

ENERGY BARGE

Building a Green Energy and Logistics Belt

Project Code: DTP1-175-3.2

Deliverable 4.2.2

**Inventory of logistics services for transport, handling & storage of biomass
along the Danube**

22 June 2018



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I. 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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II. About this document

This report corresponds to D 4.2.2 *Inventory of logistics services for transport, handling and storage of biomass along the Danube* of ENERGY BARGE. It has been prepared by:

Due date of deliverable:	2018-10-31 (postponed in coordination with JS)
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Lead contractor for this deliverable	Austrian Waterway Company (VIA)
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1.1	2018-05-08	Ann-Kathrin Kaufmann (BCG)	Review of first draft	finalised
1.2	2018-06-01	WP4 partners	Review of first draft	finalised
1.3	2018-06-05	Benedikt Grath, Simon Hartl (VIA)	Final draft submitted to quality review	finalised
2.0	2018-06-22	Benedikt Grath, Simon Hartl (VIA)	Final version	finalised

1. Background

The deliverable “D 4.2.2 Inventory of logistics services for transport, handling & storage of biomass along the Danube” 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 4.2 Provide bioenergy industry with practical guidance for a modal shift towards Danube logistics (lead: BCG)

To achieve its specific objective and to support the development of a better connected, interoperable and environmentally friendly transport system for bioenergy logistics, ENERGY BARGE needs to identify logistics service providers, which are suitable for the transport, transshipment and storage of biomass along the Danube. A comprehensive and reliable inventory list of Danube logistics service providers that are specialised on logistics requirements of the biomass and bioenergy industry supports potential users of the Danube waterway in planning concrete transports.

The overall objective of this deliverable is to enable an easy access to information on appropriate port and terminal operators as well as on shipping companies and ship brokers. By providing the contact data of suitable service providers (website) the effort for potential customers of Danube logistics is kept on a minimum.

The inventory list of logistics services for transport, handling and storage of biomass along the Danube is published online since it is an essential input of the online modal shift platform (Output 4.1) for green bioenergy logistics (www.energy-barge.eu).

The inventory further serves as an invitation list for the regional Business-to-Business meetings organised in the frame of Activity 4.3 and Output 4.2. These stakeholders are also invited to join the modal shift platform for green bioenergy logistics with a company profile (Output 3.1 and 4.1).



2. Methodology

The data for the inventory list of appropriate logistics service providers for the biomass and bioenergy industry presented in chapter 3 was collected from the online platform “Danube Logistics Portal” which is operated by viadonau and available on www.danube-logistics.info. The main sub-databases from which the data sets were compiled are the “Blue Pages” (www.danube-logistics.info/the-blue-pages/) and the “Danube Ports” (www.danube-logistics.info/danube-ports/). The former constitutes a directory with information of all shipping companies and ship brokers operating along the entire Danube. The latter platform is a comprehensive directory with information on port and terminal operators and its infrastructure along the entire Danube. The data contained therein was provided directly by the listed companies and was extensively analysed for completeness and validity.

By applying the logistics criteria relevant for the transport, transshipment and storage of biomass defined in Activity 4.1, a subset of service providers was created to foster a modal shift towards inland waterway transports in the biomass and bioenergy sector.

Both inventory lists on logistics service providers were carefully revised and verified in order to create a reliable inventory, which will form the basis for further activities carried out in WP4. The WP4 port partners, i.e. PoVi, PoVu, MAHART, SPaP and BCG, supported VIA in close cooperation during the analysing and data verifying activities. The project partner Deggendorf Institute of Technology (DIT) integrates the inventory list in the modal shift platform for green bioenergy logistics (Output 4.1).

2.1. Applied logistics criteria

This deliverable includes two inventory lists: The inventory of shipping companies and ship brokers was based on predefined criteria regarding the transport of biomass by inland vessels. These logistics requirements focus on the ability to ship cargo such as dry bulk, break bulk and liquid bulk used for bioenergy production. Experience in biomass transports as well as available certificates for biomass transports such as the GMP+ (Good Manufacturing Practice, www.gmpplus.org/en/) certificate relevant for quality assurance in the agricultural supply chains with a focus on food and feed safety were also important selection criteria.

The inventory of port and terminal operators was based on requirements regarding the handling and storage of biomass in Danube ports or at transshipment sites. An available certificate in handling and storage of biomass was regarded as substantial quality feature for a well-suited port and transshipment site. The availability of facilities such as covered storage options, sufficient storage capacity (extensive areas for e.g. round wood) and interim storage possibilities are further decisive features for potential customers of port services from the bioenergy industry.

A detailed report of specific logistics requirements of the biomass and bioenergy industry was previously provided in deliverable D 4.1.3 within WP4. Please refer to this report for further and detailed information on biomass specific logistics requirements.



2.2. Brief outlook on port management models

Ports are important service providers in the fields of transshipment and storage services. In addition, they also often perform a variety of value-added logistics services to customers, such as packaging, container stuffing and stripping, sanitation and quality checks. This enhances ports as logistics platforms and driving forces for locating companies and boosting the economy. Ports can be operated by a public or a private entity. The services at a transshipment point are often provided in cooperation between public and private actors (viadonau, 2017).

Port management models

In general, port management models are differentiated based on their ownership-operation structure and type of service provision. There are four categories of port ownership-operation structures (viadonau, 2013):

- **Public service ports:** The port owns, operates and maintains all available fixed and mobile facilities. Transshipment is performed by personnel who are directly employed by the port authority. The main functions of a public service port include cargo transshipment activities.
- **Tool ports:** Are primarily of a public nature. The port authority owns the port infrastructure and suprastructure. Both are also provided to private transshipment companies which perform the transshipments by using their own staff.
- **Landlord ports:** The port authority has the role of a public regulator and property owner. Private companies carry out the port operations. The infrastructure is mainly leased by private companies. The suprastructure is provided by private transshipment companies. Port personnel are employed either by private terminal operators or are also provided in some ports by a pool system.
- **Fully privatised ports:** The port is owned, operated and regulated privately. Public interest is only presented at a higher level such as building regulations or regional traffic planning

However, a clear allocation of ports to the four categories is often difficult, since there are mixed combinations as well (viadonau, 2013). The above-mentioned list shows that there can be complex port management structures with several contact persons. Due to this reason, the inventory list contains the contact data of companies, e.g. public port authorities, private port operators, or terminal operators, which are according to the ENERGY BARGE team suited best to provide targeted information to (potential) customers of port services.

When consulting this inventory, potential customers are able to acquire information on logistics service providers for transport, handling and storage of biomass along the Danube without a redundant loss of time, efforts or costs.



3. Inventory lists of logistics services for the biomass and bioenergy industry

This chapter contains the inventory lists of logistics services for the biomass and bioenergy industry on the Danube. Shipping companies and ship brokers are depicted separately from the port and terminal operators. Regarding shipping companies, also those offering transports on the Danube but with corporate locations outside of the Danube region (e.g. The Netherlands) have been listed.

The process of selecting suitable logistics service providers along the Danube for the biomass industry was based on specific criteria (see chapter 2.1). The main data source constitutes the Danube Logistics Portal as well as direct contacts with the relevant companies. The data evaluation was carried out by VIA and all other WP4 project partners, namely BCG, PoVi, SPaP, MAHART and PoVu. No personal data was integrated in this deliverable and therefore no data protection issues occurred according to the General Data Protection Regulation (GDPR).

3.1. Data fields - Inventory list of shipping companies and ship brokers

This inventory list (see chapter 3.3) covers 56 companies and contains the following data fields:

Title of column:	Description:
Country	Country where the company's main office is based
Company name	Company name of the shipping company or ship broker
Website	Website of the company
Address	Street, number, postal code and city of the shipping company's main office
Transport services for	Cargo types transported by the company. Here, the possible biomass cargo types are dry bulk, break bulk or liquid bulk. For detailed information on the transport of cargo types please refer to deliverable D 4.1.3

3.2. Data fields - Inventory list of port and terminal operators

This inventory list covers in total 68 companies (see chapter 3.4) which deliver detailed and verified information in the data fields as described below:

Title of column:	Description:
Country	Country of the port location
Port location	City/Municipality of the port location
Name of port	Name of the port
Port company	Port authority, port owner or terminal operator/logistics service provider
Website	Website of the port company
Suitable for biomass handling	General suitability of port for biomass handling. The criteria applied are explained in chapter 2.1

Transshipment services for	Cargo types handled by the port or terminal operator. Here, the listed biomass cargo types are handled in form of dry bulk, break bulk or liquid bulk. For detailed information on transshipment services please refer to deliverable D 4.1.3
Type of storage	Storage facilities in the port. Besides open storage areas, some ports offer covered storage areas which are suitable for goods sensitive to moisture, sunlight or contamination. For detailed information on the different storage types and on its biomass specific requirements please refer to deliverable D 4.1.3
Location coordinates	Coordinates of the port location (required for a correct port mapping on the online map (www.energy-barge.eu))

3.3. Inventory list of shipping companies and ship brokers

Country	Company name	Website	Street	Number	Address		City	Transport services for		
					Postal code			Dry bulk	Break bulk	Liquid bulk
Austria	Navromsa AG Basel	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/2/	Karl-Benz-Weg	91	1210		Vienna	X	X	
Austria	Panta Rhei Befrachtungs- und Speditions GmbH	www.panta-rhei-shipping.at	Europaring	A04 401	2345		Brunn am Gebirge	X	X	
Austria	Danu Transport GmbH	www.danu-transport.at	Heiligenstädter Lände	29/1c	1190		Vienna	X	X	X
Austria	IMET Handelsges.mBH	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/34/	Jasomirgottstraße	6 / 2A	1010		Vienna	X	X	
Austria	Felbermayr Transport- und Hebetchnik GmbH & Co KG	www.felbermayr.cc	Machstraße	7	4600		Wels	X	X	
Austria	Donau-Tankschiffahrtsgesellschaft m.b.H.	www.reederei-jaegers.de	Handelskai	130	1020		Vienna			X
Austria	Rhenus Danube Shipping GmbH	www.rhenus.com	Karl-Mierka Straße	7-9	3500		Krems	X	X	
Austria	MULTINAUT Donau-logistik GmbH	www.multinaut-dlg.com	Handelskai	388	1020		Vienna	X	X	
Austria	Danube Shipping Management Service GmbH	www.dsms.at	Handelskai	388/832	1020		Vienna	X	X	X
Austria	Michael Spedition GmbH	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/102/	Weinviertelstraße	17	3491		Straß im Straßertale	X	X	
Austria	First-DDSG Logistics Holding GmbH	www.ddsg-holding.com	Handelskai	348	1020		Vienna	X		X
Austria	PAN EUROPE LINE GmbH Reederei	www.paneuropeline.com	Straussengasse	15/10	1050		Vienna	X	X	
Austria	TTS (Transport Trade Services) GmbH.	www.tts-group.at	Lerchengasse	15b	2103		Langenzersdorf	X	X	X
Bulgaria	Donau Star BG EOOD	www.donaustar.com	PO BOX	123	9300		Dobrich	X	X	
Bulgaria	Rubiships Ltd	www.rubiships.com	Duhovno Vazrazhdane Str.	1	7000		Rousse	X	X	
Bulgaria	RODASHIPS LTD.	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/1292/	Bratya Buckston	14	9000		Varna	X	X	

Country	Company name	Website	Street	Number	Address		City	Transport services for		
					Postal code			Dry bulk	Break bulk	Liquid bulk
Croatia	HRB Dunavski Lloyd Sisak d.o.o.	www.dunavski-lloyd.hr	Antuna Cuvaja	16/II	44000		Sisak	X	X	X
Germany	Bavaria Schifffahrts- und Speditionen-AG	www.bavariaag.de	Werftstraße	3-5	63741		Aschaffenburg	X	X	
Germany	Kühne + Nagel Euroshipping GmbH	www.kn-portal.com/seafreight/river_shipping/	Budapester Straße	20	93055		Regensburg	X	X	
Germany	MSG eG	www.MSGeG.de	Südliche Hafenstraße	15	97080		Würzburg	X	X	
Germany	Reederei Jaegers GmbH	www.reederei-jaegers.de	Königstraße	88	47198		Duisburg			X
Germany	Gebr. Vöth GmbH & Co. KG	www.vaeth-kg.de	Werftstraße	3-5	63741		Aschaffenburg	X	X	
Germany	Euro Bevrachtung Germany AG	www.eurobevrachtung.com	Prinz-Ludwig-Str.	9	93055		Regensburg	X		
Germany	izb-cargo & co gmbh	www.izb-cargo.de	Fahrtstraße	9	97855		Triefenstein	X	X	
Hungary	ISD Portolan Ltd	www.portolan.hu	Frangepán Str.	7	1139		Budapest	X	X	
Hungary	Fluvius Schifffahrts und Speditionen GmbH	www.fluvius.hu	Frangepán Str.	7	1139		Budapest	X	X	
Hungary	Plimsoll Kft	www.plimsoll.hu	Frangepán Str.	7	1139		Budapest	X	X	
Hungary	BENSHIP Hungary Ltd.	www.benship.hu	Carl Lutz rkp.	29	1137		Budapest	X	X	
Hungary	CSIKLI Shipping and Forwarding Ltd.	www.csikli.hu	Molnár str	11	6500		Baja	X		
Hungary	KISZL Shipping Ltd.	www.hajozas.net	Deák Ferenc Str.	15	7030		Paks	X	X	
Moldova	Danube Logistics	www.gifp.md	A. Bernardazzi	66	2009		Chisinau	X	X	X
Romania	SC TTS (Transport Trade Services) SA	www.tts-group.ro	Vaselor	34	021254		Bucharest	X	X	X
Romania	North Star Shipping	www.nss.ro	Constantza Port Enclosure Pier	45	900900		Constantza	X		X
Romania	Navrom S.A. Galati	www.navrom.ro	Portului street	34	800025		Galati	X	X	X
Romania	SOL Maritime Services Ltd	www.solmar.ro	83, Mamaia Blvd	Bldng. LS5, Apt 13	900663		Constanta	X	X	
Romania	Traba Logistics Romania	www.trabalogistics.com	Traian	68A	900716		Constanta	X	X	
Romania	GP Trans	www.gptrans.ro	Portului	3	220234		Drobeta-Turnu Severin			X
Romania	Trading Line Ltd	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/1338/	Pictor Iosif Isser	8bis	800252		Galati	X	X	
Romania	Lion Shipping & Chartering Ltd	www.ls-chartering.ro	Constanta Port Gate No1	900900	900900		Constanta	X	X	X
Serbia	Jugoagent	www.jugoagent.rs	Bulevar Mihaila Pupina	165a	11070		Belgrade	X	X	
Serbia	Agent Plus	www.agentplus-group.com	Makenzijeve	25	11040		Belgrade	X	X	X

Country	Company name	Website	Street	Number	Address		City	Transport services for		
					Postal code			Dry bulk	Break bulk	Liquid bulk
Serbia	CFND	www.cfnd.rs	Balkanska	2		11000	Belgrade	X	X	
Serbia	SRL Logistics d.o.o.	www.srlog.com/	Dr. Ivana Ribara	182/15		11073	Belgrade	X	X	X
Serbia	Danube Transport and Logistic	www.dtltransport.net	Bulevar Mihaila Pupina	10a/II/16		11000	Belgrade	X	X	X
Serbia	MONDOLUKA PLUS D.O.O.	www.mondoluka.rs	Dunavski kej	17		11000	Belgrade	X	X	X
Slovakia	Slovak Shipping and Ports JSC	www.spap.sk	Horárska	12		81524	Bratislava	X	X	X
Slovakia	DANUBE SHIPPING s.r.o.	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/1070/ www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/1078/	Pristavna	10		821 09	Bratislava	X		X
Cyprus	Sipo Trading	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/1078/	Againoros	2		1065	Nicosia	X		
France	Touax River Barges SAS	www.touax-river-barges.com/	Tour Franklin – 100-101 Terrasse Boieldieu	0		92042	La Défense cedex	X	X	
Netherlands	Ganzeport BV	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/82/	P de Hooghstraat	36		3372 XJ	Hardinxveld Giessendam	X	X	
Netherlands	Coöperatie NPRC U.A.	www.nprc.nl	Scheepmakerij	210		3331 MB	Zwijndrecht	X	X	
Netherlands	Transito Danuvius B.V.	www.facebook.com/Danuvius	Beatrixhaven	43		4251NK	Werkendam	X	X	
Netherlands	Armaris Bevrachtingen BV	www.armarisbevrachtingen.nl	Hulsenboschstraat	3-1		4251 LR	Werkendam	X	X	
Netherlands	Vintage Cargo Shipping Logistics	www.danube-logistics.info/the-blue-pages/profiles/saction/detail/smode/CountryList/detail/1150/	van Ravesteyn-erf	105		3315DJ	Dordrecht	X	X	
Turkey	Elifmar Maritime Chartering Co.	www.elifmar.com	Atasehir-sedef caddesi ata plaza	3/3 D 62		34758	Istanbul	X	X	
United Kingdom	BUSINESS OIL PLATFORM	www.BusinessOilPlatform.com	MOSELEY EXCHANGE	149-153 ALCESTER ROAD		B13 8JP	Birmingham	X		X

3.4. Inventory list of port and terminal operators

Country	Port location	Name of port	Port company	Website	Suitable for biomass handling		Transshipment services for			Type of storage		Location coordinates	
					Yes	No	Dry Bulk	Break bulk	Liquid bulk	Open area	Covered area	X	Y
Germany	Kelheim	Kelheim	Zweckverband Häfen im Landkreis Kelheim	www.hafen-kelheim.de	X		X	X		X	X	11,913733	48,910085
Germany	Regensburg	Regensburg	Bayernhafen GmbH & Co. KG	www.donauhafen.de	X		X	X		X	X	12,140429	49,02214
Germany	Straubing	Straubing-Sand	Hafen Straubing-Sand GmbH	www.straubing-sand.de	X		X	X		X		12,665345	48,904911
Germany	Deggendorf	Deggendorf	Zweckverband Donau-Hafen Deggendorf	www.hafen-deggendorf.de	X		X	X	X	X	X	12,969868	48,813971
Germany	Passau	bayernhafen Passau	Bayernhafen GmbH & Co. KG	www.bayernhafen.de	X		X	X		X	X	20,641768	44,839747
Austria	Linz	LINZ AG	Linz Service GmbH	www.hafenlinz.at	X		X	X		X	X	14,327446	48,311188
Austria	Linz	voestalpine	voestalpine Stahl Linz GmbH	www.voestalpine.com		X	X	X		X	X	14,327446	48,311188
Austria	Linz	Felbermayr	Felbermayr Transport- und Hebeteknik GmbH & Co KG	www.felbermayr.cc		X	X			X	X	14,327446	48,311188
Austria	Enns / Ennsdorf	Ennshafen port	Ennshafen OOE GmbH	www.ennshafen.at	X		X	X	X	X	X	14,518911	48,236845
Austria	Ybbs	Ybbs	Schaufler GmbH	www.hafen-ybbs.at	X		X	X				14,518911	48,236845
Austria	Krems	Rhenus Donauhafen Krems GesmbH & Co KG	Rhenus Donauhafen Krems GesmbH & Co KG	www.rhenus-hafenkrems.com	X		X	X		X	X	15,648215	48,400145
Austria	Korneuburg	Korneuburg	Agrarspeicher Betriebs Gesellschaft mbH	www.agrarspeicher.at	X		X					16,321268	48,338182
Austria	Vienna	Vienna	Wiener Hafen und Lager Ausbau- und Vermögensverwaltung, GmbH & Co KG	www.hafen-wien.com	X		X	X	X	X	X	16,487783	48,169556

Country	Port location	Name of port	Port company	Website	Suitable for biomass handling		Transshipment services for			Type of storage		Location coordinates	
					Yes	No	Dry Bulk	Break bulk	Liquid bulk	Open area	Covered area	X	Y
Slovakia	Bratislava	Bratislava	Slovak Shipping and Ports JSC	www.spap.sk	X		X	X	X	X	X	17,14258	48,134823
Slovakia	Komarno	Komarno	Slovak Shipping and Ports JSC	www.spap.sk	X		X	X		X	X	29,263758	45,434987
Slovakia	Sturovo	Sturovo	Priemyselny park Sturovo, a.s.	www.ppsturovo.sk	X		X					18,704255	47,780681
Hungary	Győr-Gönyü	Győr-Gönyü	Győr-Gönyü Kikötő Zrt.	www.portofgyor.hu	X		X	X		X	X	28,211545	45,468714
Hungary	Budapest	Freeport of Budapest	Budapesti Szabadkikötő Logisztikai Zrt.	www.bszi.hu	X		X	X	X	X	X	19,0547	47,441095
Hungary	Budapest	Ferropport	Preymesser GmbH Regensburg	www.ferropport.hu	X		X	X		X	X	19,0547	47,441095
Hungary	Budapest	MAHART Container Center	MAHART Container Center Ltd.	www.containercenter.hu/index.php/en	X					X		19,0547	47,441095
Hungary	Adony	Port of Adony	Adony Logistics Centre Ltd	www.portofadony.hu	X		X	X		X	X	18,881678	47,111575
Hungary	Dunaujvaros	Centroport	Centroport Kft.	www.hfip.hu/dunaujvaros-centroport	X		X	X		X	X	18,951371	46,964097
Hungary	Dunaujvaros	DUNAFERR Port/ISD Portolan Kft.	ISD Portolan Kft.	www.portolan.hu	X		X	X		X	X	18,951371	46,964097
Hungary	Dunavecse	Dunavecse	Dunavecse Kikötő Szállítmányozási Kft.	www.portofdunavecse.hu	X		X	X		X		18,962531	46,906237
Hungary	Paks	Paks	Sygnus Co. Ltd	www.sygnus.hu	X		X			X	X	18,869672	46,627385
Hungary	Bogyiszlo	Bogyiszlo	BLÓKER ZRT - Bogyiszlói Kereskedő-Szolgáltató Zrt.	www.bloker.hu/node/13	X		X					19,083572	45,527507
Hungary	Baja	Baja Public Port	Bajai OKK Kft	www.portofbaja.hu	X		X	X		X	X	18,92684	46,183855
Hungary	Mohacs	Boly Zrt/Port of Mohács	BÓLY Zrt	www.bonafarmcsoport.hu/bonafarm-csoport/boly-zrt/szolgaltatasaink/kikotoi-szolgaltatas/	X		X	X		X	X	18,68353	46,007178

Country	Port location	Name of port	Port company	Website	Suitable for biomass handling		Transshipment services for			Type of storage		Location coordinates	
					Yes	No	Dry Bulk	Break bulk	Liquid bulk	Open area	Covered area	X	Y
Hungary	Mohacs	Margitta	Központi Közlekedési Felügyelet - Hajózási Felügyelet	www.danube-logistics.info/danube-ports/profiles/action/port/country/Hungary/port/26/portc/132/pfc/Profile/	X		X			X		18,68353	46,007178
Croatia	Vukovar	Vukovar	Port Authority Vukovar	www.port-authority-vukovar.hr	X		X	X		X	X	18,985384	45,364344
Croatia	Vukovar	Vukovar	Vupik d.d.	www.vupik.hr/djelatnosti-1/pc-pretovarna-luka	X		X				X	18,985384	45,364344
Croatia	Osijek	Osijek	Port Tranzit Osijek	www.nexe.hr/default.aspx?id=1740	X		X	X		X	X	18,760366	45,545745
Serbia	Apatin	Apatin	Napredak a.d.	www.napredak.net	X		X	X		X		18,969031	45,673508
Serbia	Bogojevo	Bogojevo	Luka "Dunav Bogojevo" d.o.o.	http://www.danube-logistics.info/danube-ports/profiles/action/port/country/Serbia/port/56/pfc/Profile/	X		X	X			X	20,478885	44,827197
Serbia	Backa Palanka	Luka Backa Palanka	Luka-Bačka Palanka DOO	www.lukabp.rs	X		X	X		X	X	19,423176	45,237982
Serbia	Beocin	Beocin	Lafarge BFC d.o.o.	www.lafarge.rs	X		X			X		19,706252	45,211627
Serbia	Novi Sad	Novi Sad	Luka Novi Sad a.d.	www.aul.gov.rs	X		X	X	X	X	X	19,861022	45,268944
Serbia	Belgrade	Belgrade	Port Governance Agency	www.aul.gov.rs	X		X	X		X	X	20,478885	44,827197
Serbia	Smederevo	Smederevo	Hesteel Serbia Iron & Steel d.o.o.	www.aul.gov.rs	X		X	X				20,919761	44,667049
Serbia	Prahovo	Prahovo	IHP Prahovo AD Kraijna	www.aul.gov.rs	X		X	X		X	X	22,609715	44,291604
Serbia	Pancevo	Pancevo	Luka Dunav a.d. Pancevo	www.lukadunav.co.rs	X		X	X	X	X	X	20,641768	44,839747
Romania	Moldova Veche	Moldova Veche	CN APDF SA - Moldova Veche	www.apdf.ro	X		X	X		X	X	21,616216	44,727726
Romania	Orsova	Orsova	C.N. A.P.D.F. S.A. Giurgiu - Orsova Office	www.apdf.ro	X		X	X		X		22,417669	44,725113

Country	Port location	Name of port	Port company	Website	Suitable for biomass handling		Transshipment services for			Type of storage		Location coordinates	
					Yes	No	Dry Bulk	Break bulk	Liquid bulk	Open area	Covered area	X	Y
Romania	Drobeta Turnu Severin	Drobeta Turnu Severin	C.N. A.P.D.F. S.A. Giurgiu - Subsidiary Drobeta Turnu Severin	www.apdf.ro	X		X	X		X		22,614544	44,620755
Romania	Giurgiu	Giurgiu	Administratia Porturilor Dunarii Fluviale	www.apdf.ro	X							28,023267	45,394879
Romania	Giurgiu	Giurgiu Freeport	S.C. Administratia Zonei Libere Giurgiu S.A	www.apdf.ro	X		X	X			X	28,023267	45,394879
Romania	Cernavoda	Cernavoda	C.N. A.P.D.F. S.A. Giurgiu - Subsidiary Cernavoda	www.apdf.ro	X		X	X		X	X	28,024396	44,354941
Romania	Medgidia	Medgidia	Administration of the Navigable Canals S.H.	www.acn.ro	X		X	X		X	X	28,302132	44,246654
Romania	Murfatlar	Murfatlar	Administration of the Navigable Canals S.H.	www.acn.ro	X		X	X		X	X	28,395569	44,180974
Romania	Constanta	Constanta	Compania Nationala "Administratia Porturilor Maritime" S.A. Constanta	www.portofconstantza.com	X		X	X	X	X	X	28,024396	44,354941
Romania	Braila	Braila	National Company "Ports Administration of the Maritime Danube" Galati	www.romanian-ports.ro	X		X	X		X	X	27,989828	45,284798
Romania	Galati	Galati	National Company "Ports Administration on the Maritime Danube" Galati	www.romanian-ports.ro	X		X	X	X	X	X	28,081326	45,440486

Country	Port location	Name of port	Port company	Website	Suitable for biomass handling		Transshipment services for			Type of storage		Location coordinates	
					Yes	No	Dry Bulk	Break bulk	Liquid bulk	Open area	Covered area	X	Y
Romania	Tulcea	Tulcea	National Company "Ports Administration of the Maritime Danube" Galati	www.romanian-ports.ro	X		X	X		X		28,792359	45,180886
Bulgaria	Vidin	Vidin	Bulgarian Port Infrastructure Company	www.bgports.bg	X		X	X		X		22,915757	44,000017
Bulgaria	Lom	Lom	Executive Agency "Maritime Administration"	www.bgports.bg	X		X	X		X	X	23,241348	43,834696
Bulgaria	Oryahovo	Oryahovo	Octopod COOD	www.mtitc.government.bg	X		X	X	X			22,417669	44,725113
Bulgaria	Somovit	Somovit	Octopod COOD	www.mtitc.government.bg	X		X	X	X	X	X	24,771617	43,691351
Bulgaria	Belene	Belene Heavy Lift Port	Bulgarian Port Infrastructure Company	www.bgports.bg/		X	X			X		25,20965	43,637173
Bulgaria	Svishtov	Svilozha	Svilozha Thermal Power Plant JSCo	www.danube-logistics.info/danube-ports/profiles/action/port/country/Bulgaria/port/65/portc/156/pfc/Profile/	X		X					25,343002	43,62463
Bulgaria	Svishtov	International Port	DF Istar JSCo	www.portsvishtov.com	X		X	X		X	X	25,343002	43,62463
Bulgaria	Ruse	Zapad	Bulgarian Port Infrastructure Company, Executive Agency "Maritime Administration"	www.bgports.bg	X		X	X		X	X	25,94286	43,845715
Bulgaria	Ruse	Ruse Iztok	PORT COMPLEX RUSE JSCo	www.mtitc.government.bg	X		X	X	X	X	X	25,94286	43,845715
Bulgaria	Ruse	Bulmarket	Bulmarket DM Ltd.	www.bulmarket.bg	X		X	X	X	X	X	25,94286	43,845715
Bulgaria	Tutrakan	Tutrakan	PORT COMPLEX RUSE JSCo	www.mtitc.government.bg	X		X	X		X		26,611677	44,051908
Bulgaria	Silistra	Silistra-Lesil	Silistra-Lesil	www.port-silistra.com	X		X	X				25,94286	43,845715

Country	Port location	Name of port	Port company	Website	Suitable for biomass handling		Transshipment services for			Type of storage		Location coordinates	
					Yes	No	Dry Bulk	Break bulk	Liquid bulk	Open area	Covered area	X	Y
Moldova	Giurgiulesti	Giurgiulesti International Free Port	ICS Danube Logistics SRL	wwwwww.gifp.md; www.gfez.md	X		X	X	X	X	X	25,970368	43,87189
Ukraine	Reni	Reni	Ukrainian Ministry of Transport and Communications	www.mtu.gov.ua	X		X	X		X	X	28,287924	45,412673
Ukraine	Izmail	Izmail	State of Ukraine	www.izmport.com.ua	X		X	X		X	X	28,859766	45,317391

4. Conclusions

The inventory lists presented in chapter 3 provide a solid overview which logistics services are offered by the Danube logistics sector towards the biomass and bioenergy industry. The lists cover a wide range of logistics service providers in transport, handling and storage of biomass along the entire Danube.

Thus, the inventory will serve as an invitation list for the regional Business-to-Business meetings organized in the frame of Activity 4.3 and Output 4.2 in order to represent the Danube logistics sector. These stakeholders will also be invited to join the modal shift platform for green bioenergy logistics with a company profile (Output 4.1).

5. References

viadonau. (2013). *Manual on Danube Navigation*. Vienna: Grasl Druck und Neue Medien GmbH.

viadonau. (2017). *Ports and Terminals*. [online] Available at:
www.viadonau.org/en/economy/danube-logistics/supply-side/ports-and-terminals/
[Accessed 20.04.2018].

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