

Regional Networks for the development of a Sustainable Market for Bioenergy in Europe



# D5.4: The Bioregions project and renewable energy opportunities for rural Hungary: Workshop Proceedings

March, 22<sup>nd</sup> 2013





#### **Acknowledgements**

This report has been produced as part of the project BioRegions. The logos of the partners cooperating in this project are shown below and more information about them and the project is available on <a href="https://www.bioregions.eu">www.bioregions.eu</a>



The work for this report has been performed by ELARD

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## **Table of Contents**

Introduction: Setting the scenep. 4
The workshop: "The Bioregions project & renewable energy opportunities for rural Hungary"p. 4
Bioregions presentationsp. 5
The workshop's audience & media outreachp. 7
List of Annexes:p. 8
• Annex 1: Presenting the Bioregions project – Mr. Stefanos Loukopoulos, ELARD.
<ul> <li>Annex 2: How to prepare an action plan for a future Bioregion – Mr. Thanos Balafoutis, Agricultural University of Athens.</li> </ul>
Annex 3: Bioregions workshop agenda

- Annex 4: Presence Sheet
- Annex 5: Bioregions questionnaire in Kozard
- Annex 6: Pictures from the workshop
- Annex 7: Workshop's promotional poster



#### **Introduction: Setting the Scene**

The organisation of promotional workshops in regions not covered by the scope of the project constitutes an integral tool in successfully fulfilling Task 5.4 "engaging new regions". Having previously co-organized a "bioregions workshop" in Rome, ELARD decided to host its second event in a more rural setting thus reaching out to a more targeted audience of stakeholders. Being aware of the biomass potential of the County of Nograd (Hungary), whose forests cover 41% of its territory, as well as of the growing interest in renewable energy by the local stakeholders, politicians and the population of the region, the choice for the location of the 2<sup>nd</sup> workshop was not a hard one to make.

ELARD made use of its vast network of Local Action Groups (LAGs) and with the valuable help of LAG Cserhatalja began to work towards the preparation of the workshop. The first step was to identify local partners who would be interested in helping with the organisation and promotion of the event either actively or by simply endorsing it. Given the mismanagement of the vast forest areas in Nograd County, the perceived positive effects that renewable energy can have for the local economy and the attractive theme of the workshop, ELARD's and Cserhatalja's call for partners was successful. The organisation of the bioregions workshop was either endorsed or supported by the following bodies: the Kozard Self Government (Municipality), EurAgro (the most successful agricultural development consultancy in the region), LAG Bukk-Tersegi, the non for profit environmental organisation Sokoro Naturzona and last but not least the Hungarian National Rural Network.

Having completed the first and most important step, namely securing visibility and local support, ELARD finalized the outline of the workshop whose overall design aimed at raising awareness with regards to the benefits of renewable energy for rural areas (specifically biomass), while simultaneously promoting the project's results and raising local interest potentially leading to the emulation of the project.

# The workshop: "The Bioregions Project & renewable opportunities for rural Hungary"

The 2<sup>nd</sup> bioregions workshop organized by ELARD took place on Friday the 22<sup>nd</sup> of March 2013 in Kozard – Hungary. The title of the event was: "The Bioregions project & renewable energy opportunities for rural Hungary". The workshop was held in the community theatre building of the village of Kozard. During the registration process the guests were asked to sign the workshop's presence sheet and were handed the project's leaflet (66 copies in total) as well as a short questionnaire through which they had the opportunity to express their interest in the project and in its emulation in their own area. A total of 66 questionnaires were distributed to the participants out of which 18 were returned at the end of the workshop. All respondents answered positively both to the question concerning their interest in the bioregions project and



the one asking if they would be interested in starting a bioregion in their own area.

The workshop kicked off with the Mayor of Kozard, Mrs. Hajasne Banos Marta who took the floor to welcome the participants and to express her delight at the fact that such workshop was taking place in her Municipality. She went on to inform the participants that the Municipality of Kozard over the past couple of years has become very interested in renewable energy and that it is in their plans to engage more actively in relevant projects.

The floor was then given to Mr. Stefanos Loukopoulos - ELARD, who gave a general overview of the bioregions project, outlined the benefits that bioenergy can bring to rural areas and played the project's promotional video. Mr. Thanos Balafoutis from the Agricultural University of Athens focused his presentation on the results reached in the project's target region of Sredna Gora and provided the audience with a step by step guide on how to prepare a bioregion action plan.

Following a coffee break, during which the participants of the workshop had a chance to ask further questions and information on the project, the floor was given to Dr. Pal Hajas form LAG Cserhatalja who gave a brief presentation on the renewable energy projects carried out in his region. The second part of the day was in fact dedicated to promoting the concept of renewable energy and to showcasing various relevant projects and initiatives. The presentations given during this session where the following: "Biogas and rural income generation", "Integrated energy development EGME cluster planning and energy innovation in Nograd county", "Solar Energy Experiences in Central Europe" and "Decentralized Energy Generation & Storage".

Finally, the workshop was concluded with a networking lunch followed by an exhibition of different wood chipping machinery.

#### **Bioregions presentations**

ELARD along with its Bioregions partner from the Agricultural University of Athens gave two presentations titled "Presenting the Bioregions project & the positive aspects of bioenergy for rural areas" and "The Bioregions project & its activities in Bulgaria: towards the establishment of bioregions in Sredna Gora" (please see Annex 1 & 2).

Mr. Loukopoulos gave a 20 minute presentation aiming at introducing the project to the participants of the workshop and raising awareness towards the potential benefits of bioenergy. In doing so he began his presentation by outlining the basic characteristics of biomass and bioenergy. He then went on to provide the audience with some facts concerning the use of bioenergy in the EU and in particular in rural areas, while outlining the added value of its use both in the short and the long term. Mr. Loukopoulos touched upon the positive impacts of bioenergy for rural communities by explaining how it can generate new investment and provide



market and employment opportunities whilst improving infrastructure and of course health and livelihoods.

As for the second part of his presentation, Mr. Loukopoulos focused on presenting the Bioregions project in detail, focusing on its general aspects such as: the main goals and objectives, its background, the partner consortium, the main steps implemented during the project's lifetime and the expected results, most of which have already been achieved. At the end of his speech, Mr. Loukopoulos played for the audience the promotional video of the bioregions project and encouraged them to visit the website to access more detailed information and the project's completed deliverables.

Following Mr. Loukopoulos' presentation, the floor was given to Mr. Balafoutis from the Agricultural University of Athens, one of the Bioregions partner and mentor of the "Sredna Gora" region in Bulgaria. Mr. Balafoutis' presentation lasted about 30 minutes and it provided a step by step guide on how to go about developing a regional Bioenergy Action Plan by focusing on the case study of "Sredna Gora" - Bulgaria, which became a Bioregion due to the adoption of the Bioenergy Action Plan prepared during the course of the project.

In particular Mr. Balafoutis gave some general definitions to the audience on what is and how to create a bioregion; then he continued his explanation on how to adopt and implement a Bioregion Action Plan through the case of Sredna Gora region. He described the importance to refer to the European and National contexts from a legislative point of view before adopting a Bioregion Action Plan; he also defined the methodology adopted and data to be taken into account for the development of an action plan. He presented the general characteristics of the Sredna Gora region, its current energy situation, the existing bioenergy market and its potential; he focused also on the biomass supply chain process and the importance of the analysis and involvement of all stakeholders in the selected area. He gave some suggestions of concrete actions to be taken such as: the organisation of information campaigns/visits of best practice within the region, training, support/guidance for feasibility studies, development of a logistics/trading centre, providing guidelines to streamline permission process, cooperatives formation of forest owners or farmers, plan for large scale co-firing in power and district heating plants, use of existing local resources like energy agencies, taking into account competition with other sectors for the same resource (food, wood etc.). Mr. Balafoutis also presented all the criteria for the impact, assessment, monitoring and evaluation actions and he concluded with some final outcomes for the general audience, and specifically that:

- a) The Bioregions Action Plans in all 5 selected regions have been officially adopted by the authorities;
- b) Many key stakeholders have been engaged in their implementation;
- c) It is expected that this will result to various benefits for the regions in terms of economic, social and environmental aspects;
- d) The Bioregions experience can be helpful to pave the way for making the switch in other regions.



Both presentations were followed with great interest by the audience of the workshop something which became apparent by the numerous questions the two Bioregions speakers were posed during the coffee break.

#### The workshop's audience & media outreach

The audience was composed of 66 participants (see Annex 4) that were contacted trough e-mailing, phone calls, the Bioregions website, Euragro, Cserhatalja and Kozard's Municipality communications tools and ELARD's website and social media pages. The audience was mainly made up of representatives of municipalities, LEADER Local Action Groups (LAGs) from the area of Nograd as well as from neighbouring regions, LAGs from Slovakia, one from Poland and Portugal. Additionally present were representatives of private companies, NGOs active in renewable energies and consultants of the sector. The presence of the press was quite impressive as the workshop was covered by HIRTV (National News – section for agriculture and rural development), Kistermelok Lapja (small holders monthly), Nograd Provincial Daily and MNVH (the Hungarian National Rural Network's news section). Following the completion of the workshop, Mr. Loukopoulos and Mr. Hajas from LAG Cserhatalja (co-organizer) were interviewed by HIRTV.

Figure 1 & 2: View from the audience of the Bioregions Workshop in Kozard







# Annex 1: Presenting the Bioregions project – Mr. Stefanos Loukopoulos, ELARD.



Regional Networks for the development of a Sustainable Market for Bioenergy in Europe



Bioregions Workshop in Hungary – "The Bioregions Project & Renewable Energy Opportunities for rural Hungary"

Kozard, 22nd of March 2013

Presenting the Bioregions project

Stefanos Loukopoulos ELARD Coordinator Bioregions project manager for WP5

www.bioregions.eu



# Some basic facts on Bioenergy

- •Bioenergy is one form of renewable energy among many from other sources (wind, solar, hydraulic, etc.)
- •Bioenergy, when produced sustainably, saves greenhouse gas emissions.
- ·Bioenergy accounts for more than two thirds of total renewable energy in the EU.
- •Biomass for energy is mainly provided by forestry, agriculture and organic waste.
- •Feedstocks for bioenergy are storable; bioenergy can thus be produced constantly and is a very reliable source of energy.
- ·Biomass is amply available in most parts of Europe.
- •Biomass can be either in solid, liquid or gaseous form and can be used to produce electricity, direct heating, or transport fuels.







# Why go for bioenergy? Bioenergy & Rural Development

- •Biomass is the most used source of renewable energy in Europe and 80% of it comes from wood.
- Production of bioenergy is therefore another important function of European forests, and a growing economic sector with much potential for boosting economic development and employment in rural areas.
- Bioenergy from wood is not only renewable but it is also largely considered as carbon neutral, so production of wood-based energy supports EU strategic goals for 2020 of achieving 20% use of renewable sources in energy production, as well as a

20% reduction in carbon emissions.





# Why go for bioenergy? Bioenergy & Rural Development

- •Bioenergy **brings new investment** into the agricultural sector which over the last decades has had to sustain productivity improvements in the face of declining real prices for food and agricultural commodities.
- New investment can provide market and employment opportunities.
- Bioenergy growth, if managed appropriately, can also contribute to **improving** infrastructure and market access in rural areas.
- Modern bioenergy can also be a clean source of energy in rural areas that can provide new opportunities for modernisation of agriculture and the rural economy and improve access to modern energy services for households. Reducing indoor pollution by switching to cleaner biofuels can **improve health and livelihoods**.







# There are many more good reasons to use biomass...

- ·Biomass is solar energy stored in organic matter
- Biomass is a renewable energy source
- •Biomass for provision of heat, electricity and fuel is expected to contribute considerably to the future energy supply for Europe
- •The use of biomass instead of fossil fuels will limit the dependence on oil
- •The use of biomass instead of fossil fuels will reduce the greenhouse gas emissions
- •Biomass and bioenergy will provide an additional income for farmers and will contribute to rural areas development





# **Bioregions Project Summary**

The project will support the creation of "bio-energy regions" in rural areas of Europe.

A "bio-energy region" gets at least 1/3 of its heating and electricity needs from regional and sustainable bio-energy sources, with main focus on solid biomass.

#### BioRegions aims to:

- Support the development of efficient and reliable markets for solid biomass in the five target regions.
- Stimulate investment into bio-energy projects and trading businesses of local Stakeholders.
- Inspire the rural areas of Europe to follow the example of the target regions.







# **Target Regions**

- Sredna Gora Buglaria
- > Slavicin & Brumov-Bylnice
- Trieves France
- County Westmeath Ireland
- Limbazi Latvia

#### **Best Practice Regions**

- > Achental Germany
- Jonkoping Sweden







# Consortium

























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# Objectives and main steps

# The *BioRegions* is a focused project that up to now:



- 1. Has identified success factors in "best practice" regions
- 2. Has organised networking activities in the target regions
- 3. Has defined Action Plans for 5 new bio-energy regions
- 4. Is supporting the implementation of the Action Plans
- 5. Is encouraging and supporting other regions to replicate these activities





# **Expected Results**

- Each target region has formally adopted an Action Plan with a timetable and milestones to enhance their bio-energy to at least 1/3 of the energy demand for electricity and heating.
- ii. The first steps of the plans will be implemented
- 5 specific projects will have their funding options analysed and will get support to secure full funding
- At least 2MW of projects will be in the pipeline by the end of BioRegions
- After the end of the project there will be a clear plan, political support and a critical mass of engaged local actors that will ensure the continuation of the project activities.
- vi. The network of ELARD that has access to more than 900 regions of Europe will be encouraged and supported to implement similar activities in their areas.







# Thank you for your attention!

Don't forget to visit <u>www.bioregions.eu</u> to view our project's latest results and more!





# Annex 2: How to prepare an action plan for a future Bioregion – Mr. Thanos Balafoutis, Agricultural University of Athens.



Regional Networks for the development of a Sustainable Market for Bioenergy in Europe



#### Contract N°:

IEE/09/769/SI2.558258 **Duration:** 05/2010 – 04/2013

Date: 22/03/2013

# How to prepare an action plan for a future Bioregion?

Thanos Balafoutis
Agricultural University of Athens

www.bioregions.eu



## Introduction

#### What is a bioregion?

A "bio-energy region" gets at least 1/3 of its heating and electricity needs from regional and sustainable bio-energy sources, with main focus on solid biomass.

#### How you can create a bioregion?

- > Identify the biomass potential for energy in the region.
- ➤ **Highlight** the environmental benefits, together with other advantages (rural development and tourism)
- The supply chain players, the local authorities and the end-users need to realize the benefits
- > Access to expert support and to up-to-date information
- Support the development of efficient and reliable markets for solid biomass in the region.
- Stimulate investment into bio-energy projects and trading businesses of local Stakeholders.





# Development of the regional Bioenergy Action Plan

# The case study of "Sredna Gora" region in Bulgaria





### Introduction

- 1.1. Background (Why developing an action plan)
- European context
- National and regional context
- 1.2. Aims for the development of the action plan

Implementation of measures for the utilization of forest residues and waste biomass in the Sredna Gora region for the purposes of switching from using primitive biomass and fossil fuels to using modern biomass.

**1.3. Methodology for the development of the action plan** (short explanation of the template), including definitions.

#### Data derived by:

- · Executive Forest Agency
- · Regional plans for municipal development
- · Development Strategy for the South Central Region
- · Studies of Energy Agency of Plovdiv
- Surveys







# General characteristics of the region

- · Geographical setting, natural conditions
- · Administrative structure
- · Demography and settlement pattern
- · Economic situation

#### "Sredna Gora" region in Bulgaria

- Total area of 5 990 km².
- · 6 municipalities.
- population of 121 440, out of which 65 700 in the main cities
- 37% of the total area is forest.
- · No gas distribution network.
- Tourism, eco-agriculture, forestry, light industry, and mining.





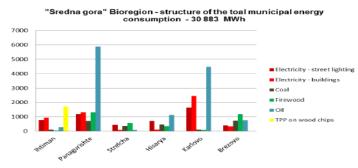


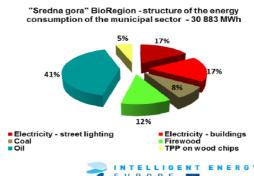
# **Current energy situation**

- · Current energy infrastructure
- Current energy supply and consumption (per energy carrier available data)

including relevant infrastructure like district heating networks or coal power plants able to co-fire biomass

If data missing, make estimates. If not possible, describe qualitatively. Then, monitoring of progress is one of the most important activities.





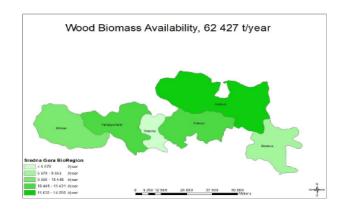




# **Existing Bioenergy market**

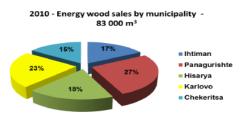
#### o Bio-energy supply

Private wood cutting → FREE Forest management bodies → 30 – 37 €/t Dealer → 50 €/t



#### o Bio-energy consumption

Self-sufficient households Municipalities Industries





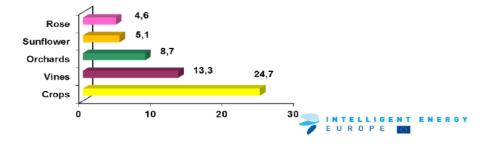


# **Bioenergy potential**

 Overview (table) of technical and economic potential of biomass (including also overview of biomass potential used already)

Forest administrations	Ihtiman	Panagurishte	Hisarya	Karlovo	Chekerica	Total	Energy
	m³	m³	m³	m³	m³	m³	
Total annual growth (including branches)	70 492	108 379	22 596	70 045	54 000	325 512	
Total annual use (including branches)	40 180	67 195	31 090	40 486	43 632	222 584	
Annual use to growth rate (in %)	57	62	55	57,8	80,8		287 725 MWh (1 035 TJ)

"Sredna gora" Bioregion energy potential by types of solid agricultural residues - 56 433 MWh







# **Biomass Supply Chain**

#### Current supply practices of biomass

Firewood for households, partly public buildings

#### Gaps in biomass supply and logistics, meeting the potential

- ✓ The regulatory body do not support biomass
- ✓ Biomass receives feed-in tariffs only when electricity is produced
- √ No legal framework for biomass household heating regulation or stimulation
- ✓ Fuel oil is used for public building heating
- ✓ Fuel oil is not charged with excise tax when sold to municipalities
- ✓ subsidies for energy efficiency measures in buildings are targeted in retrofitting.

#### Determine if there is a need of a biomass trading centre





# **Stakeholders Analysis**

(Here we mean stakeholders related to supply and/or demand for bioenergy and regional (administration) bodies that should adopt and be responsible for implementation of the action plan).

#### Examples of relevant stakeholders:

- √ Municipalities
- ✓ Regional authorities
- ✓ National or regional energy agencies
- √ Biomass associations
- ✓ Manufacturers of equipment
- ✓ Potential suppliers of biomass (forest managers, farmers, wood processing industry, furniture industry, pulp & paper industry, food industry)
- ✓ District heating plants
- ✓ Potential project developers
- ✓ Other stakeholders that could take the role of manager of a logistic centre, etc.







# **SWOT analysis**

#### Strengths

- · Rich supply of biomass
- New Forestry Act (potential of forest residues for energy purposes)
- Introduction of long term contracts for supply of woody biomass
- Preferences given to local firms for the supply of biomass
- Lack of gas distribution network
- · Existing production of local biofuels
- · Biomass boilers available on the market

#### **Opportunities**

- The prices of energy sources are constantly going up, which makes biomass a cheaper alternative
- · More employment opportunities
- Market for heating systems is in need for reliable producers of biofuels
- ESCO funding mechanisms for financing biofuels for public buildings

#### Weaknesses

- · No feed-in tariffs for biomass heating
- · Biofuels price competitiveness
- Difficulty in forest biomass harvesting
- No state policy for residential heating
- Weak internal market (60 000 tons of pellets are exported)
- No national standards for assessment and quality control of biofuels
- Lobbying in favor of liquid fuels and electricity for heating

#### Threats

- Biomass is used in other sectors pulp and paper, furniture, and wood export
- · Investors interested in big installations
- · Decentralized heating systems lack capital
- · High interest rates of loans
- Lack of balanced proportions of the different elements along the bioenergy supply chain



EUROPE



# Overall bioenergy vision

This part is related to general (qualitative) targets and objectives

- Production and use of biomass resources
- · Bio-energy technologies
- · Bio-energy generation and use

Switching from traditional use of biomass to a modern one – Upgrading the traditional burning of biomass through the integration of new biofuels and technology with high COP

#### Efficient use of available biomass

secure supply of biomass in the region will lead to the creation of new employment opportunities. The benefits from biomass trade will be realized in the region, which could improve the standard of living.

#### Introduction of modern technology

the main objective is the promotion of proven technology that will ensure the processing of biomass for energy production. Boilers for biomass gasification, automatic pellet boilers, and small co-generation plants will be promoted.

#### Optimal use of biomass resources for the production of energy

the objective is other sources of biomass such as agricultural waste to be used simultaneously with woody biomass.





# Targets for the next 10 years

Here quantitative targets should be set

- · % of heat produced by biomass
- · % of electricity produced by biomass
- √ 86% of the total energy consumption in the "Sredna Gora" region will be supplied from biomass (60 % in the base year – 2010)
- ✓ 22 % of the total energy consumption will be supplied from modern utilization of biomass
- ✓ 17% increase in energy efficiency through reduction of the use of electricity for heating water and through integration of residential furnaces with high COP (COP more than 85 %)
- Electricity consumption in public buildings reduced by 25 % → switch to modern biomass for heating and replacing the electrical boilers for heating water.
- Electricity consumption in households reduced by 25 % → integrating modern use of biomass and replacing the electrical boilers for heating water (reduction of 20500 MWh).
- Consumption of fuels will be reduced by 40 % → integration of modern biomass and new boilers with high COP. The projected energy savings are 42800 MWh.





## **Milestones**

- Year 1 setting up of pilot infrastructure for the utilization of biomass
- Year 2 decisions on pilot public buildings switch to use biomass
- Year 3 recruitment of agricultural potential for production of biofuels
- **Year 5** all public buildings switch to using biomass, establishment of three logistic centers that will serve the needs of the entire region
- Year 7 at least 10 000 households using modern heating systems on biomass







## **Concrete actions**

#### Suggestions for describing concrete actions:

- Structure by type of activity
- Then structure by time, short-term and long-term and then for each action when activity starts, when implemented

#### Some examples of concrete actions:

- Information Campaigns/Visits of best practice within the region
- Training
- Support/Guidance for feasibility studies
- Development of a logistics/trading centre
- Providing guidelines to streamline permission process
- Cooperatives formation of forest owners or farmers
- Plan for large scale co-firing in power and district heating plants
- Use of existing local resources like energy agencies
- Take into account competition with other sectors for the same resource (food, wood etc)





# Impact Assessment, Monitoring and Evaluation

#### **Impact Assessment**

Possible Environmental impacts of the action plan implementation (positive like CO2 reduction) and negative impacts (such as competition for wood with other sectors)

Socio-economic impact like job creation etc.

#### Progress Monitoring and Evaluation

This section should include actions related to:

- regular reporting of progress,
- · data collection during the action plan time frame
- revision of targets and actions based on the actual progress
- quality control







## **Final Outcome**

- The Action Plans in all 5 regions have been officially adopted by the authorities
- Key stakeholders have been engaged in their implementation
- It is expected that this will results to various benefits for the regions in economic, social and environmental aspects.
- Our experience can help you to pave the way for making the switch in your region.





# Thank you for your attention







#### Annex 3: Bioregions workshop agenda











Agricultural Development Ltd.





The Self Government of Kozard village - Hungary, the European LEADER Association for Rural Development and the Euragro Agricultural Development Ltd. invite you to the following event:

#### **BioRegions Workshop in Kozard-Hungary**

"The BioRegions project & renewable energy opportunities for rural Hungary"

When: Friday 22<sup>nd</sup> of March 2013 from 9:00 until 16:30

Where: Kozard Hungary - Kozard Community Theater and village show area

#### Contact persons:

ELARD: Stefanos Loukopoulos, <u>stefanos.loukopoulos@elard.eu</u> LAG CSERHATALJA: Pal Hajas Dr, hajas@cserhatalja.eu

#### **Cooperating Organizing Partners**

	Kozárd Község Önkormányzata / Kozard Self Government, Hungary <u>www.kozard.hu</u>
ELLA POLICIE	ELARD, European LEADER Association for Rural Development, Brussels, Belgium www.elard.eu
EurAgro	EurAgro Agrárfejlesztési és Tanácsadó Kft. / EurAgro Agricultural Development and Advisory Ltd. Kozard, Hungary <u>www.euragro.hu</u>
	Cserhátalja Vidékfejlesztési Egyesület LEADER HACS / LAG Cserhatalja LEADER, Kozard, Hungary <u>www.cserhatalja.eu</u>
BÜKK-ténséci	Bükk-Térségi LEADER Egyesület / Bukk-Region LEADER LAG, Bukkaranyos, Hungary www.bukkleader.hu
Soloro Naturolna Noncrofii Kit.	Sokoró Naturzóna Nonprofit Kft., Gyor, Hungary. <u>www.naturzona.hu</u>



## Agenda

Friday 22nd of March, 2013						
Time	Content	Speaker				
09:00 - 09:30	Registration	-				
09:30 - 09:40	Welcome by Mayor of Kozard	Dr. Hajasné Banos Márta				
09:40 – 10:00	Presenting the BioRegions project & the positive aspects of bioenergy for rural areas	Stefanos Loukopoulos (ELARD – BioRegions)				
10:00 – 10:20	The Bioregions project and its activities in Bulgaria: towards the establishment of bioregions in Sredna Gora.	Thanos Balafoutis (Agricultural University of Athens – Bioregions)				
10:20 - 10:35	Question & Answer Session	ALL				
10:35 – 11:00	Coffee Break					
	Local Action Groups and renewable en	ergy projects in North-Hungary				
11:00 – 11:15	"1 village – 1 MW" MIKROVIRKA Smart Grid development	Dr. Nagy József, President LAG BUKK-Mak				
11:15 – 11:30 11:30 - 11:50	Municipalities and renewable energy projects: Kozard Municipality renewable energy project  Development of Zero emission transport infrastructure in rural environment (LEADER BEV Ways)	Dr. Hajas Pál, President, LAG Cserhatalja, Director EurAgro Dr. Nagy József, President LAG BUKK-Mak				
11:50 - 12:10	Biogas and rural income generation	Enyingi Tibor, Director, Sokoró Naturzóna Nkft.				
12:10 - 12:30	Integrated energy development EGME cluster planning and energy innovation in Nograd county	ifj.Dr.Paróczai Péter, EGME Cluster, Pannon Development Foundation				
12:30 – 12:50	Solar Energy Experiences in Central Europe	Öze Domonkos, Eco3Energy - Slovakia				
12:50 - 13:05	Decentralized Energy Generation & Storage	Tóvalvi Zsolt, Verno Energy, Törökbálint				
13:05 – 13:15	Question & Answer session	ALL				
13:15 – 14:15	Press Conference	e & Lunch				
14.15 10:45	Technical Exhibition and Poster session by SME's	ALL				
14:15 – 16:15	Networking session for stakeholders	ALL				

Nagy J: Nissan Leaf E-Car +töltőáll bemutatása, poszterek



#### **Annex 4: Presence Sheet**







Kozárd Self Government, Hungary

The European LEADER Association

Agricultural Development Ltd.





#### **BioRegions Workshop in Kozard-Hungary**

"The BioRegions project & renewable energy opportunities for rural Hungary"

Friday 22<sup>nd</sup> of March 2013

Kozard Hungary - Kozard Community Theater and village show area

Full Name	Organisation	Telephone	e-mail	signature
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Balogh Ernőné	InterEnergia Np. Kft.		b31@t-online.hu	July Coi
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Tarnóczi László				
Csuka Enikő				
Bőle István				300 Cet
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Kozárd Self Government, Hungary

The European LEADER Association

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HAJAS PĖTER	EEVST BY HAYAS FLAC.		pphajas@gmail.com	tycz
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## Annex 5: Bioregions questionnaire in Kozard





Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

Kozard - Hungary, 22.03.2013

The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	15.25.05.15.24.24.24.25.45.26.000.000.000.000.000.000.000.000.000.
Would you be interested in finding out more on how to start a bioregion in your area?	×	

Name	Surname	Organisation	e-mail
Tibor	Emily	Soford Nakiry	naturana @ materra







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Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

#### Kozard - Hungary, 22.03.2013

The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	×	137,11
Would you be interested in finding out more on how to start a bioregion in your area?	×	

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## Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

## Kozard - Hungary, 22.03.2013

# The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	D- AMBUN
Would you be interested in finding out more on how to start a bioregion in your area?	×	

Name	Surname	Organisation	e-mail
SILVIA	PAPA i OVA	MAS OZ KRAS	MANAZER @ HASKERS. SK







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### Regional Networks for the development of a Sustainable Market for Bioanergy in Europe

### Kozard - Hungary, 22.03.2013

# The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	×	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Name	Surname	Organisation	e-mail
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### Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

### Kozard - Hungary, 22.03.2013

#### The Bloregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Name	Surname	Organisation	e-mail
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# Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

# Kozard - Hungary, 22.03.2013

# The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project Interesting?	X	Anderson and the Control of the Control of the Control of the Control of Cont
Would you be interested in finding out more on how to start a bioregion in your area?	×	

Name	Surname	Organisation	e-mail
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Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

## Kozard - Hungary, 22.03.2013

The Bioregions Project & Renewable Enegry opportunities for rural Hungary

D	YES	NO
Did you find the Bioregions project interesting?	K	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Name	Surname	Organisation	e-mail
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Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

## Kozard - Hungary, 22.03.2013

The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

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# Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

## Kozard - Hungary, 22.03,2013

# The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?		
Would you be interested in finding out more on how to start a bioregion in your area?	/	

Name	Surname	Organisation	e-mail
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Did you find the Bioregions project interesting?

Would you be interested in finding out more on how to start a bioregion in your area?

Name Surname Organisation e-mail
GRZEGORZ SALLETRA LAG Rej Sunctive@ Leader-yviecpl

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Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

# Kozard - Hungary, 22.03.2013

# The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	
Would you be interested in finding out more on how to start a bioregion in your area?		X

Name	Surname	Organisation	e-mail
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# Regional Networks for the development of a Sustainable Market for Bloenergy in Europe

## Kezard - Hungary, 22.03.2013

# The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Name	Surname	Organisation	e-mail
Jose"	lopes	ADELO	GERNI CORDELO. PT







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Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

Kozard - Hungary, 22.03.2013

The Bloregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	7	2005000000
Would you be interested in finding out more on how to start a bioregion in your area?	1	

Name	Surname	Organisation	e-mail
HELENP	Dugu	AD TO	HPRIOFIDALGO @ADOLO. A







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# Regional Networks for the development of a Sustainable Market for Bicenergy in Europe

## Kozard - Hungary, 22.03.2013

# The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	×	
Would you be interested in finding out more on how to start a bioregion in your area?	×	

Name	Surname	Organisation	e-mail
ZOLTÁW	MILASOVALY	MM B. Enlig.	milarousy @ small co







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Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

# Kezard - Hungary, 22.03.2013

The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Name	Surname	Organisation	e-mail
ATTICA	SINKA	HM BUDAPESTI EKDÖGAZDASA'G ZR	saka@sp-erdo.hu









# Regional Networks for the development of a Sustainable Market for Bioanargy in Europa

# Kozard - Hungary, 22.03.2013

# The Bloregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Namo	Surname	Organisation	e-mail
Name PETER	PANÓCZAI	EGMEduster	paroczai potala chello. Lu







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Regional Networks for the development of a Sustainable Market for Bioenergy in Europe

Kozard - Hungary, 22,03,2013

The Bioregions Project & Renewable Enegry opportunities for rural Hungary

	YES	NO
Did you find the Bioregions project interesting?	X	
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Name	Surname	Organisation	e-mail
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Regional Networks for the development of a Sustainable Market for Bloenergy in Europe

Kozard - Hungary, 22.03.2013

The Bioregions Project & Renewable Enegry opportunities for rural Hungary

Questionnaire on Bioregions Project

ana, and an	YES	NO
Did you find the Bioregions project interesting?	X	and the second second
Would you be interested in finding out more on how to start a bioregion in your area?	X	

Namo	Surname	Organisation	e-mail
Name		ALMACENTRUI	y pepar lorenta
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EUROPE



# **Annex 6: Pictures from the workshop**



The Mayor of Kozard, Mrs. Hajasne Banos Marta & Dr Pal Hajas from LAG Cserhatalja opening the workshop.



Mr. Thanos Balafoutis (AUA – Bioregions) giving his presentation.





Mr. Loukopoulos (ELARD-Bioregions) giving his presentation.



Mr. Loukopoulos playing the project's promotional video to the workshop's audience.







Networking coffee break.





 $\mbox{Mr.}$  Balafoutis during the wood chipping machinery exhibition.



Wood chipping in action!





Participants of the workshop at the exhibition site.



Mr. Balafoutis & Loukopoulos holding the bioregions' promotional poster



# Annex 7: Workshop's promotional poster

