

International Centre for Sustainable Development (IZNE)

Bonn-Rhine-Sieg University of Applied Sciences

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

The International Centre for Sustainable Development (IZNE) at Bonn-Rhein-Sieg University of Applied Sciences is involved in projects relating to sustainability at both regional and international level. To this end, problems and developments are viewed holistically and solved in an innovative and interdisciplinary manner. To this end, technical, scientific, economic and intercultural expertise is pooled.

With the joint project "Next Level Lightweight Production (NeLiPro)", which is funded by the BMWi, the IZNE is working on the ecological analysis and evaluation of hybrid lightweight products and their manufacturing processes. The standardised life cycle assessment method can be used to identify possible resource consumption and potential environmental impacts of products and processes along their life cycle. This makes it possible to design sustainable lightweight alternatives with suitable measures at an early stage of development.

Grantham-Allee 20
53757 Sankt Augustin
North Rhine-Westphalia
Germany
www.h-brs.de/de/izne

Main areas covered Sustainable developments, LCA

Infrastructure

Certifications

Keywords Sustainability, life cycle assessment, LCA

Memberships



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a keinen Umsatz

Funding

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Consulting	✓	✓	✓
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Others (Ecological life cycle analyses of lightweight products using the standardised life cycle assessment method)	✓		✓
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

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Contacts

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