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Project Partners

GIZ – Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Germany
Jens Adler (jens.adler@giz.de)
www.giz.de



WIP – Wirtschaft und Infrastruktur GmbH & CO Planungs KG, Germany
Dominik Rutz (Dominik.Rutz@wip-munich.de)
www.wip-munich.de



KEA – Klimaschutz und Energieagentur Baden-Württemberg GmbH, Germany
Konstanze Stein (konstanze.stein@kea-bw.de)
www.kea-bw.de



AEA – Austrian Energy Agency, Austria
Martin Höher (Martin.Hoehrer@energyagency.at)
www.energyagency.at



REGEA – Regional Energy Agency of North-West Croatia, Croatia
Martina Krizmanić (mkrizmanic@regea.org)
www.regea.org



SDEWES-Skopje – International Centre for Sustainable Development of Energy, Water and Environment Systems - Macedonian Section, Macedonia
Nataša Markovska (sdwes.skopje@sdwes.org)
www.sdwes.org



GEA – Green Energy Association, Romania
Lajos Vajda (greenenergy55@gmail.com)
www.greenenergycluster.ro



GIS – Slovenian Forestry Institute, Slovenia
Nike Krajnc (nike.krajnc@gozdis.si)
www.gozdis.si



SKGO – Standing Conference of Towns and Municipalities, Serbia
Miodrag Gluscevic (Miodrag.Gluscevic@skgo.org)
www.skgo.org



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BioVill

Contact

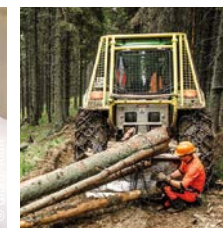
BioVill – Coordination

Jens Adler
Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

Hoyerswerdaer Straße 5
01099 Dresden
Germany

E-Mail: jens.adler@giz.de
Phone: +49-351-850 342 10
www.giz.de

Please visit us on our website:
www.biovill.eu



Imprint: Published by: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH | Responsible: Jens Adler
Design: Nicole Fritsch, Leipzig | Printed on recycling paper | Germany, August 2016



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N° 691661

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



BioVill

About BioVill

BioVill is a three years project supported by the European Union's Horizon 2020 research and innovation programme with a budget of EUR 1.99 million. The project started in March 2016 and is implemented by a collaboration of nine partners from seven countries.

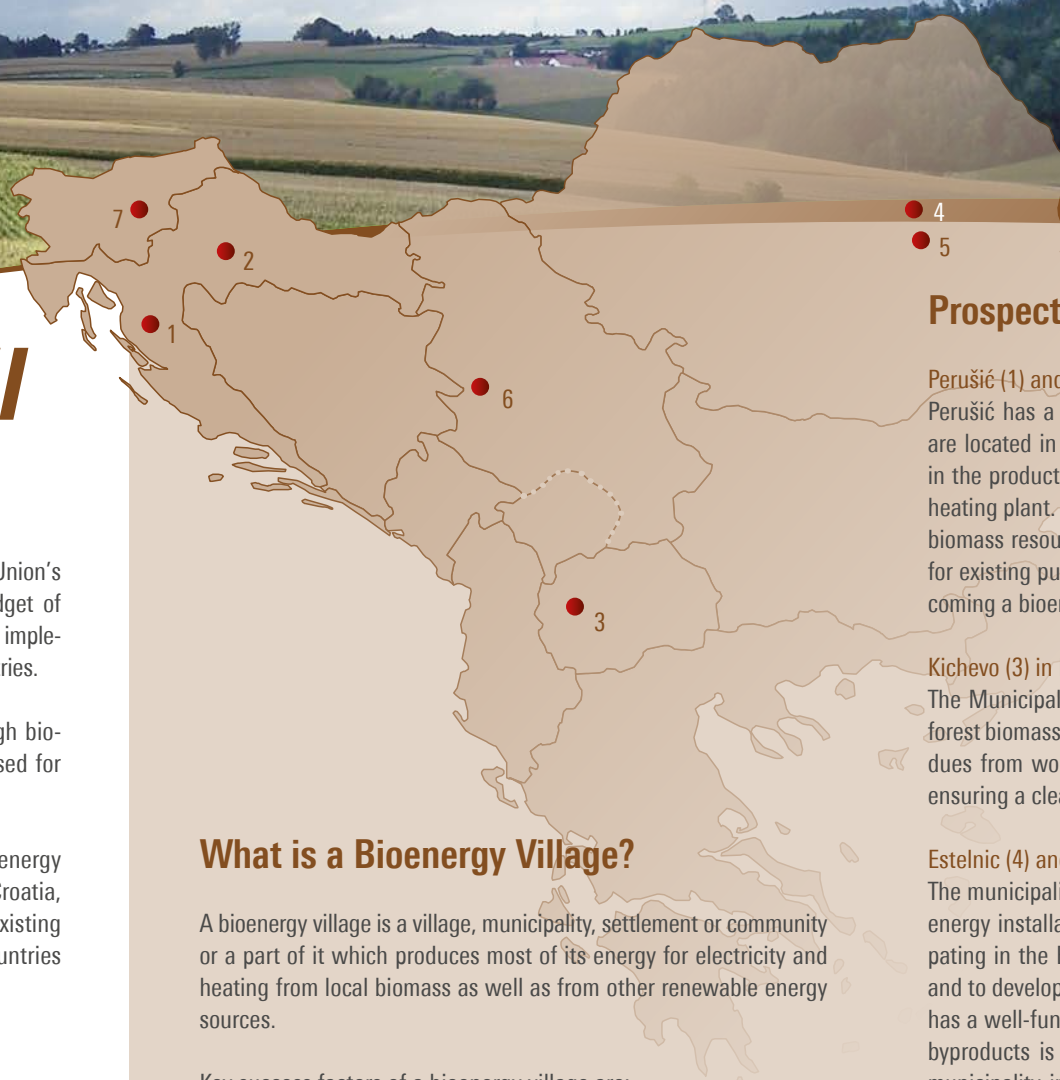
Challenge: Many South-East European countries have high biomass potentials, but they are often not or inefficiently used for local energy supply and regional economic development.

Objective: BioVill supports the development of regional bioenergy concepts and the establishment of bioenergy villages in Croatia, Macedonia, Romania, Serbia and Slovenia by transferring existing experiences from Austria, Germany and other European countries to the partners in South-East Europe.

Core Activities: The BioVill project will

- analyse the national and local framework conditions
- assess technological and economic options for local bioenergy value chains
- develop the institutional set-up and energy management concepts for the potential bioenergy villages
- build-up capacities and strengthen know-how on financing schemes and business models
- implement a multi-stakeholder approach and foster the involvement and active participation of the citizens and stakeholders in the planning and implementation process.

Results: BioVill initiates at least five bioenergy villages in the target partner countries up to the investment stage for physical infrastructure and thus, increases the market uptake of sustainable bioenergy.



Prospective Bioenergy Villages

Perušić (1) and Lekenik (2) in Croatia

Perušić has a high biomass potential and wood-based industries are located in the municipality. One company is already engaged in the production of pellets and has ambitions to build a biomass heating plant. Likewise, the municipality of Lekenik with its woody biomass resources and interest to install a biomass heating plant for existing public institutions has good starting conditions for becoming a bioenergy village.

Kichevo (3) in Macedonia

The Municipality of Kichevo has high biomass potentials such as forest biomass, stockbreeding residues, solid waste, as well as residues from wood-processing. The leitmotifs for joining BioVill are ensuring a clean energy production and energy savings.

Estelnic (4) and Ghelintă (5) in Romania

The municipality of Estelnic has a high biomass potential and bioenergy installations are already in place. Estelnic's aim of participating in the BioVill project is to strengthen the local community and to develop a sustainable energy system. Even though Ghelintă has a well-functioning wood industry, the infrastructure to use its byproducts is not yet developed. By participating in BioVill, the municipality intends to set-up an energy supply chain using the local resources.

Kostojevići (6) in Serbia

Kostojevići is surrounded by wooded mountains. But in the village the local heating system is still based on crude oil. Using the available woody resources and shifting the local heating system to biomass is the village's main motivation for participating in the BioVill project.

Dole pri Litiji (7) in Slovenia

The community Dole pri Litiji is traditionally related to wood as a resource. Forest-based industry, such as sawmills is located there. This, and the fact that up to now the facilities are heated individually provide a good basis for transforming it into a bioenergy village.

What is a Bioenergy Village?

A bioenergy village is a village, municipality, settlement or community or a part of it which produces most of its energy for electricity and heating from local biomass as well as from other renewable energy sources.

Key success factors of a bioenergy village are:

- **Sustainability:** The biomass feedstock is produced locally and in a sustainable way.
- **Energy Self Sufficiency:** A large share of the electricity and heat demand is covered by locally produced biomass or other renewable energies.
- **Local Ownership:** The business model allows also consumers, farmers and forest owners to become shared owners of the installations.
- **Regional Development:** The added value remains in the village and supports the local and regional economic development.
- **Public Participation:** The creation and management of a bioenergy village is based on a high level of public participation.
- **Resource Efficiency:** The energy concept of a bioenergy village includes also energy efficiency and energy saving measures.