


# PROJECTS

A catalogue of projects and initiatives, mostly European, working on solutions related to the energy use of biomass

Name	Description	Website
BIOWAYS	<p>The BIOWAYS mission is to promote the huge potential of bio-based research results and raise public awareness of bio-based products, using a variety of communication techniques and through public engagement activities and the development of educational tools and materials. The BIOWAYS is an H2020-funded project started in 2017.</p>	 <a href="http://www.bioways.eu/">http://www.bioways.eu/</a>
<p><b>(LCMW) Relevance:</b>One of the objectives of the project is to understand the characteristics and potential of bio-based products and applications including waste valorisation.</p>		
BioRES - Sustainable regional supply chains for woody bioenergy	<p>BioRES aims at introducing the innovative concept of Biomass Logistic and Trade Centres (BLTCs) in Serbia, Croatia and Bulgaria based on international cooperation with European technology leaders. The BLTCs as regional hubs will help increasing local supply and demand for woody bioenergy products.</p>	<a href="http://bioresproject.eu/">http://bioresproject.eu/</a>
<p><b>(LCMW) Relevance:</b>BLTC, supply chain</p>		
EU 2020 Going Local	<p>The focus of the project lies on the transfer of good practices into mainstream EU Structural Funds programmes within the project's sub-theme "Energy and Sustainable transports".</p>	<a href="http://www.eu2020goinglocal.eu/subpage.aspx?MenuID=68731&amp;showmenuid=">http://www.eu2020goinglocal.eu/subpage.aspx?MenuID=68731&amp;showmenuid=</a>
<p><b>(LCMW) Relevance:</b>Improving regional policies; motivate local and regional politicians to get more involved with EU strategies on sustainability waste to energy</p>		

Name	Description	Website
BioWtL - Biowaste to liquid	The aim of this project is to research the thermochemical conversion (Pyrolysis) of biogenic residues to provide alternative fuels. Both the technical feasibility for a practical application as well as the related economic and environmental aspects (including costs and greenhouse gas emissions) were considered.	<a href="https://www.energetische-biomassenutzung.de/en/projects/projects-list/projects/03kb010b_biowl.html">https://www.energetische-biomassenutzung.de/en/projects/projects-list/projects/03kb010b_biowl.html</a>

**(LCMW) Relevance:**Technological and process approaches

IbeKET – Innovatives bedarfsangepasstes Kommunal-Energieträger-Konzept	Within the scope of the IbeKET project, five project partners have joined forces to investigate the use of biomass such as foliage, green cuttings and material from water maintenance for energy use. The focus was on the development of a regionally transferable concept for thermal and thermochemical utilization as well as the demand-oriented and decentralized application of such materials. The concept development was based on a practical application and the interlinking of individual technologies of participating partners.	<a href="http://tz-bremerhaven.de/de/ueber-uns/mitarbeiter/h-k/66-deutsch/forschungsprojekte/umwelt/1429-ibeket.html">http://tz-bremerhaven.de/de/ueber-uns/mitarbeiter/h-k/66-deutsch/forschungsprojekte/umwelt/1429-ibeket.html</a>
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**(LCMW) Relevance:**Grassy biomass, treatment

ISABEL	ISABEL project is about promoting, supporting and developing community biogas in Europe. The project is set on providing all the framework conditions for biogas communities to shape, develop, thrive and works on all angles in order to pave the way for the transition from traditional supply chains to community ownership and to take full advantage of the ample societal benefits of local community-driven biogas systems, fuelled and inspired by social innovation principles. The project started at the beginning of 2016 and will end at the end of 2018.	 <a href="http://isabel-project.eu">http://isabel-project.eu</a>
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Name	Description	Website
<b>(LCMW) Relevance:</b> ISABEL project promotes local production-consumption systems of waste-based (ie. sustainable) biogas.		
Bettona biogas and electricity production	Cogeneration plant fueled with olive residues.	<a href="http://www.confagricoltura.umbria.it">http://www.confagricoltura.umbria.it</a>
<b>(LCMW) Relevance:</b> Use of sustainable material for biogas production		
Biogas Plant of Spoleto	The Biogas Plant is collectively managed by a group of farmers	<a href="http://www.confagricoltura.umbria.it">http://www.confagricoltura.umbria.it</a>
<b>(LCMW) Relevance:</b> Use of sustainable material for biogas production		
Hungarian Compost Association	Hungarian Compost Association was found in 1999 at the Agricultural University in Gödöllo. Their activities are primarily: developing a good working relationship between compost producers, authorities, decision makers and associations of biological waste treatment; organization of compost seminars and workshops; collaboration with the Ministry of Environment and Water by completing a Hungarian Waste Draft; bio waste regulation and bio waste strategy ; building up the compost quality systém. Hungarian Compost Association has 57 members, 90% of the composting plants in Hungary.	<a href="http://www.komposzt.hu/?tid=1&amp;act=Tarsasagrol&amp;id=1">http://www.komposzt.hu/?tid=1&amp;act=Tarsasagrol&amp;id=1</a>
<b>(LCMW) Relevance:</b> Composting of green residues from private gardens combined with acceptance good practices		

Name	Description	Website
Zero waste concept	<p>It is a complex form of waste management without landfills and incinerators in the present form, which prevents system changes, generation of waste, minimizes the quantity and toxicity, maximally using the products, re-used and if it is no longer possible then recycles them. The current activities of Friends of the Earth (Priateľ Zeme – SPZ) in this area consisted in obtaining information and educational distribution of the strategy 'Towards Zero Waste' self-government, government and professional institutions in the Slovak Republic. They were the first to launch a debate on this concept in Slovakia.</p>	<a href="http://www.priateliazeme.sk/spz/aktivity/kampane/smerovanie-k-nulovemu-odpadu/riesenia">http://www.priateliazeme.sk/spz/aktivity/kampane/smerovanie-k-nulovemu-odpadu/riesenia</a>

**(LCMW) Relevance:** Appropriate management of green waste from public

Biomass heating plant in Hostětín	<p>Municipal biomass heating plant heats almost the entire village Hostětín since 2000. It burns wood chips, waste from nearby sawmills and forests. Heat distribution is connected on 80% of households. In the village is in comparison with the past significantly cleaner air, the people do not have to make coal cellar, but thanks to the use of this renewable source of energy each year, together saves approximately 1,100 tons of CO<sub>2</sub> emissions and therefore contributing the climate protection. The heating plant produces about 3,500 GJ of heat per heating season. Payments for fuel does not leave the region, as in the case of coal, gas or electricity and the fuel goes to municipalities. Hostětín village strengthens its independence from a power-sufficiency by a very significant way.</p> <p>(<a href="http://obchod.veronica.cz/obnovitelne-zdroje-energie-v-hostetine">http://obchod.veronica.cz/obnovitelne-zdroje-energie-v-hostetine</a>)</p>	<a href="http://hostetin.veronica.cz/vytopna-na-biomasu">http://hostetin.veronica.cz/vytopna-na-biomasu</a>
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**(LCMW) Relevance:** The heating plant use fuel - wood chips from local forests

Name	Description	Website
Interreg Salaš	<p>Project funded by EU - Regional Development Fund under the Interreg IIIA. The aim of the project is support utilization of environmentally clean heating biomass - wood, along with the use of solar collectors for domestic hot water. The basic idea is to use local sources of wood (contract with the management of czech forests - Lesy České republiky) for heating houses. The village provides self-production from thinning in nearby forests (up to forty years of age), thereby reducing emissions from transport. The result of the project is the creation of one job associated with the organization of harvesting, handling, record keeping and its billing individual participants in the project.</p>	<a href="http://www.eazk.cz/interreg-salas/">http://www.eazk.cz/interreg-salas/</a>

**(LCMW) Relevance:**Use of environmentally clean biomass from Czech forests for heating

<p>Public consultation for the Massa Martana CHP project</p>	<p>The municipality of Massa Martana has launched on its website a public online consultation about the realization of a new co-generation plant using renewable sources. The project, was considered an essential step in the process of redevelopment of the former disused industrial area in the hamlet of Villa S. Faustino (locations Red Water). Everyone could have their say via email; the consultation lasted for ten days and served to identify the topics that were the subject of the conference that took place with major national and regional leaders and representatives of environmental groups and health facilities.</p>	<a href="http://www.umbria24.it/massa-martana-consultazione-online-per-limpianto-di-cogenerazione-a-biomasse-di-villa-s-faustino/156047.html">http://www.umbria24.it/massa-martana-consultazione-online-per-limpianto-di-cogenerazione-a-biomasse-di-villa-s-faustino/156047.html</a>
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**(LCMW) Relevance:**Promotion of public participation for better acceptance of projects

Name	Description	Website
Biogas in Buonconvento ? Let's talk about it	Best practise examples of good governance of decision making processes. A local government appointed a jury and a Guarantee institution for providing suggestions about the issuing of the building permit to a company for the realization of a biogas plant project.	<a href="http://www.cantierianimati.it/wp-content/uploads/2014/04/biogas_pieghevole-finale_web.pdf">http://www.cantierianimati.it/wp-content/uploads/2014/04/biogas_pieghevole-finale_web.pdf</a>

**(LCMW) Relevance:**Promotion of public participation for better acceptance of projects

GRass as a GReen Gas Resource: Energy from landscapes by promoting the use of grass residues as a renewable energy resource (GR3)	The project aims to increase the use of grass and other herbaceous residues from landscape management as a resource for biogas production. The availability of different grass residue flows within the participating regions was analyzed and mapped. This allowed the identification of the most productive locations for grass residues suitable (in terms of volumes and quality) for biogas production. This identification of productive locations was joined together with other reports in order to create match-makings between local grass residue producers and biogas plants. These served as the basis for the development of business plans for a value chain between producers and biogas plants, along with joint declarations of intent to invest in such a value chain, and the establishment of supply contracts. For this purpose workshops and meetings were organized to inform the stakeholders.	<a href="http://www.grassgreenresource.eu">http://www.grassgreenresource.eu</a>
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**(LCMW) Relevance:**Biogas production from grass

Name	Description	Website
Enhancing sustainable biogas production in organic farming (SUSTAINGAS)	<p>Economic synergy between biogas production and organic food production is essential for the success of biogas plants on organic farms. A tool to illustrate the economic mutual benefit between biogas and organic farming was developed and tested against data from the target countries Austria, Bulgaria, Denmark, Germany, Spain and Poland. The development of the tool was based on literature studies in the target countries and an expert workshop.</p> <p>Best practice examples for sustainable organic biogas production on organic farms in the different European countries were presented. Their beneficial impact on environment, society and sustainability is systematically described.</p>	<a href="http://sustaingas.eu">http://sustaingas.eu</a>
<b>(LCMW) Relevance:</b> LCMW biomass for biogas production		
UTS biogas plants	Development and construction of innovative technology for modern agriculture and efficient biogas plants.	<a href="http://www.uts-biogas.com/en/plants.html">http://www.uts-biogas.com/en/plants.html</a>
<b>(LCMW) Relevance:</b> Development of innovative technologies addressed to the use of residual materials, e.g. biological waste, food leftovers, green waste, landscape conservation material or agricultural materials such as slurry or manure, as well as energy crops are used for biogas production		

Name	Description	Website
MULLE - Das Landschaftsenergie Projekt	<p>www.mulle.lpv.de is Germany's first internet portal for the energetic use (electricity &amp; heat) of landscape maintenance material. The German Association for Landscape Maintenance (DVL) gives examples and provides professional information about the use of biomass from landscape maintenance. The further use of the biomass helps to reduce the costs involved in landscape maintenance generates energy and, hence, supports nature conservation. The project "MULLE" (Multiplication of solutions of landscape-maintenance energy) tries to enforce these aspects. The project is funded by the German Ministry for food and agriculture via the Agency for Renewable Resources (FNR).</p>	<a href="http://www.mulle.lpv.de/">http://www.mulle.lpv.de/</a>

**(LCMW) Relevance:** Portal for the energetic use (electricity & heat) of landscape maintenance material.

Bioenergy-region Ludwigsfelde Plus	<p>This project aims at conducting public relations work in renewables, with focus on bioenergy, in order to gain public acceptance for the activities (information campaigns, events, cooperation with schools, etc.)</p>	<a href="http://www.bioenergie-region-ludwigsfelde.de/">http://www.bioenergie-region-ludwigsfelde.de/</a>
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**(LCMW) Relevance:** Promotion of bioenergy for better acceptance of projects



Name	Description	Website
Leaf-fall into briquettes	<p>The story: First, the energy use of trimming residues from hedges and small wood for the city of Ibbenbüren was introduced (drying, fractionation, direct combustion of the rough fraction, briquetting of the fine fraction). Then, the idea of an extension of this concept and energy utilization of unused leaf-fall, which is a very problematic material occurred. The initiator of the activity developed a procedure for briquetting of the leaf-fall. Because it was an innovative procedure and he himself is rather unconventional, his work was not always accepted with understanding. He decided to organise an open-door day of the facility and invited the citizens and the local press. At that day, the delivery of leaf-fall was cost-free. The work process of the facility was demonstrated from the processing to the heat production, which the visitors could directly experience. It is aimed to introduce the free delivery for local citizens in the future.</p> <p>(www.ibbenbueren.de)</p>	<a href="http://www.netz-gmbh.eu">http://www.netz-gmbh.eu</a>

**(LCMW) Relevance:**Conversion of LCMW biomass from public and private areas

Composting Plant [k]nord	<p>The story: Earlier, there were technical problems in the composting plant causing smell in the municipality; subsequently the site visit for the public was organised to explain the causes of the problem; two contact person in the town were installed and are informed by the company in case of expected smell occurrence (e.g. by maintenance work).</p>	<a href="http://www.k-nord.com/de/service/home.html">http://www.k-nord.com/de/service/home.html</a>
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**(LCMW) Relevance:**Composting of green residues from private gardens combined with acceptance good practices

Name	Description	Website
Bioenergie Regionen	<p>The Federal Ministry of Food and Agriculture (BmEL) promoted structures for the production and use of bioenergy in total 21 bioenergy regions through Germany. In the first phase of 2009-2012 especially networks were built and the foundations for bioenergy production and use laid. In the second period from 2012 - 2015 it was targeted to increase the regional economic through bioenergy, to increase efficiency, optimize material flows and disseminate experiences between partner regions.</p> <p>The bioenergy regions worked as so-called twin regions and contributed in this way to a very specific knowledge transfer. Objective of the promotion was to establish functioning networks. These received a central role in the regional strategy and contributed to the valorization of existing biomass potentials. The priority was a sustainable expansion, which also led to new jobs in the region.</p> <p>The BmEL promoted between June 2009 and July 2012 networks with innovative concepts that used the development opportunities of bioenergy already by themselves. In a two-stage selection, a jury decided which 25 out of 210 candidate regions received funding (up to 400,000 €). Within three years, the winning regions have implemented various measures with help of this promotion.</p> <p>The purpose of the bioenergy regions was to advance the expansion of the bioenergy industry in Germany and thus promote the economic development of their rural areas. They are models for the sustainable use of bioenergy and make through the integration of the local population an important contribution to the energy revolution.</p>	<a href="http://www.bioenergie-regionen.de/">http://www.bioenergie-regionen.de/</a>

Name	Description	Website
<b>(LCMW) Relevance:</b> Promotion of bioenergy for better acceptance of projects		
Heating Power Plant Rieste	The Bayernfonds BestEnergy 1 GmbH & Co. KG has six power plants in Germany, all build the same. The plants all generate heat and power with LCMW biomass coming from neighbouring parks.	<a href="http://www.bestenergy1.de/">http://www.bestenergy1.de/</a>
<b>(LCMW) Relevance:</b> Woody biomass from LCMW and some forest woof of forest not used for productive aims (natural parks)		
Heating and Power Plan Aubrugg	In the city Zürich a heating plant run with oil was closed down and a replacement was needed. The HPP Aubrugg compensated the full production of the old site with regional and renewable energy. Before the HPP Aubrugg was build, the waste incinerator plant Hagenholz with a long-distance heating grid already existed at today´s location. The new plant could profit of the already existing infrastructure and join the grid.	<a href="http://www.hkw-aubrugg.ch/">http://www.hkw-aubrugg.ch/</a>
<b>(LCMW) Relevance:</b> Wood chips from forests and landscape maintenance work (< 10%)		
Angus Biofuels	Five years ago Bill Watson created a £1.2m plant at Padanaram, west of Forfar, after developing the biomass business idea following extensive scrutiny of the industry in Europe. Being the forestry owner, woodchip producer, boiler installer and heat supply contractor the company covers every step of the production chain. It now employs around 10 staff and the Angus operation has been expanded to include depots in the Borders and Strathclyde.	<a href="http://www.thecourier.co.uk/news/local/angus-the-mearns/growth-industry-forfar-biomass-firm-boosted-by-green-energy-contract-1.64293">http://www.thecourier.co.uk/news/local/angus-the-mearns/growth-industry-forfar-biomass-firm-boosted-by-green-energy-contract-1.64293</a>
<b>(LCMW) Relevance:</b> Integrated project with forest biomass value chain development		

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Name	Description	Website
Heating with hedges	A governance mechanism for the maintenance of hedges on a cultivated area: ca. 170 km of hedges were maintained in the Münsterland in 2011/2012; 30 municipal customers; 140 private customers; 25 participating forestry contractor companies; ca. 30 600 m <sup>3</sup> of poured (m <sup>3</sup> ) wood chips harvested; heating performance ca 24 800 MWh; compared to heating oil saved 7680 tonnes CO <sub>2</sub> ; additional 60 km of hedges in the season 2012/2013 . Hedges were used for heating purposes.	<a href="http://www.energieagentur-goettingen.de/fileadmin/files/downloads/130319BrinkEQWGo__tingen2013.pdf">http://www.energieagentur-goettingen.de/fileadmin/files/downloads/130319BrinkEQWGo__tingen2013.pdf</a>

**(LCMW) Relevance:**Use of landscape mainenance biomass for heating purposes

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Name	Description	Website
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Smolyan: Biomass fuelled district heating station

Reconstruction and modernisation of the District Heating (DH) station (fuel switch from heavy fuel oil to biomass and consequently installation of a CHP unit to generate electricity and heat for better efficiency) with the aim to achieving energy and cost savings by fuel switch from expensive heavy fuel oil to local biomass, replacement of individual electricity and coal space heating of Smolyan residential buildings, increasing comfort for the citizens and reduction of GHG emissions. This sustainable energy action is considered an important part of the municipal RE/EE policy and is expected to significantly contribute to CoM obligations as well as to the local socio-economic development. The DH station has currently a pipeline network and heavy fuel oil boilers for supply of municipal buildings and tertiary sector private dwellings with heat; nevertheless due to the big increase of heavy fuel prices in the recent years, the station stopped operating. Before ceasing operation, it consumed about 630 t/year of heavy fuel oil and 1.230 t/year coal and 3.550 MWh/year electricity were additionally consumed for space heating by the tertiary sector (hotels, offices and private dwellings) that are now planned to be supplied by the new biomass fuelled DH station. The first major component of the project is to switch the fuel base of DH station in Smolyan from currently used heavy fuel oil to waste biomass (Component 1). The station currently supplies nine municipal buildings and has the capacity to connect more users who have expressed interest. In order to increase network efficiency the project envisages also partial reconstruction of heat distribution network as well as measures for EE in connected buildings.

[http://green-twinning.eu/wp-content/uploads/2013/06/Smolyan\\_Biomass-fuelled-district-heating-station.pdf](http://green-twinning.eu/wp-content/uploads/2013/06/Smolyan_Biomass-fuelled-district-heating-station.pdf)

**(LCMW) Relevance:**Biomass wastes (barks and branches) from wood logging and saw-dust from wood processing used for energy generation

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RES-biomass utilisation in District Heating, Bansko, Blagoevgrad Region, Bulgaria	Construction of a heating station together with heat transmission network, biomass (wood waste) fueled for production of hot water (115/70°C) for space heating and domestic hot water preparation for industrial sites, administrative and dwelling buildings, hotels.	<a href="http://www.setatwork.eu/database/products/R192.htm">http://www.setatwork.eu/database/products/R192.htm</a>
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**(LCMW) Relevance:**Heat production from wastes saving scarce fossil fuels

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Hot Water boiler Plant fired with Wood Residues supply with hot water six public buildings	The association between Municipality of APRILZI, Municipality of SUFLY /Greece/ and FURTH and KAUTZEB /Austria/ own a hot water boiler plant in APRILZI (Central Bulgaria) that will supply with hot water six public buildings. The boiler has a capacity of 400 KW and is designed to use wood residues. The plant was to be completed in September 2002. The total cost of the project was 320590 EUR including 240542 EUR subvention by PHARE Programme (BIODIST No: 00-00420-00).	<a href="http://www.cres.gr/biocogen/pdf/profiles/profile_bulgaria.pdf">http://www.cres.gr/biocogen/pdf/profiles/profile_bulgaria.pdf</a>
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**(LCMW) Relevance:**District heating fueled with wood residues

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Municipal district heating in Causapsca	District heating project involves all potential clients in an average rural municipality. The district heating will provide heat to municipal and religious buildings, and schools (7 buildings in total). Biomass can be supplied within a short transport distance decreasing in consequence the greenhouse gases emissions.	<a href="http://www.par-notre-propre-energie.com/89-reseau-de-chaleur-municipal-a-la-biomasse">http://www.par-notre-propre-energie.com/89-reseau-de-chaleur-municipal-a-la-biomasse</a>
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**(LCMW) Relevance:**Availability of biomass turned into district heating

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District heating in Témiscamingue	For the Rémigny project, the municipal building and school showed a consumption for heat of 21 000 L fuel/year taking into account a 115% increase of the fuel cost in 2002 and the potential biomass resource available in the zone the municipality undertook the necessary steps to settle a biomass district heating.	<a href="http://es.slideshare.net/BiomasseAO/exemples-de-rseaux-de-chaleur-en-milieu-municipal-au-tmiscamingue">http://es.slideshare.net/BiomasseAO/exemples-de-rseaux-de-chaleur-en-milieu-municipal-au-tmiscamingue</a>
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**(LCMW) Relevance:**Trees not used for sawing converted for district heating

Storm damaged forest: efficient and safe harvesting and log conservation methods	Storms regularly strongly damage the European forests. The estimated 180 million m3 of fallen trees constitutes a great experimental field for improvement of methods for efficient and safe harvesting and log conservation. Harmonised procedures will be defined for evaluation and comparison of methods. A complete survey of publications and patents will collect the available methods and their implementation conditions. Remaining unsolved questions will be identified; an inventory of ongoing research will show the relevant additional experiments to be conducted. Partners will organise exploitation of ongoing and additional experiments. Short-term staff exchange will facilitate experience sharing. A technical users' guide, also accessible via a web site, and a technical seminar, will ensure efficient dissemination.	<a href="http://cordis.europa.eu/project/rcn/64567_en.html">http://cordis.europa.eu/project/rcn/64567_en.html</a>
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**(LCMW) Relevance:**Harvesting, conservation and exploitation of logwood fallen in consequence of storms

STAR*AgroEnergy	The project aims at building up a methodology to reconcile energy production with the ecological harmony and the cultural heritage of the most relevant rural areas of Southern Europe. This project strives to work out models of sustainable dispersed bioenergy generation and proximal energy consumption.	<a href="http://www.star-agroenergy.eu/project.html">http://www.star-agroenergy.eu/project.html</a>
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**(LCMW) Relevance:**Obtaining renewable energy through productive activities complementary to farming.

#### Attachment

[PDF \(4.05 MB\)](#)

[PDF \(1.35 MB\)](#)

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AgroForNet	The aim of the research project AgroForNet is to build regional-value networks for a sustainable and efficient production and provision of woody biomass from the forest, short-rotation coppices and landscape in the three model regions. After the project period the results should serve as best practice for other regions in Germany.	<a href="http://www.energieholz-portal.de/89-0-Abstract.html">http://www.energieholz-portal.de/89-0-Abstract.html</a>
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**(LCMW) Relevance:**Utilization of wood from forest, landscape and short-rotation coppices.

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W-bast	Vision is to develop a number of innovative solutions to utilize the mowing residues a recyclable material green waste (material and thermal exploitation). In the field of thermal utilization of recycled green waste can be processed into briquettes or used in dust burners as dust to generate heat. In addition, the green waste could be used in biogas plants. The focus will initially be on woody green waste, creating a value for leafy greens, grasses, needles etc. is also tackled.	<a href="http://www.w-bast.de/">http://www.w-bast.de/</a>
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**(LCMW) Relevance:**Utilization of residual biomass from LCMW.

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BioenNW	BioenNW is focused on promoting the adoption of local bioenergy and stimulating the potential for biomass to make a substantial contribution to increasing energy security, reducing carbon emissions and creating employment.	<a href="http://bioenergy-nw.eu/">http://bioenergy-nw.eu/</a>
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**(LCMW) Relevance:**Utilization of diverse feedstock; including LCMW biomass, forestry residues etc.

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Newapp	NEWAPP is a research project focusing on hydrothermal carbonization (HTC) of wet biomass residues.	<a href="http://www.newapp-project.eu/en/">http://www.newapp-project.eu/en/</a>
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**(LCMW) Relevance:**Utilization of green waste and municipal solid waste (grass, foliage etc.)

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Nature Outlook 2010-2040: Regional case study	The case study focused on the regional use of wood chips. This fuel comes mainly from coppice wood and trimmings from landscape features and public green spaces.	<a href="http://themasites.pbl.nl/natureoutlook/2012/">http://themasites.pbl.nl/natureoutlook/2012/</a>
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**(LCMW) Relevance:**Utilization of woodchips from LCMW.

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Florafuel	Florafuel AG has developed an innovative procedure which enables local authorities, farmers, composting plant operators and trade companies to process biomass and biogenic waste (such as grass, foliage, reeds, marshland cuttings, roadside cuttings and silage) into high-grade, regenerative CO <sub>2</sub> -neutral energy sources in the form of pellets and briquettes. The plants and dryers needed for this are developed and sold on the market by florafuel AG.	<a href="http://www.florafuel.de/">http://www.florafuel.de/</a>
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**(LCMW) Relevance:**Utilization of grass, foliage, reeds, marshland cuttings, roadside cuttings and silage.

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RUBIRES: Rural Biological Resources	The specific objective is to increase the use of renewable resources and create regional added value. Therefore new tools and methods have to be developed and implemented. The project is based on three major items: development and improvement of material flow management, the management of land-use demands, the implementation of the method to manage regional added value partnerships and chains.	<a href="http://www.rubires.de/aindex.php">http://www.rubires.de/aindex.php</a>
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**(LCMW) Relevance:**Summary describing experience and results of interviews performed with wood processing companies.

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Biomass Futures	The Biomass Futures Project will assess the role that biomass can play in meeting EU energy policy targets. It will develop tailored information packages for stakeholders, as well as inform and support policy makers at both the European and national levels.	<a href="http://www.biomassfutures.eu/">http://www.biomassfutures.eu/</a>
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**(LCMW) Relevance:**Utilization of diverse feedstock; including road side verges and landscape wood.

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PROFORBIOMED	PROFORBIOMED promotes renewable energies (RE) in MED areas by developing an integrated strategy for the use of the forest biomass as a RE source, recovering the forest biomass potential, developing technical and legal aspects and promoting the use of forestry biomass for energy.	<a href="http://proforbiomed.eu/">http://proforbiomed.eu/</a>
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**(LCMW) Relevance:**Feedstock: forest biomass

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ENERBIOSCRUB	The overall aim of ENERBIOSCRUB project ("Sustainable management of shrubs formations for energy purposes") is to contribute, as part of the overall objectives of LIFE+ Environmental Policy and Governance, to reduce greenhouse gas emissions (GHG) to mitigate the effects related to climate change, through the demonstration and deployment of technologies that contribute to substantially reduce GHG emissions.	<a href="http://enerbioscrub.ciemat.es/">http://enerbioscrub.ciemat.es/</a>
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**(LCMW) Relevance:**Diverse feedstock; locally sourced biomass

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Heating with hedges (Energiequelle Wallhecke)	This project created the concept for the LCMW of hedge rows on banks in the project regions, the position of an hedge manager which advises owners and companies, online registration of hedge rows on banks of private owners and its GIS database	<a href="http://www.energieland2050.de/portal/unsere-projekte/waerme/projekte/teilprojekte/energiequelle-wallhecke/">http://www.energieland2050.de/portal/unsere-projekte/waerme/projekte/teilprojekte/energiequelle-wallhecke/</a>
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**(LCMW) Relevance:**Feedstock: wood from hedgerows on bank (protected landscape element).

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Project DBU 24692-33      The aim of the project was thus to develop a method (based on GIS) to assess biomass potentials and to develop a concept for the supply and use of LCMW biomass as energy carrier with special regard to the aims of nature protection in the studied area. Therefore, the superior aim of the project was the restoration and maintenance of valuable habitat, the valorisation of LCMW biomass as energy resource and the initiation of an exemplary project for climate-friendly and decentral heat supply.      [https://www.dbu.de/projekt\\_24692/\\_db\\_799.html](https://www.dbu.de/projekt_24692/_db_799.html)

**(LCMW) Relevance:**Feedstock: LCMW biomass.

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Project DBU 22128-33/0      The aim of this project was to develop and implement optimised mobilisation-, supply- and logistic-concepts for energy wood from forests and LCMW for a concrete region. For that, existing and innovative technologies and organisational approaches for the supply of energy wood were further developed and combined. During this process, all affected regional actors were involved.      [https://www.dbu.de/projekt\\_22128/01\\_db\\_2409.html](https://www.dbu.de/projekt_22128/01_db_2409.html)

**(LCMW) Relevance:**Feedstock: energy wood from forests and LCMW.

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PRONARO      PRONARO provides comprehensive analysis of economically and ecologically sensible use of renewable resources on roadside areas and remote sensing based analysis for the collection of roadside vegetation and derivation of care concepts.      <https://pronaro-public.sharepoint.com/>

**(LCMW) Relevance:**Feedstock: roadside vegetation.

**Attachment**

[PDF \(2.25 MB\)](#)

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Project for energy recovery of urban green in the municipality of Rome

Project for valorization of public LCMW in the municipal area of the city of Rome. Maintenance works of roads and public parks integrated with railway and waterways biomass produce more than 50.000 tons of biomass /year. Biomass is burnt in 2 boilers for heating of public buildings (total thermal power is 1,5 MW).

**(LCMW) Relevance:**Valorization of public LCMW in the municipal area.

**Attachment**

[PDF \(2.37 MB\)](#)

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Biomass Trade Centre 1 & 2

The Biomass Trade Centre II project aimed at increasing the production and the use of energy from wood biomass by organizing motivation events. They engaged target groups to invest in biomass business and biomass logistic & trade centres (BLTC) in 9 EU countries by presenting clear, integrated and market orientated information to potential investors: farmers and forest owners, forest entrepreneurs, wood energy contractors and other stakeholders regarding business opportunities to produce and sell energy products and services to the market. It also fostered wood energy contracting between biomass providers and potential users.

<http://www.biomassstradecentre2.eu/Biomass-Trade-Centrell/>

**(LCMW) Relevance:**Feedstock: woody biomass.

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Biomass Policies	<p>The Biomass Policies project aims to develop integrated policies for the mobilisation of “resource efficient” indigenous bioenergy ‘value chains’ in order to contribute towards the 2020 bioenergy targets set within NREAPs &amp; 2030, and other EU27/ national policy measures. It will do so by capitalising on the knowledge of three recent studies (Biobench ; Biomass Futures and the recent (2012) study from European Environment Agency ) and through concise collaboration with selected Energy Agencies (in the participating countries, i.e. AT, BE, DE, EL, ES, HR, IE, NL, PL, SK, UK) and key stakeholders from the policy and market fields.</p>	<p><a href="http://www.biomasspolicies.eu/">http://www.biomasspolicies.eu/</a></p>
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**(LCMW) Relevance:**Resource efficient bioenergy value chains.

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BioLogio	<p>Project on development and expansion of regional logistics structures for wood fuels</p>	<p><a href="http://www.iml.fraunhofer.de/en.html">http://www.iml.fraunhofer.de/en.html</a></p>
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**(LCMW) Relevance:**Utilization of roadside timber. Plus parallel project BioRegio: Strategies for a sustainable energetic utilisation of biomass in chosen model regions.

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Bioenergy-Regions (Bioenergie-Regionen)	<p>The aim of funding was creating functional networks. The networks received in the regional strategy a crucial role and contributed to the valorisation of existing biomass potential. The priority was a sustainable development, which also led to new jobs in the region.</p>	<p><a href="http://www.bioenergie-regionen.de/">http://www.bioenergie-regionen.de/</a></p>
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**(LCMW) Relevance:**Diverse feedstock; LCMW biomass among others. Participation of a greenGain project partner (FNR).

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Biomass energy use (Energetische Biomassenutzung)	The funding programme aims at the research and development of energy efficient technologies as well as the optimisation of processes and procedures for supply with electricity and heat from biomass, in particular organic waste and residues. Feasibility studies, measure programmes as well as pilot and demonstration projects contribute crucially to an improved energetic biomass use.	<a href="https://www.energetische-biomassenutzung.de">https://www.energetische-biomassenutzung.de</a>
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**(LCMW) Relevance:**LCMW included in topic areas Utilisation of residues, Bio-methane, Regional Bioenergy.

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Green Partnership: Expert Working Group Biomass	Project's aim is to support local administrations to overcome existing obstacles and effectively implement the set measures on the way to energy efficient cities and regions. Sustainable solutions will be implemented by creating local partnerships between owners, suppliers and final users of these initiatives.	<a href="http://www.greenpartnerships.eu/">http://www.greenpartnerships.eu/</a>
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**(LCMW) Relevance:**Diverse feedstock; in case of studies from Cyprus also products from municipal gardening. Plus expert Working Group Biomass possible source of actors for greenGain.

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Infres	Project is focused on Innovative and effective technology and logistics for forest residual biomass supply in the EU	<a href="http://www.infres.eu">http://www.infres.eu</a>
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**(LCMW) Relevance:**Project is interested in harvest, storage, supply chain and sustainability of forest biomass.

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BIOMASUD	Project creates mechanisms for sustainability and valuation of the solid biomass market in the space of the SUDOE (Spain, south of France and Portugal); Stakeholder database	<a href="http://biomasud.eu/en/">http://biomasud.eu/en/</a>
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**(LCMW) Relevance:**The creation of employment, economic growth of the regions, energy autonomy for the SUDOE and decrease of the energy costs for the consumers.

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BIORAISE	GIS tool for Biomass Resources Assessment in Southern Europe	<a href="http://bioraise.ciemat.es/Bioraise/">http://bioraise.ciemat.es/Bioraise/</a>
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**(LCMW) Relevance:**Maps of diverse LCMW biomass utilization industries, industrial equipment and machines and research centres.

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bioenarea	Exchange and transfer of experience in order to increase their capacities to favour and optimize the use of bioenergy.	<a href="http://www.bioenarea.eu/">http://www.bioenarea.eu/</a>
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**(LCMW) Relevance:**Subprojects as EBIMUN - Evaluation of biomass resources for municipalities, POLI-BIOMASS - Development of local policies among local governments to encourage the use of biomass etc.

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Biomass Energy Europe	The Biomass Energy Europe (BEE) project was initiated to harmonise methodologies for biomass resource assessments for energy purposes in Europe and its neighbouring countries. The harmonisation will improve consistency, accuracy and reliability of biomass assessments for energy, which can serve the planning of a transition to renewable energy in the European Union.	<a href="http://www.eu-bee.eu/">http://www.eu-bee.eu/</a>
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**(LCMW) Relevance:**The relevant sectors have been investigated: forestry, residues from traditional agriculture and waste.

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Groen Gas - Grünes Gas	German-Dutch project focused on biogas production from grass, subproject: DELaND (unused biomass resources).	<a href="http://www.groengasproject.eu">http://www.groengasproject.eu</a>
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**(LCMW) Relevance:**Utilization of LCMW materials.

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BioRegions	Project supports the development of efficient and reliable markets for solid biomass in five target regions, stimulates investment into bioenergy projects and trading businesses of local Stakeholders and inspires other rural areas to follow the example of the target regions.	<a href="http://www.bioregions.eu/">http://www.bioregions.eu/</a>
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**(LCMW) Relevance:**Project regions formally adopted an Action Plan with a timetable and milestones to enhance their bio-energy to at least 1/3 energy demand for electricity and heating.

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Best 4VarioUse	The main object of the project is the testing, demonstration and transfer of the applicability of conventional and innovative technologies and methods to process woody wastes and residues from landscape conservation as well as agriculture and forestry	<a href="http://best4varioususe.iff.fraunhofer.de/">http://best4varioususe.iff.fraunhofer.de/</a>
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**(LCMW) Relevance:**Utilization of woody wastes and residues from landscape conservation, agriculture and forestry.

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MULLE	Platform promoting energy use of landscape conservation material – first internet portal for electricity and heat from biomass. Bringing together projects with the aim of mobilization of the unutilized potential of biomass from landscape management in existing and newly built biomass plants and in heating plants.	<a href="http://mulle.lpv.de/">http://mulle.lpv.de/</a>
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**(LCMW) Relevance:**Utilization of landscape conservation material.

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LogistEC	The project focuses on improvement of all biomass value chain's components and assesses the sustainability in terms of environmental, economic and social impacts.	<a href="http://www.logistecproject.eu/">http://www.logistecproject.eu/</a>
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**(LCMW) Relevance:** Innovative techniques for crop management, biomass harvesting, storage and transport provide a possibility to increase biomass supply whilst keeping costs down and minimizing adverse environmental impacts.

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COMBINE	COMBINE aims at opening up of abandoned urban, natural and agricultural areas for the energy production.	<a href="http://combine-nwe.eu/">http://combine-nwe.eu/</a>
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**(LCMW) Relevance:**Utilization of semi-natural grasslands, set-aside meadows, road- and railroad-side grass verges, but also other types of grassland.

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Biodiversity and Energy wood (Biodiversität und Energieholz)	The project activities focus on optimizing of the energy use of wood from maintenance work performed in landscape conservation areas, like orchards, meadows and hedges. Technically and financially feasible solutions will be investigated, which would also respect the local conditions, taking ecology into account.	<a href="http://naturstiftung.de/index.php?pageid=30">http://naturstiftung.de/index.php?pageid=30</a>
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**(LCMW) Relevance:**Utilization of wood from landscape conservation areas maintenance.

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TWECOM

The TWECOM project wants to sustainably valorise the, until now unused, biomass from landscape elements for heat and energy production on a local scale. Landscape elements like hedgerows had an economic function in the past and are typical for a large part of NW-Europe.

<http://www.twecom.eu/>

**(LCMW) Relevance:**Utilization of biomass from landscape elements (mainly hedgerows).

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BioEUParks

The Project is going to contribute to increase the local supply of biomass from sustainably managed forests and agricultural residues, aiming to develop an efficient and sustainable biomass supply chain in 5 European Nature Parks, and promoting short chains (< 50 km) and small-scale installations (< 1 MW).

<http://www.bioeuparks.eu/>

**(LCMW) Relevance:**Utilization of biomass from sustainably managed forests and agricultural residues. Participation of a greenGain project partner (FNR).

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4biomass

The Project 4Biomass fosters usage of bioenergy throughout Central Europe (CE) via turning know-how to show-how. Providing the exchange of best practice concerning technology, demonstration projects and management approaches and direct support to regional stakeholders by turning know-how to show-how (workshops, project development, field trips).



<http://www.4biomass.eu/en/project>

**(LCMW) Relevance:**Project 4Biomass analyses the exploitable biomass potential in CE and its respective trade. Participation of a greenGain partner (CZ Biom).

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Bioenergy Promotion

The principles and criteria developed in the Main stage project cover all use of biomass for energy purposes (not only biofuels and bioliquids) and include biodiversity, resource efficiency (including land use), energy efficiency, climate change mitigation efficiency, social well-being and economic prosperity.

<http://bioenergypromotion.net/>

**(LCMW) Relevance:**Utilization of woody biomass (logging residues, LCMW biomass from roadside vegetation). Participation of greenGain project partners (COALS, FNR)

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EUROPruning      EuroPruning project aims to be the take-off for an extensive utilisation of the agricultural prunings for energy in Europe. The project aims to the development of new improved logistics for pruning residues. This includes harvesting, transport and storage for agricultural prunings.      <http://europruning.eu/>

**(LCMW) Relevance:**Agricultural prunings (fruit tree, vineyards and olive grove prunings and branches from up-rooted trees). Participation of a greenGain project partner (CIRCE).

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S2Biom      The main aim of this project is to support the sustainable delivery of non-food biomass feedstock at the local, regional and pan European level. It should proceed through developing strategies and roadmaps, that will be informed by a “computerized and easy to use” toolset (and respective databases) with updated harmonized datasets.      <http://www.s2biom.eu/en/>

**(LCMW) Relevance:**Identification and extensive characterisation of existing and future non-food biomass conversion technologies for energy and based products (thermal conversion, anaerobic digestion, biochemical conversion). The aim is to assess new and existing logistic concepts, describe the most promising logistic supply-chains for cases at local, regional and pan-European level.

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BioBoost      The overall objective of BioBoost is to pave the way for de-central conversion of residual biomass to high energy density carriers, which can be utilised in large scale applications for the synthesis of transportation fuel and chemicals or directly in small-scale combined heat and power (CHP) plants.      <http://bioboost.eu/home.php>

**(LCMW) Relevance:**Determination of the feedstock potential of agricultural residues, organic wastes and forestry residues in EU27 and Switzerland and calculation of the costs of feedstocks at field site.

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GR3 – Grass to Green Gas      GR3 promotes the use of these residues from landscape management as a resource for biogas.      <http://grassgreenresource.eu/>

**(LCMW) Relevance:**The project aims to increase the use of grass and other herbaceous residues from landscape management as a resource for biogas production.