



**Biomass energy register
for sustainable site development for
European regions**

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BEn

**Biomass energy register for sustainable site development
for European region (BEn)**
Intelligent Energy – Europe (IEE)

Horizontal action: Bio Business Initiative

**Deliverable D6.5: Standardised training materials
(structure)**

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1. Introduction

BEn stands for “Biomass Energy register for sustainable site development for European regions” and is a regional energy planning tool which offers the opportunity to regional authorities to actively participate in the energy supply of their region.

This standardised training manual serves as a guideline for practical work with the BEn register. The document particularly addresses stakeholders working in the energetic biomass sector and ensures easy handling of links and search functions.

The manual describes the structures and the service offered by the BEn register and is divided into two sections: The first section covers the general structure of the register and its possible functions. It provides the reference tools and a directory of free tutorials. The second section is dedicated to the usage of the register, providing answers for frequently asked questions (FAQs).

This presentation of the registers directs the user easily through the BEn structure offered. It ensures the easy handling of links and functions and resumes in the document as an added quality value of the BEn project.

In case of any difficulties with using the manual or if some questions remain unanswered, please contact the BEn team (see register), the manual will be adjusted accordingly.

2. General Structure of BEn register

NOTE: The complete upload of the application and the high resolution maps may take several seconds. You can find the BEn register on the following website:

http://www.biomassenatlas.de/karte_design.html

2.1. User Interface

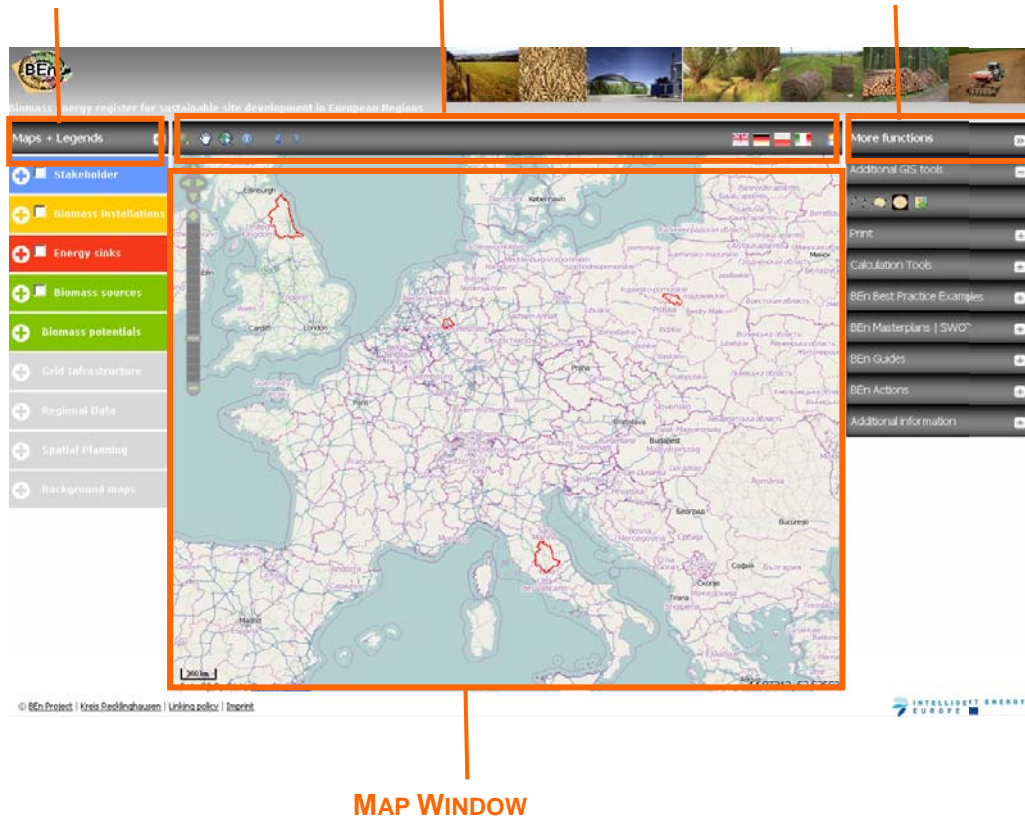
The user interface of the BEn register manual is divided into four parts:

- Themes
- Toolbar
- Map Window
- Additional Functions

THEMES

TOOLBAR

MORE FUNCTIONS



2.1.1. Themes

The content of the register is organized in different themes represented by a layer. All group layers and sublayers are displayed in the table of contents. The table of contents organises the visibility of the layers. These layers are grouped under different headings. The headings help structure the thematic search by activating or deactivating the relevant content:



Themes

Each group of layer is marked with a heading (here stakeholder) One or more layers can be found inside.



Open Group layer

When clicking this plus sign a the group of layers will be dropped down so that all the sublayers are visible



Activate Theme:

When clicking this icon, the layer is turned on and displayed on the map. It is possible to set single layers or a complete group of layers visible.

A right-click on any of the above visible icons will open another menu and allows transparency of removal.

Transparency

Geographic information can be set transparent continuously, so that layers beneath shine through.

Remove theme

The layer can be removed from the table of contents and the map. In order to show it again, the website has to be reloaded.

2.1.2. Toolbar

After setting the visibility of the layers the toolbar offers several functions for navigation in the map adjusting the chosen content:



Free Zoom/Zoom Fixed:

When activating this button with the mouse, a rectangle can be drawn to enlarge the view. This rectangle then represents the selected new map. Just click on the map, hold the left mouse button and drag to the desired rectangle.



Move a map:

When clicking this tool, the map can be moved with the left mouse button.



General View:

This tool can zoom out the current view until the total size of the region will be visible.



A view ahead/v view back:

This tool can be used to call up quickly the views before seen.

2.1.3. Map window

On the upper left side of the map you can work with the pan and the zoom level function for defining the pictorial detail of the map:



Navigating Pad:

By clicking on an arrow the map window is scaled-up by one unit to the desired direction.



Zoom Lever:

By clicking on this tool the zoom can be moved in the desired direction. The

measurement scale adjusts automatically to the size.

2.1.4. More Functions

Next to the basic functions mentioned above, BEn offers additional functions and adds quality:



Distance Measure:

This tool calculates the direct distance between selected points by clicking into the map.



Surface Measure:

This tool allows calculating areas through selected points. By double clicking on the last selected point, you quit the action.



Buffer Measure:

The basic principle is to pick a location in the map by clicking into it, entering a radius for the location-based search and retrieving a list of stakeholders e.g. who are within the radius of the click.



Sending a map as a link:

The visible extent of the map and the setting of visible maps can be sent as a link via e-mail. After selection of the tool and clicking into the map, it is possible to enter a label for the clicked position and send this extent as an E-Mail.



Add external maps:

This tool allows inserting more external maps from a drop down list added by way of themes. The maps appear in the left pane to a new folder "external maps".

2.2. Defined Categories and Symbols within the Theme Folder:

The themes are divided into five categories: Energy Sink, Energy Source, Biomass Source and Stakeholder/Consultancy and Biomass potentials. The symbols of the first four categories are held in similar colour range for additional structuring and differentiating from the other categories. The repartition of types is as follows:

2.2.1. Symbols

Classification	Symbol	Name	Classification	Symbol	Name	
Energy sinks		Public buildings / Municipalities	Stakeholder		Saw Mill	
		Private buildings			Water purification plant	
		Industry			Furniture Industry	
Biomass installations		Biogas plant			Installer	
		Wood heating or Wood Cogeneration Plant			Consulting	
		Straw heating or Straw Cogeneration Plant			Funding	
		Liquid Biofuels generation or Liquid Biofuels Production Plant			Research & Development	
		Landfill Gas Cogeneration			Network	
	Biomass source			Farming		Engineering & Development
				Pellet Plant		Energy Supplier
		Wood Chip Plant			Biomass Supplier	
		Food Industry			Education & Training	
		Forestry			Authority	

2.2.2. Classification

For each biomass potential a classification was set up to guarantee a comparison of potentials and to determine which part of the region has which potential (see example).

- Agricultural residues/crops [t]
- Livestock waste [t]
 - Livestock waste
- Forestry biomass/residues [t fresh weight]
- Co-products from industries [t]
 - agro-industrial activities
 - Olive Pomace (IT)
 - 1 - 30
 - 31 - 60
 - 61 - 120
 - 121 - 180
 - 181 - 300
 - 301 - 500
 - > 500
- Wood process activities
- Other industries
- Org. material civil sector [t fresh weight]
- Org. material from landscaping [t fresh weight]
- Other types of org. material [t fresh weight]

3. Usage of the BEn register

This section of the manual aims at a facilitated handling of the register. Its structure follows frequently asked questions and guarantees quick and easy approach to the usage.

3.1. Questions concerning stakeholders/consultancy

- Where are biomass suppliers? (*heat, cold, steam, gas, electricity*)
- Who supplies technology in the region for biomass utilisation?
- Who can be contacted for financial issues?
- Who can be contacted for project management?
- Who are regional actors?
- Who is involved in regional networks?
- Which activities are carried out in the regions?
- Where are these activities located?

3.2. Questions concerning energy sinks

- Where is a suitable energy consumer?
 - How much energy is needed?
 - What kind of energy is needed?

3.3. Questions concerning biomass installations

- Where are existing biomass installations for energy production?
- Where are existing installations for alternative biomass utilisation?
- Where are suitable sites for biomass installations?
- Show existing (bio) energy installation for...
 - ... wood
 - ... biomass from agriculture
 - ... waste
- Show restrictions for bioenergy plants

3.4. Questions concerning biomass source and potential

- What kind of biomass can be supplied?
- Where are big potentials of ...
 - ... forestry (wood) biomass?
 - ... agricultural biomass?
 - ... waste biomass?
- In combination with the potentials...
 - ... Show technical potentials
 - ... Show theoretical potentials
 - ... Show present potentials

3.5. Questions concerning sites and infrastructure

- Where are suitable sites regarding biomass supply?
- Where are necessary energy transport structures (gas, heat, cold, power grids)?
- Are there existing biomass energy chains?
- How are existing biomass energy chains formed?