



Production of biodiesel from Algae in selected Mediterranean Countries

MED-ALGAE

Priority 2 Promotion of environmental sustainability at the basin level

Measure 2.2 Promotion of renewable energy use and improvement of energy efficiency contributing to addressing, among other challenges, climate change

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Programme
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REGIONE AUTONOMA DELLA SARDEGNA

Project in brief

The potential of producing bio-fuel from microalgae has been recognized as an alternative to fossil fuels, especially under the form of liquid fuel (diesel, ethanol), which can be used in the transport sector.

The use of microalgae as a biomass resource for production of biodiesel has drawn a lot of attention from researchers, governments and the private sector.

To foster the development of microalgae as alternative fuel, the **MED-ALGAE** project will contribute to the establishment of a new value chain for the production of renewable energy based on microalgae which can secure sufficient quantity and quality of biodiesel. Microalgae by-products and related new business opportunities will also be identified by the project.

Beneficiary

Agricultural Research Institute (Cyprus)

Partnership

1. Cyprus Energy Agency (Cyprus)
2. Malta Intelligent Energy Management Agency (Malta)
3. Fondazzjoni Temi Zammit (Malta)
4. Studio Sardo (Italy, Sicilia)
5. National & Kapodistrian University of Athens (Greece, Attiki)
6. National Research Centre (Egypt)
7. The Lebanese Association for Energy Saving and for Environment (Lebanon)
8. Faculty of Science, Alexandria University (Egypt, Al Iskandanyah)
9. American University of Beirut (Lebanon)
10. National Technical University of Athens (Greece, Attiki)
11. Mediterranean University of Reggio Calabria (Italy, Calabria)

Specific objective

To enhance the production and use of an alternative biomass fuel based on microalgae through the development of dedicated laboratories, including a Mediterranean Regional Centre for bio-production in Alexandria (Egypt), and the production and test of a relevant microalgae biomass fuel

Expected results

- Review of the current state of the art concerning growth systems for production of microalgae
- Production of biodiesel for quality testing
- Identification of by-products from microalgae production with commercial potential
- Assessment of the conditions for the establishment of microalgae biodiesel production and bio refinery plants in identified pilot areas
- Valorisation of business opportunities for microalgae biodiesel production and resulting by-products

Target groups

- Universities/research centers
- Local governments
- Transport sector

Final beneficiaries

- Technology companies, SMEs, energy producers
- Local populations

Duration

36 months

Budget

- Total budget: € 2.000.858
- Programme contribution: € 1.800.000 (89,96%)
- Project co-financing: € 200.858 (10,04%)

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