

MòRe

MARKET OF
OLIVE RESIDUES
FOR ENERGY

Report on Greek National workshop

Project: M.O.R.E. – Market of Olive Residues for Energy

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Macedonia/ANATOLIKI S.A

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A **National Greek Conference** on "Solid Waste Fuels from Olive residues Biomass" was held on **February 5, 2010** in Thessaloniki by the Regional Energy Agency of Central Macedonia (REACM)-ANATOLIKI SA.

The Conference venue was at the Congress Center "N. Germanos" at Thessaloniki International Fair site, during the **23rd International Fair** for Agricultural Machinery, Equipment & Supplies (AGROTICA 2010).

The aim of the Conference was to welcome views and positions on the potential of energy utilization of olive residues and the alternative of transforming them into pellets for direct combustion.

Olive millers from the olive growing region of Chalkidiki and neighbouring municipalities (of the region of Central Macedonia), with significant amounts in olive residues, agricultural associations, agricultural scientists, engineers, entrepreneurs and policy makers participated in the conference. The total number of participants was 138.



Mr. Iakovos Sarigiannis, General Director of ANATOLIKI S.A welcomed the participants and presented the purposes of the conference and the objectives of the European project MORE. The invited speakers were key actors from the olive oil field, a major local technology producer, University scientists/engineers engaged in applied biomass and olive residue research and pellet producers. The speakers as well as their major topics of their presentations are described below.



Dr. Kostas Konstantinou, Technical Director of REACM/ANATOLIKI S.A, presented

- The importance of the IEE project "MORE" for the olive growing areas
- Scenarios about the exploitation of olive residues
- The business plan study for the prefecture of Chania, in the island of Crete
- Main characteristics of the pellets
- The market for pellets in Greece
- The process of pelletization

Picture 1: Dr. Kostas Konstantinou

Picture2: Dr. Nickos Michelakis



The other speakers gave a speech on the following topics:

Dr. Nickos Michelakis, CEO of SEDIK (Association of Cretan Olive Municipalities) Chania, Crete

- The Olive growing in the world and in Greece
- By-products and residues of olive processing
- Waste of oil mills – Waste Management Methods
- Conclusions – Conditions for further development

Dr. Andreas Georgousakis. Chemical. Engineer, Manager of "AVEA-ANATOLI" olive oil industry, Chania, Crete

- Elaboration of olive pomace for oil extraction
- The Steam boiler operation with exhausted pomace as heating source

- Thorough analysis of exhausted pomace
- Main applications of exhausted pomace in Crete

Picture 3: Dr. Andreas Georgousakis

Picture 4: Dr. Panagiotis Grammelis



Dr. Panagiotis Grammelis, Institute of Technology and Applications of Solid Fuels, and Associate Professor of the Department of Mechanical Engineering, University of Western Macedonia

- European Technology Platform for Renewable Heating and Cooling – A Vision for the utilization of biomass
- Standardization of solid biofuels according to the prototype CEN / TC 335 - Regulatory and information of properties of pellets
- Effect of standardization of solid biofuels in the Greek market
- Technology exploitation of solid biofuels for electricity generation
- Mixed burning
- Case Study: The plant of Rodenhuize 4, Belgium
- Experience of the laboratories CERTH / ISFTA in the use of solid biofuels

Dr. Avraam Karagiannidis, Coordinator of the Thematic Energy Laboratory for Development and Thermal Treatment of Solid and Liquid Waste (NEUTRA), , Department of Mechanical Engineering, Aristotle University of Thessaloniki

- Managing biomass in Greece today
- Assessment of production and the needs / growth of biomass by 2030. Comparison with the objectives of pertinent EU laws
- Biomass energy potential in heating and power production
- Sources of Biomass
- Energy Conversion Technologies
- Supply Chain Management of Biomass
- Potential users of biomass energy sources in Greece and future demand scenarios

Picture 5: Dr. Avraam Karagiannidis



Picture 6: Mr. Nikos Xatzigiannis



Mr. Nikos Xatzigiannis, Director of "Hellenic Pellets Co.", Komotini, Region of Thrace

- The raw materials for pellets
- The production process of pellets
- Key economic data
- Presentation of the pellet market in Greece

Picture 7: Mr. Nicholas Philippopoulos



Mr. Nicholas Philippopoulos, Mechanical Engineer, CEO of "Philippopoulos SA-Energy Equipment for Biomass", Thessaloniki

- Manufacturing production of medium density fibreboard (MDF), Location: Mavraneoi Grevena. The thermal needs of the industry are covered by the use of agricultural residues
- Newly constructed industrial plant of Pellets and wood-colored particles, Location: Nevrokopi, Drama

The presentations of the speakers were distributed to the participants together with information material produced by the project MORE. In the end of the conference the audience had the chance to openly discuss and ask further questions regarding the energy exploitation of the olive residues.

