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 Bio-based Industries
Consortium



CELEBio

D.2.3

BIO-ECONOMY STAKEHOLDERS IN HUNGARY

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ZITA BUDAY, MÁRTA SZABÓ, BÉLA
KARDON
RCISD
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1 INTRODUCTION

1.1 OBJECTIVES AND APPROACH

In this report we present an overview of all actors and actor groups that need to be involved when setting up biomass delivery chains. To ensure a complete mapping of these actors several stakeholder exchanges at national stakeholder workshops were held.

The actors presented can be specific persons, companies, and other type of organisations (e.g. farmers organisations). In case of listing companies in certain sectors we listed the top largest and/or most influential ones.

For the actors presented in this report the following information is provided:

1. Company name/person name
2. Company location in town/municipality
3. Company location in region
4. Type of activity (for company)/ type of function (for person)
5. (if company/organisation) specify number of employees
6. Already involved in bio-based activities (Y/N)
7. If yes, describe bio-based activity it is involved in

2 ACTORS IN AGRICULTURAL AND AGRO INDUSTRIAL SECTOR

2.1 ACTORS IN PRIMARY AGRICULTURAL SECTOR

Name:	
Location:	
Region:	
Type of activity:	
Already involved in bio-based activities:	
Bio-based activity involved in:	

The number of agricultural cooperatives in agricultural production is 8442. Number of individual farmers is about 450000.

2.2 ACTORS IN AGRO INDUSTRIES

Name:	ARUNDO Bioenergy
Location:	Budapest
Region:	Central Hungary
Type of activity:	R&I, production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Develop planting and cultivation technology for secure and economical biomass production / giant cane (Arundo donax)

Name:	AXIAL Kft
Location:	Baja
Region:	Central Hungary
Type of activity:	Supplier, agricultural machinery, precision agriculture
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	agricultural machinery for bio-based activities

Name:	Agráció Kft
Location:	Gödöllő
Region:	Central Hungary
Type of activity:	Supplier, agricultural machinery
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	agricultural machinery for bio-based activities

2.3 OTHER ACTORS RELATED TO AGRICULTURE & AGRO-PROCESSING CHAIN

Name:	Pilze-Nagy Ltd.
Location:	Kecskemét
Region:	Northern Great Plain
Type of activity:	Production, research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Producing substrate for oyster mushrooms; biogas plant based on utilising the waste materials of oyster mushroom production. Research (latest): Utilisation of agricultural organic materials arising during oyster mushroom growing and other processes as recycled energy sources; Complex agricultural environment management-oriented utilisation of waste materials and by-products arising from bio-energy production procedures

Name:	Hungrana Ltd.
Location:	Szabadegyháza
Region:	Central Transdanubia
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	The most significant corn processing company in Europe. Hungrana Starch and Isosugar Manufacturing and Trading Co. Ltd., the company produces bioethanol fuel made from renewable energy resources and marketed under the name GreenPower E85 They have a biomass power plant providing 25% of their energy input

Name:	Helia-D
Location:	Budapest
Region:	Central Hungary
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	The cosmetic company, Helia-D is a producer of different types of creams for skin care those are known of their plant-based active ingredients content. The creams of Helia-D are based on sunflower stem extract.

Name:	TERRA HUMANA Ltd
Location:	Kajászó
Region:	Central Transdanubia
Type of activity:	R&I
Already involved in bio-based activities:	Y
Bio-based activity involved in:	3R Recycle-Reduce-Reuse Zero Emission Carbon Refinery technology) Bio-waste treatment process by pyrolysis, biochar biotechnological (solid state fermentation) formulation and soil applications, carbon-based resource and nutrient added value recycling from the agriculture and food industry (especially phosphorous and nitrogen from food grade animal bone meal), soil science.

Name:	Elmolight Bt
Location:	Tapolca
Region:	Western Transdanubia
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Production of "COFUNA" organic humus manure, COFUNA Organic Humus Fertilizer, COFHUMIN soil mixture

Name:	Jákófa Co.
Location:	Veszprém
Region:	Central Transdanubia
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Chemical conversion of process sawdust from woodworking plants using pyrolysis technology. The pyrolysis oil generated in the technology is sold as a fuel additive.

Name:	Baromfi-Coop
Location:	Nyírfákó / Nyírkércs
Region:	Northern Great Plain
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Fermentation of poultry manure The R&D project uses an environmentally friendly process or mechanization that allows industrial processing and sterilization of deep litter poultry manure, and the resulting fermentation (fertilizer pellet) is sold as organic nutrient and reintroduced into the soil.

Name:	Arany Kapu Borászati Melléktermék Feldolgozó Zrt.
Location:	Kunfehértó
Region:	Northern Great Plain
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Production of alcohol, denatured alcohol, tartaric acid, calcium tartrate and grape seed from grape marc and wine lees.

Name:	Mancso Tojás Ltd
Location:	Mátraterenye
Region:	northern Hungary
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Poultry manure ; Fermentation, "COFUNA" organic humus manure Biomass super compost COFHUMIN soil mixture

2.4 CLUSTERS AND ORGANISATIONS

Name:	Hungarian Biotechnology Association
Location:	Szeged
Region:	Southern Great Plain
Type of activity:	association
Already involved in bio-based activities:	Y
Bio-based activity involved in:	n/a

Name:	Union of Biomass Product Line
Location:	Budapest
Region:	Central Hungary
Type of activity:	association
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	The association has created a nonprofit Ltd. under the name KIBERDR, which will in the future specifically serve all the aspirations and developments that belong to the profile of the association. The service will be expanded with members, experts, and partners to provide advice, feasibility studies, competition writing, data provision and conferences.

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Name:	Biomass Usage Innovation Network
Location:	Budapest
Region:	Central Hungary
Type of activity:	Innovation Network
Already involved in bio-based activities:	Y
Bio-based activity involved in:	The Network was created within the framework of AgriForValor, a project supported by EU Horizon 2020 programme. AgriForValor aims to integrate the relevant stakeholders of research, bioindustry, agriculture and forestry into one network to help the creation of new value chains established firmly on the market and based on agricultural and forestry biomass.

Name:	Biogas and Biorefinery Cluster
Location:	Budapest
Region:	Central Hungary
Type of activity:	cluster
Already involved in bio-based activities:	Y
Bio-based activity involved in:	n/a

3 ACTORS IN FORESTRY AND FOREST INDUSTRY

3.1 ACTORS IN PRIMARY FOREST SECTOR

Name:	22 forest management corporations (state-owned) https://magyarmezogazdasag.hu/allami-erdeszeti-reszvenytarsasagok
Location:	Hungary
Region:	all regions
Type of activity:	management of state owned forests
Already involved in bio-based activities:	Y
Bio-based activity involved in:	n/a

3.2 ACTORS IN FOREST INDUSTRY

Name:	Derula Manufacturing and Trade Co.
Location:	Szolnok
Region:	Northern Great Plain
Type of activity:	Manufacturing
Already involved in bio-based activities:	Y
Bio-based activity involved in:	wood-based panel manufacturing

Name:	MOFA-Hungary LLC
Location:	Mohács
Region:	Southern Transdanubia
Type of activity:	manufacturing
Already involved in bio-based activities:	Y
Bio-based activity involved in:	using the wet process to a more environmentally friendly dry fibreboard manufacturing technology.

3.3 CLUSTERS AND ORGANISATIONS

Name:	Association of Private Forest Owners
Location:	Budapest
Region:	Central Hungary
Type of activity:	association
Already involved in bio-based activities:	n/r
Bio-based activity involved in:	The members of the association are involved in forest cultivation and utilization

4 ACTORS IN THE WASTE SECTOR

3.4 CLUSTERS AND ORGANISATIONS

Name:	National Waste Management Coordination and Asset Management Company (NHKV)
Location:	Budapest
Region:	Central Hungary
Type of activity:	coordinating body
Already involved in bio-based activities:	
Bio-based activity involved in:	NHKV is responsible for distributing waste fees to the relevant operators and also for selling recyclable materials, supervising infrastructure spending and the use of EU funds.

Name:	Budapest Sewage Works
Location:	Budapest
Region:	Central Hungary
Type of activity:	public services
Already involved in bio-based activities:	Y
Bio-based activity involved in:	the largest environmental management company of Hungary. It has invested in a pilot scale algae production unit at the North Budapest Waste Water Treatment plant

Name:	Hungarian Waste Management Federation
Location:	Budapest
Region:	Central Hungary
Type of activity:	non-profit public benefit organisation
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	The federation is based on the voluntary partnership of companies, entrepreneurs, organisations and experts, who work in the area of waste management

Name:	Organica Water, Inc.
Location:	Budapest
Region:	Central Hungary
Type of activity:	wastewater treatment
Already involved in bio-based activities:	Y
Bio-based activity involved in:	biological wastewater treatment, a solution that increases biomass available for treating waste

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Name:	UTB Envirotec Zrt
Location:	Budapest
Region:	Central Hungary
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	<p>Solutions that allow to reduce, recover, renew and recycle wastewater and organic solids to clean water, renewable energy and nutrients</p> <p>Production of detergents and fertilizer: the sewage sludge is biologically transformed into volatile fatty acids (VFA) and valuable nutrients (NPK), which are recovered.</p> <p>In the frame of H2020-SMEINST-2-2016-2017 project: reNEW they developed a technology for sustainable valorisation of sewage sludge.</p>

5 ACTORS IN FISHERIES, AQUA CULTURE AND OTHER SECTORS

5.1 CLUSTERS AND ORGANISATIONS

Name:	HUNGARIAN AQUACULTURE AND FISHERIES INTER-BRANCH ORGANISATION
Location:	Budapest
Region:	Central Hungary
Type of activity:	inter-branch organization
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	

Name:	Platform for Fish Farming technology Development in Hungary
Location:	Budapest
Region:	Central Hungary
Type of activity:	technology platform
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	

6 ACTORS IN BIO-BASED INDUSTRIES AND MARKETS

6.1 CHEMICAL AND PETRO-CHEMICAL INDUSTRIES

Name:	Pannonia Ethanol Ltd. – Pannonia Bio
Location:	Dunaföldvár
Region:	Southern Great Plain
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Biorefinery, annually processes over 1.1 million tons of feed corn to produce 325,000 tons of protein-rich animal feed, 500 million litres of bioethanol and 12,000 tons of corn oil.

Name:	ZALAVÍZ Waterworks Company
Location:	Zalaegerszeg
Region:	Western Transdanubia
Type of activity:	public service
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Production of biomass from wastewater, biogas from biomass, fuel from biogas.

Name:	Győr Distillery Co. Ltd.
Location:	Győr
Region:	Western Transdanubia
Type of activity:	production
Already involved in bio-based activities:	
Bio-based activity involved in:	Production and sale of ethanol of 96%(V/V), and dehydrated ethanol in high quality in bulk. The capacity of the plant is 40 million litres of fermented and distilled ethanol and 26 million litres of dehydrated ethanol in a year. Győr Distillery mainly uses molasses as feedstock but it has a capacity to produce ethanol from grain, too. The vinasse (concentrated stillage of distillation) and the residue of grain processing, the by-products of alcohol production, are sold to agricultural companies.

Name:	Rossi Biofuel Ltd. and Biofilter Co.
Location:	Komárom
Region:	Central Transdanubia
Type of activity:	production
Already involved in bio-based activities:	
Bio-based activity involved in:	Biodiesel production plant; The main profile of Biofilter is collecting and processing used cooking oil from the HORECA (Hotel, Restaurant, Catering) sector which can provide raw material supplies for biodiesel plants in Hungary and neighbouring countries. From the HORECA sector the company also collects and processes food waste, and from the FMCG sector they collect and process expired food waste which cannot be marketed, as well as animal and vegetable waste. These types of wastes can supply biogas plants to generate heat energy and electricity. 100% of the collected organic waste used for renewable energy production

6.2 TEXTILES

N/R in Hungary

6.3 ENERGY

Name:	VEOLIA Hungary
Location:	Budapest
Region:	Central Hungary
Type of activity:	public services
Already involved in bio-based activities:	Y
Bio-based activity involved in:	2 large biomass-based energy plant for district heating in Ajka and Pécs

Name:	Bátortrade Kft
Location:	Nyírbátor
Region:	Northern Great Plain
Type of activity:	biogas production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Biogas plant processing partly agricultural and partly poultry waste

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Name:	Budapest Sewage Works
Location:	Budapest
Region:	Central Hungary
Type of activity:	public services
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Operates two large-capacity biogas plants (2x3 MWe) on the southern and northern wastewater treatment plants of the capital, which provide energy for the treatment of sewage

Name:	Magyar Cukor Zrt Biogáz Fejlesztő Kft
Location:	Kaposvár
Region:	Southern Transdanubia
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	biogas production from beetroot residues and waste

Name:	ELMIB Dömsöd Biogas Plant
Location:	Dömsöd
Region:	Central Hungary
Type of activity:	energy generation
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Electric energy generation from agricultural waste, restaurant waste,

Name:	Biogas Plant Szarvas / Gallicoop
Location:	Szarvas
Region:	Southern Great Plain
Type of activity:	production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Biogas production (4,17 MW/Y) from food-waste, sweet sorghum, liquid manure/pig sludge, slaughterhouse-waste

Name:	NaWaRo Kft
Location:	Gödöllő
Region:	Central Hungary
Type of activity:	Project development biogas production
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Biogas production, planning, design, realisation

6.4 CLUSTERS AND ORGANISATIONS

Name:	Hungarian Biogas Association
Location:	Szeged
Region:	Southern Great Plain
Type of activity:	NGO
Already involved in bio-based activities:	Y
Bio-based activity involved in:	The Hungarian Biogas Association is a non-governmental civil organization to promote biogas technology, support biogas operators with practical services and improve the legal and political environment for renewable energy in general.

Name:	Hungarian Bioethanol Association
Location:	Budapest
Region:	Central Hungary
Type of activity:	cluster / trade organization
Already involved in bio-based activities:	Y
Bio-based activity involved in:	awareness raising, organization of events, advocacy, knowledge transfer about bioethanol fuel use

Name:	Association of Biomass-Plants
Location:	Pécs
Region:	Southern Transdanubia
Type of activity:	cluster / trade organization
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Extending the mandatory take-up period for investor safety, biomass electricity; Long-term predictable economic environment; Promotion of "green heat"; Establishing a support system for energy plantation.

7 ACTORS IN KNOWLEDGE AND INNOVATION

7.1 CAMPUS, INCUBATORS AND TECHNOLOGY PARKS & HUBS

Name:	Pannon Pro Innovations
Location:	Budapest
Region:	Central Hungary
Type of activity:	consultancy
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Private consultancy providing a wide range of innovation management and entrepreneurship support activities. Our key topics are sustainability, energy, climate change and bioeconomy.

7.2 RESEARCH AND INNOVATION ORGANISATIONS

UNIVERSITIES:

Name:	Szent István University
Location:	Gödöllő
Region:	Central Hungary
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Research & Innovation projects; BSc, MSc education and doctoral schools

Name:	University Debrecen Faculty of Agricultural and Food Sciences and Environmental Management
Location:	Debrecen
Region:	Northern Great Plain
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	R&I projects in the field of bio-economy; e.g. energy use of algae from pig sludge; energy utilization of biomass; Postgraduate programme: Renewable Energies Expert

Name:	University of Technology and Economics Budapest, Faculty of Chemical Technology and Biotechnology
Location:	Budapest
Region:	Central Hungary
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	MSc. programme Bioenergy, renewable raw materials, green chemistry

Name:	University of Pécs
Location:	Pécs
Region:	Southern Transdanubia
Type of activity:	Higher education & research
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	

Name:	Eszterházy Károly University
Location:	Eger, Gyöngyös
Region:	Northern Hungary
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	R&I project biomass-based energy utilization Bioenergetics knowledge centre

Name:	Eötvös Loránd University, Faculty of Science, Institute of Biology + University Centre for Innovation
Location:	Budapest
Region:	Central Hungary
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	plays an important role particularly in tertiary education and training. The University is the largest in Hungary with about 26 thousand students. The University Centre for Innovation provides services to university research teams and departments relating to innovation, cooperation with businesses and technology transfer. It is responsible for facilitating the exploitation of the research results produced by the University by acting as a bridge between the University and industry

Name:	University of Miskolc
Location:	Miskolc
Region:	Northern Hungary
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Research projects, e.g. Conditions of thermal power supply systems from locally produced biomass in small towns; Global and local effects on the air quality of ligneous biomass energetic utilization;

Name:	University Of Szeged
Location:	Szeged
Region:	Southern Great Plain
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Research project e.g.: Economical production of algae-based biomass and its utilization in renewable energy production

Name:	University of Sopron
Location:	Sopron
Region:	Western Transdanubia
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Post-graduate programme at the Faculty of Forestry on biomass production Research projects on e.g. -utilization of bark residues as a raw material for manufacturing of thermal insulation panels - delignification of agricultural residues through an alkaline- - hydrodynamic cavitation, - fabrication of nanocellulose films and composites

Name:	University of Pannonia
Location:	Veszprém
Region:	Central Transdanubia
Type of activity:	Higher education & research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Research project e.g. Production of biodiesel using microalgae biomass

RESEARCH ORGANIZATIONS

Name:	Herman Ottó Institute
Location:	Budapest
Region:	Central Hungary
Type of activity:	Research
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	

Name:	Research Institute of Organic Agriculture
Location:	Budapest
Region:	Central Hungary
Type of activity:	Research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	R&I projects

Name:	Centre for Ecological Research,
Location:	Budapest / Tihany / Vácrátót
Region:	Central Hungary / Western Transdanubia
Type of activity:	Research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Research projects e.g. on phytoplankton-biomass

Name:	Bay Zoltán Nonprofit Ltd. for Applied Research
Location:	Budapest / Miskolc / Szeged
Region:	Central Hungary / Northern Hungary / Southern Great Plain
Type of activity:	Research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	the largest state-owned institution of applied research, its Department for Biotechnology Bay-Bio provides analytical services and undertakes research and development in applied microbiology (biorefinery and biocatalysis) and in biology-based energy production (algal biotechnology, renewable energy development). H2020 Power4Bio, AgriForValor

Name:	National Agricultural Research and Innovation Centre Institute of Agricultural Engineering
Location:	Gödöllő
Region:	Central Hungary
Type of activity:	Research & Innovation
Already involved in bio-based activities:	
Bio-based activity involved in:	The main research areas of AKI are: policy evaluation of the functioning of a sustainable biomass-based economy; management of natural resources in agriculture; resource-efficient agri-food value chains; rural development and monitoring.

Name:	Regional Centre for Energy Policy Research (Corvinus University)
Location:	Budapest
Region:	Central Hungary
Type of activity:	Research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	research projects on biomass-based energy

Name:	Forest Research Institute
Location:	Sárvár
Region:	Western Transdanubia
Type of activity:	Research
Already involved in bio-based activities:	n/a
Bio-based activity involved in:	

Name:	Beta Research Institute Nonprofit Ltd.
Location:	Sopronhorpács
Region:	Western Transdanubia
Type of activity:	Research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	biotechnological research of sugar and waste

Name:	Research Institute for Fisheries and Aquaculture
Location:	Szarvas
Region:	Southern Great Plain
Type of activity:	Research
Already involved in bio-based activities:	Y
Bio-based activity involved in:	research projects, e.g. production and utilization of micro-algae-based feed supplements with immunostimulant impact;

8 GOVERNMENT AND SEMI-GOVERNMENT ORGANISATIONS AND NGO-S

Name:	National Research, Development and Innovation Office
Location:	Budapest
Region:	Central Hungary
Type of activity:	Funding agency
Already involved in bio-based activities:	
Bio-based activity involved in:	Research and innovation funding

Name:	Ministry of Agriculture
Location:	Budapest
Region:	Central Hungary
Type of activity:	governmental actor
Already involved in bio-based activities:	
Bio-based activity involved in:	Rural development programme

Name:	Ministry of Innovation and Technology
Location:	Budapest
Region:	Central Hungary
Type of activity:	governmental actor
Already involved in bio-based activities:	
Bio-based activity involved in:	Competitive Central Hungary OP Operational Programme

Name:	Hungarian Chamber of Agriculture
Location:	Budapest
Region:	Central Hungary
Type of activity:	chamber
Already involved in bio-based activities:	Y
Bio-based activity involved in:	services, representation of sectoral interests, organisation of professional forums, etc.

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Name:	Association of Hungarian Women in Science
Location:	Budapest
Region:	Central Hungary
Type of activity:	association
Already involved in bio-based activities:	Y
Bio-based activity involved in:	R&I projects, Competitions for students (e.g. Scindikator)

Name:	Magyar Bioeconomy Cluster
Location:	Budapest
Region:	Central Hungary
Type of activity:	cluster
Already involved in bio-based activities:	Y
Bio-based activity involved in:	Boosting the bioeconomy sector; development of local and regional potential; to support the development of bioeconomy (biomass-based economy) in Hungary and to promote its long-term survival and continuous development

9 FINANCIAL ORGANISATIONS & BANKS

Name:	OTP Bank
Location:	Budapest
Region:	Central Hungary
Type of activity:	financial institution
Already involved in bio-based activities:	
Bio-based activity involved in:	Agriculture development loan; Local subsidies: Financial support for local Communities for energy recovery of biomass;

Name:	ERSTE Bank
Location:	Budapest
Region:	Central Hungary
Type of activity:	financial institution
Already involved in bio-based activities:	
Bio-based activity involved in:	Financing of infrastructure and energy recovery

Name:	MKB Bank
Location:	Budapest
Region:	Central Hungary
Type of activity:	financial institution
Already involved in bio-based activities:	
Bio-based activity involved in:	Prefinancement of agricultural subsidies