

IMPLEMENTATION AND EVALUATION OF THE FIRST BIODIESEL CHAIN IN GREECE

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ABSTRACT: The EU White Paper: Energy for the future: Renewable Sources of Energy, *COM (97)599*, recognises that there is a need for actions to promote the uptake of liquid biofuels for transport applications. Also, according to the "Directive 2003/30/EC of the European Parliament and of the Council of 8 May 2003 on the promotion of the use of biofuels or other renewable fuels for transport, a minimum proportion 2% of biofuels of all petrol and diesel for transport purposes is encouraged to be achieved by 31 December 2005. This proportion is expected to increase to 5.75% by 31 December 2010.

Integrated biofuel chains for local transport applications offer the possibility to combine several sectors of the society such as the farming community, the conversion-to-fuel industry, the fuel distribution companies and the consumers into a sustainable business community dedicated to the transport sector. The main purpose of this work is to present all steps for the design, evaluation and implementation of the first biodiesel plant in Greece. Based on the general framework for biofuels in EU as well as on the current state of the country in terms of human resources, infrastructure and technology the first biodiesel plant is being implemented in Greece.

Keywords: bio-diesel, frying oil, liquid biofuels