of fried oils, trials for the transformation of these oils into biodiesel concluded on January, 2020. These trials carried out in a biodiesel unit of ELMEPA. This unit has the ability to convert 100 liters of oil to 100 liters of biodiesel within 2-2.5 hours. The system operates on the principle of replacing oil glycerol with methanol, using NaOH as catalyst.

A "pilot" test is recommended to ensure good results and to avoid incorrect titration. After the measurements and tests, the production of 100 liters of biodiesel takes place per each trial. The final produced biodiesel was evaluated for each quality characteristics. From the trials that carried out occurred that the collected cooking oils have quite satisfied physicochemical characteristics and can produce a good quality of biodiesel.

Below some photos during the experiment that carried out in facilities of HMU.



Photo 1. During production of biodiesel in facilities of HMU