



Federal Ministry
for Economic Affairs
and Energy



LIGHTWEIGHTING
INITIATIVE

LEICHTBAUATLAS

USER GUIDE

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AN OVERVIEW OF THE LEICHTBAUATLAS



An overview of the LEICHTBAUATLAS

- The homepage of the LEICHTBAUATLAS contains all available functionalities and information at a glance.
- Functional elements:
 - Display of database entries in the map view and clustering by state and organisation type
 - List of filter criteria and search field for the free text search
 - List of organisations with public profiles



An overview of the LEICHTBAUATLAS

Information

- Information about the LEICHTBAUATLAS
- Contacts
- Log in for access to profile management (creation and editing of organisational profiles)
- Language setting
- Publication data, data protection statement and terms of use
- Help/User information
- Number of organisations “published” in the database
- Number of criteria selected



An overview of the LEICHTBAUATLAS

The screenshot shows the LEICHTBAUATLAS website interface. On the left, a sidebar lists organizations with public profiles, including 3A Composites GmbH, 3D ICOM GmbH & Co. KG, 3DDE, 3M, and A. + E. Keller GmbH. The main area displays a map of Europe with callouts for 'Log in/Registration' and 'List of filter criteria'. The right sidebar shows the 'List of filter criteria' and 'Aggregated presentation of results (states, type of organisation)'. The bottom of the page includes a footer with the Federal Ministry for Economic Affairs and Energy logo and the Initiative Leichtbau logo.

Log in/Registration

List of filter criteria

List of organisations with public profiles

Aggregated presentation of results (states, type of organisation)

LEICHTBAUATLAS DE

Enter search term

Criteria selected: 0

Organisation type 0

- Small or medium-sized enterprises (249)
- Large enterprises (113)
- Non-university research institutions (68)
- Universities, higher education institutions (74)
- Clusters (85)
- Associations, chambers of industry and commerce (25)
- Public administrations and agencies (8)
- Programme administration, PPP (1)

Offer 0

Country 0

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MANAGEMENT SECTION

User and profile management



Management section

The log in icon takes you to the registration / log in screen

Registered users enter their email address and password to access user and profile administration.

Here, they can:

- edit user information (user data, email, password),
- generate and edit organisation profiles and release them for publication,
- permit additional users to edit an organisation profile.



Management section

- New organisation profiles can be created in German and English.
- If an organisation profile already exists in one of the two languages, it can be used as the basis for a new profile.
- This means that each organisation can be assigned at least two profiles (both in German and in English).



Management section

- For each profile entered, the language, publication and completion status of the profile are displayed.
- Organisation profiles can be edited and released for publication by the administrators at any time, and the publication of a profile can be withdrawn at any time; the final publication at www.leichtbauatlas.de is undertaken by the administrators.
- Every user can enter several organisations.



Management section – Overview



LEICHTBAUATLAS

User login

Login required

Please enter your user ID.

Email

Password

[Log in](#)

[Forgotten password?](#)

Register free of charge.



LEICHTBAUATLAS [Backend](#) [User account](#)

User administration

User account

Email	Given name	Surname	Institution
heiko.hahnenwald@ibf.fraunhofer.de	Heiko	Hahnenwald	Fraunhofer Institut für Betriebsfestigkeit und Systemzuverlässigkeit LBF

[Change master data](#) [Change email](#) [Change password](#)

Organisation profile

[Publish organisation profile](#)

Organisation profiles must be approved.

Create organisation profile

[Create profile](#)

Language	Name of organisation		Status	Visibility	Link to public profile	Last change		
en	Fraunhofer Institute for Structural Durability and System Reliability LBF	Fraunhofer LBF	Darmstadt	complete	public	https://go.leichtbauatlas.de/7d08ad?lang=en	19/04/2018 14:24:44	Select action
de	Fraunhofer-Verbund MATERIALS	Fraunhofer MATERIALS	Darmstadt	complete	public	https://go.leichtbauatlas.de/7d0c3c?lang=de	16/03/2018 13:55:45	Select action
de	Fraunhofer-Institut für Betriebsfestigkeit und Systemzuverlässigkeit LBF	Fraunhofer LBF	Darmstadt	complete	public	https://go.leichtbauatlas.de/7d08ad?lang=de	28/03/2018 11:07:54	Select action

Edit profile

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[Publishing details](#) [Data protection statement](#) [Declaration of use and copyright](#) [Help](#)



Bundesministerium
für Wirtschaft
und Energie



Seite 11



Management section – Profile creation

Create profile

In which language would you like to create the profile?

☐ German ☒ English

[Cancel](#) [Next](#)

New profiles can be assigned to existing organisations.

Profiles can be created in German and English.

Would you like to assign the new profile to the following organisation?

Selection	Language	Name of organisation	Organisational unit	Short name	Town	
<input checked="" type="radio"/>	de	Fraunhofer-Verbund MATERIALS	Fraunhofer MATERIALS	Darmstadt	View profile	

[No, continue](#) [Yes, create profile and assign to selected profile](#)

User account

Email: heiko.hahnenwald@lbf.fraunhofer.de

Organisation profile

[Publish organisation profile](#)

Organisation profiles must be approved for publication, only

[Create profile](#)

Language	Name of organisation	Organisational unit	Short name	Town	Status	Visibility	Link to public profile	Last change	
en	Fraunhofer Institute for Structural Durability and System Reliability LBF	Fraunhofer LBF	Darmstadt	complete	public	https://go.leichtbauatlas.de/?d08ad?lang=en	19/04/2018 14:24:44	Select action	
de	Fraunhofer-Verbund MATERIALS	Fraunhofer MATERIALS	Darmstadt	complete	public	https://go.leichtbauatlas.de/?d0c3c?lang=de	16/03/2018 13:55:45	Select action	
de	Fraunhofer-Institut für Betriebsfestigkeit und Systemzuverlässigkeit LBF	Fraunhofer LBF	Darmstadt	complete	public	https://go.leichtbauatlas.de/?d08ad?lang=de	28/03/2018 11:07:54	Select action	



Management section – Profile status



DE

LEICHTBAUATLAS

Backend

User account & organisation profile

Contact



User account

Display of the publication status and completeness of the organisation profile

Organisation profiles can be edited at any time.

Create profile

Language	Name of organisation	Organisational unit	Short name	Town	Status	Visibility	Link to public profile	Last change	Select action
en	Fraunhofer Institute for Structural Durability and System Reliability LBF		Fraunhofer LBF	Darmstadt	complete	public	https://go.leichtbauatlas.de/7d08ad?lang=en	19/04/2018 14:44	
de	Fraunhofer-Verbund MATERIALS						https://go.leichtbauatlas.de/740c3c2?lang=de	16/03/2018	Edit profile Release profile Withdraw publication Manage access rights Delete profile
de	Fraunhofer-Institut für Betriebsfestigkeit und Systemzuverlässigkeit LBF							28/03/2018	

Profile language

Organisation profiles must be released for publication.

DATA ENTRY SCREEN



Data entry screen

- Clicking the button “Create profile” opens the data entry screen, via which a new organisation profile can be created.
- Clicking on the “pen symbol” opens a dialogue box in each input field in which the actual entry is made.
- Closing the dialogue box using the “Apply” button saves the information entered in the database.



Data entry screen

- Mandatory fields are marked with red pen symbols; if all pen symbols are coloured blue, the profile is completely filled out.
- The organisation profile includes:
 - Textual descriptions of the organisation and its lightweighting expertise
 - Key data about the organisation (type, sector, etc.)
 - Checkboxes for the detailed description of the lightweighting expertise
 - Contact details



Notes for designing the text

There are a few editorial guidelines for the description:

- Provide a brief, objective and illuminating description of the organisation and its lightweighting expertise.
- Avoid strong advertising content.
- Do not make comparisons with other organisations.
- Formulate the texts in the selected language (see Create profile section).

We're happy to help with any questions!*

*Your contact: Heiko Hahnenwald,
phone.: +49 6151 705 8330, email: heiko.hahnenwald@lbf.fraunhofer.de



Data entry screen

Enter information about the organisation via organisation profile (general information)

Click on pen icon opens a dialogue window.

Possibility to upload explanatory pictures, graphics etc. (JPG format, 60x300px)

Entries are stored directly in the database.

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Data entry screen

User account & organisation profile

Contact



Selection of individual criteria and assignment of expertise in the value chain

Select below at least one field of expertise that

Development Manufacturing Supply

Offer

Entry of the lightweighting expertise (catalogue of criteria)

Measuring and testing technology

Modelling and simulation

Plant construction & factory automation

Recycling technologies

Manufacturing process

fairs and Energy www.bmwi.de

Products

Note

Assign to your offer the elements of the value chain that your organisation covers. Please note that the detailed information is only displayed in your profile if you have selected one of the three options (Research, Development, Manufacturing & Supply) in the value chain.

Value chain

Research

Development

Manufacturing & Supply

Products

e.g. machinery and equipment, software, tools



Clicking on the edit icon opens the dialogue window.



Data entry screen

Federal Ministry for Economic Affairs and Energy

LEICHTBAUATLAS Backend User account & organisation profile Contact

Listing of one or more contact persons with contact details

Please check the contact details

Mr Heiko Hahnenwald

heiko.hahnenwald@lbf.fraunhofer.de

Telephone (e.g. (0) 30 123456)

Timestamp from the last edit shows how up to date the profile entry is.

25.04.2018 09:52:10

Complete your entry and return to "User Account and Organisation Profile".

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SEARCH AND FILTER FUNCTIONALITIES



Search and filter functionalities

In addition to the management section and the data entry screen, the LEICHTBAUATLAS offers further functional elements for the presentation of database information at www.leichtbauatlas.de:

- Display of database entries as a list
 - Localisation and display of database entries on map
 - The search and filter functionality (criteria list)
-
- The core element of the site is the map with the presentation of the aggregated results.



Search and filter functionalities

- The organisation list and the list of filter criteria can be expanded or collapsed at any time.
- The number of selected filter criteria and the number of organisations resulting from the filtering is always visible.



Search and filter functionalities

The screenshot displays the LEICHTBAUATLAS.DE website interface. The top left shows the logo of the Federal Ministry for Economic Affairs and Energy. The top right features a search bar with the text 'Free text search' and a search icon. Below the search bar is a 'Criteria' section with a 'selected: 0' indicator. The main area is a map of Europe with various countries and cities labeled. Overlaid on the map are several blue callout boxes with white text:

- Number of organisations found after filtering or searching.** (Points to the 'Organisations' tab showing 623 results)
- Collapsible organisation list** (Points to the 'Organisations' tab)
- Collapsible list of filter criteria** (Points to the 'Criteria' section)
- Number of selected filter criteria** (Points to the 'selected: 0' indicator)

At the bottom of the map, there is a footer with the text: '© 2020 Federal Ministry for Economic Affairs and Energy www.bmwi.de' and a list of links: 'FAQ', 'Publishing details', 'Data protection statement', 'Declaration of use and copyright', and 'Guide'.

FILTERING AND DISPLAY OF RESULTS



Filtering and display of results

- All filter criteria can be freely selected and combined as desired.
- In addition, the free text search can be used to search the database.
- The filter criteria are structured according to main and sub-categories.
- The number of criteria selected is displayed both at category level and across all categories.



Filtering and display of results

- Depending on the selected filter criteria, the number of organisations that meet these criteria is adjusted (initially, the total number of organisations with published profiles is given).
- The exact localisation as well as the organisation profile can be called up for all organisations via the map as well as via the organisation list.



Filtering and display of results

- If an entry is selected in the organisation list, the list can be sorted by distance to this organisation.
- The language of the organisation profile is displayed using the de/en indicator in the organisational list.



Filtering and display of results

The screenshot shows the LEICHTBAUATLAS.DE interface. On the left, a list of organizations is displayed, with a callout pointing to it: "Organisations with a published profile". The list includes entries like "Borgel Elementbau C", "Hörstel", "Brandenburgische Technische Universität Cottbus-Senftenberg", "BRIMATECH Services GmbH", "Brose Fahrzeugteile GmbH & Co. KG", "BAM", "Bundesexzellenz", "Chemnitz", "Bundesministerium für Wirtschaft und Energie", "Bundesverband Leichtbeton e.V.", "Leicht Beton", and "Burgmann Packings GmbH". A callout points to the ".de" domain in the "Bundesministerium für Wirtschaft und Energie" entry: "Profile language".

On the right, a sidebar contains a search bar and filter criteria. A callout points to the filter criteria section: "Filter criteria can be freely selected and combined." The criteria are listed with counts: "Criteria" (selected: 0), "Organisation type" (0), "Small or medium-sized enterprises (249)", "Large enterprises (113)", "Non-university research institutions (68)", "Universities, higher education institutions (74)", "Clusters (85)", "Associations, chambers of industry and commerce (25)", "Public administrations and agencies (8)", and "Programme administration, PPP (1)". Below this, a table shows various filters with counts: "Offer" (0), "Field of technology" (0), "Manufacturing process" (0), "Material" (0), "Employees" (0), "Turnover" (0), and "Country" (0). A callout points to the "Number of criteria selected per category" column in this table.

The main area is a map of Europe with various cities labeled. A callout points to the map area: "Categories of filter criteria".

At the bottom of the screenshot, there is a footer with the text: "© 2020 Federal Ministry for Economic Affairs and Energy www.bmwi.de", "FAQ Publishing details Data protection statement Declaration of use and copyright Guide", and the "LEICHTBAU" logo.





Filtering and display of results

Click on organisation entry opens the organisation profile.

Bundesministerium für Wirtschaft und Energie (de)

About this organisation

Das Bundesministerium für Wirtschaft und Energie (BMWi) ist eine oberste Bundesbehörde.

Das BMWi hat den hier gezeigten LEICHTBAUATLAS initiiert und beauftragt. Darüber hinaus wurden von hier weitere Aktivitäten zum Thema Leichtbau auf den Weg gebracht. Unter anderem wird in Zusammenarbeit mit der Geschäftsstelle der Initiative Leichtbau das "Forum Leichtbau" als regelmäßiger runder Tisch veranstaltet, an dem Wirtschaft, Wissenschaft und öffentliche Hand Informationen austauschen. Weiterhin fördert das BMWi den Leichtbau bereits seit Jahren, z.B. im Rahmen der industriellen Gemeinschaftsforschung (IGF) oder des Zentralen Innovationsprogramms Mittelstand (ZIM).

Scharnhorststr. 37
10115 Berlin
Berlin
Germany
www.bmw.de

Organisation type
Public administration or agency

Sectors
No specific sector

Employees
500 and more

Turnover
n/a

LEICHTBAUATLAS, Forum Leichtbau – Runder Tisch



Filtering and display of results

The screenshot displays the LEICHTBAUATLAS.DE interface. On the left, a sidebar lists various organizations, with the 'Bundesministerium für Wirtschaft und Energie' highlighted. The main area shows a map of Berlin with a callout box for this ministry. A blue callout bubble points to a location pin on the map with the text: 'Click on the place symbol focused on organisation on the map.' The right sidebar contains search filters and a list of criteria with counts.

Organisations 623

- BRIMATECH
- Wien
- brase KG
- Coburg
- BAM
- Bundesanstalt für Materialforschung und -prüfung Berlin
- MERGE
- Bundesexzellenzcluster MERGE
- Chemnitz
- Bundesministerium für Wirtschaft und Energie Berlin
- Bundesverband Leichtbeton e.V.
- Leicht Beton
- Neuwied
- Burgmann Packings GmbH
- Waldenburg
- BYK-Chemie GmbH
- Wesel
- BUFA Composite Systems GmbH & Co. KG
- Pactaria

Bundesministerium für Wirtschaft und Energie

Das Bundesministerium für Wirtschaft und Energie (BMWi) ist eine oberste Bundesbehörde.

Schamhorststr. 37
10115 Berlin
Berlin

LEICHTBAUATLAS.DE

Enter search term

Criteria selected: 0

Organisation type 0

- Small or medium-sized enterprises (249)
- Large enterprises (113)
- Non-university research institutions (68)
- Universities, higher education institutions (74)
- Clusters (85)
- Associations, chambers of industry and commerce (25)
- Public administrations and agencies (8)
- Programme administration, PPP (1)

Offer 0

Field of technology 0

Manufacturing process 0

Material 0

Sector 0

Employees 0

Turnover 0

Country 0

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Bundesministerium
für Wirtschaft
und Energie





Filtering and display of results

The screenshot displays the LEICHTBAUATLAS.DE web application. On the left, a sidebar lists organizations under the 'Organisations' filter, including the Bundesministerium für Wirtschaft und Energie, Verband der Deutschen Holzwerkstoffindustrie e.V., and Forschungskuratorium Textil e.V. The main area shows a map of Berlin with a blue pin symbol placed over a location. Two blue callout boxes provide instructions: 'The pin symbol sorts the organisation list by distance to the selected organisation.' and 'Display of the selected organisation on the map'. On the right, a filter panel shows various criteria like 'Criteria', 'Organisation type', 'Offer', 'Field of technology', etc., each with a dropdown menu and a count of results.

LEICHTBAUATLAS.DE

Enter search term

Criteria selected: 0

Organisation type selected: 0

- Small or medium-sized enterprises (249)
- Large enterprises (113)
- Non-university research institutions (68)
- Universities, higher education institutions (74)
- Clusters (85)
- Associations, chambers of industry and commerce (25)
- Public administrations and agencies (8)
- Programme administration, PPP (1)

Offer 0

Field of technology 0

Manufacturing process 0

Material 0

Sector 0

Employees 0

Turnover 0

Country 0

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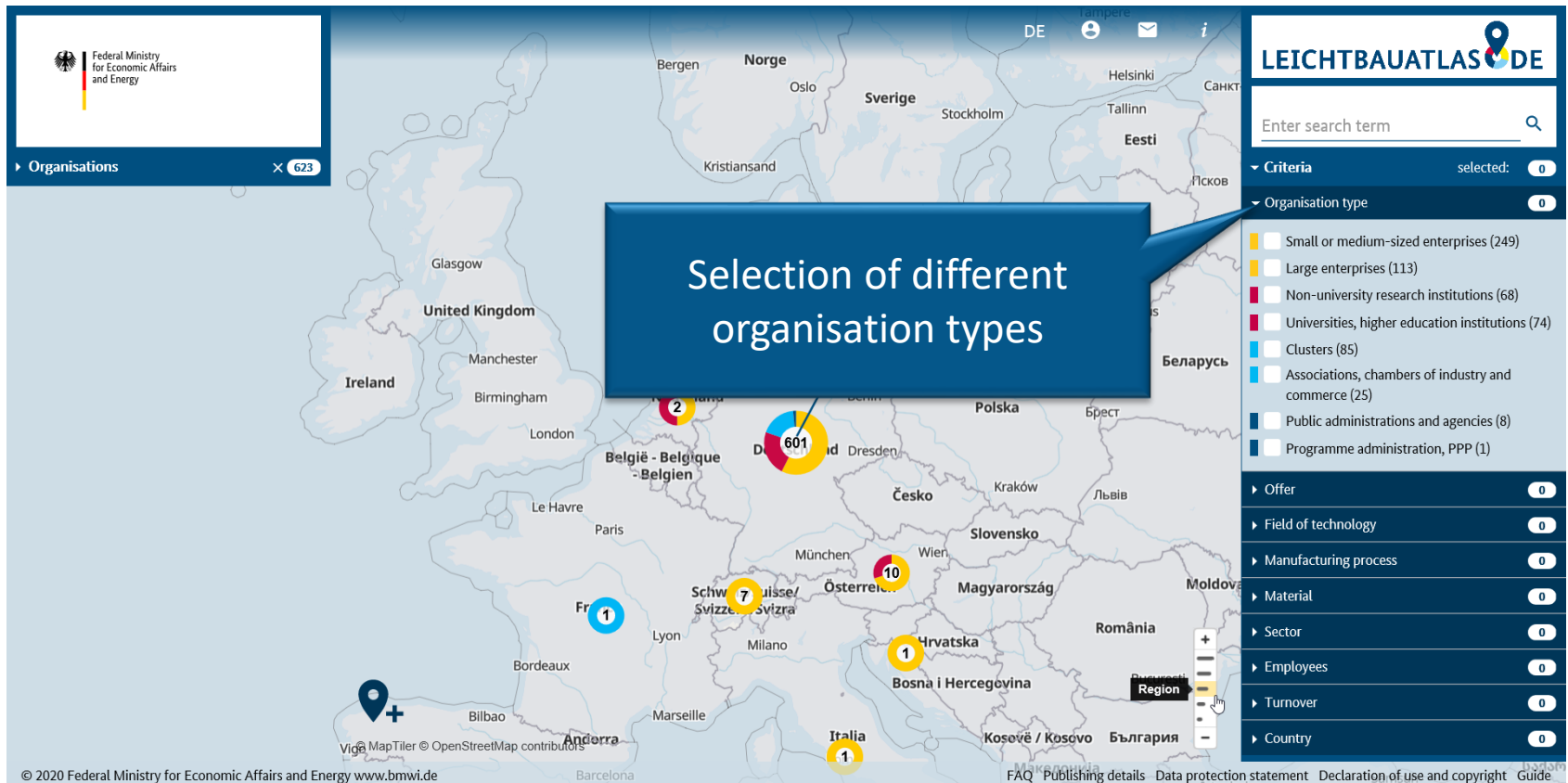


EXAMPLES OF FILTER OPTIONS



Filtering of database entries

Example: organisation type





Filtering of database entries

Example: organisation type

The screenshot shows the LEICHTBAUATLAS.DE interface. On the left, a list of organisations is displayed under the heading 'Organisations' (317). The list includes: 3D ICOM GmbH & Co. KG (Hamburg), 3DDE (Neu-Ulm), A. + E. Keller GmbH & Co. KG (Arnsberg), abjc engineering (Kiel), Acentiss GmbH (Leinfelden-Echterdingen), AFPT GmbH (Dörth), AFS Advanced Fastening Solutions GmbH (Freudenberg), AIRBUS APWORKS GmbH (Taufkirchen), and Aircraft Philipp Group. The main map area shows Europe with several circular markers indicating the number of results for specific regions: 2 for Belgium, 301 for Germany, 7 for Austria, and 1 for Bosnia i Hercegovina. Three blue callout boxes are overlaid on the map: 'Adjusting the result list' points to the organisation list, 'Number of selected criteria' points to the 'Criteria' filter section on the right, and 'Adjusting the map display' points to the map area. The right sidebar shows the 'Criteria' section with 'selected: x 2' and a list of criteria: Small or medium-sized enterprises (249), Large enterprises (113), Non-university research institutions (68), Universities, higher education institutions (74), Clusters (85), Associations, chambers of industry and commerce (25), Public administrations and agencies (8), and Programme administration, PPP (1). Below this, a list of filters with '0' results is shown: Offer, Field of technology, Manufacturing process, Material, Sector, Employees, Turnover, and Country. The footer includes the Federal Ministry for Economic Affairs and Energy logo and name, and the Initiative Leichtbau logo.

Adjusting the result list

Number of selected criteria

Adjusting the map display

LEICHTBAUATLAS.DE

Enter search term

Criteria selected: x 2

Organisation type x 2

- ☒ Small or medium-sized enterprises (249)
- ☐ Large enterprises (113)
- ☒ Non-university research institutions (68)
- ☐ Universities, higher education institutions (74)
- ☐ Clusters (85)
- ☐ Associations, chambers of industry and commerce (25)
- ☐ Public administrations and agencies (8)
- ☐ Programme administration, PPP (1)

Offer 0

Field of technology 0

Manufacturing process 0

Material 0

Sector 0

Employees 0

Turnover 0

Country 0

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Filtering of database entries

Example: material

Adjusting the result list

Filtering by materials

Adjusting the map display

Organisations

- 3M Neuss
- AFBW - Allianz Faserbasierte Werkstoffe Baden-Württemberg Stuttgart
- AMAC GmbH Aachen
- Arbeitskreis "Faseranalytik" Frankfurt am Main
- Arbeitskreis "Nachhaltigkeit / Sustainability" Frankfurt am Main
- Automotive Center Südwestfalen GmbH Attendorn
- AVK - Industrievereinigung Verstärkte Kunststoffe Frankfurt am Main
- Brose Fahrzeugteile GmbH & Co. KG Coburg
- Bundesanstalt für Materialforschung und -prüfung

Criteria selected: x 1

- Organisation type 0
- Offer 0
- Field of technology 0
- Manufacturing process 0
- Material x 1
 - Biogenic materials x 1
 - Biocomposites (109)
 - Bioplastics (85)
 - Wood (82)
 - Others (11)
 - Cellular materials (foam materials) 0
 - Composites 0
 - Fibres 0
 - Functional materials 0
 - Metals 0
 - Plastics 0
 - Structural ceramics 0

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Filtering of database entries

Example: states

Regional filtering (by states)

Adjusting the map display

Adjusting the result list

Germany

- 345 Small or medium-sized enterprises, large companies
- 138 Universities, higher education institutions and research establishments
- 109 Networks, trade associations
- 9 Public administration, programme leaders and other institutions

Criteria selected: X 16

Country X 16

☒ Germany X 16

- ☒ Baden-Württemberg (112)
- ☒ Bavaria (117)
- ☒ Berlin (24)
- ☒ Brandenburg (6)
- ☒ Bremen (11)
- ☒ Hamburg (20)
- ☒ Hesse (47)
- ☒ Lower Saxony (40)
- ☒ Mecklenburg-Western Pomerania (4)
- ☒ North Rhine-Westphalia (108)
- ☒ Rhineland-Palatinate (11)
- ☒ Saarland (3)
- ☒ Saxony (72)
- ☒ Saxony-Anhalt (9)
- ☒ Schleswig-Holstein (10)
- ☒ Thuringia (7)

☐ Other countries 0

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