



**BIOMASS FROM LANDSCAPE  
CONSERVATION AND  
MAINTENANCE WORK  
FOR RENEWABLE ENERGY  
PRODUCTION**

## **ABOUT THE GREENGAIN PROJECT**

GreenGain is a European project that looks for solutions to increase the energy utilization of biomass coming from landscape conservation and maintenance work carried out in the public interest.

The project aims to provide an EU-wide platform to raise awareness on the availability of biomass sources that are not primarily cultivated as energy crops. The main objective is a contribution to the identification of sustainable sources of biomass to meet the EU's growing demand for renewable energy.

The greenGain project is funded by the EU programme for research and innovation "Horizon 2020". The lead partner is FNR - The Agency for Renewable Resources from Germany, which has brought together eight partners from the Czech Republic, Germany, Italy and Spain. The project began in 2015 and continues until the end of 2017.

## **BIOMASS FROM LANDSCAPE CONSERVATION AND MAINTENANCE WORK**

There is a wide variety of materials, both woody and herbaceous, that accumulates during maintenance work in urban green areas, public parks, sport facilities, roadsides, waterways, hedgerows, etc. The variety of the feedstock is also reflected in the different terminology: green waste, loppings, greenery, landscape management residues, etc.



## **UNUTILIZED BIOMASS FOR RENEWABLE ENERGY PRODUCTION**

### **BENEFITS**

- Utilization of a by-product of regular management of public areas usually required by law.
- Contribution to local energy cycles and renewable energy production.
- Financial compensation for landscape maintenance costs.
- No competition with food production while increasing the supply of biomass for energy production.

### **CHALLENGES**

- Scattered occurrence of the specific biomass.
- Seasonal fluctuation of supply.
- Quality of the feedstock (heterogeneity, mineral content, etc.).
- Financial and technical constraints.
- No clear responsibilities.
- Sharing of knowledge and best practices among professionals and authorities.
- Legal requirements of waste management.
- Insufficient information on total amounts and type of feedstock, location, supply, logistical properties and bio-energy demands.

### **WHO WILL BENEFIT FROM GREENGAIN RESULTS?**

- Regional and local actors/stakeholders
- Decision-makers
- NGOs
- Citizens and consumers of energy services



### **WITHIN THE GREENGAIN PROJECT WE...**

- analyze the potential and occurrence of biomass from landscape conservation and maintenance work;
- examine the whole utilization pathways of the feedstock, including harvesting, transport, processing and energy conversion to bioenergy;
- assess the economic, environmental, social and legal aspects of its use;
- identify possible limitations and barriers to the energy use of this feedstock and provide resultant recommendations to a wide range of stakeholders in the EU;
- cooperate with seven regions in four European countries: Spain (Matarraña and Bajo Aragón), Italy (Trasimeno area), Germany (Friesland and Rotenburg (Wümme)) and the Czech Republic (Kněžice and the Týn nad Vltavou region).
- foster the exchange of information, good practices and expertise, and connect experts;
- help implement actions and measures to establish new value chains;
- maintain the project website and the [greenGain.eu](http://greenGain.eu) INFORMATION PLATFORM.

## LEARN MORE ABOUT GREENGAIN

For more information, please visit our project website, where you can also subscribe to the electronic newsletter (the website and newsletter are available in English, Czech, German, Italian and Spanish)

[www.greengain.eu](http://www.greengain.eu)



The greenGain.eu INFORMATION PLATFORM collects and provides information on biomass from landscape conservation and maintenance work with a focus on energy utilization of this feedstock. It has two main sections: greenGain KNOWLEDGE and greenGain DATABASE.

The greenGain KNOWLEDGE section provides a variety of information related to biomass from landscape conservation and maintenance work: its potential, how it is maintained and used at the moment, whether and how it can be better utilized for energy purposes and the overall legal and socio-economic context.

The greenGain DATABASE is a catalogue of documents, literature, experts and projects related to biomass from landscape conservation and maintenance work.

[www.greengain.eu/platform](http://www.greengain.eu/platform)



## PROJECT PARTNERS



## CONTACT

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