BioPAD- Promoting Bioenergy Use and Supply Chain Development in the Northern Periphery

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IrBEA National Bioenergy Conference

6 February 2014

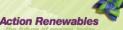




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BioPAD- Bioenergy Proliferation and Deployment



Focus of the project is on *improving innovation and competitiveness* in rural and peripheral regions

By using bioenergy we:

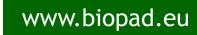
- Provide jobs
- Stimulate our local economies
- Unlock the potential of our local natural resources
- Make ourselves fuel secure
- Reduce our CO₂ emissions

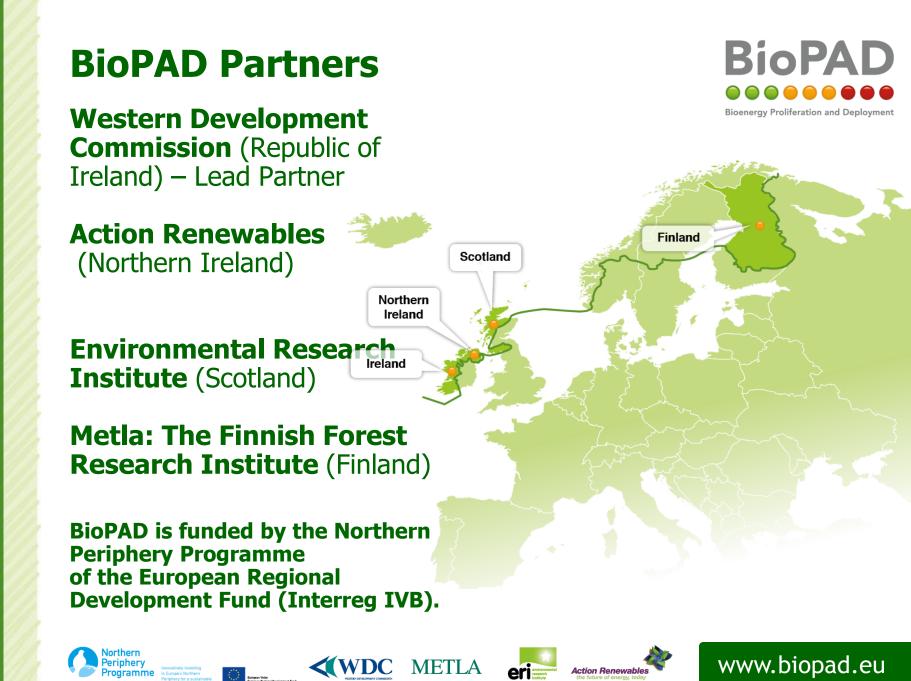












BioPAD will improve understanding of local bioenergy supply chains (Heat)



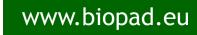
- Focus on different bioenergy fuel types:
 - wood,
 - energy crops
 - agricultural and other organic wastes
- Highlight different conversion methods
 - Combustion,
 - Combined Heat and Power (CHP)
 - Anaerobic Digestion
- BioPAD Supply Chain Tool and App which will clearly show the steps from fuel source to energy











Why might Bioenergy supply chains be slow to develop?



Is it?

- Lack of supply?
- Lack of demand?
- Lack of awareness?
 - The supply chain of experience

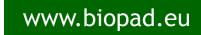












What is the impact of undeveloped supply chains?



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- Hard to meet targets
- Businesses slow to respond to opportunities
- Mismatch between supply and demand
 - Leads to lack of activity
 - Stranded investments
 - Imports
- Potential loss of local benefit- if capital and profit goes elsewhere











What do we need to think about?

- What kind of supply chains do we want?
- Should we just be grateful for anything?
- Is there room for all kinds?
- Meeting the targets?
- For BioPAD- which bring most local benefits: employment, local capital, social and community benefits

What can we do locally?

Are we ready for success?











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Bio

What is BioPAD doing?



Policy Focus

- BioPAD will help us to ensure that targeted policies and actions can increase bioenergy use and help capture the benefits of it locally
 - Broad interpretation of policy- addressing the local blockages
 - working with IrBEA on Energy Crops
 - Working with Donegal Woodland owners on opportunities and implications of the RHI in NI

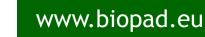
BioPAD has a Policy Stakeholder network on Linked In











What is BioPAD doing? Güssing and Eastern Austria-BioPAD study tour

- Bioenergy as a driver for regional development
- Example of mature sector
 - Local manufacturing
 - Local education
 - Local resources



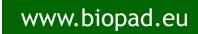












BioPAD

What is BioPAD doing? Study tour to Finland- North Karelia Region



February 10th -13th

It's going to be cold!

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- Will visit a variety of bioenergy projects
- Enabling policy environment
 - Emphasis on multiple benefits: Fuel security, CO₂ savings, natural resource use, local potential & regional development

METLA

Action Renewable

Workshop on business opportunities



Waht is BioPAD doing? The BioPAD Supply Chain Tool



- The BioPAD Tool will be launched in the coming weeks
 - Content prepared by Finnish partners Metla
- The Tool shows people the stages of supply chains and give information about each.
 - Simple information is provided for those trying to understand the stages in a Bioenergy supply chain
 - More detailed technical information is also available
- Customized report produced, based on your interests and choices in the Tool
- Socio-economic aspects, CO₂ emissions, value chains will be included by September 2014
- Mobile App version of the tool will be developed and available from the App and Play stores.

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The BioPAD Supply Chain Tool



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Action Renewables

Supply Chain Tool

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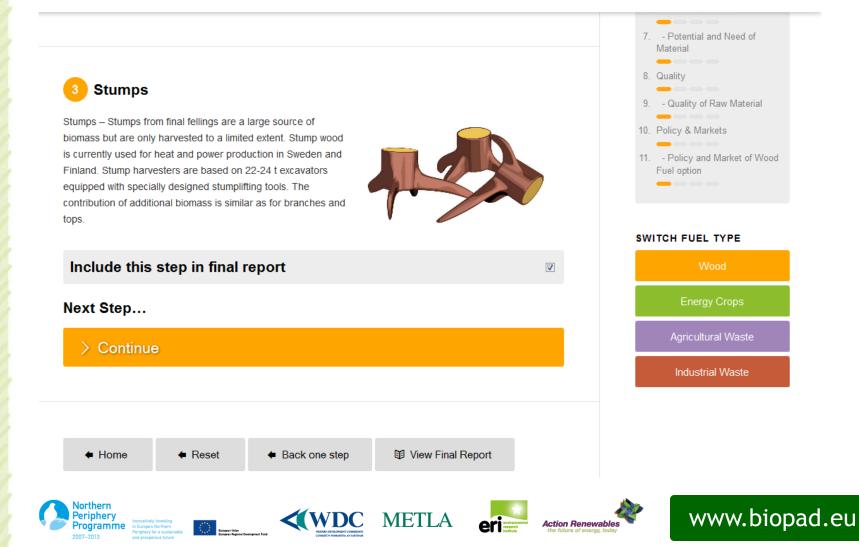
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Create your own report now - choose a fuel type



The BioPAD Supply Chain Tool

BioPAD



The BioPAD Supply Chain Tool



euismod leo luctus porttitor. Suspendisse justo arcu, teugiat eget sem id, tincidunt placerat augue. Cras ac arcu convallis ante porttitor pellentesque. Nulla facilisi.



Include this step in final report

Next Step...

Next, please select the TYPE of Raw Material

> Wood Chips

- > Wood Pellets
- > Wood Briquettes

> Wood Logs

> Other





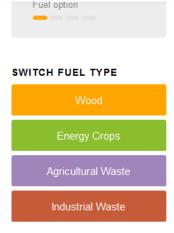




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Examples of working bioenergy projects in partner countries

Supply chain analysis will be added

Broad range of fuel types and conversion methods







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attila Farm, situated in Nurmes in eastern Finland established a small asification of wood chips and provides bioenergy to the farm and



ale (140Kw) CHP plant in December 2012. The CHP is based on the

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ATEST NEWS

Creed Integrated Waste Management Facility 1 Jul 2013 / In Case Studies, Scotland / by admin-biopad

facility is based on the Isle of Lewis, part of the Outer Hebrides. I

wolves the treatment of biowaste (paper, garden & kitchen waste) to produce energy by anaerobic digestion and CHP (fuelled by biogas). Jore information on this facility can be found at http://www.cne-siar.or





Some questions still to be answered:

What are the LOCAL socio economic benefits of bioenergy?

• Where are the blockages in the supply chains?

Novel bioenergy business opportunities













Local economic and social benefits of Bioenergy



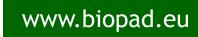
- There has been work on economic impacts of bioenergy- OECD, IrBEA, Coillte
- BioPAD will focus on LOCAL benefits
 - How does bioenergy provide local jobs
 - Does it help create new enterprise?
 - How does import substitution work locally?
 - Local bioenergy- virtues and vices?
 - The virtuous supply chain?
 - How do we get the most from it?











Supply chains: where are the missing links?





Aim to address typical difficulties occurring at different stages of the supply chain, from fuel procurement to support services and on to conversion.

Objective is to then spread learning from the solutions

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Bioenergy business opportunities-Learning from our partners?



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- Innovative businesses operating in other countries?
- Are there business types and models that would succeed here?
- Process innovation? Better ways of doing things?

METLA

Can we be more competitive?

A role for BioPAD?



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BioPAD Bioenergy Proliferation and Deployment

Contact Us Links **BioPAD** Home What is BioPAD? About Bioenergy Bioenergy Supply Chain Tool Case Studies News Q About Bioenergy We have the tools! Bioenergy is a key renewable energy resource. In the Autumn of 2013 we will be launching our which is derived from any organic material Bioenergy Supply Chain Tool which will (biomass), including energy crops, wood, highlight key steps along the supply chain for organic waste, agricultural, agri-food, manures, each fuel type or conversion method. We will household waste and sewage also be launching it as an App. Stay tuned! Read more about Bioenergy > Read more about the Tool » **Case Studies** Latest News As part of the BioPAD project, a number of case NEWS studies will be carried out on different fuel types **BioPAD to Launch!** and conversion technologies in each of the partner regions. Highlands and Islands Bioenergy Alliance See all Case Studies » EP. The production of Forest Energy in Finland The New BioPAD logo has arrived!





BioPAD (Bioenergy Proliferation and Deployment) targets the Northern Periphery of Europe and aims to ensure that bioenergy becomes more widely used and that awareness of the opportunities it provides are increased.

Read more about BioPAD »

Policy

BioPAD will help us ensure that targeted policies and actions can increase bioenergy use and help capture the benefits of it locally. The aim is to integrate broader rural and peripheral region policies and enterprise development policy approaches, to using bioenergy development as a means of stimulating local economic development and job creation.

Read more about Policy »

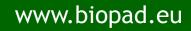












The BioPAD Blog

Bioenergy Proliferation and Deployment

Home About

BioPAD goes to Donegal!

Posted on October 7, 2013

BioPAD (<u>www.biopad.eu</u>) partners will be meeting in Donegal, Republic of Ireland, this week. We have a busy schedule planned with the Western Development Commission (www.wdc.ie), have been working to co-ordinate the programme to fit in as much as possible.



On Tuesday we'll be visiting two local BioPAD case studies. The first case study is the Donegal Woodland Owners Society (www.donegalwoodlandowners.com). We'll be visiting one of their forests at Ballyshannon, and then going to their boiler installation at Laghy, Co. Donegal where the DWOS has been contracted to supply heat for a nursing home. We hope to fit in a visit to their timber depot before heading across the border to one of the Northern Ireland case studies. We'll be visiting John Gilliland's farm in L' Derry, where his company Original Heating (www.originalheating.com) is located where we will learn about the wood fuel sumply business in Northern Ireland and the builers that

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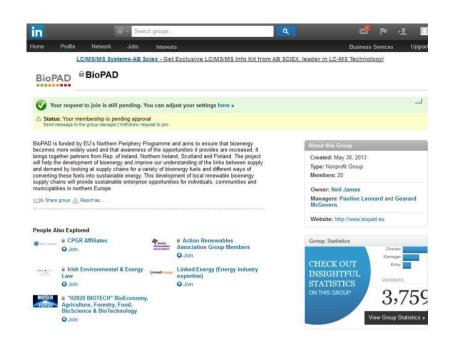




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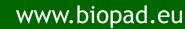












BioPAD Networks: Face to Face

BioPAD









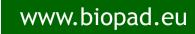












BioPAD on facebook

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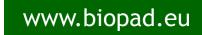












I'd like to hear from you!

Contact me at:



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