



Promoting sustainable use of underutilized lands for bioenergy
production through a web-based Platform for Europe

D5.4

Report on presentations for local and regional authorities



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818083.

Project no. 818083
 Project acronym: BIOPLAT-EU
 Project title: Promoting sustainable use of underutilized lands for bioenergy production through a web-based Platform for Europe
 Call: H2020-LC-SC3-2018-RES
 Start date of project: 01.11.2018
 Duration: 36 months
 Deliverable title: D5.4 - Report on presentations for local and regional authorities
 Due date of deliverable: September 2021
 Project Coordinator: WIP Renewable Energies
 Organisation name of lead contractor for this deliverable: WIP Renewable Energies (01)

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Dissemination level		
PU	Public	X
CO	Confidential, restricted under conditions set out in Model Grant Agreement	
CI	Classified, information as referred to in Commission Decision 2001/844/EC	

History

Version	Date	Reason	Revised by
01	17/09/2021	Draft version	All
02	29/10/2021	Final version	WIP

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1 Objectives

The main objective of the presentations is to inform politicians at local and regional level about the opportunities that the project opens in terms of implementation of bioenergy projects on MUC lands. This step is believed to influence positively their decisions and therefore contribute to helping the removal of local political market uptake barriers in case they exist.

2 Presentations in Spree-Neiße and Dahme-Spreewald, Germany

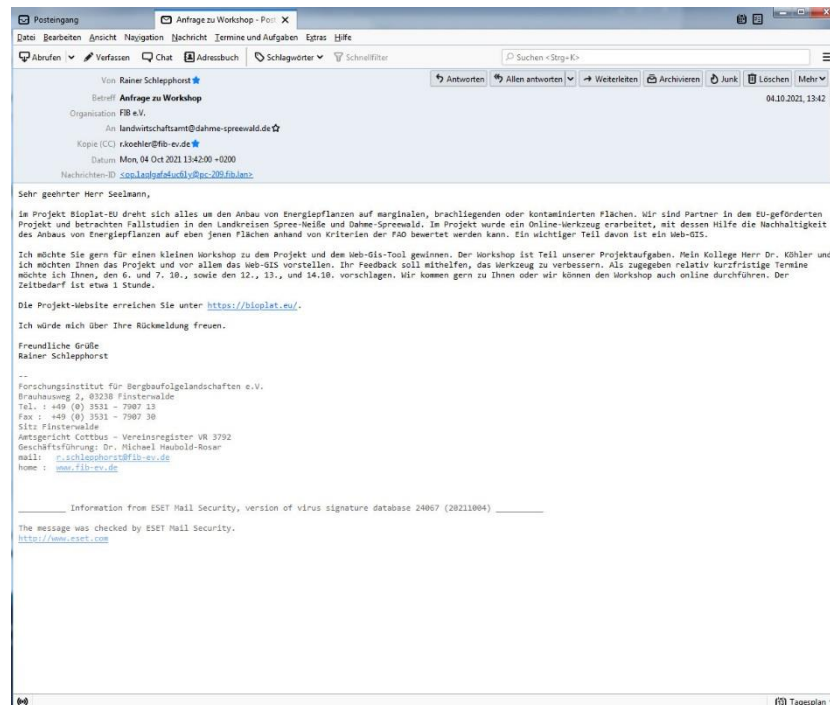
2.1 Introduction

The presentation to local and regional authorities were implemented during the first two weeks of October 2021 (see **Fehler! Verweisquelle konnte nicht gefunden werden.**). A total of 8 persons from outside the BIOPLAT-EU project were reached at different levels of government, from mayors to district department heads to the staff of the Ministry of Agriculture, Environment and Climate Protection. The table below includes the presentation date and location and the list of participants.

Presentation date & location	Participant name	Organisation	Stakeholder category
5. October 21 in-person, Forst	Friedow, Anett	District administration, head of department <i>Agriculture</i>	Authorities (Agriculture)
	Noack, Julia	District administration, department <i>Agriculture</i>	Authorities (Agriculture)
	Wieczorkowske, Jens	District administration, department <i>Agriculture</i>	Authorities (Agriculture)
7. October 21 online, Finsterwalde/Herzberg	Spillmann- Freiwald, Thomas	nature conservation authority of the district (uNB)	Authorities (Nature conservation)
8. October 21 online, Finsterwalde/Sonnenwalde	Stoislow, Beatrice	Administration, urban planning	Authorities (Regional planning)
	Freitag, Felix	Mayor of the town Sonnewalde	Authorities (Mayor)
11. October 21 online, Finsterwalde/Potsdam	Krassa, Eduard	Ministry of Agriculture, Environment and Climate Protection (MLUK)	Authorities (Ministry)
	Sauerbier, Inge	MLUK	Authorities (Ministry)
5./7./8./11. October 21	Köhler, Raul	FIB	Researcher

	Schlepphorst, Rainer	FIB	Researcher
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The authorities were contacted by telephone calls and email (see the figure below). However, the authorities from district Dahme-Spreewald were not able to provide appointments at short notice, but fortunately authority representatives from neighboring counties were able to step in. The presentations also involved representatives of the Ministry of Agriculture, Environment and Climate Protection of Brandenburg, which has a more significant influence on legislation at the federal state level than local authorities or district governments.

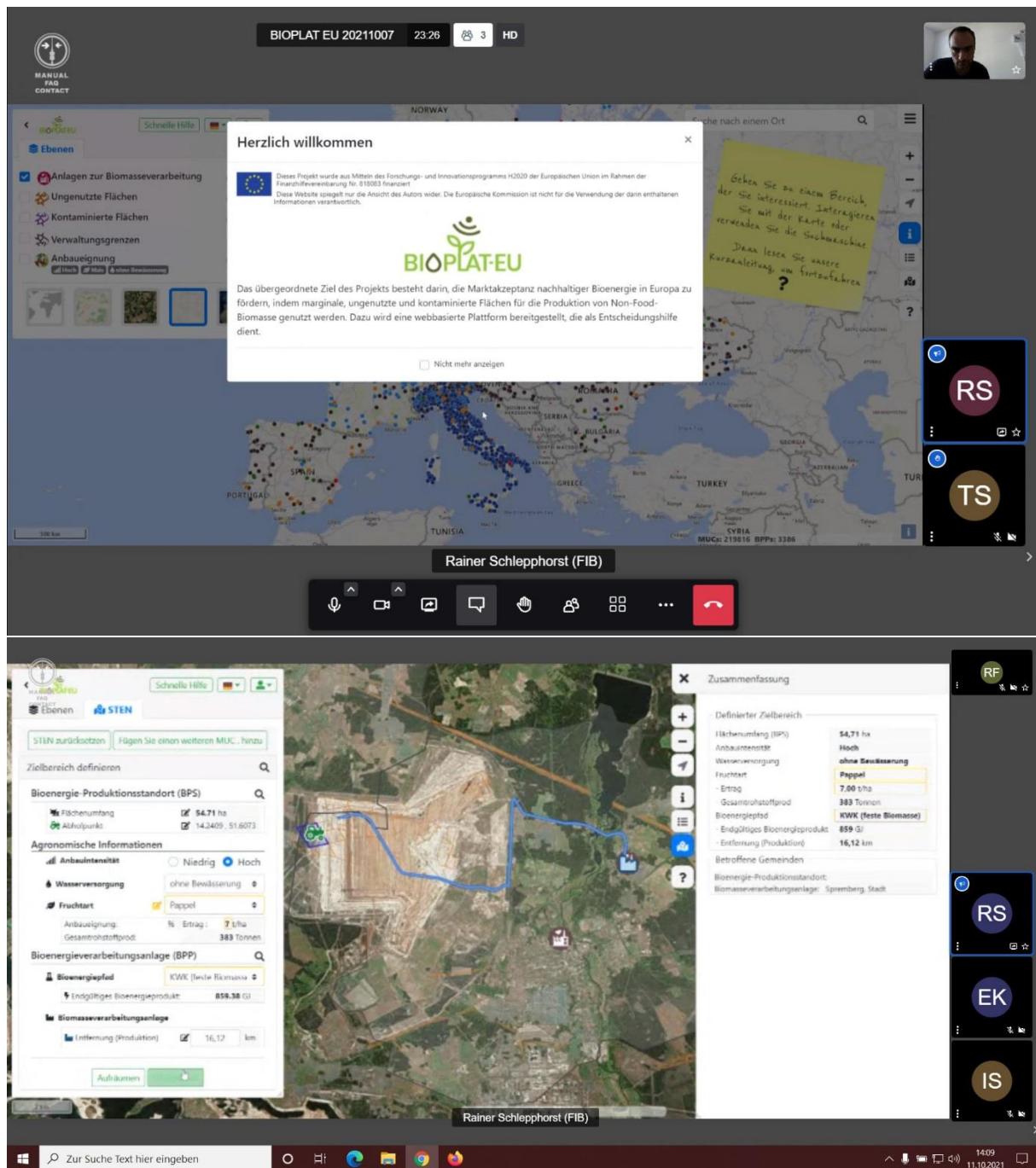


Invitation email sent to the department of Agriculture in district Dahme-Spreewald

2.2 Summary of the presentations and discussions

In addition to the introduction of the project and the tool, the presentations addressed the production and energetic use of biomass in the Lusatian region with a focus on MUC areas, like marginal agricultural land, sewage irrigation fields or forests under power lines.

All of the presentations were similar in terms of schedule: First, the EU project BIOPLAT-EU was generally introduced informing about the case studies in Germany and the webGIS tool. This was followed by a live demonstration of the tool directly with the value chains potentially available in the region.



Screenshots from online presentations (7.10.2021 and 11.10.2021)

Depending on the participants of the single events, the focus of the discussion was, for example, on economic issues of agricultural management or on the preservation of refuge areas for animals and thus the ecological sustainability.

During the discussion, local authorities pointed out that there is hardly any unused agricultural land in the region. For example, there are only less than 10 ha in the district of Spree-Neiße following the definition of the district administration. The land potential for bioenergy identified in lignite mining reclamation areas is theoretically also available for food and feed production after completion of the biological reclamation process. However, this discrepancy

is based on different definitions of the term '*unused land*' in the project and the district authorities.

Another point was, that fallow land often represents legally required set-aside rates, but this information cannot be derived by analyzing satellite imagery.

Technical uncertainties of cultivating biomass on former dump sites were pointed out. In addition to the often steep slopes, cavities under the soil cover can also lead to restrictions in the use of efficient but heavy machinery.

The participants highlighted the potential of the tool in a future required certification process of bioenergy.

About 20% of the agricultural land in Spree-Neiße is cultivated in eco farming. Nevertheless, there are still problems with public perception. The tool could be used for agricultural public relations, although the presentation of results would need to be expanded more, e.g. with graphics, comparison variants for different indicators (comparable to indicator Air Quality).

Another challenge is the low level of predicted water availability in the region. Thus, in addition to land as a resource, pressure on water for irrigation, for example, will also increase. However, there are approaches to counteract this, e.g. with climate-adapted management.

There were major conservation concerns from the nature conservation authorities regarding the webGIS tool. It allows a relatively simple search for areas that do not have legal status as protected areas, but which are very important as refuges for nature and thus for the preservation of biodiversity. Habitat fragmentation thus continues to increase as well. It was asked to what extent the tool considers this loss of ecological sustainability.

A possible use of biomass for bioenergy, on the other hand, is seen in areas that are managed in the context of nature conservation and landscape management. At the moment, the biomass usually remains on the site and could thus represent a potential. Therefore, after adjustments to the topic, the tool could be used by the Nature Conservation Authority to search for areas such as grassland and meadows, to obtain biomass in the context of landscape management, and to consider the economic viability for this.

The lower Nature Conservation Authority (untere Naturschutzbehörde) must approve impacts on unused areas. On the other hand, the municipalities have planning sovereignty and can thus, for example, enforce the construction of photovoltaic systems on open areas.

The topics of paludiculture, soil development and CO₂ storage in terrestrial or peat soils were also addressed.

In the Ministry of Agriculture, Environment and Climate Protection (MLUK), the value of the tool was also seen for start-ups and investors. It was suggested to further develop the tool with regard to an open interface to existing geodata projects, such as GeoBox in Rhineland-Palatinate.

A further development beyond the consideration of bioenergy value chains, e.g. towards climate-friendly sustainable material utilization, was also discussed.

The presentation of the project, the value chains and the webGIS tool led to another meeting at the Ministry level, probably in early November, where a larger number of officials from different departments are invited. This will make the project and the tool even better known at the federal state level and can support the political decision-making process in the field of the bioenergy strategy of Brandenburg.

3 Presentation in Bács-Kiskun County, Hungary

3.1 Introduction

The presentation of the project objective and results were conducted on 14th of July 2021, via ZOOM meeting, organized by Geonardo.

The Council was represented by 3 people responsible for climate and energy issues and regional development and planning.

The names of the participants to the event on behalf of the Council:

Ms. Dorina Válik

Ms. Ágota Józán

Mr. Viktor Papp.

The names of the participants to the event on behalf of Geonardo:

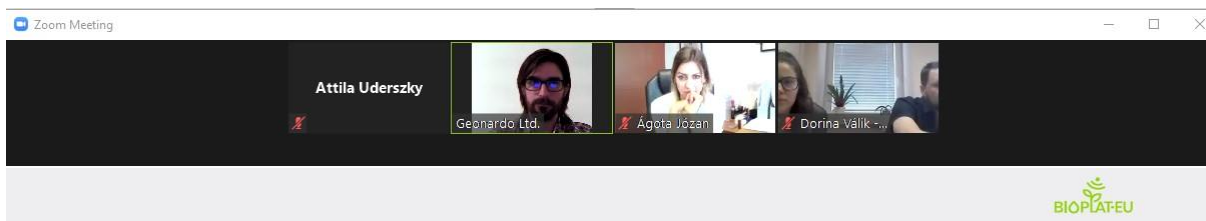
Mr. Attila Uderszky

Mr. Peter Gyuris.

3.2 Summary of the presentation and discussions

The presentation's content was mainly centred around the overall and specific objectives of the project, workplan and major outcomes.

Specific introduction of the project's webGIS tool was performed in detail, including value chain set up and STEN tool demonstration. The following screenshots were made during the meeting



A projekt fő célkitűzése

A projekt fő célkitűzése a művelésből kivett földterületek bioenergetikai és egyéb gazdasági hasznosításának lehetőségeinek európai vizsgálata egy online döntéstámogató eszköz kifejlesztésével.

A projekt elsősorban a „non-food” felhasználási lehetőségeket vizsgálja olyan szennyezett vagy hagyományos értelemben értéktelen területeken, ahol a szokásos mezőgazdasági-erdészeti termesztes nem lehetséges vagy nem gazdaságos.



 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818083.

Illustration of the introduction of the project main objective

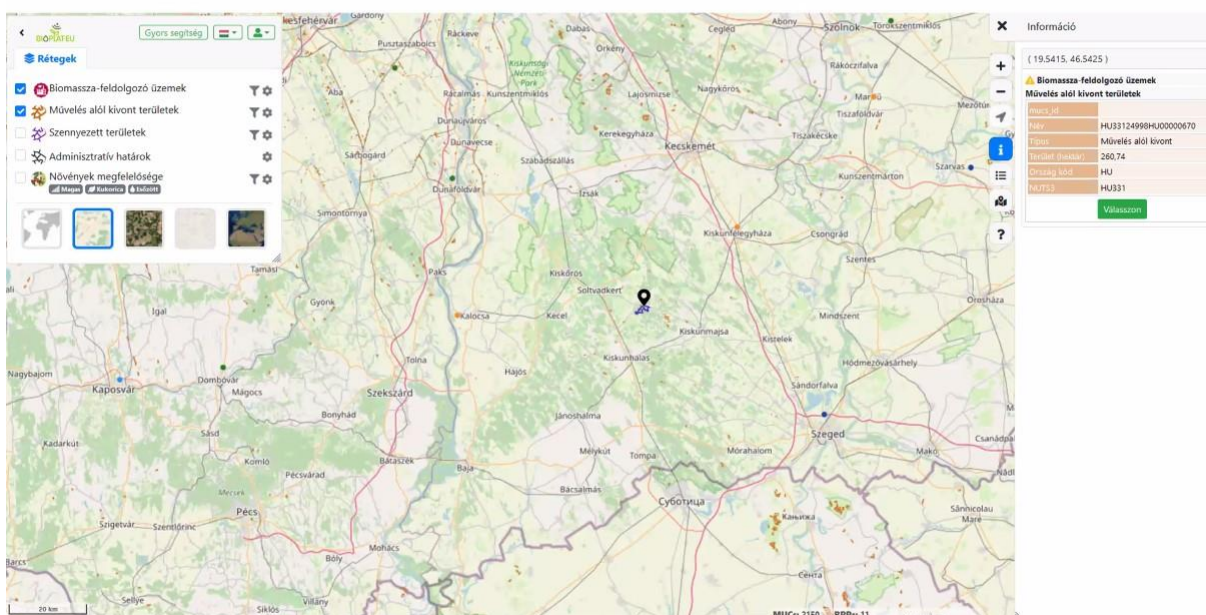


Illustration of the demonstration to the BIOPLAT-EU webGIS tool

Following the presentations free discussion took place that are focused on the respective development plans in the county and how the obtained knowledge can be utilized by the Council.

Ideas were also discussed to potential future cooperation with regards to participating in collaborative projects.

4 Presentation in Csongrád-Csanád County, Hungary

4.1 Introduction

The contact to the representative of the Council was done in multiple occasion via phone. The first contact was made in June and finally an in-person meeting was performed on the 11th of October 2021.

The meeting and presentation took place in Szeged organize by Geonardo (venue and catering).

The name of the participant(s) to the event on behalf of the Council (ex-territorial development officer):

Mr. Péter Folberth

The name of the participant(s) to the event on behalf of Geonardo:

Mr. Peter Gyuris.

4.2 Summary of the presentation and discussions

The project objectives and results were discussed at the various events and during the in-person meeting the webGIS tool has been demonstrated live.

The topics of the discussion were how bioenergy projects could contribute to the climate goals of the Council and what are the implementation potential, in view of the county's official climate strategy (2017).

5 Presentation in Basilicata, Italy

5.1 Introduction

The main objective of the meeting was to present to the local and regional authorities of the Basilicata region the project results about mapping, potentials, and case study investigations. A summary of the main project activities as well as an overview of the results focusing on the tool and its functionalities was presented to decision makers at regional level with the aim to promoting the sustainable use of underutilized land for bioenergy projects. The presentation

of the web-GIS tool developed within the project was an integral part of the workshop, where its functionalities were demonstrated on specific areas of the region and with a focus on the most promising bioenergy value chain identified as suitable for the Basilicata region by the project (i.e., biodiesel).

As the meeting was conducted online, only one took place but different authority representatives attended. The meeting was held online on Friday 8th October 2021, from 10:00 to 11:00 AM.

The agenda of the event was sent via email to participants, who were previously contacted and invited via phone. The agenda included the link to access the meeting, which was held via Microsoft Teams.



*Risultati e output del progetto:
possibili scenari di sviluppo delle filiere bioenergetiche in Basilicata.*

On-line – 8 Ottobre 2021

Per accedere all'evento [LINK](#)

Agenda dell'evento

8 Ottobre 2021	
Sessione I: introduzione e riassunto dei risultati raggiunti	
10:00	Il progetto BIOPLAT-EU: obiettivi, prodotti e risultati delle consultazioni in Basilicata. Principali risultati del business plan definito per Greenswitch. Guido Bonati - Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria (CREA) - Centro Politiche e Bioeconomia (PB) - Roma
10:10	Presentazione dello STEN (Sostenibilità delle filiere bioenergetiche in Europa e nei Paesi limitrofi) come strumento di supporto alle decisioni e alla valutazione ex-ante della sostenibilità delle filiere bioenergetiche in regione. Tiziana Pirelli - CREA PB - Roma
Sessione II: dimostrazione pratica dello strumento web GIS	
10:15	Dimostrazione pratica dello strumento STEN con focus sulle opportunità di valorizzazione delle aree MUC in Basilicata Giuseppe Pulighe - CREA PB - Sardegna
Sessione III: possibili scenari di sviluppo e discussione	
10:30	Osservazioni, domande e discussione: come superare le barriere e contribuire allo sviluppo di una filiera bioenergetica corta in Basilicata. Moderatore: Giuseppina Costantini - CREA PB - Basilicata
11:00	Chiusura dei lavori



This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n° 818063

Agenda of the meeting held on-line on 8 October 2021

The meeting was attended by the whole team of CREA experts responsible for the implementation of the BIOPLAT-EU project in Basilicata, the Regional Councillor for Agriculture and Forestry of the Basilicata region, Mr. Francesco Fanelli, and the lead technical officer of the

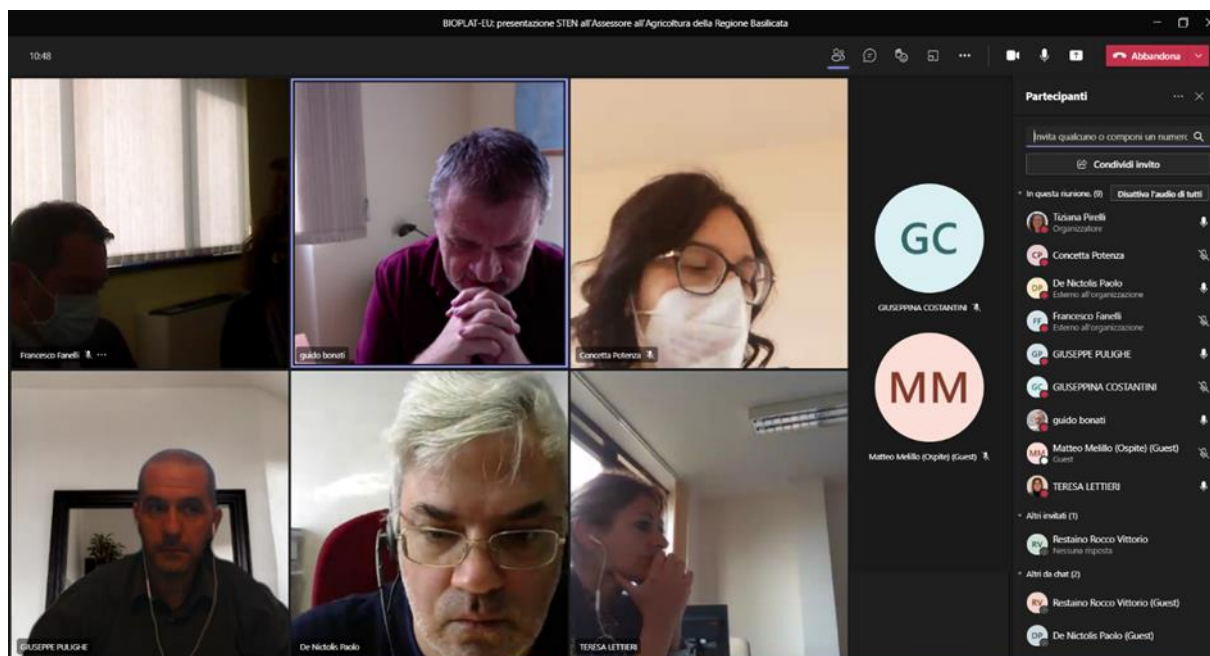
Department for Agricultural and Forestry policies of the government of the Basilicata region, Mr. Paolo De Nictolis. The full **list of participants** in the meeting is provided in the table below.

Participant name	Organisation	Role	Stakeholder category
Guido Bonati	CREA PB	Technologist officer	University/Research Institute
Giuseppina Costantini	CREA PB	Technologist officer	University/Research Institute
Paolo De Nictolis	Department for Agricultural and Forestry policies of the government of the Basilicata region	Lead technical officer	Regional authority
Francesco Fanelli	Government of the Basilicata region	Regional Councillor for Agriculture and Forestry of the Basilicata region	Regional authority
Teresa Lettieri	CREA-PB Basilicata	Technologist	University/Research Institute
Matteo Melillo	La Tuscia University	Student/trainee	University/Research Institute
Tiziana Pirelli	CREA PB	Researcher	University/Research Institute
Concetta Potenza	CREA PB	Researcher	University/Research Institute
Giuseppe Pulighe	CREA PB	Researcher	University/Research Institute

5.2 Summary of presentations and discussions

The workshop was opened by Mr. Guido Bonati, who welcomed participants and gave an overview of the BIOPLAT-EU project: the partners involved, the project duration, and the amount of funds allocated for its implementation. Mr. Bonati summarized the overarching goal of the project and the activities implemented throughout the project lifespan, with a focus on the ones carried out in Val Basento, an area in the territory of Basilicata characterized by the presence of MUC lands. Then, Mr. Bonati summarized the main outcomes of the workshop held in Basilicata in October 2020: he explained which were the key reasons which brought to the selection of the biodiesel pathway as the most suitable bioenergy pathway having the potential to be sustainably developed in Basilicata. Ultimately Mr. Bonati presented briefly the results of the business study carried on the development of a short biodiesel value chain in Basilicata, which was developed by considering as a base the real data provided by Greenswitch s.r.l. a private company established in the municipality of Ferrandina, which is currently producing biodiesel from various types of raw material, among which imported soybean and wasted/exhausted food oils.

Following Mr. Bonati opening speech, Dr. Giuseppe Pulighe introduced the scope of the web-GIS tool developed in the course of the project and gave to participants a general overview of the stepwise approach which brought to its development. Dr. Pulighe explained the main components (i.e., the GIS/map function and the STEN tool for the assessment of value chain sustainability) and features of the web-GIS tool before proceeding with a practical live demonstration of it.



Screenshot taken during the event held via Microsoft Teams on 8 October 2021.

Dr. Pulighe guided the participants through the STEN tool, by starting from explaining how to access the tool via the [BIOPLAT-EU website](#), how to complete the registration process for different type of users. After having given a general overview of the WEB-GIS tool, Dr. Pulighe focused the demonstration on the territory of Basilicata and run the multiple functionalities of the tool, with a focus on a potential short local biodiesel value chain, based on the cultivation of oilseed crops (i.e., sunflower and camelina) in MUC land present in the region, within a radius of maximum 70 km far from the Greenswitch biorefinery plant. Mr. Pulighe explained how to identify potential patches for bioenergy crops cultivation among the one recognized as MUC areas. By playing with the tool, Dr. Pulighe explained how the changes of data in the calculator, ultimately result in various types of information, as an output of the Sustainability assessment tool.

Soon after the demonstration, Dr. Pirelli informed the participants that both CREA and the Greenswitch company have been recently contacted by ENI, via separated paths, respectively for the punctual identification of MUC land for the cultivation of biomass for bioenergy production across Italy and for the production of biodiesel from various types of raw materials. Furthermore, we have been informed that ENI is strongly interested in the development of a biodiesel local value chain in the Italian territory, because this will allow ENI to comply with a national rule according to which a percentage (still unknown) of the biodiesel blended with

fossil fuel should come from a nationally-based short biodiesel value chain in order for ENI to obtain the Green certificates.

Mr. Fanelli showed his high interest for the topic introduced by CREA researchers and expressed his willingness to forward and further discuss the received information with a group of technical officers within the regional government of Basilicata. He highlighted the importance of creating supporting measures and incentives that could foster the development of the biodiesel pathway in Basilicata. These type of policies and measures shall be included in the forthcoming plans and strategies that the regional authorities is currently defining and that will be implemented in the future years. He highlighted that not only the agriculture sector shall be involved in this effort, but also other sectors such as the industrial, the energy and the transport sectors. He recognized the multiple opportunities for the local economy that could be leveraged through the development of the bioenergy sector, in Basilicata.

5.3 Conclusions

The Regional Councillor for Agriculture of the Basilicata region was impressed by the work implemented within the BIOPLAT-EU project and expressed his strong interest and willingness to collaborate with CREA to build on the outcomes of BIOPLAT-EU and to facilitate concrete actions for a successful project follow up. In particular, Mr. Francesco Fanelli mentioned various opportunities which can be investigated to support the development of a short-bioenergy value chain in Basilicata, taking advantage of the biorefinery which is already in place (Greenswitch). In this framework, investment and funding opportunities could derive from the allocation of the European Structural and Investment Funds, from the “NextGenerationEU” fund under the supervision of the Italian Ministry for Ecological Transition, and from the agreement between ENI and the regional government of Basilicata undersigned on 30/09/2021 to fostering the offsetting of impact derived from fossil fuel extraction activities implemented by ENI in Basilicata, through funding targeted projects and activities aimed to support sustainable development and ecological transition of the energy sector.

In relation to the European Structural and Investment Funds, Mr. Fanelli specified that the European Agricultural Fund for Rural Development (FEASR for its acronym in Italian) can support the development of all those steps of the biodiesel value chains included from the cultivation of oilseed crops until the extraction of the oil from the harvested seeds. On the other hand, the European Regional Development Fund (FESR for its acronym in Italian) can be used to foster the development of all those steps of the bioenergy value chain which go from the transformation of the agricultural product (oil) until the selling of the produced biofuel. Although the FEASR and the FESR funds are dedicated to different phases of the value chain, respectively the agricultural and the industrial one, the region is encouraging that the planning for the next period (2021-2023) will give the opportunity to use these funds in an integrated and synergic way, thus complementarily supporting the development of sustainable value chains, in all agricultural related sectors.

CREA and the regional government of Basilicata will liaise for promoting the development of a short biodiesel value chain in Basilicata in the forthcoming future, and ENI will be involved as well in the discussion table.

6 Presentation in Sardinia, Italy

6.1 Introduction

The meeting was held online on Thursday 21st October 2021, from 10:00 to 11:00 AM.

The agenda of the event (Figure below) was sent via email to participants, who were previously contacted and invited via phone. The agenda included the link to access the meeting, which was held via Microsoft Teams.




*Risultati e output del progetto:
possibili scenari di sviluppo delle filiere bioenergetiche in Sardegna.*

On-line – 21 Ottobre 2021
Per accedere all'evento [LINK](#)

Agenda dell'evento

21 Ottobre 2021

Sessione I: introduzione e riassunto dei risultati raggiunti	
10:00	Il progetto BIOPLAT-EU: obiettivi, prodotti e risultati delle consultazioni in Sardegna. Principali risultati del business plan per la filiera locale del biogas. Guido Bonati - Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria (CREA) - Centro Politiche e Bioeconomia (PB) - Roma
10:10	Presentazione dello STEN (Sostenibilità delle filiere bioenergetiche in Europa e nei Paesi limitrofi) come strumento di supporto alle decisioni e alla valutazione ex-ante della sostenibilità delle filiere bioenergetiche in regione. Tiziana Pirelli - CREA PB - Roma
Sessione II: dimostrazione pratica dello strumento web GIS	
10:15	Dimostrazione pratica dello strumento STEN con focus sulle opportunità di valorizzazione delle aree MUC in Basilicata Giuseppe Pulighe - CREA PB - Sardegna
Sessione III: possibili scenari di sviluppo e discussione	
10:30	Osservazioni, domande e discussione: come superare le barriere e contribuire allo sviluppo di una filiera bioenergetica corta in Sardegna. Moderatore: Giuseppina Costantini - CREA PB - Basilicata
11:00	Chiusura dei lavori



This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n° 818083

Agenda of the meeting with local authorities of Sardinia

The meeting was attended by experts of the BIOPLAT-EU team in CREA and Dr. Martino Muntoni, officer of the Sardinia Regional Agency for Agricultural Research (AGRIS per its acronym in Italian). The full list of participants in the meeting is provided in the table below.

Participant name	Organisation	Role	Stakeholder category
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Guido Bonati	CREA PB	Technologist officer	University/Research Institute
Giuseppina Costantini	CREA PB	Technologist officer	University/Research Institute
Teresa Lettieri	CREA-PB Basilicata	Technologist	University/Research Institute
Martino Muntoni	Sardinia Regional Agency for Agricultural Research (AGRIS)	Lead technical officer	Regional authority
Tiziana Pirelli	CREA PB	Researcher	University/Research Institute
Giuseppe Pulighe	CREA PB	Researcher	University/Research Institute

6.2 Summary of the presentation and discussions

Mr. Guido Bonati welcomed Dr. Muntoni and gave an overview of the BIOPLAT-EU project: the partners involved, the project duration, and the amount of funds allocated for its implementation. Mr. Bonati summarized the overarching goal of the project and the activities implemented throughout the project lifespan, with a focus on the ones carried out in Sardinia, which focused mainly on the area around the territory of Sulcis, characterized by the presence of MUC lands. Then, Mr. Bonati summarized the main outcomes of the workshop held in Sardinia in September 2020: he explained which were the key reasons for the selection of the biogas pathway as the most suitable bioenergy pathway having the potential to be sustainably developed in Sardinia. Ultimately, Mr. Bonati presented briefly the results of the business study carried out for the potential development of a short biogas value chain in Sardinia.

Following Mr. Bonati opening speech, Dr. Tiziana Pirelli introduced the scope of the web-GIS tool developed during the project and gave to Dr. Muntoni a general overview of the technical steps which brought to its development. Dr. Pirelli explained the main components (i.e., the GIS/map function and the STEN tool for the assessment of value chain sustainability) and features of the web-GIS tool, among which the HELP-desk function. Then, she left the floor to Dr. Giuseppe Pulighe who gave a practical live demonstration of the tool, with a focus on the case study area of the Sardinia Region.

Dr. Pulighe guided Dr. Muntoni through the STEN tool, by starting from explaining how to access the tool via the BIOPLAT-EU website, how to complete the registration process for different type of users. After having given a general overview of the WEB-GIS tool, Dr. Pulighe focused the demonstration on the territory of Sardinia and run the multiple functionalities of the tool, with a focus on a potential short local biogas value chain, based on the cultivation of biomass crops (e.g., maize) in MUC land present in the region, within a radius of maximum 70 km far from an existing biogas plant. Dr. Pulighe explained how to identify potential patches for bioenergy crops cultivation among the one recognized as MUC areas. By playing with the tool,

Dr. Pulighe explained how the changes of data in the calculator, ultimately result in various types of information, as an output of the Sustainability assessment tool.

Dr. Muntoni showed high interest for the web-GIS tool. He immediately recognized multiple purposes for which the STEN tool could be used, beyond the ex-ante assessment of the sustainability of potential local short bioenergy value chains. In particular, Mr. Muntoni appreciated the two key components of the STEN tool: the GIS component for the identification of MUC lands, and the sustainability assessment tool. He noticed that the identification of MUC lands could be helpful to foster the cultivation of biomass crops, both for bioenergy or bioeconomy purposes, as well as for the installation of solar panels and wind plants for the production of renewable energy. On the other hand, the sustainability assessment tool can be used to assess the environmental sustainability of agricultural management practices more in general, as a means to make forecast on the sustainability of applying specific measures and practices in a certain area. Therefore, it could also be used to support the definition of future policies and plans related to agriculture, rural development and the transition towards more sustainable and renewable energy forms. As a matter of fact, the future EU's common agricultural policy (CAP) will be defined at national level, with a centralized approach, and will not allow for tailored Regional Development Programmes (PSR, for the acronym in Italian), as it has been in the last decades. In this process, the STEN tool could serve to simulate the impacts due to the adoption of certain practices.

Dr. Muntoni informed CREA team that the Department for studies on environmental services in AGRIS has recently developed detailed soil maps for the whole territory of Sardinia. He suggested to integrate these soil maps in the STEN tool, in order to allow for more reliable ex-ante sustainability assessment forecasts.

6.3 Conclusions

Dr. Muntoni highlighted the need to take the momentum, by mainstreaming the use of the STEN tool in the development of future (CAP) interventions, as well as of the European Agricultural Fund for Rural Development (FEASR for its acronym in Italian) and the European Regional Development Fund (FESR for its acronym in Italian), all of which are currently in the process of being defined as result of a process of strict collaboration between the regional and national public authorities. The STEN tool can guide the integrated development and the creation of synergies between the FEASR and the FESR, the last one being the main source of funds targeted to bioenergy and energy production chains and enterprises.

A further meeting will be organized in the forthcoming future between CREA and AGRIS, with the aim to explore possible application of the STEN tool to foster a successful development and implementation of the National Strategic Plan, which includes both the FEASR and FESR plans.

It is urgent to facilitate the transition from the R&D phase to the actual implementation of this important decision supporting tool in the day-to-day activities.

7 Presentation in Bacau County, Romania

7.1 Introduction

Local and regional authorities supported and participated to the previous events organised in Bacau County (first and second WG meeting and workshop dedicated to landowners), so that they were well informed about the activities developed within the BIOPLAT-EU project. For example, at the first WG meeting a representative of the County Council took part. This meeting was organised with the active support of the municipality of Buhusi.

However, a special meeting for the presentation of the objectives of the BIOPLAT-EU project and its results in Bacau County took place on the 21st of September 2021, after the workshop and the second WG meeting.

The following municipalities mayors participated:

Lupu Vasile – Mayor of Parjol municipality

Costras Iordache – Mayor of Magura municipality

Rotariu Vasile – Mayor of Strugari municipality

7.2 Summary of the presentation and discussions

As these three local authorities' representatives have already participated in the workshop that had taken place during the same day, when the emphasis was put on the STEN tool, it was considered more efficient to focus the presentation on the feasibility study that was developed by the BIOPLAT-EU partners. The feasibility study addressed cultivation of sorghum on an underutilised land belonging to a hydro-energy producer (HIDROELECTRICA in Buhusi-Blagesti), in order to fuel a new built co-generation plant on biogas.

Taking into account the Working Group suggestion that the cogeneration plant may collect biomass from several plots in the area, some MUC lands belonging to the Strugari, Parjol and Magura could be cultivated with sorghum to be used in the same cogeneration plant and therefore increase the size and efficiency of the project.

The mayors were also interested in financing sources for this type of projects, and it was discussed about the provisions of the new Resilience and Recovery Programme, and other opportunities, such as the National Programme for Rural Development.



As a conclusion, it was stated that using underutilised terrains for bioenergy projects could be a good option, but some barriers should be overcome, such as possibilities to find a sufficient surface of land, opposition of farmers to new and non-traditional crops, energy infrastructure etc.

8 Presentation in Gorj County, Romania

8.1 Introduction

Similar to the previous case of Bacau County, in Gorj county, local and regional authorities were well represented among the audience in the physical events organised there (two working group meeting, one workshop), including the Vice-president of the County Council.

In order to enhance the awareness of county decisional bodies on the use of MUC lands for energy purposes, ENERO organised an online meeting (due to the worsening of the COVID situation in Romania) on the 7th of October 2021, with the participation of:

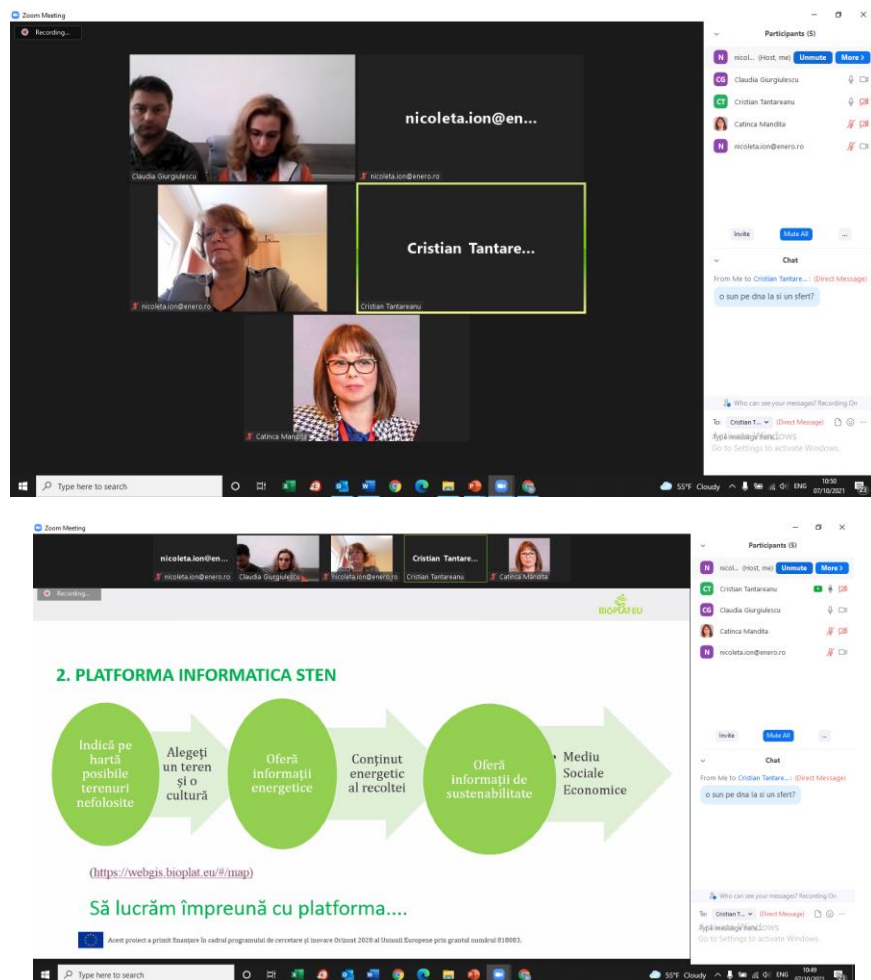
Mrs. Claudia Giurgiulescu, Director of the Project Management and External Relations Department, County Council

Mr. Alin Jipanu – Counsellor

8.2 Summary of the presentation and discussions

After a short of introduction of participants, Mrs Giurgiulescu underlined that the objectives of the BIOPLAT-EU project could be in line with the Just Transition Plan of the Gorj County (which is in the phase of integration of the clarifications asked by the EC) and also with the Integrated National Energy and Climate Plan recently approved in its final form. The Gorj County is one of the counties entitled to receive funds within the Just Transition mechanism, in relation to the closure of the mining activities. Consequently, large areas will become available for possible energy crops.

Mrs. Nicoleta Ion presented the general overview of the BIOPLAT-EU project and the main results. After that Mr. Cristian Tantareanu presented the STEN tool, some value chains suitable on local conditions and some technical and economic considerations extracted from the feasibility study developed within the project.



The screenshot shows a Zoom meeting with five participants: Nicoleta Ion, Cristian Tantareanu, Claudia Giurgiulescu, Catalina Mandila, and another participant. The presentation slide is titled "2. PLATFORMA INFORMATICA STEN" and features a flowchart with four green circles connected by arrows:

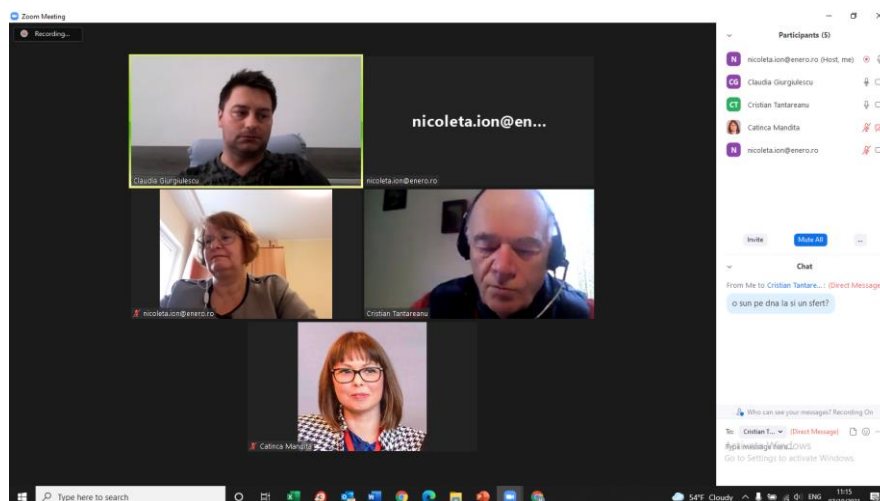
- Indică pe hartă posibile terenuri nefolosite
- Alegeți un teren și o cultură
- Oferă informații energetice
- Conținut energetic al recoltei
- Oferă informații de sustenabilitate
- Mediu Sociale Economice

Below the flowchart, the URL <https://webgis.bioplat.eu/#map> is displayed, followed by the text "Să lucrăm împreună cu platforma....". At the bottom of the slide, a small text line reads: "Acest proiect a primit finanțare în cadrul programului de cercetare și inovare Orizont 2020 al Uniunii Europene prin grantul nr.10101835."

During the dialogue, Mrs Giurgiulescu mentioned that the main barrier is the legal ownership of the land affected by former mining activities, as this is unclear. The Energy Complex Oltenia (CEO) is in a restructuring process and probably intent to dispose of these terrains. In some cases, CEO is not the legal owner, and where it is, CEO is not allowed by law to give these terrains back to the local administrative units, until the lands are not fully recovered, an activity

requiring funds difficult to secure. Thus, a change of the legal provisions is necessary to solve this blockage.

Mr. Jipanu stressed the intention of the regional authorities to diversify the economic environment of the county, which now is focusing on almost a single industry – coal extraction and energy production. Biomass for energy on underutilised land could be a value chain worth to be developed in Gorj County, as soon there will be available large surfaces of affected land that cannot be used for food production.



After the meeting, the PPT presentations were sent to the interlocutors from the County Council and also the two movies presenting the BIOPLAT-EU project, in order to be used by them to further dissemination.

9 Presentation in Spain

The presentation of the project took place on 29 October 2021 through a phone call.

Prof. Calera (UCLM) explained to Mr Manuel Miranda, a member of the Spanish Parliament, the objectives of the BIOPLAT-EU project and the developed webGIS tool. Prof. Calera then informed him about the previous workshops that were implemented in the framework of the project. Mr. Miranda showed interest in the conclusions reached, mainly on those legal aspects related to the barriers that break the development of biofuels, although, he recognizes, it is a very complex issue.

After the call it was agreed to send him detailed information about the project and the conclusions of the Spanish case study.

10 Presentation in Khmelnytskyi and Ternopil, Ukraine

10.1 Introduction

Presentations to policy makers were held within the meetings of Working groups on October 8, 2020 (P.1) and September 21, 2021 (P.2) that were held virtually due to restrictions related to COVID-19 pandemic. Presentations informed about BIOPALT-EU project regional and local authorities and national authorities that visited some of the meetings (see the table below for the list of participants).

The list of representatives of policy makers from regional and local authorities of Khmelnytskyi and Ternopil regions and representatives of national authorities

Stakeholder category	Organisation	Title	Name	Region	E-mail	P. 1	P. 2
National authority	SAEE	Deputy Head	Yuri Shafarenko	Ukraine	shafarenko.ua@gmail.com	+	-
National authority	SAEE	Deputy director of RES department	Olena Lenska	Ukraine	a_lenskay@ukr.net	+	+
National authority	SAEE	Deputy Head of Division	Natalia Lagutina	Ukraine	lagutinanat@ukr.net	+	+
National authority	SAEE	Head of Division	Yulia Kryvsha	Ukraine	u.kryvsha@gmail.com	+	-
National authority	Ministry of Energy	State expert on sustainable development	Valentyn Kyrychenko	Ukraine	valentin-kirichenko@ukr.net	+	-
Regional authority	Khmelnytskyi regional administration	Head of Division, Department of Community Development, Construction and Housing and Utilities	Andriy Tsyganenko	Khmelnytsky	a.v.tsyhanenko@gmail.com	-	+
Regional authority	Khmelnytskyi regional administration						
Regional authority	Ternopil region state administration	Deputy Head of the Department of Energy	Mykola Mykhalskyi	Ternopil	mvm2016@ukr.net	+	-

		Efficiency and Energy Saving					
Local authority	Khmelnysk y City Council	Head of the energy management department	Nataliia Plekanets	Khmelnysk yi	energy@khn .gov.ua	-	+
Local authority	Narkevytsia village council	Head of the department of economic development and investments	Alina Vasilina	Khmelnysk yi	nsr_otg@ukr. net	+	-
Local authority	Dunaevets City territorial community	Head of the Department of Social Protection and Labor of Dunaevets City Council	Mykola Ostrovskyi	Khmelnysk yi	geliard@met a.ua	+	-
Local authority	Pluzhne village council	Head of the organizational department	Liubov Lapchuk	Khmelnysk yi	orgviddilrada @ukr.net	+	-
Agency supporting Local authority	Agency of regional developme nt of Ternopil region	Director	Volodymyr Vasylevskyi	Ternopil	v.vasylyvskyy @gmail.com	+	-
Local authority	Husiatyn village council	Deputy mayor on the activities of executive bodies	Viktor Gud`	Ternopil	othgromada @gmail.com	-	+
Local authority	Hukivka village territorial community	Village Head	Petro Ilnyskyi	Khmelnysk yi	radagukiv@u kr.net	-	+
Local authority	Theophipol village council	Secretary of the village council	Roman Nepotas	Khmelnysk yi	nepotas2012 @gmail.com	-	+
Local authority	Krasyliv City Council	Mayor	Nila Ostrovska	Khmelnysk yi	krasyliv_rada @ukr.net	-	+
Local authority	Volochysk City Council	Head of the Department of Land Relations and Ecology	Vita Datsiuk	Khmelnysk yi	zem.eko_m.r ada@ukr.net	-	+

Local authority	Khmelnysk y City Council	Deputy Head of the Department of Ecology	Natalia Sybiga	Khmelnysk yi	natk081@ukr .net	-	+
Local authority	Starosinyavs ka village council	Head of the Department of Economic Development, Trade and Investment	Liudmyla Panchuk	Khmelnysk yi	stsinekonom. gromada@g mail.com	-	+
Local authority	Starosinyavs ka village council	Head of the Land relations Development	Natalia Dziuba	Khmelnysk yi	stsinekonom. gromada@g mail.com	-	+
Local authority	Izyaslav City Council	Specialist	Olena Oliinyk	Khmelnysk yi	olenaant26@ gmail.com	-	+
Local authority	Shchyboriv village council	Chief Specialist of the Department of Communal Property, Land Relations and Socio-Economic Development	Liudmyla Zarudenska	Khmelnysk yi	zemschibor@ ukr.net	-	+
Local authority	Executive Committee of Netishyn City Council	Head of the Department of Land Resources and Environmental Protection	Hanna Tonka	Khmelnysk yi	netishyn_ze m@ukr.net	-	+
Local authority	Myrolyubne village council	Head of the Department of Land Resources, Civil Protection and Housing and Communal Services	Andrii Moskaliuk	Khmelnysk yi	mir-s- rada@ukr.net	-	+
Local authority	Medzhibizk a village council	Head of the Department of economic development and investments	Alina Gotfrid	Khmelnysk yi	medg_ekon @ukr.net	-	+
Local authority	Antonina village council	Chief specialist of the land relations sector	Natalia Solovei	Khmelnysk yi	antoninygro mada@ukr.n et	-	+

Local authority	Staroushytsi a village council	Village head	Anatolii Tymchuk	Khmelnysk yi	su.otg@ukr.net	-	+
Local authority	Letychiv village council	Department specialist	Andrii Sinnyi	Khmelnysk yi	mega_andriy1995@ukr.net	-	+
Local authority	Orynynska amalgamated territorial community	Head of the Department of Land resources, Ecology and Nature management	Denys Trach	Khmelnysk yi	orininsr72@ukr.net	-	+
Local authority	Hrytsivka village council	Specialist of the Department of Land resources and Ecology	Galyna Nakonechna	Khmelnysk yi	karpiykgalina67@gmail.com	-	+
Local authority	Sudykivska village council	Land relations specialist	Vladyslav Ordynskyi	Khmelnysk yi	Juber2008@meta.ua	-	+
Local authority	Dunaevets City Council	Specialist in urban planning and architecture of the land and architectural department	Iryna Mudra	Khmelnysk yi	ayrinkam@gmail.com	-	+
Local authority	Volochysk city council	Head of the Department of Land Relations and Ecology	Vita Datsiuk	Khmelnysk yi	zem.eko_m.rada@ukr.net	-	+
Local authority	Krasyliv City Council	Specialist of the first category of the Department of Land Relations and Ecology	Yulia Oziichuk	Khmelnysk yi	yuliya02121988@gmail.com	-	+
Local authority	Berezdivska village council	Deputy village head	Viacheslav Matiushko	Khmelnysk yi	berezdiv.energo@ukr.net	-	+
Local authority	Yarmolynets village council	Head of Department	Lesia Koshan	Khmelnysk yi	yarmzemlya@ukr.net	-	+
Politician			Maria Zherebna	Ternopil	marshere@ukr.net	+	-

10.2 Summary of the presentation and discussions

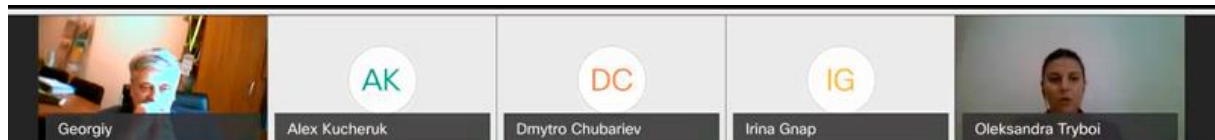
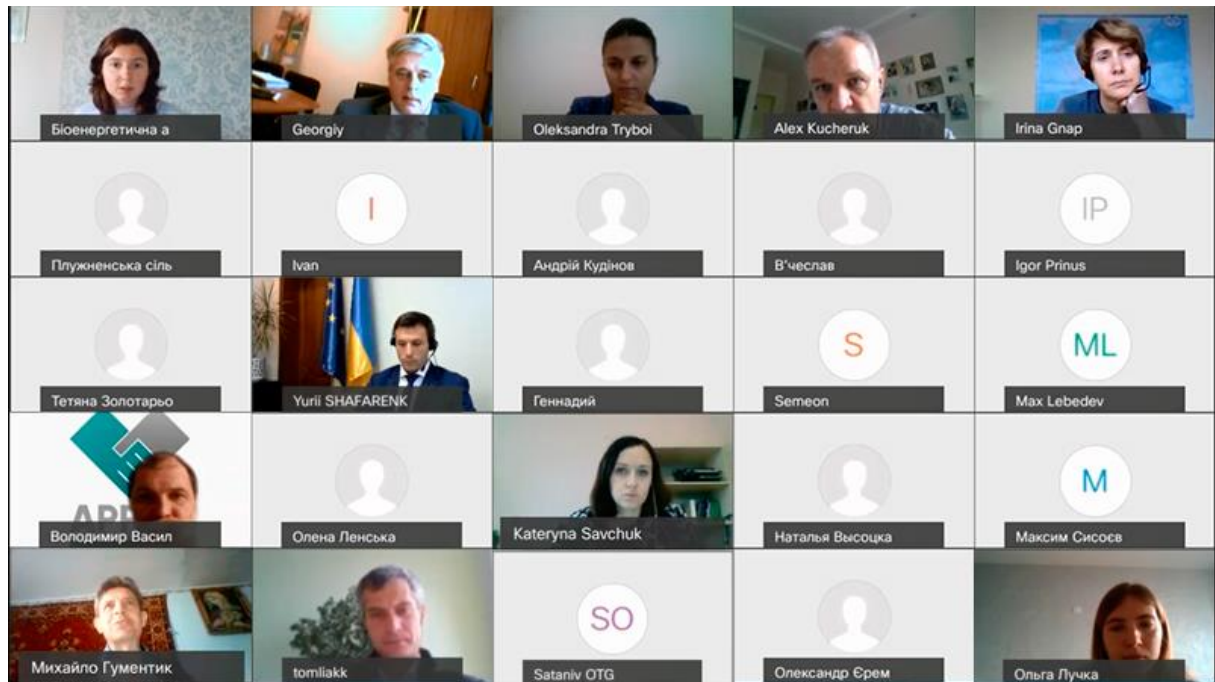
Presentation 1 to the policy makers of Khmelnytsky and Ternopil region, October 8, 2020

Within the Presentation 1 to policy makers of Khmelnytskyi and Ternopil regions on October 8, 2020 a general overview of BIOPLAT-EU project was presented, mentioning the goal and activities of the project and the concept of webGIS tool to assess sustainability aspects of potential bioenergy projects that use biomass from marginal and underutilized lands. At the meeting simulation results on the availability of these lands suitable for energy crops in Khmelnytsky and Ternopil were presented.

Questions and comments that were raised from the representatives of regional authorities were the following:

Representative of the Agency of Regional Development of Ternopil State administration Volodymyr Vasylevskyi mentioned that bioenergy projects are not very attractive enough to local investors as payback period is more than 5 years that is rather risky at today's realities in Ukraine. Possible support or subsidies from the State could improve the attractiveness of such projects. He also mentioned that the Agency, which is a platform for cooperation between authorities and business and civil society, will consider bioenergy projects to apply for support to the State Fund of Regional Development and will support their inclusion in future regional development plans. Mr. Vasylevskyi also said that in addition to state subsidies also more advocacy is needed to convince farmers and potential investors on the prospects and benefits of growing biomass crops on underutilized lands.

The representative of the Agency of Regional Development of Khmelnytskyi State administration Kateryna Savchuk noted that the Agency, as a consultancy institution of the Khmelnytsky State Region Administration, supports the implementation of bioenergy projects in the region. The Agency has already developed a project proposal on growing energy willow for one of the districts of Khmelnytskyi region to apply to the State Fund of Regional Development for financing.




Майданчик 1 – Хмельницька і Тернопільська області

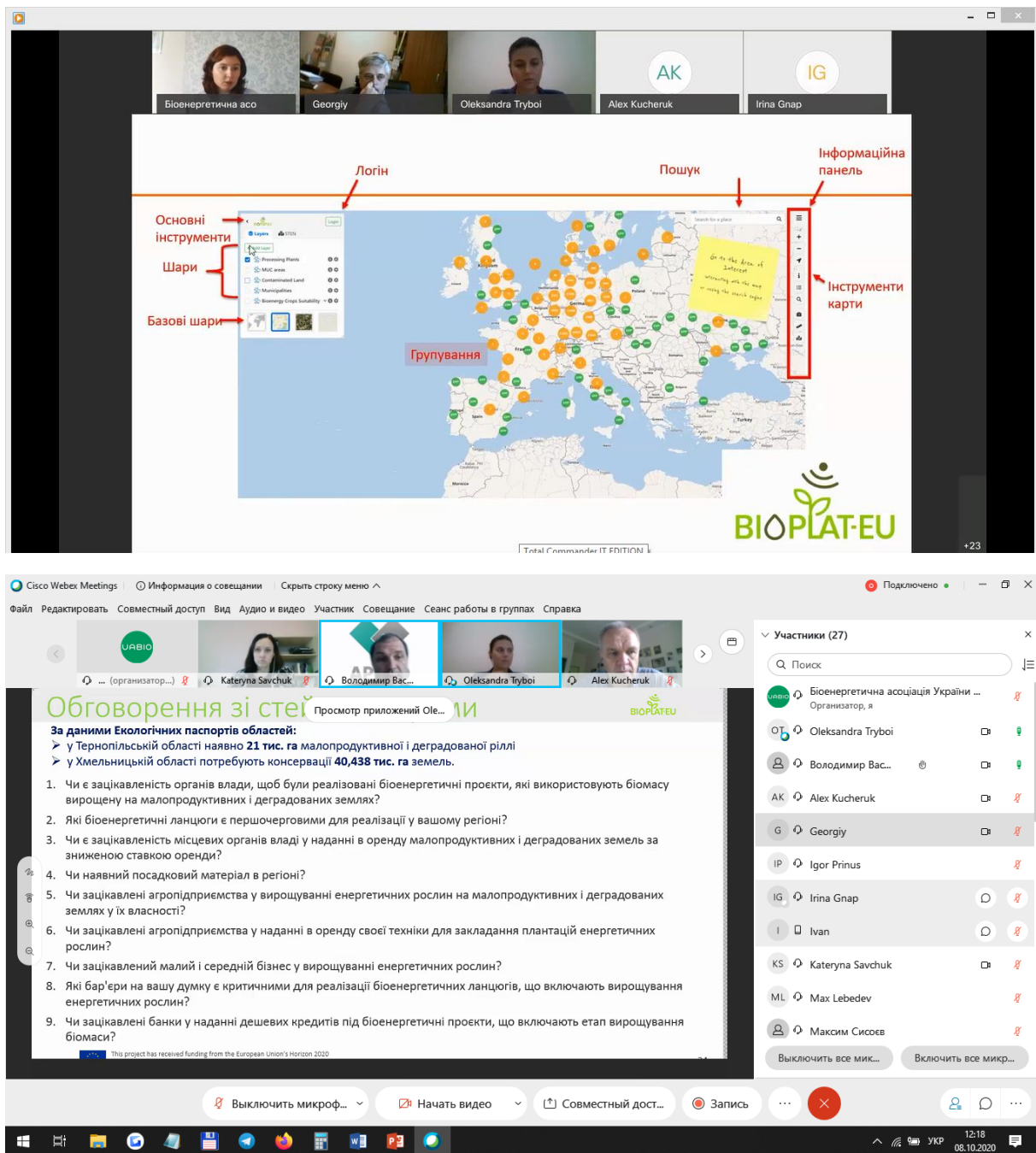


Область	Рівень 1 (мін. 10 га)		Рівень 2 (мін. 0,5 га)	
	Кількість ділянок МД земель	Загальна площа, га	Кількість ділянок МД земель	Загальна площа, га
Тернопільська	270	4919,00	1498	3734,36
Хмельницька	1318	31924,50	6718	29042,33




 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818083.

21



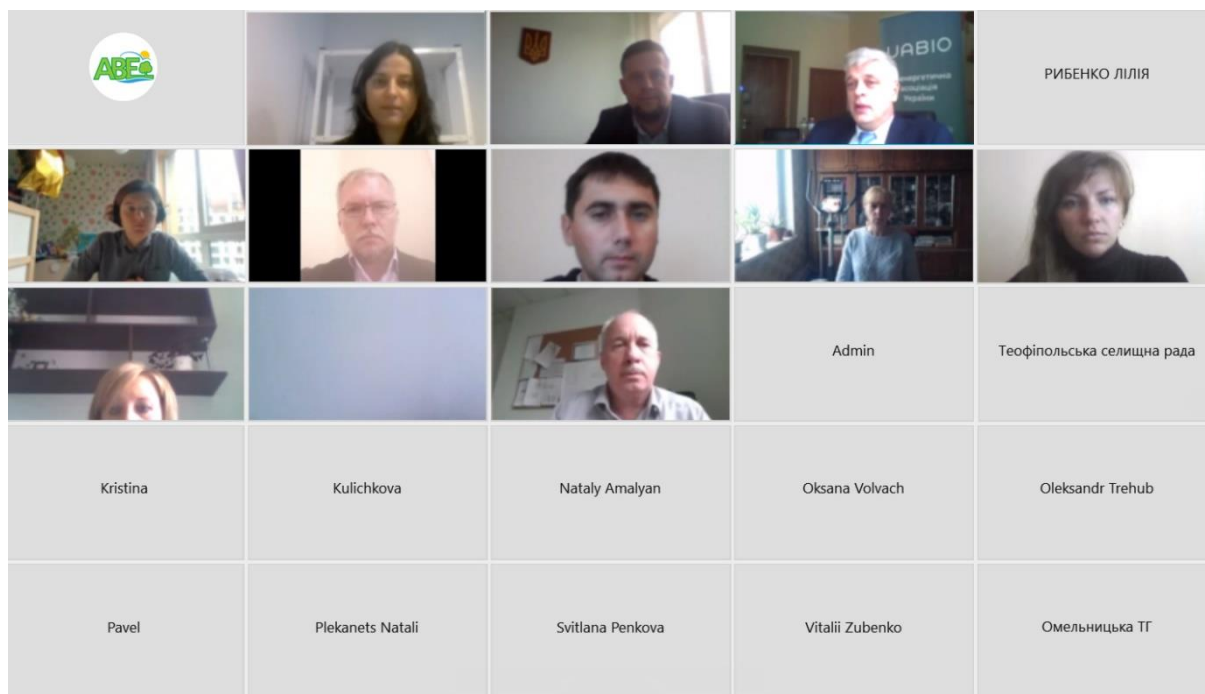
Presentation 2 to the policy makers of Khmelnytsky and Ternopil region, September 21, 2021

Presentation 2 to policy makers of Khmelnytskyi and Ternopil regions took place on September 21, 2021. The general goal of the BIOPLAT-EU project was reminded to the participants and results subject to the Ukrainian Case Study 1 – Khmelnytsky and Ternopil regions were presented, including potential of underutilized lands in the area and results of the feasibility study of the potential bioenergy project (CHP on biomass of Miscanthus). A special attention was devoted to the BIOPLAT-EU webGIS tool to assess sustainability aspects of different types of bioenergy projects. Oleksandra Tryboi, senior consultant of SECB in her presentation,

described the webGIS tool in detail. In addition, Olha Haidai, senior consultant of SECB, presented online testing on how to work with the webGIS tool.

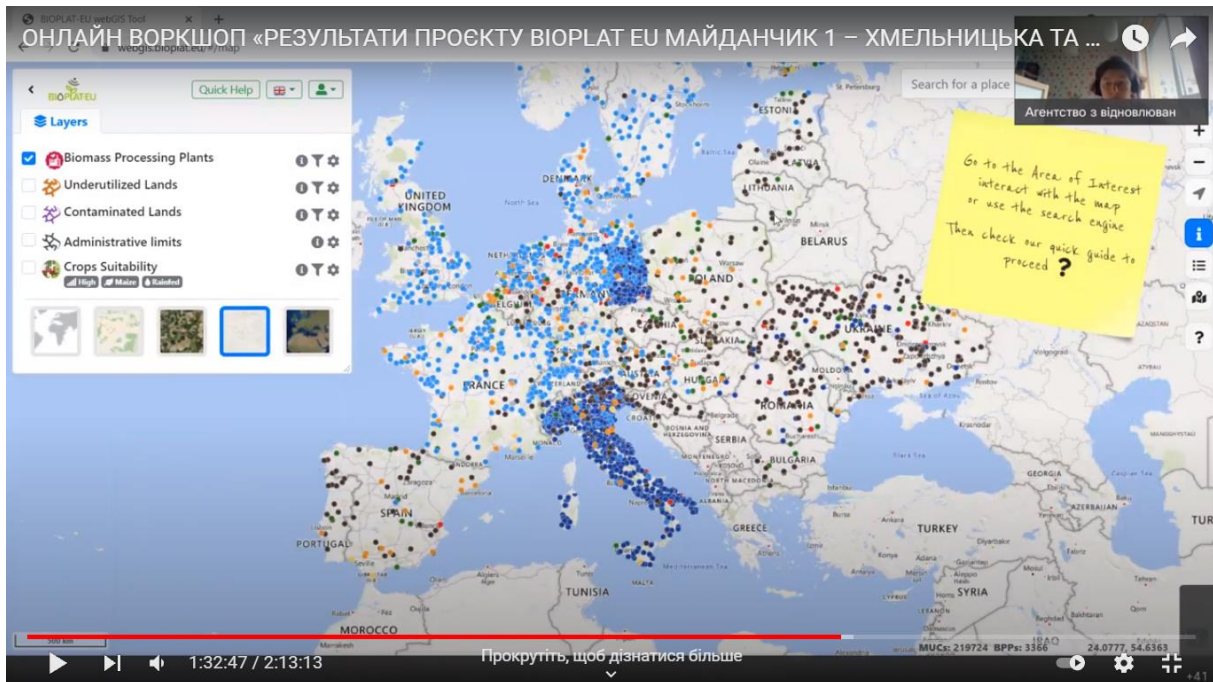
Questions and comments that were raised from the representatives of regional and local authorities were on the profitability of the projects on growing energy crops and profitability of projects of biomass use for heat production. The answer to the question was given by Georgii Geletukha Director of SECB who mentioned that return of investments in projects on growing biomass comes on the third harvest of biomass that is usually after the seventh year of the project. Within the discussion, it was also mentioned that state-owned lands were transferred to the amalgamated territorial communities in ownership and their inventory is underway. These lands include also underutilized lands that communities can lease to farmers. Today, the maximum term of land lease is 7 years, which is not enough for such types of projects where life cycle is at least 20 years. The correspondent draft law¹ on the increase of lease period for underutilised lands for growing energy crops was initiated at the beginning of 2021 by people's deputies. The Draft Law is now at consideration in the parliament of Ukraine. Scientific-Engineering Centre "Biomass" (SECB) together with Bioenergy Association of Ukraine were involved in its preparation.

Andrii Tsyganenko, Head of Division at the Department of Community Development, Construction and Housing and Utilities of Khmelnytsky State Region Administration mentioned that the presented information and the webGIS tool are highly useful to local authorities that are now facing significant problems with heating budget buildings due to current high gas prices. There were no additional questions on the webGIS tool, as it was mentioned within a discussion that more time is needed to test the tool.



¹ http://w1.c1.rada.gov.ua/pls/zweb2/webproc4_1?id=&pf3511=71384

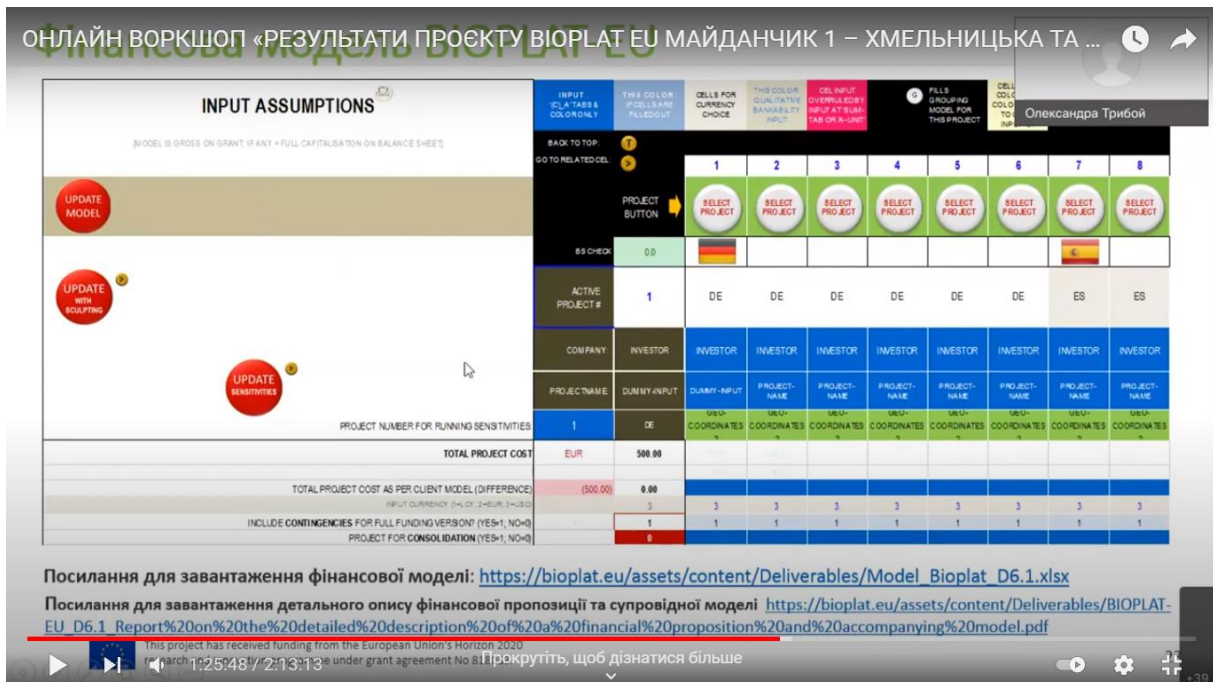
ОНЛАЙН ВОРКШОП «РЕЗУЛЬТАТИ ПРОЄКТУ BIOPLAT EU МАЙДАНЧИК 1 – ХМЕЛЬНИЦЬКА ТА ...



Go to the Area of Interest interact with the map or use the search engine Then check our quick guide to proceed?

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ОНЛАЙН ВОРКШОП «РЕЗУЛЬТАТИ ПРОЄКТУ BIOPLAT EU МАЙДАНЧИК 1 – ХМЕЛЬНИЦЬКА ТА ...



INPUT ASSUMPTIONS

MODEL IS GROSS ON GRANT IF ANY + FULL CAPITALISATION ON BALANCE SHEET

UPDATE MODEL

UPDATE WITH SCALING

UPDATE SENSITIVITIES

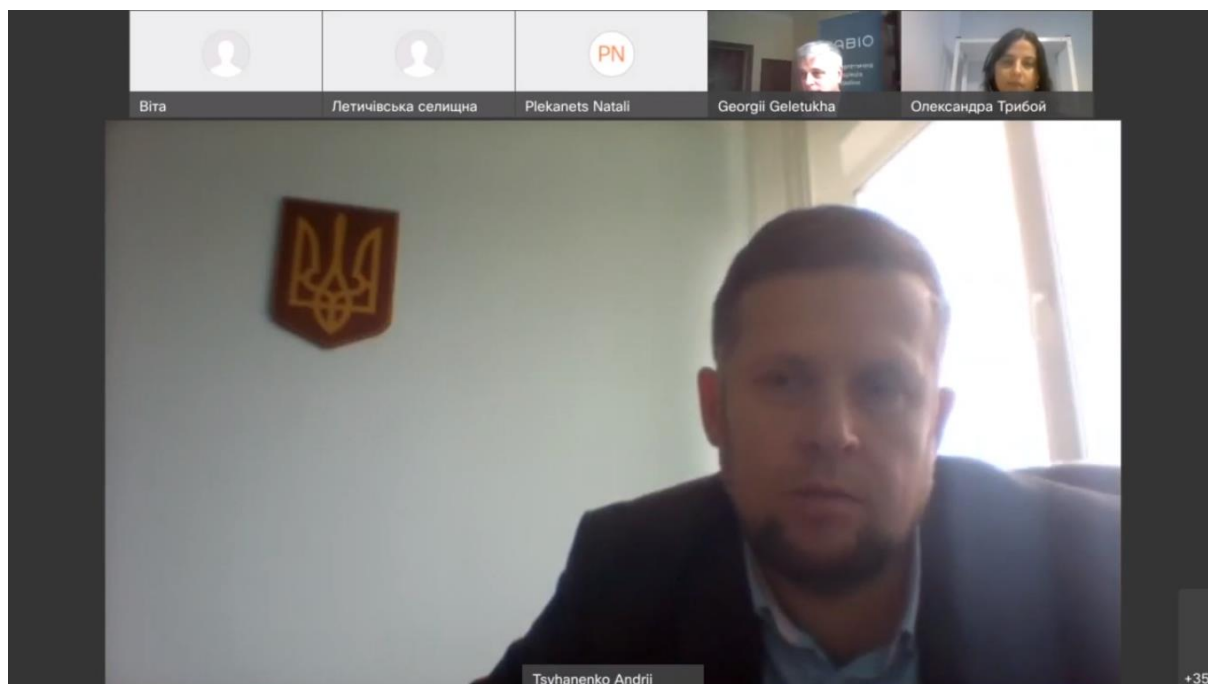
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TOTAL PROJECT COST	EUR	500.00					
TOTAL PROJECT COST AS PER CLIENT MODEL (DIFFERENCE)	(500.00)	0.00					
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PROJECT FOR CONSOLIDATION (YES=1, NO=0)	0						

Посилання для завантаження фінансової моделі: https://bioplat.eu/assets/content/Deliverables/Model_Bioplat_D6.1.xlsx

Посилання для завантаження детального опису фінансової пропозиції та супровідної моделі: https://bioplat.eu/assets/content/Deliverables/BIOPLAT-EU_D6.1_Report%20on%20the%20detailed%20description%20of%20a%20financial%20proposition%20and%20accompanying%20model.pdf

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11 Presentation in Kyiv and Chernihiv, Ukraine

11.1 Introduction

Presentations to policy makers were held within the meetings of working groups on December 11, 2020 (P.1) and September 24, 2021 (P.2) that were held virtually due to restrictions related to COVID-19 pandemic. Presentations informed about BIOPALT-EU project regional and local authorities and national authorities that visited some of the meetings (see the table below for the list of participants).

List of representatives of policy makers from regional and local authorities of Chernihiv and Kyiv regions and representatives of national authorities.

Stakeholder category	Organisation	Title	Name	Region	P.1	P.2
National authority	SAEE	Deputy Head	Yuri Shafarenko	Ukraine	+	-
National authority	SAEE	Deputy director of RES department	Olena Lenska	Ukraine	+	-
National authority	SAEE	Head of Division	Yulia Kryvsha	Ukraine	+	-
National authority	State Service of Ukraine	Tax of Head of the Department of Administration of Resource Payments,	Oleksandr Shumskyi	Ukraine	+	-

		Rent and Local Taxes and Fees from Legal Entities of the Department of Tax Administration				
Regional authority	Kyiv Region State Administration	Chief specialist of the Strategic Planning Department	Olga Sokolova	Kyiv	+	+
Regional authority	Chernihiv Region State Administration	Deputy Head of Department of Economic Development	Yulia Fedosenko	Chernihiv	+	+
Regional authority	Chernihiv Region State Administration	Deputy Head of Department of Economic Development and Agriculture	Oleg Krapyvnyi	Chernihiv	+	-
Regional authority	Chernihiv Region State Administration	Head of Agriculture Division of Department of Economic Development and Agriculture	Oleksandr Shcherbatyi	Chernihiv	+	+
Regional authority	Chernihiv Region State Administration	Department of Energy Efficiency, Transport, Communications and Housing and Communal Services	Sergii Gaiovyi	Chernihiv	-	+
Local authority	Novgorod-Siversky city council	Chief Specialist of the Economics Department	Vita Salun	Chernihiv	+	-
Local authority	Mena City Council	Chief specialist of the Department of Economic Development and Investments	Nataliia Loichenko	Chernihiv	+	-
Local authority	Varvyn District State Administration	Deputy Head of the Department of State Registration, Housing and Communal Services, Urban Planning, Architecture, Infrastructure, Energy and Environmental Protection	Olena Tyshchenko	Chernihiv	+	-

Local authority	Borznianska City Council	Specialist in energy management and investment attraction	Oleksandr Shybika	Chernihiv	+	-
Local authority	Borznianska District State Administration	Chief specialist	Tamara Gordiienko	Chernihiv	+	-
Local authority	Sosnytsia village council	Head of the Department of Housing and Communal Services, Landscaping, Environmental Protection and Infrastructure	Oleksandr Klymenko	Chernihiv	+	-
Local authority	Nizhyn District State Administration	Head of Department	Maria Nosenko	Chernihiv	+	-
Local authority	Kozelets District State Administration	Chief Specialist	Zhanna Ptukha	Chernihiv	+	-
Local authority	Novgorod-Siversky District State Administration	Chief Specialist of the Department of Economic Policy, Infrastructure Development and State Registration	Liudmyla Butenok	Chernihiv	+	-
Local authority	Ivanivska Amalgamated Territorial Community	First Deputy Village Head	Mykola Rudenok	Chernihiv	+	-
Local authority	Gorodnya District State Administration	Head of Department	Andriy Duda	Chernihiv	+	-
Local authority	Mryn village council	Head of the department of urban planning and landscaping	Anna Boloban	Chernihiv	+	-
Local authority	Executive Committee of the Nizhyn City Council	Head of the energy management and energy efficiency sector	Denis Vorona	Chernihiv	+	-
Local authority	Sribnyansk District State Administration	Head of the Department of Agro-Industrial and Economic Development and Trade	Yuri Mukvych	Chernihiv	+	-

Local authority	Pryluky City Council	Deputy Mayor	Alexander Sivenko	Chernihiv	+	-
Local authority	Ivanivka village council of Chernihiv district	Head of the Department of Land Relations, Architecture, Communal Property and Services	Vitaly Dovbach	Chernihiv	+	-
Local authority	Sosnytsia District State Administration	Chief Specialist	Natalia Chetyrina	Chernihiv	+	-
Local authority	Novobasanska Amalgamated Territorial Community	Specialist in landscaping, construction and housing	Valentina Litoshko	Chernihiv	+	-
Local authority	Korop District State Administration	Chief Specialist of the Economics Department	Alla Borisenko	Chernihiv	+	-
Local authority	Kulykiv village council	Chief Specialist of the Economic Development and Investment Department	Vitaly Korzh	Chernihiv	+	+
Local authority	Talalaiv District State Administration	Chief Specialist	Alla Adamyak	Chernihiv	+	-
Local authority	Ivankiv village council	Head of the Economic Development Department	Larisa Pavlenko	Kyiv	-	+
Local authority	Energy Efficiency Department of the Executive Committee of Bila Tserkva City Council	Chief Specialist	Mikhail Khakhula	Kyiv	-	+
Local authority	Executive Committee of the Tetiiv City Council	Chief Energy Manager of the Economic Development and Investment Department	Anton Skiba	Kyiv	-	+
Local authority	Executive Committee of Obukhiv City Council	Head of the Department of Trade, Consumer Services and Consumer Protection	Irina Danshina	Kyiv	-	+

Local authority	Desnianska village council	Head of the Department of Land Relations, Architecture, Urban Planning	Inna Afinogenova	Chernihiv	-	+
Local authority	Kiselivka village council of Chernihiv district	Chief Specialist of the Department of Land Relations, Architecture, Housing and Communal Services	Iryna Maksymenko	Chernihiv	-	+
Local authority	Novobasanska village council	Head of the Department of Land and Environmental Affairs	Svetlana Kirichenko	Chernihiv	-	+
Local authority	Kiptivka village council	Head of the Department of Land Relations and Housing and Communal Services	Inna Teteruk	Chernihiv	-	+
Local authority	Sukhopolovyan ska village council	Head of the Department of Economics and Investment	Valentina Kornienko	Chernihiv	-	+
Local authority	Nizhyn District State Administration	Head of Department	Maria Nosenko	Chernihiv	-	+
Local authority	Pryluky City Council	Head of Investment and International Affairs	Elena Kanavets	Chernihiv	-	+

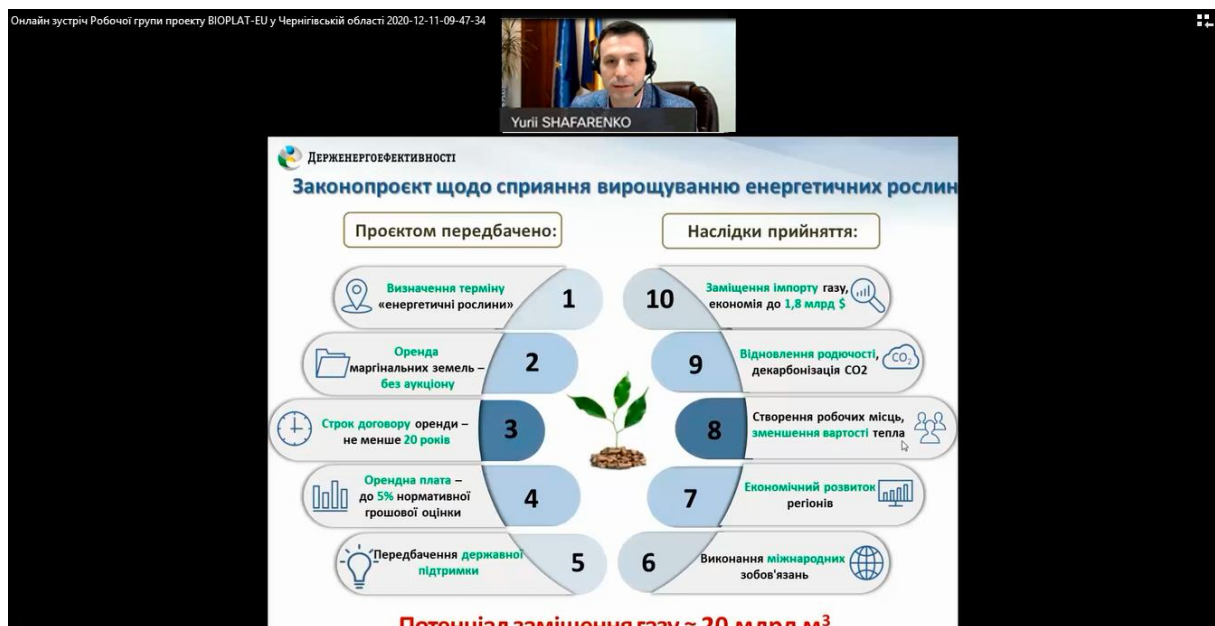
11.2 Summary of the presentation and discussions

Presentation 1 to the policy makers of Kyiv and Chernihiv region, December 11, 2020

Within the Presentation 1 to policy makers of Kyiv and Chernihiv regions on December 11, 2020 a general overview of BIOPLAT-EU project was presented, mentioning the goal and activities of the project and the concept of webGIS tool to assess sustainability aspects of potential bioenergy projects that use biomass from marginal and underutilized lands. At the meeting, simulation results on the availability of these lands suitable for energy crops in Kyiv and Chernihiv were presented.

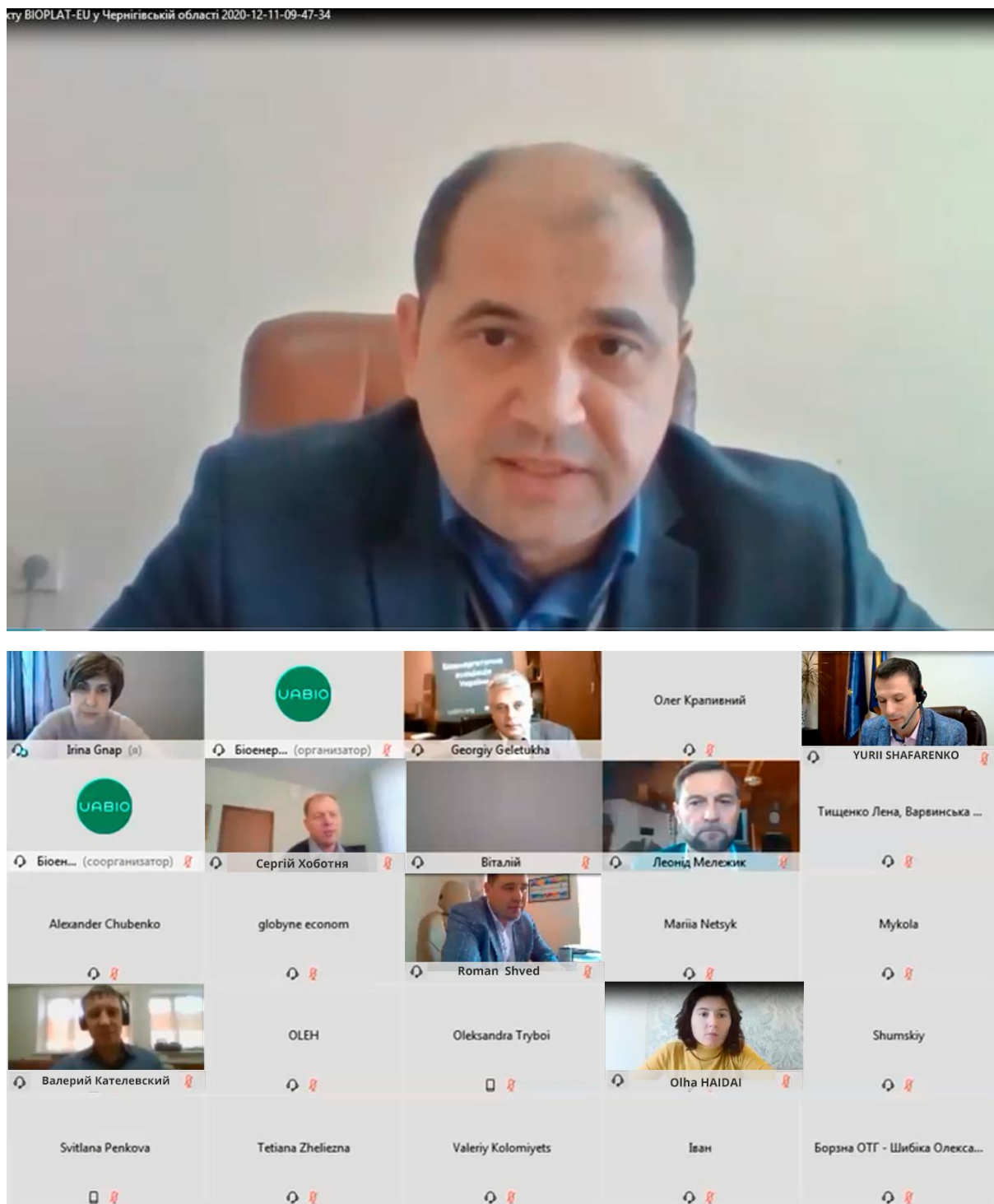


Deputy Head of the State Agency of Energy Efficiency and Energy Saving that was also participating in the meeting talked about the preparation of a Draft Law to promote growing of energy crops on marginal lands. The Draft Law stipulates the definition of term “energy crops” in Ukrainian legislation, leasing of marginal lands without auction, increasing of the leasing period up to 20 years, rent charge not higher than 5% of the normative monetary value and provision of state support for growing energy crops.



Within a discussion, a representative of the Chernihiv Region State Administration Oleg Krapyvnyi, Deputy Director of the Agricultural Department mentioned that lands of Chernihiv region differ, being more fruitful in the south and more degraded in the north. But, despite degraded category of lands in the north they see interest of agricultural companies in them. Mr Krapyvnyi mentioned that it is important to understand the profitability of growing energy

crops on such lands and that subsidies from the state are needed to convince farmers to choose growing energy crops instead of food or feed crops.



Presentation 2 to the policy makers of Kyiv and Chernihiv region, September 24, 2021

Presentation 2 to policy makers of Chernihiv and Kyiv regions took place on September 24, 2021. The general goal of the BIOPLAT-EU project was reminded to the participants and results subject to the Ukrainian Case Study 2 – Chernihiv and Kyiv regions were presented, including

the potential of underutilized lands in the area and results of the feasibility study of the potential bioenergy project (2-G Ethanol on biomass of willow).

ОНЛАЙН ВОРКШОП "РЕЗУЛЬТАТИ ПРОЄКТУ BIOPLAT-EU. МАЙДАНЧИК 2 – КИЇВСЬКА ТА ЧЕРНІ..."

Чому BIOPLAT-EU?

Політика ЄС заохочує виробництво енергії з біомаси з використанням сучасних технологій

Проте, занепокоєння щодо сталості і невизначеність щодо наявності землі та біомаси і конкуренції з іншими видами використання земель, все ще існують

Сприяння виходу на ринок сталої біоенергетики в Європі з використанням маргінальних, недостатньо використаних та забруднених земель може стати безпрограшним рішенням ...

[Представлення проекту BIOPLAT-EU](#) [Фінальні результати проекту BIOPLAT-EU](#)

8:35 / 2:20:37 This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement No 818083

A special attention was devoted to the BIOPLAT-EU webGIS tool to assess sustainability aspects of different types of bioenergy projects. Oleksandra Tryboi, senior consultant of SECB in her presentation, described the webGIS tool in detail.

ОНЛАЙН ВОРКШОП "РЕЗУЛЬТАТИ ПРОЄКТУ BIOPLAT-EU. МАЙДАНЧИК 2 – КИЇВСЬКА ТА ЧЕРНІ..."

Інструмент оцінки сталості (STEN tool)

Концепція оцінки сталості (FAO)

- Підхід до сталості структуровано як аналіз різниці у впливах, викликаних двома (або більше) прогнозними сценаріями: **базовим** та **цільовим** (в межах цільового регіону).
- Для кожного показника сталості є проєкція у майбутнє умов, які очікуються без реалізації біоенергетичного проекту (**базовий сценарій**) та із реалізацією біоенергетичного проекту (**цільовий сценарій**).

	Показники сталості
Екологічні	<ul style="list-style-type: none"> AIR QUALITY (Викиди в атмосферу) WATER USE (Водозабезпечення) LAND USE AND COVER CHANGE (Зміна землекористування та земельного покриття)
Соціальні	<ul style="list-style-type: none"> CHANGE IN INCOME (Дохід) EMPLOYMENT IN BIOENERGY SECTOR (Робочі місця) ENERGY ACCESS (Доступ до сучасних енергетичних послуг)
Техніко-економічні	<ul style="list-style-type: none"> NET ENERGY BALANCE (Баланс енергії нетто) GROSS VALUE ADDED (Валова додана вартість) INFRASTRUCTURE (Інфраструктура) CAPACITY (Потенціал використання)

1:09:24 / 2:20:37 This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement No 818083

In addition, Olha Haidai, senior consultant of SECB, presented online testing on how to work with the webGIS tool.

