



ENERGY 4 COHESION Final Project Meeting

ENERGY FOR COHESION SEMINAR



ENERGY 4 COHESION, Final Project Meeting
25 – 26/10/2007, Budapest



- Place
Agricultural University of Athens
- Date
26th September 2007
- Number of attendees
40 persons

Title

Integration of RES in Evros Region





Seminar Agenda

| | | |
|---------------|--|---|
| 09:15 – 09:45 | Welcome- Introduction | <i>Spyros Kytitsis Em. Professor, AUA</i> |
| 09:45 - 10:15 | The Energy 4 Cohesion project | <i>Dr. D. Manolakos Researcher, AUA</i> |
| 10:15 - 10:45 | Feasibility of production of solid biomass from energy crops in Greece | <i>Nikolaos Danalatos Professor, University of Thessaly</i> |
| 10:45 – 11:15 | Geothermal potential of Evros prefecture and exploitation prospects | <i>Dr. Arvanitis IGME</i> |
| 11:15 – 11:45 | Coffee Break | |
| 11:45 – 12:15 | Alternative fuels and energy performance in transport sector | <i>Efi Tritopoulou Sector of Environment and Transport CRES</i> |
| 12:15 – 12:45 | Energy Plantations for vegetable oil production and pure vegetable oil use as fuels in compression ignition engines | <i>Athanasios Balafoutis PhD candidate at AUA</i> |
| 12:45 – 13:15 | Applications of PV systems in Greece emphasizing on Agricultural sector | <i>Marios Sigalas PHOTOVOLTAIC S.A.</i> |
| 13:15– 13:45 | Action plan for biomass and biofuels in Greece | <i>John Boukis ELECTOR S.A.</i> |
| 13:45 – 14:45 | Lunch Break | |
| 14:45 – 15:30 | Discussion - Conclusions | |

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Outlines of presentations

Welcome- Introduction, by Em. Prof. S. Kyritsis, AUA

- Overview of RES integration in Evros region. Illustration of AUA research and demonstration projects in the region

The Energy 4 Cohesion project, by Dr. D. Manolakos, AUA

- Outlines of E4C project
 - Project strategy
 - Work programme, phases of the project
 - Anticipated results and achievements





Feasibility of production of solid biomass from energy crops in Greece, by Prof. N. Danalatos, University of Thessaly

- Question to be replied; Are there viable energy crops in Greece?

YES, but much time has already been lost, since although there have been positive research results, traditional cultivations have not been replaced yet.

- Presentation of several case studies proving the feasibility of energy crops for energy generation, especially under the current oil prices!!





Geothermal potential of Evros prefecture and exploitation prospects, by Dr. K. Arvanitis, IGME

- Existing technologies and potential applications
 - Electricity production
 - Greenhouses heating
 - Sea farms
 - Drying of agricultural products
 - Geothermal air conditioning of buildings
- Presentation of success stories in Greece and worldwide





Alternative fuels and energy efficiency in transport sector, by Dr. E. Tritopoulou CRES

- General analysis of EC policy (White paper, Green paper, Kyoto protocol)
- Analysis of EC policy objectives (substitution of 20% of conventional fuels by biofuels till 2020)
- Measures proposed by the action plan of EC
- Presentation of EC directives norms and strategies
- Presentation of national legislation
- Current situation of biofuels in Greece





Energy Plantations for vegetable oil production and pure vegetable oil use as fuels in compression ignition engines, by A. Balafoutis, AUA

- Presentation of results derived from the experimental plantations of AUA for different sunflower varieties, under different experimental conditions (irrigation and fertilization)
- Presentation of results derived from rapeseed plantations
- Presentation of experimental results of biofuels used in compression ignition engines in view to performance, emissions and influence in the engine behaviour.





Applications of PV systems in Greece emphasizing on Agricultural sector, by M. Sigalas, Photovoltaic S.A.

- Presentation of several PV applications realised by the representing company in Greece and in Evros region in particular

Action plan for biomass and biofuels in Greece, by J. Boukis, Elector S.A.

- Technologies of biomass exploitation in Greece
- New potential agricultural cultivations in Greece
- Prerequisites, regulations and actions required for the cost effective operation of energy conversion units
- Institution building activities for feasible investments in the field of biomass at local level and at competitive prices.





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Οι δραστηριότητες του Γ.Π.Α.Γ.Α. ΤΗ ΔΡΑΣΗ ΤΩΝ Α.Π.Ε. ΣΤΗ
ΘΡΑΚΗ

A. Διαφορετικές καλλιέργειες

- Καλλιέργεια Αραβίς στην Οροσειρά
- Καλλιέργεια Σαλιγκιστράς στην Σάχη
- Καλλιέργεια Γλυκός Σαργύρα σε Σάχη και Οροσειρά
- Καλλιέργεια Μισυράκιου σε Καρσλήν και Οροσειρά

B. Διαφορετικές Τεχνολογίες

- Γενετιστική μονάδα Απομόνωση Βαρέζας για Σαμποραγιά, στο Τραπεζο και Τύχο (Δάμα) (Συνέργεια με ΚΑΠΕ)
- Γενετιστική μονάδα Τυβίθραμνας στη Δάμα (συνέργεια με Ε. Αποστάζης Ξάνθη)
- Γενετιστική Βακτηριακή μονάδα με αζωτογόνη γεωβίωση στην Πρωινή Σάχη (Συνέργεια ΕΤΒΑ και Καθ. Φύλια)

Γ. Μελίσσια

- ΞΕΒΕΝ Θρακός (Δοκιμασία Βαρέζας στη Θρακία)
- Αξιολόγηση και αξιοποίηση των γεωργικών αποβλήτων στο Τυχερό Έδαφος

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