

ENERGY BARGE

Building a Green Energy and Logistics Belt

Project Code: DTP1-175-3.2

Deliverable 5.1.2

Common methodology/unified structure of the pre-feasibility pilot studies

5th December, 2017



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About the ENERGY BARGE project

The Danube region offers a great potential for green energy in the form of biomass. The main objective of ENERGY BARGE is to exploit this potential in a sustainable way, considering the Renewable Energy Directive 2009/28/EC, thereby increasing energy security and efficiency in the Danube countries. The project brings together key actors along the entire value chain, biomass companies and Danube ports as well as relevant public authorities and policy stakeholders. The project maps value chains and facilitates the market uptake of biomass, supports better connected transport systems for green logistics and provides practical solutions and policy guidelines. The Agency for Renewable Resources (FNR) coordinates the ENERGY BARGE project consortium with fourteen partners from Austria, Bulgaria, Croatia, Germany, Hungary, Slovakia and Romania.



Project coordinator

Agency for Renewable Resources

Fachagentur Nachhaltende Rohstoffe e.V.	FNR	Germany
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Project partners

BioCampus Straubing GmbH	BCG	Germany
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Deggendorf Institute of Technology	DIT	Germany
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Austrian Waterway Company	VIA	Austria
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Port of Vienna	PoVi	Austria
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Bioenergy2020+ GmbH	BE2020	Austria
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International Centre of Applied Research and Sustainable Technology	ICARST	Slovakia
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Slovak Shipping and Ports JSC	SPaP	Slovakia
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National Agricultural Research and Innovation Center	NARIC	Hungary
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MAHART-Freeport Co. Ltd.	MAHART	Hungary
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International Centre for Sustainable Development of Energy, Water and Environment Systems	SDEWES Centre	Croatia
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Public Institution Port Authority Vukovar	PoVu	Croatia
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Technology Center Sofia Ltd.	TCS	Bulgaria
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Romanian Association of Biomass and Biogas	ARBIO	Romania
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Federation of owners of forests and grasslands in Romania	Nostra Silva	Romania
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About this document

This report corresponds to “D 5.1.2 Common methodology/unified structure of the pre-feasibility pilot studies” of the ENERGY BARGE project. It has been prepared by:

Due date of deliverable:	2017-12-06
Actual submission date:	2017-12-05
Start date of project:	2017-01-01
Duration:	30 months

Work package	WP5
Task	D 5.1.2.
Lead contractor for this deliverable	MAHART Freeport Co. Ltd.
Editor(s)	N/A
Author	MAHART Freeport Co. Ltd.
Quality reviewer	Birger Kerckow (FNR)

Version	Date	Author(s)	Reason for modification	Status
1.1	2017-11-20	MAHART	Request for input from partners	finalised
1.2	2017-12-05	MAHART	Integration of input	finalised
2.0	2018-01-04	MAHART	Final version(after QAM)	finalised



Background

This deliverable “D 5.1.2 Common methodology/unified structure of the Pre-feasibility Pilot Studies of ENERGY BARGE” is based on the task as described in the latest approved version of the Application Form of the project ENERGY BARGE (Project Code: DTP1-175-3.2).

- Activity 5.1. *Pre-feasibility pilot studies to prepare large-scale investments to transfer ports into biomass hubs* (Lead: MAHART)

The port partners of the project will elaborate pre-feasibility pilot studies (including investment plans) in order to define development plans and investment needs required to strengthen ports as logistics hubs for the bioenergy sector, where biomass is handled, stored and manipulated in the most appropriate way.

Individual pre-feasibility pilot studies will be prepared following a common methodology which will help the port partners to develop their pre-feasibility studies following a unified approach and will also support the preparation of the synthesis report (D 5.3.2). Each individual pre-feasibility study will define development plans and investment needs - to prepare large scale investments beyond the project duration - of participating Danube ports in bioenergy logistics alongside the Danube river. Studies will investigate existing value chains, industrial and logistics capacities and identify technological solutions and related investment projects with a budget, cost-benefit analysis and timeframe.

Coordinator: MAHART (HU)

Involved Danube Ports: BCG (DE), PoVi (AT), SPAP (SK), MAHART (HU), PoVu (HR)

They all prepare their own pre-feasibility pilot study following the D 5.1.2 common methodology and will also be responsible for the involvement of policy makers and at least 5 industry stakeholders to derive industry knowledge and experience.

The key focus of the pre-feasibility study structure is to provide a guideline for the elaboration of feasible and economically sound investments to strengthen ports as logistics hubs for the bioenergy sector alongside the Danube. The study structure was elaborated based on various guides like the “*Guide to Cost-Benefit Analysis of Investment Projects Economic appraisal tool for Cohesion Policy 2014-2020* (European Commission 2014 - http://ec.europa.eu/regional_policy/sources/docgener/studies/pdf/cba_guide.pdf)”, issued by the European Commission. Previous ENERGY BARGE activities and deliverables, including the experiences gained during the preparation of D5.1.1 surveys, impressions gathered during the port exchange workshop and results and deliverables of T2 WP4 also contributed to the development of the structure. Further, objectives set in the Application Form were taken into account.

The unified structure of the pre-feasibility pilot studies is indicated on the following pages.

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