

bifa Umweltinstitut GmbH





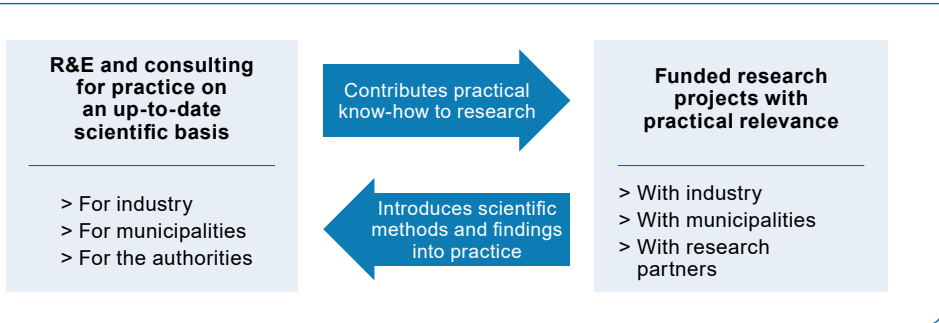
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Facts at a glance

Foundation	June 1991
Location	Augsburg
Employees	40
Legal form	GmbH (not-for-profit)
Turnover	approx. euro 4 mln. (of which currently up to euro 1.1 mln. per year in institutional funding)
Shareholders	Free State of Bavaria, City of Augsburg and the Chamber of Commerce and Industry for Swabia in Augsburg
Clients	Small and medium-sized enterprises, large companies, public facilities and institutions, associations and organisations
Research	Proven research network with many university and non-university institutes as well as in-research partnerships in practice
Technical centre with test workshop	Equipped with numerous units, Total area: 940 m ²
Laboratories	6 microbiological and chemical laboratories

bifa Umweltinstitut GmbH



With more than 1,500 completed projects, bifa is one of the leading application-oriented research, development and consulting facilities in Germany. We provide tailored, wide-ranging environmental research and services. Our project partners and clients come from all industries and all areas of society. We provide them with individual environmental consulting, analysis and development services. An efficient infrastructure for tests and trials is available in our Augsburg location.

Our 40 members of staff offer independent information and advice as the basis for decision-making by businesses, municipalities and public institutions at municipal, state or federal level.

In numerous research projects funded by the EU, federal or state organisations, bifa has set up a diverse research network. Most of bifa's research projects are collaborative projects with other institutes and partners in practice.

Interdisciplinary teams are assigned to the projects, depending on the underlying issue. Technical and economic expertise is combined with business management and social sciences methods appropriate for the task.



Climate protection and climate impacts



Climate protection concerns us all. Climate change affects everyone.

The effects of climate change are long since noticeable: Rising temperatures, more frequent extreme weather, but also new statutory provisions and changing expectations of clients and citizens. Those who know how they are affected can effectively adapt to the effects of climate change.

Climate protection should start where it is efficiently effective. Experienced and informed development of measures is important, early involvement of the participants is advisable in most cases.

We offer

- > Development of specific ideas for action
- > Assessment of climate protection effects
- > Climate protection concepts
- > Climate adaptation concepts
- > Moderation of cooperation processes
- > Support for the involvement of stakeholders and citizen participation

We will also be pleased to assist you with any other issues!

References?

Use our project finder: www.bifa.de/projects/project_finder



Sustainable power and heat supply



Energy supply is experiencing radical change.

Conflicts of interests, public protests and insufficient consultation and coordination can make energy projects fail. We advise on technical-economic issues, involve relevant stakeholders with their wishes and worries and thus contribute to the success of your project. Heat networks are frequently more economical than individual heating concepts. They avoid emissions and heavy-goods vehicle traffic. They strengthen regional added value and reduce the burden on homeowners.

We offer

- > Energy strategy and energy use plans
- > Support for renewable energy projects
- > Concepts for the use of waste heat and environmental heat
- > Heat network studies with clear statements
- > Effective citizen participation and promotion of cooperation
- > Ecological assessment of energy solutions

We will also be pleased to assist you with any other issues!

References?

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Circular economy and waste management



Driven from the outside: the circular economy is a constant challenge.

External and internal influencing factors are changing the waste management: Changing environmental legislation, technical innovations and client requirements create a new need for action. International competitors, fluctuating raw material prices and new societal challenges require creative solutions. Ecological, technical, legal and economic aspects must be considered – not only in the planning but also in everyday business.

We offer

- > Municipal and operational waste management concepts
- > Characterisation of waste
- > Development of recycling processes
- > Ecological and economic comparison of solutions
- > Assessment of technical and legal aspects of material flow control
- > Providing advice and support during implementation

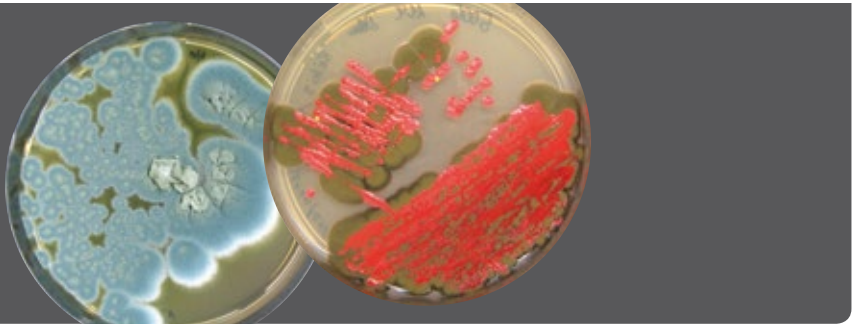
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Pollutants, hygiene, risk management



Risks: identify early and control reliably.

Pollutants and hazardous substances can impact the environment and health, they can cause fires and jeopardise production processes. More stringent limit values and other specifications require continuous readjustment. Microbes cause hygiene risks and disrupt processes. Risks must be identified early and avoided or minimised if they are unavoidable. This is what the precautionary principle requires. It is what the legislator, clients and the public demand.

We offer

- > Characterisation of emissions
- > Special chemical analysis
- > Microbiological analysis
- > Assessment of hygiene risks
- > Assessment of toxicological risks
- > Advice on handling hazardous substances and pollutants
- > Expert opinion on compliance with statutory regulations, directives and guidelines
- > Waste classification

We will also be pleased to assist you with any other issues!

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Sustainable production and service



Sustainability is fit for the future: economically, ecologically and socially.

Sustainability issues are becoming increasingly important for production and services. At the same time, everyday business increasingly leaves less time to deal with them. It is often difficult to identify what can be done and what actually helps to achieve sustainability. Our individually assembled project team supports you practically, with its many years of experience acquired from working for numerous companies and municipalities.

We offer

- > Solutions for the treatment and recycling of material flows
- > Solutions for the efficient use of energy and heat
- > Prevention of damage due to microbes
- > Sustainability strategies for the value-added chain
- > Environmental assessment
- > Providing support and information for approval processes
- > Product environmental footprint

We will also be pleased to assist you with any other issues!

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Process engineering and material flows



Efficient processes and material flows are environmental protection put into practice.

Environmental engineering is our core expertise. We assess technical solutions and develop them from the laboratory test through to the finished plant. Our diverse experience has been acquired from our involvement in recycling technology and depollution, from environmentally friendly production and product design, from private or commercial and municipal services. We assist your activities in the value-added chain.

Our expertise

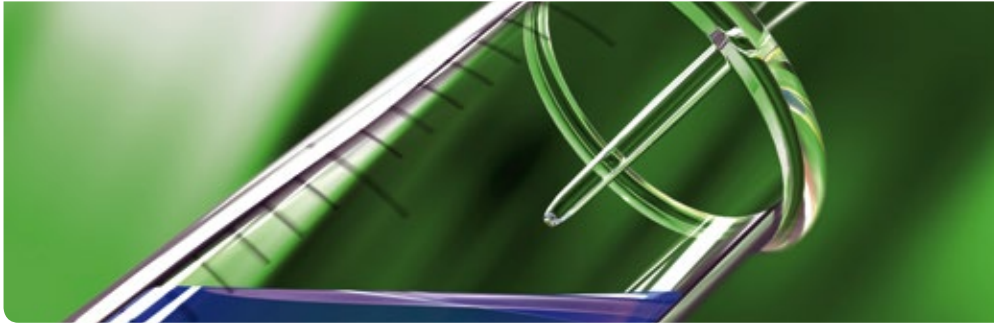
- > Preparation and recycling of residual and recoverable material flows
- > Development and optimisation of environmental processes
- > Laboratory tests, technical centre tests, pilot plants
- > Energy-efficient plant concepts
- > Analysis and assessment of alternative processes
- > Approval procedures
- > Value-maintaining waste recycling

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Biological process engineering and analytics



Anyone who understands microbes knows how to deal with them.

Without microbes there would be no food and no human life. We need them for composting, fermentation and for degrading contaminants. But microbes also colonise air-conditioning systems, process liquids and surfaces, and they propagate in air. They cause occupational safety problems, odours and process disruptions. Our experts understand microbes and they use their culture and analysis methods to track them down.

Our expertise

- > Bioburden assessments
- > Causes of microbiologically induced damage
- > Environmental stability of pathogens
- > Efficiency of hygienisation measures
- > Development and optimisation of environmental biotechnology processes
- > Microbiological test methods and biodegradability tests

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Energy systems and energy technology



Efficient energy use needs more than electricity and heat.

Renewable energy and residual heat use are future technologies. We provide advice and develop concepts, as independent experts and without bias towards a particular technology. We provide support and information for your energy project, from the analysis of its potential through to implementation.

But successful energy projects need more than just technology. Our experts know this from experience. They provide sound cost analyses. They use process moderation and life cycle analyses in a targeted and effective way.

Our expertise

- > Heat networks and heat clusters
- > Renewable energy from geothermal energy, wind power, photovoltaics, biomass
- > Electricity and heat stores
- > Hydrogen system concepts
- > Geoinformation systems
- > Innovative concepts – linking electricity, heat and mobility
- > Involving stakeholders

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Social sciences and environmental psychology



Most undervalued factor for success? Humans.

Time passes at the conference table. A few talk a lot. Often missing the point. Unrealistic ideas. Unacceptable demands. The people go round and round in circles. We provide a remedy! We lead workshop processes to success by applying apposite methods. We use professional interviewing and survey methods to determine your perspectives and those of others. We help you to find ideas, to develop strategies and to forge cooperations.

Our expertise

- > Customised workshops and process moderation
- > Expert interviews and surveys
- > Stakeholder and participant analyses
- > Consensus building and cooperation support
- > Generation of ideas and innovation processes
- > Scenario analyses and strategy development

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Life cycle assessment and system analysis



Ecological assessment based on gut feeling? Not a good idea.

The ecological assessment and optimisation of products, processes and services needs a targeted approach. Otherwise measures have little effect or are even damaging, while the main parameters remain unused. In most cases, good models for life cycle assessments or other system analyses are highly complex. We work with professional software, extensive databases, our own databases and a great deal of experience.

Our expertise

- > Life cycle assessments (LCA)
- > Ecoefficiency analyses
- > Carbon footprint analyses
- > Environmental footprint analyses
- > Utility value considerations
- > Forecasting models
- > Material flow models and analyses

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Site notice

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