

# 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](http://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
<b>Offer</b>			
<i>Products</i>			
<b>Services &amp; consulting</b> Consulting	✓	✓	✓
<b>Field of technology</b>			
<i>Design &amp; layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<b>Modelling and simulation</b> Others (Ecological life cycle analyses of lightweight products using the standardised life cycle assessment method)	✓		✓
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<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>			
<b>Material</b>			
<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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