

Leipzig, Germany

German Biomass Research Center (DBFZ)

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WEBSITE

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ABOUT US

The DBFZ's mission is to conduct wide-ranging, application-, sustainability- and technology-oriented research aimed at the efficient integration of biomass resources into the current and future energy system and into the bioeconomic system of the future and to provide scientific support to the related developments. The mission incorporates technical, ecological, economic, social policy and energy business aspects all along the supply chain, from production, through supply, to use. The core mission of the DBFZ is application-oriented research and development in the use of regrowable resources as an energy source and integrated base material within the bioeconomy, giving particular consideration to innovative technologies, economic impact and environmental concerns. The organisational framework for the wide-ranging research activities and services of the DBFZ comprises four Departments: Bioenergy Systems, Biochemical Conversion, Thermochemical Conversion and Biorefineries :

Research focus 1 | Anaerobic processes

Research focus 2 | Processes for chemical bioenergy sources and motor fuels

Research focus 3 | Intelligent biomass heating technologies

Research focus 4 | Catalytic emission control

Research focus 5 | Systemic contribution of biomass

AREAS OF ACTIVITY

SERVICES

- Research
- Technology transfer

TECHNOLOGIES

- Biotechnology
- Ecology and environment
- Energy (oil, gas, electricity)
- Equipment, Technologies, Instruments Food

INDUSTRY

- Chemical & synthetic
- Energy
- Green technology & Sustainability
- Water management

Project Partner on Energy & Bioeconomy Topics (Danube Region. H2020, other funding programmes)

The scientific task of the Deutsches Biomasseforschungszentrum (DBFZ) is to comprehensively support the efficient establishment of biomass as a valuable resource for sustainable energy supply within the scope of applied research and to drive it forward, both theoretically and practically. The establishment and integration of biomass in the range of existing energy sources takes place with simultaneous inclusion of technical, ecological, economic, social and energy management aspects along the whole usage chain, i.e. from production through to supply and use. In addition, the DBFZ is to draw up sound decision-making aids for politicians.

The DBFZ also does the following work:

- (1) Testing and certification of solid and liquid biofuels and plants for the supply of heat, electricity and fuel.
- (2) Advising private and public establishments on all aspects of "energy production from biomass".
- (3) Market monitoring and supply of data on "biomass/bioenergy".
- (4) Work on national and international committees and commissions, among other things for standardisation and drawing up directives and guidelines.

(5) Supporting federal ministries in strategic issues concerning "biomass/bioenergy".

(6) Networking activities of relevant players within the "biomass/bioenergy" sector.

OWN EXPERTISE AND KEYWORDS

In order to depict key questions and aspects of bioenergy to the depth essential for excellence in research, in Autumn 2014 the DBFZ established a total of five research focus areas.

They are oriented to the future trends and research policy challenges and the background conditions relating to the use of biomass as a source of materials and energy (including the strategies of the German Federal Government, such as the BioEconomy 2030 national research strategy, the National Bioeconomy Policy Strategy, the Federal Government's Mobility and Motor Fuel Strategy, the Biorefineries Roadmap, etc.). Other cornerstones include the conditions dictating grant aid and subsidy policy, unique selling points within the research landscape, and in particular the sound infrastructure of the DBFZ. In order to exploit useful synergies, the five research focus areas of the DBFZ are split organizationally across its four research departments: Bioenergy Systems, Biochemical Conversion, Thermo-Chemical Conversion, and Biorefineries.

The research focus areas of the DBFZ

(1) Systemic contribution of biomass

(2) Anaerobic processes

(3) Processes for chemical bioenergy sources and fuels

(4) SmartBiomassHeat

(5) Catalytic emission control

PROJECT IDEAS

Elevator Pitch - Corn cobs to blow-in insulation: a new value chain for the rural bioeconomy.

We propose a completely integrated value chains for the production of blow-in insulation material from agricultural residues, leading to a new valuable product for the future bioeconomy. The approach encompasses three vital sectors of the bioeconomy: agriculture, bioenergy and material production. It follows the "food first" and circular economy approach leading to a new product capable to increase income for rural areas.

TYPE OF PARTNER SOUGHT

R&D, Industry, Associations