

## INVOLVEMENT OF BEST PRACTICE KEY ACTORS IN THE BIOVILL PROJECT

---



*BioVill Site Visit and Seminar in Romania, 29.01.2019, GEA*

**Project Title:**

Bioenergy Villages (BioVill) - Increasing the Market Uptake of Sustainable Bioenergy

**Grant Agreement N° 691661**

Deliverable N° 2.2 Report on the involvement of best practice key actors (2<sup>nd</sup> edition from 05.02.2019)

**Lead Partner:** WIP Renewable Energies

**Submission date:** 28 February 2018

## Imprint

This document is issued by the consortium formed for the implementation of the BioVill project under Grant Agreement N° 691661 by the following partners:

GIZ - Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (Germany)  
WIP – Wirtschaft und Infrastruktur GmbH & Co Planungs- KG (Germany)  
KEA - Klimaschutz- und Energieagentur Baden-Württemberg (Germany)  
AEA – Österreichische Energieagentur Austrian Energy Agency (Austria)  
REGEA – Regionalna Energetska Agencija Sjeverozapadne Hrvatske (Croatia)  
SDEWES-Skopje – International Centre for Sustainable Development of Energy, Water and Environment Systems - Macedonian Section (Macedonia)  
GEA – Asociatia Green Energy (Romania)  
GIS – Gozdarski Institut Slovenije (Slovenia)  
SKGO – Stalna Konferencija Gradova i Opstina (Serbia)

### Lead Partner for the compilation of this document:

WIP Renewable Energies



### Contact:

WIP Renewable Energies  
Sylvensteinstr. 2  
D-81369 Muenchen  
Germany  
Tel: +49-89-720127 39  
Fax: +49-89-720127 91  
dominik.rutz@wip-munich.de  
juan-manuel.ugalde@wip-munich.de  
URL: www.wip-munich.de

### Authors of this report:

Dominik Rutz - WIP Renewable Energies  
Jens Adler - GIZ  
Vasil Bozhikaliev – SDEWES-Skopje  
Velimir Šegon, Valerija Vrčak Habazin, Martina Krizmanić – REGEA  
Ljubinka Kaluđerović, Jana Pavlović, Miodrag Gluščević – SKGO  
Polona Hafner, Nike Krajnc – GIS  
Boglarka Vajda, Lajos Vajda, Sebestén Tihamér - GEA

### Copyrights:

©(2019) by authors. No part of this work may be reproduced by print, photocopy or any other means without the permission in written from the main authors.

### Disclaimer:

Neither GIZ nor any other consortium member nor the authors will accept any liability at any time for any kind of damage or loss that might occur to anybody from referring to this document. In addition, neither the European Commission nor the Agencies (or any person acting on their behalf) can be held responsible for the use made of the information provided in this document.

Further information about the BioVill project on: [www.biovill.eu](http://www.biovill.eu)



## Contents

<b>1.</b>	<b>Introduction.....</b>	<b>4</b>
1.1	The BioVill project.....	4
1.2	Scope of the task/deliverable .....	4
<b>2.</b>	<b>Involvement of best practice key actors in Croatia .....</b>	<b>5</b>
<b>3.</b>	<b>Involvement of best practice key actors in Macedonia.....</b>	<b>8</b>
<b>4.</b>	<b>Involvement of best practice key actors in Romania .....</b>	<b>10</b>
<b>6.</b>	<b>Involvement of best practice key actors in Serbia .....</b>	<b>12</b>
<b>7.</b>	<b>Involvement of best practice key actors in Slovenia .....</b>	<b>14</b>
<b>8.</b>	<b>Attachments .....</b>	<b>16</b>

## 1. Introduction

### 1.1 The BioVill project

BioVill is a three years project supported by the European Union's Horizon 2020 research and innovation programme with a budget of around 1.99 Mio EUR. The project started in March 2016 and is implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in collaboration with 8 partners from the BioVill target partner countries Croatia, Macedonia, Romania, Serbia and Slovenia, as well as from Germany and Austria.

Many South East European countries have high biomass potentials, but they are often not or only inefficiently used for local energy supply and regional economic development. Thus, the overall objective of the BioVill project is to support the development of regional bioenergy concepts and the establishment of bioenergy villages in Croatia, Macedonia, Romania, Serbia and Slovenia. This will be achieved by identifying suitable biomass value chains according to local and regional needs and transferring existing experiences in Austria, Germany and other European countries to the South-Eastern European partners. Thereby the market uptake of domestic bioenergy supply chains will be increased and the role of locally produced biomass as a main source of energy supply and added value for the local and regional economy will be strengthened.

Core activities of the BioVill project include national and local framework analyses, technological and economic assessments of local bioenergy value chains, development of the institutional set-up and energy management concepts for the potential Bioenergy villages as well as capacity building on financing schemes and business models. As a key factor of success, the BioVill project uses a multi stakeholder approach fostering the involvement and active participation of the citizens and all relevant stakeholders in the planning and implementation process.

Major results of the BioVill project will be the initiation of at least five bioenergy villages in the target partner countries up to the investment stage for physical infrastructure, the raise of public acceptance and awareness of a sustainable bioenergy production and its commercial opportunities as well as increased capacities of users and key actors in business and legislation to sustainably manage bioenergy villages and to enact national and EU legislation. Altogether the BioVill project will contribute to the expansion and sustainability of the bioenergy markets in the European Union.

### 1.2 Scope of the task/deliverable

In the framework of the BioVill project, Best Practice Examples (BPE) of bioenergy villages in Austria, Croatia, and Germany were identified and described in the report D2.1, which is available at the BioVill website. In order to use the experience and knowledge of the key actors of these villages, who already initiated and established bioenergy concepts and bioenergy villages, they were invited to several events in the BioVill target countries, such as training courses, citizens information days, working group meetings and national bioenergy conferences. The main idea was to bring the stakeholders from the target villages in the BioVill partner countries in direct contact with key actors from the identified Best Practice Examples as well as with other bioenergy experts. Therefore, the BioVill project had foreseen a budget to support the experts to travel to the target countries.

The present report summarizes the cooperation activities with the key actors and includes information on the scope of the key actor travel mission, destinations visited, key stakeholders met in the partner countries, main information shared as well as and conclusions and recommendations, if relevant. In total, 14 key actors and bioenergy experts participated at various events in order to support target village events (mainly training courses) with their knowledge and experience. Challenges for this cooperation included language barriers which were overcome by translation efforts as well as availability of the key actors and experts. Overall, the implemented support activities were assessed by the partners as very successful and were acknowledged by the participants of the events. As an outstanding outcome of the BioVill study tour to Austria, a municipality partnership between the Romanian BioVill target villages Ghelinta and Estelnik and Mureck in Austria, was initiated. Within the key actor cooperation, Mr Totter from Mureck/Austria travelled to Romania to deepen this partnership.

## 2. Involvement of best practice key actors in Croatia

Three experts from Germany and Austria travelled to Croatia in order to support the BioVill activities. Mr Karl Totter and Mr. Jan W. Bleyl were invited to the BioVill training course on financing, contracts and business models of bioenergy projects for local stakeholders in Croatia. Mr. Ralf Roggenbauer from Austria was invited to the National Biovill conference. BioVill Consortium meet at second study visit to Energiepark Bruck an der Leitha in Austria.

BPE - Key actor name	Mr. Karl Totter
BPE - Key actor country	Austria
BPE - Key actor organisation	The Bioenergy Mureck GmbH represents the local holding of a high variety of bioenergy production facilities and is mainly owned by local farmers and foresters. Mr. Karl Totter is the manager of bioenergy facilities in Mureck Austria, and one of the initiators of the Bioenergy Mureck.
Date(s) of event(s)	07 - 08.06.2017
Title of the event	BioVill training course on financing, contracts and business models of bioenergy projects for local stakeholders in Croatia
Title of the presentation	Overview of best global bioenergy practices from Austria - Mr. Totter held 3 presentations as follows: <ol style="list-style-type: none"> <li>1. Anlagekosten und Finanzierung; Kreislaufwirtschaft in der Praxis;</li> <li>2. Energie, Versorgung, Sicherheit - Standort Bioenergie Mureck;</li> <li>3. Wirtschaftlichkeitsrechnung – Murecker – Energiepark, Klimaschutz, Sicherheit, Arbeitsplätze in der Region, Lebensqualität, Sicherung des sozialen Friedens</li> </ol>
Key stakeholders met in target village	Two-day training was attended by 80 participants, including all 22 speakers, from different sectors: decision makers and governmental representatives from villages Perušić and Lekenik, regional energy agencies, local regional public utility, representatives from the private sector – forest owners, producers of pellets and equipment for heating plants and potential investors in biomass exploitation.
Scope of the mission	Overview of best global bioenergy practices from Austria - exchange of knowledge
Main results of the mission, conclusions and recommendations, if applicable	The general discussions were very fruitful, with participants sharing their experiences and ideas for the future development of regional biomass supply chains. Participants also discussed current limits and difficulties at a policy level and agreed on specific recommendations for policy makers, to enable the future development of bioenergy villages or local supply chains. Participants highlighted the importance of bringing together the different actors and mapped opportunities that are still to be developed in the field of sustainable biomass. Lead by examples, participants together with speakers confirmed that local small-scale chains and small district heating network on biomass can bring economic benefits to the society, whilst granting nature protecting, if the different actors/stakeholders are willing to cooperate and work together.

BPE - Key actor name	Mr. Jan W. Bleyl
BPE - Key actor country	Germany
BPE - Key actor organisation	KEA/
Date(s) of event(s)	07 - 08.06.2017
Title of the event	BioVill training course on financing, contracts and business models of bioenergy projects for local stakeholders in Croatia
Title of the presentation	<ol style="list-style-type: none"> <li>1. Training on financing, contracts and business models - Business models and contractual agreements</li> <li>2. Training on bioenergy projects for the financial sector- Financing models, risks and opportunities for bioenergy villages</li> </ol>
Key stakeholders met in target village	The two-day training was attended by 80 participants, including all 22 speakers, from different sectors: decision makers and governmental representatives from villages Perušić and Lekenik, regional energy agencies, local regional public utility, representatives from the private sector – forest owners, producers of pellets and equipment for heating plants and potential investors in biomass exploitation.
Scope of the mission	Presentation of relevant business models and tested financing models, experience on de-risking instruments
Main results of the mission, conclusions and recommendations, if applicable	<p>It can be concluded that the training has covered the main topics regarding risks and opportunities of financing bioenergy projects. Participants were very interested in tools how to calculate life cycle cost and concrete examples on how to implement various business models in order to establish a favourable financial framework for the implementation of a bioenergy village.</p> <p>The training course was very well received among the participants who have provided positive feedback collected in questionnaires, as well as provided during the discussions and to the speakers after the training course. The participant's feedback can be summarized as follows:</p> <ul style="list-style-type: none"> <li>• participants expressing interest in more information about the implementation of bioenergy villages</li> <li>• participants understanding better how the business models works;</li> <li>• participants have already concrete ideas of how to apply what they have learnt what confirms they have learned something new in the training course.</li> </ul>

BPE - Key actor name	Mr. Ralf Roggenbauer
BPE - Key actor country	Austria
BPE - Key actor organisation	Energiepark Bruck an der Leitha GmbH
Date(s) of event(s)	24 <sup>th</sup> October 2018
Title of the event	National BioVill&CoolHeating conference
Title of the presentation	Energiepark Bruck an der Leitha – a success story
Key stakeholders met in target village	Representatives of the Municipality of Lekenik and Perušić, public institutions, representatives from Ministry of Agriculture, regional energy agencies, local regional public utility, representatives from the private sector – forest owners, producers of pellets and equipment for heating plants and potential investors in biomass exploitation and citizens.
Scope of the mission	Transferring best practice examples from Austria to Croatia and target villages – Lekenik and Perušić with focus on the financing and business models and diversification of renewable energy sources
Main results of the mission, conclusions and	Mr. Roggenbauer presented Energiepark as regional pioneer in using the renewable energy. Projects related to the renewable topics of biogas, biomass

<p>recommendations, if applicable</p>	<p>district heating, photovoltaics and wind energy have already been implemented successfully. He gave to the audience firsthand information from his own perspective about the importance of increasing the production and use of bioenergy and renewable energy sources through the implementation of complex bioenergy projects such as implementation of bioenergy villages from Austria. He summarized the importance of understanding the national level issues and drivers, which are related to laws and obligations, and to local level motifs and issues, which are easily recognizable by citizens. Here lies the power of municipalities and local actions, he pointed. In conclusion, Mr. Roggenbauer represented different approach of the BioVill project and provided a wide range of lessons learnt from different points of view on the use of bioenergy and dispelled some myths regarding this topic.</p>
---------------------------------------	---

### 3. Involvement of best practice key actors in Macedonia

Three experts from Germany, Austria and Macedonia travelled to Skopje and Kichevo in Macedonia in order to support the BioVill activities. The third key actor represented the German and global company REHAU and came from the office in Skopje to the bioenergy target village Kichevo.

BPE - Key actor name	Mr Ralf Roggenbauer
BPE - Key actor country	Austria
BPE - Key actor organisation	Energiepark Bruck an der Leitha GmbH
Date(s) of event(s)	30.5.-1.6.2017
Title of the event	Training on bioenergy projects for the financial sector (31.5.2017, Skopje); Training on financing, contracts and business models (1.6.2017, Kichevo)
Title of the presentation	“Energy is our future”
Key stakeholders met in target village	Representatives of the Municipality of Kichevo, public institutions (schools, kindergarten), Regional Forest Service “Lopushnik”, forest concessionaire “Grande Tini”, Regional Office of the Economic Chamber of the Republic of Macedonia in Kichevo (BioVill’s local information point), NGOs, SMEs, local media and citizens
Scope of the mission	Transferring best practice examples from Austria to Macedonia and Kichevo with focus on the financing and business models and diversification of renewable energy sources
Main results of the mission, conclusions and recommendations, if applicable	Stakeholders and citizens were able to perceive the benefits of projects related to renewable energy sources in small communities in Austria being implemented by Energiepark Bruck an der Leitha GmbH and were convinced that the implementation of the BioVill project in Kichevo would be also beneficial to themselves and their local community.

BPE - Key actor name	Ms Renate Glaser
BPE - Key actor country	Germany
BPE - Key actor organisation	Aktionskreis Energiewende Glonn 2020 e.V.
Date(s) of event(s)	16.1.-18.1.2018
Title of the event	Third information day for citizens in Kichevo: The BioVill Project in Kichevo and importance of stakeholder engagement (17.1.2018, Kichevo)
Title of the presentation	“Our way to energy transition”
Key stakeholders met in target village	Mr. Fatmir Dehari - Mayor of the Municipality of Kichevo and other representatives of the Municipality of Kichevo; representatives of public institutions (schools and kindergarten), the Regional Office of the Economic Chamber of the Republic of Macedonia in Kichevo (BioVill’s local information point), Regional Forest Service “Lopushnik”, forest concessionaire “Grande Tini”, NGOs, SMEs, local media and citizens
Scope of the mission	Transferring best practice examples from Germany to Kichevo with focus on the stakeholders’ and citizens’ engagement
Main results of the mission, conclusions and recommendations, if applicable	Stakeholders and citizens were able to learn more about realized and future bioenergy and other renewable energy sources projects being implemented in small communities in Germany by the Action Group “Glonn” and their way to energy transition. The main recommendation to the participants was to take the case of Glonn as a lighthouse example, and to find their own way to energy transition in Kichevo.

BPE - Key actor name	Mr Jovan Pljakov
BPE - Key actor country	Macedonia
BPE - Key actor organisation	REHAU AG
Date(s) of event(s)	19.12.2018
Title of the event	National conference on bioenergy villages: Utilization of biomass as a renewable energy source in bioenergy villages and small communities (19.12.2018, Kichevo)
Title of the presentation	“Energy efficient district heating and cooling networks”
Key stakeholders met in target village	Representatives of the EBRD and the World Bank, Mr Fatmir Dehari - Mayor of the Municipality of Kichevo and other representatives of the Municipality of Kichevo; representatives of public institutions (schools and kindergartens), the Regional Office of the Economic Chamber of the Republic of Macedonia in Kichevo (BioVill’s local information point), local foresters, NGOs, SMEs, local and national media and citizens
Scope of the mission	Transferring knowledge on energy efficient district heating and cooling systems and networks for sustainable production and distribution of energy to final costumers
Main results of the mission, conclusions and recommendations, if applicable	Following up the presentation of REHAU AG + Co about planning and installation of small district heating networks at the BioVill's third study tour in Bavaria (Deliverable 2.5) and their expressed interest in further developments of the project in Kichevo, SDEWES-Skopje invited an expert from REHAU on the occasion of the BioVill’s national conference in Kichevo, to present best practice examples of their work throughout the world. Mr Pljakov, a representative of the REHAU office in Skopje, gave a presentation on biomass and biogas plants and local district heating networks, explaining the types of systems, technologies and equipment REHAU is engaged with. Besides the general knowledge about planning of networks, the audience got the chance to learn more about the overall project development process that goes through an idea, concept, planning, implementation and finally, commissioning. Benefits of flexible polymer piping systems versus high-capacity steel piping systems and the combination thereof, were also introduced to the local community. Mr Pljakov underlined the intelligent network systems and sustainable energy solutions offered by his company. REHAU collaborates with local companies by employing local workers and therefore, stays available for the future realization of the biomass district heating project in Kichevo.

#### 4. Involvement of best practice key actors in Romania

Four experts from Germany and Austria came to Estelnic and Ghelinta in Romania in order to support the BioVill activities. Two of the experts presented local achievements from Mureck from Austria and St. Peter from Germany, while one expert presented business models for establishment of bioenergy villages, and one bioenergy expert presented the role of the biomass trade centres.

BPE - Key actor name	Mr Karl Totter
BPE - Key actor country	Austria
BPE - Key actor organisation	SEBA Mureck Energiepark GmbH
Date(s) of event(s)	01.06.2017-02.06.2017
Title of the event	Training on bioenergy projects for the BioVill target villages (2.6.2017, Ghelinta);
Title of the presentation	“Kreislaufwirtschaft in Praxis in Murecker Energiepark”
Key stakeholders met in target village	Representatives of the Municipality of Ghelinta and Estelnic, public institutions (schools, kindergarten), Regional Development Agency- ADR CENTRU, Nagycsoport Local Forest Owner Association, Angustia Leader Action Group, other local NGOs, SMEs, local media and citizens
Scope of the mission	Transferring best practice examples from Austria to Romanian BioVill target villages and to other local stakeholders focus on the first steps of establishment of bioenergy facilities in different Austrian settlements
Main results of the mission, conclusions and recommendations, if applicable	Stakeholders and citizens were able to understand the benefits of projects related to renewable energy sources in small communities in Austria being implemented by SEBA Mureck Energiepark GmbH and were convinced that the implementation of the BioVill concept in Romanian framework would be also beneficial to themselves and their local community.

BPE - Key actor name	Ms Konstanze Stein
BPE - Key actor country	Germany
BPE - Key actor organisation	KEA - Klimaschutz- und Energieagentur Baden-Württemberg, Karlsruhe
Date(s) of event(s)	01.06.2017-02.06.2017
Title of the event	Training on bioenergy projects for the financial sector (01.06.2017, Sfantu Gheorghe); Training on financing, contracts and business models (2.6.2017, Ghelinta)
Title of the presentation	“Business models, financing and contracts for bioenergy villages in Romania”
Key stakeholders met in target village	Mr Jozsef Cseh - Mayor of the Municipality of Ghelinta, Mr. Ferenc Domokos – Mayor of the Municipality of Estelnic and other representatives , public institutions (schools, kindergarten), Regional Development Agency- ADR CENTRU, representatives from Romanian Banks (OTP Bank, Lam Foundation) Nagycsoport Local Forest Owner Association, Angustia Leader Action Group, other local NGOs, SMEs, local media and citizens
Scope of the mission	Transferring best practice examples from Germany to Romania with focus on the financing, contracts and business models for bioenergy villages.
Main results of the mission, conclusions and recommendations, if applicable	Financial stakeholders and representatives of the municipalities were able to learn more about business models, risks and management of the bioenergy investments. The seminar and the core message were provided by presentation of projects being implemented in small communities in Germany and their way to energy transition. The main recommendation to the participants was to take the case of Mureck or St. Peter as a lighthouse example, and to find their own way to energy transition in Romania.

BPE - Key actor name	Mr Markus Bohnert
BPE - Key actor country	Germany
BPE - Key actor organisation	Kooperative Bürgerenergie St. Peter
Date(s) of event(s)	29.1.2019
Title of the event	BioVill Site Visit and Seminar in Romania (29.1.2019, Romania)
Title of the presentation	<i>"Energieversorgung in Bürgerhand, Bioenergiedorf St. Peter im Schwarzwald"</i>
Key stakeholders met in target village	Representatives of the BioVill target villages, and the BioVill follower villages. Mayor of the Municipality of Ghelinta, Mayor of the Municipality of Estelnic, Mayor of the Municipality of Bancu, Mayor of the Municipality of Ojdula, Representatives of the Angustia Leader Action Group, Representatives of the Natural Protection Agency of Covasna County, Local forester owner associations, NGOs, SMEs, local and national media and citizens
Scope of the mission	Transferring knowledge and best practices on establishment of bioenergy-based DHS, efficient district heating and networks for sustainable production and distribution of energy to final costumers
Main results of the mission, conclusions and recommendations, if applicable	As a follow-up of the presentation of Bioenergiedorf St. Peter about planning and installation of small district heating networks during the BioVill's first study tour in Baden Württemberg (Deliverable 2.5), Mr Markus Bohnert gave a presentation on different biomass plants and local district heating networks, explaining the types of systems, technologies and equipment the cooperative Bürgerenergie St. Peter is engaged with. Procedures on how to implement small DH grid were discussed. The main bottleneck on the target villages in Romania is currently the unfavourable framework conditions of the national support scheme, which only supports projects in which fossil heating systems are replaced, but not inefficient old biomass heating systems.

BPE - Key actor name	Mr Dominik Rutz
BPE - Key actor country	Germany
BPE - Key actor organisation	WIP Renewable Energies
Date(s) of event(s)	29.1.2019
Title of the event	BioVill Site Visit and Seminar in Romania (29.2.2019, Romania)
Title of the presentation	<i>"Individual biomass heating – need for cooperation"</i>
Key stakeholders met in target village	Representatives of the Biovill target villages, and the BioVill follower villages. Mayor of the Municipality of Ghelinta, Mayor of the Municipality of Estelnic, Mayor of the Municipality of Bancu, Mayor of the Municipality of Ojdula, Representatives of the Angustia Leader Action Group, Representatives of the Natural Protection Agency of Covasna County, Local forester owner associations, NGOs, SMEs, local and national media and citizens
Scope of the mission	Transferring knowledge and best practices on establishment of biomass trade centers, efficient individual heating systems and networks for sustainable production and distribution of energy to final costumers
Main results of the mission, conclusions and recommendations, if applicable	Following up the organization of the BioVill third study tour on best practices about planning and installation of small district heating networks in Bavaria (Deliverable 2.5), Mr Dominik Rutz, BioVill project partner from Germany, gave a presentation on different biomass trade centres, individual heating systems, energy efficiency, explaining the types of systems, technologies and equipment. In general, it was concluded that there are several similar aspects in Romania and Germany related to the set-up of bioenergy trade centres. This could be an opportunity for the target villages in Romania.

## 6. Involvement of best practice key actors in Serbia

A key expert from the company Solarcomplex AG Singen was invited with the support of KEA to participate at and support 3 BioVill project events in Serbia. Solarcomplex was one of the hosts during the first BioVill study tour to Baden-Württemberg in autumn 2016. Ms Gaukler as a key expert and representative of Solarcomplex participated at two major training events and the National BioVill Conference. Training events included one for the Working Group in the target bioenergy village and another for financial and other relevant institutions (ministries, international partners, and civic society organizations) in Belgrade. Ms. Gaukler also participated as a speaker at the National BioVill Conference that took place in October 2018 in Belgrade.

BPE - Key actor name	Ms. Jutta Gaukler
BPE - Key actor country	Germany
BPE - Key actor organisation	Solarcomplex AG, Singen
Date(s) of event(s)	23-24 May 2017
Title of the event	Training on financing, contracts and business models (23.05.2017, Bajina Basta) Training on bioenergy projects for the financial sector (24.05.2017, Belgrade)
Title of the presentation	Road to Bio-energy Village, Experiences of Solarcomplex Company
Key stakeholders met in target village	Ms. Jutta Gaukler met with the Working Group of the target bio-energy village Kostojevicci including: Technical Director of PUC BB Term which operates district heating system in the village, representatives of Municipality of Bajina Basta (members of the Municipal Council and Environmental Department), Head of the Local Community Kostojevicci, entrepreneurs from the village, representative from Regional Development Agency of Zlatibor. Representatives of National Park Tara and Power Distribution Company Bajina Basta.
Scope of the missions	Transferring best practice examples from Germany to Bajina Basta and knowledge and experiences about success factors of transition to bio-energy village.
Main results of the mission, conclusions and recommendations, if applicable	Stakeholders were exposed to the example of successful cooperation between Bioenergy Village Büsingen and Company Solarcomplex AG how to switch from fossil based to renewable based local economy. They were able to learn about the most important triggers, success factors but also obstacles that the partner faced. Stakeholders also learned about the business model and organizational set-up. Since Solarcomplex is working with other villages in Germany examples of other 11 villages were briefly discussed.

BPE - Key actor name	Ms. Jutta Gaukler
BPE - Key actor country	Germany
BPE - Key actor organisation	Solarcomplex AG, Singen
Date(s) of event(s)	18 October 2018
Title of the event	National BioVill Conference - Business models for implementation of sustainable bioenergy projects (18.10.2018, Belgrade)
Title of the presentation	Implementation of bioenergy villages, Experiences of Solarcomplex
Key stakeholders met	Ms. Jutta Gaukler met with representatives of Serbian Public Investment Management Office and Ministry of Environmental Protection, representatives of number of local authorities in Serbia, representatives of GIZ DKTl Biomass project in Serbia

Scope of the missions	Transferring best practice examples from Germany to nation-wide audience from local authorities in Serbia, national government institutions and private sector
Main results of the mission, conclusions and recommendations, if applicable	Stakeholders were exposed to the example of successful cooperation between Bioenergy Village Büsingen and Company Solarcomplex AG how to switch from fossil based to renewable based local economy. They were able to learn about the most important triggers, success factors but also obstacles that the partner faced. Stakeholders also learned about the business model and organizational set-up. Since Solarcomplex is also working with other villages in Germany, examples of other 11 villages were briefly discussed.

## 7. Involvement of best practice key actors in Slovenia

Two experts were invited to share their knowledge at events organised with the support of the BioVill project in Slovenia.

BPE - Key actor name	Mr Markus Bohnert
BPE - Key actor country	Germany
BPE - Key actor organisation	Bürger Energie St. Peter e.G.
Date(s) of event(s)	11.5.-12.5.2017
Title of the event	Training seminar for local stakeholders (11.5.2017, Dole pri Litiji) Training seminar for financial sector (12.5.2017, Ljubljana)
Title of the presentation	Presentation of the bioenergy village St. Peter im Schwarzwald
Key stakeholders met in target village	The event in Dole was visited by 36 participants. Present were mayor and deputy mayor of the municipality Litija, mayor of the municipality Loški potok, representatives of the Slovenian forestry institute, representatives of firefighters, charcoal association, sports association, committee for the local development, local foresters from Slovenia forest service, representatives of local SMEs and local residents. In Ljubljana, 40 participants attended the event. Present were representatives of local governments, local or regional agencies, national financing institutions, private company representatives (wood chips producer, wood biomass heating provider, etc.) and research institution.
Scope of the mission	Presentation of best practice example from Germany with the aim to strengthen social cohesion among the citizens and to further develop the village. The main focus was to encourage the local stakeholders and residents to keep making small, but important steps towards energy self-sufficiency.
Main results of the mission, conclusions and recommendations, if applicable	The participants expressed their great satisfaction with the quality of the training course and the performance of the experts. They also expressed their willingness to further support the implementation of the BioVill project, to establish an energy self-sufficient village in Dole. Questions were mainly about the obstacles which the operators encountered on their way of establishing a bioenergy village, price of the heat and about the investors.

BPE - Key actor name	Mr Franz Moser
BPE - Key actor country	Austria
BPE - Key actor organisation	Bioenergie-Service Gen.m.b.H
Date(s) of event(s)	15.11.2018
Title of the event	Increasing the market uptake of renewable energy sources, Final national conference (15.11.2018, Ljubljana)
Title of the presentation	Optimization of biomass district heating plants
Key stakeholders	60 participants attended the event, including 9 speakers. Present were representatives of local and national governments, local and regional agencies, national financing institutions, private company representatives (wood chips producer, wood biomass heating provider, etc.) and research institution.
Scope of the mission	The major point of presentation from Mr Moser was showing obstacles, opportunities and benefits of district heating plants with special emphasis on improving the efficiency of district heating systems. Wider, the purpose of the

	<p>event was to show all outcomes and best practice examples achieved by the BioVill project so far. The Slovenian target village and the goals of the planned bioenergy project were presented to the audience.</p>
<p>Main results of the mission, conclusions and recommendations, if applicable</p>	<p>Participants agreed as most important conclusion, that the establishing of bioenergy villages increases the sustainable use of locally available renewable sources and therefore, contributes to local economic development. Thus, local biomass should be exploited in bioenergy villages by encouraging forest owners to supply wood biomass and to join a district heating system. An important finding was also that there is a significant potential to improve the efficiency of district heating systems with essential impact on biomass fuel consumption, environmental issues (emissions) and long-term sustainability and lifetime.</p>

## 8. Attachments

- ANNEX 1 Presentation of Mr Totter: "Kreislaufwirtschaft in der Praxis- Energie.Versorgung.Sicherheit"
- ANNEX 2 Presentation of Mr Totter: "Kreislaufwirtschaft in der Praxis- Wirtschaftlichkeitsrechnung"
- ANNEX 3 Presentation of Mr Totter: "Kreislaufwirtschaft in der Praxis- Anlagekosten und Finanzierung"
- ANNEX 4 Presentation of Mr Bleyl: "Training on Training on Training on Training on financing, contracts contracts and business business models"
- ANNEX 5 Presentation of Mr Bleyl: "Training on bioenergy projects for the financial sector – sector Financing models, risks and opportunities for bioenergy villages"
- ANNEX 6 Presentation of Mr Bleyl: "Training on bioenergy projects for the financial sector Financing models, risks and opportunities for bioenergy villages"
- ANNEX 7 Presentation of Mr Roggenbauer: "Energy is our Future"
- ANNEX 8 Presentation of Ms Glaser: "Our way to Energy Transition"
- ANNEX 9 Presentation of Ms Gaukler: "Bajina Basta auf dem Weg zum Bioenergiedorf"
- ANNEX 10 Presentation of Mr Bohnert: "Energieversorgung in Bürgerhand - Bioenergiedorf St. Peter im Schwarzwald"
- ANNEX 11 Presentation of Ralf Roggenbauer: "Energiepark Bruck an der Leitha - a success story"
- ANNEX 12 Presentation of Jovan Pljakov: "Енергетски ефикасна мрежа за централно греење"
- ANNEX 13 Presentation of Dominik Rutz: "Individual biomass heating – need for cooperation"
- ANNEX 14 Presentation of Mr Bohnert: "Energieversorgung in Bürgerhand - Bioenergiedorf St. Peter im Schwarzwald"