



INVITATION

CIRCULAR ECONOMY IN INDUSTRY ESEIA INTERNATIONAL SUMMER SCHOOL 2025

:METABOLON—PILOT PLANT VISIT
22 – 26 SEPTEMBER 2025 | :METABOLON, GERMANY

Join us for an exceptional week of learning, collaboration, and innovation at the **ESEIA International Summer School 2025**, taking place at **:metabolon**—Germany's renowned living lab for circular systems.

Hosted by the ESEIA members TH Köln and the Bergischer Abfallwirtschaftsverband (BAV), this immersive programme offers participants the opportunity to explore real-world solutions for advancing a sustainable circular economy.

Engage with peers from across Europe, gain hands-on insights from industry leaders, and contribute to shaping the future of circular industry practices.

Register by 15 July 2025 to secure your spot.
Contact: office@eseia.eu



CIRCULAR ECONOMY IN INDUSTRY

ESIEA INTERNATIONAL SUMMER SCHOOL 2025

ABOUT

How can we turn waste into value? What does a truly circular economy look like - and how do we get there?

With the theme "**Circular Economy in Industry**", this year's ESEIA International Summer School will explore how industrial waste can be transformed into valuable resources. Through a combination of lectures, workshops, group work, and site visits, participants will gain hands-on experience and critical insights into the future of sustainable industry.



22–26 September 2025



BAV Address: Braunswerth 1
- 3, 51766 Engelskirchen, DE

metabolon Address: Am
Berkebach 1, 51789 Lindlar,
DE



Registration is open until **15 July**
2025

Contact: office@eseia.eu

CIRCULAR ECONOMY IN INDUSTRY

The **Circular Economy in Industry. ESEIA International Summer School (ISS) 2025** promises to be an insightful event, focusing on the utilization of resources from waste and innovative technologies in Industry for sustainable materials. With an emphasis on various aspects such as their socio-economic implications, business models, legal frameworks, spatial planning considerations, user acceptance, and even incorporating Bauhaus aesthetics, the ISS aims to provide a comprehensive understanding of sustainable practices in the Industry.

Whether you are a student eager to deepen your knowledge, a researcher exploring cutting-edge solutions, or an industry professional seeking practical strategies for sustainable transformation, ISS 2025 offers a unique opportunity to engage with leading experts, collaborate across disciplines, and co-create circular solutions that matter.



Industrial and Pilot Scale Biogas plant

One of the highlights of the ISS will undoubtedly be the project **:metabolon**, which serves as a real-world example of how value can be generated from the reuse, recycling, and upcycling of materials within a waste management company. This project not only **showcases the potential for transforming waste into valuable resources** but also provides valuable insights into the circular economy principles that are increasingly gaining prominence in the construction industry.



Gasification Plant



Hydrothermal Carbonisation

WORK PROGRAM

Monday, 22 September

Introduction to the site :metabolon of the BAV
Introduction to the education and research location
Introduction to the programm of the next days

Tuesday, 23 September

Workshop on waste recycling "Where is gone?"
Inspection of Technical Facilities: Fermentation Plant

Wednesday, 24 September

Workshop "New Use of Industry Waste Materials"
Inspection of Technical Facilities: Rust Ash Processing

Thursday, 25 September

Workshop "Biogas - New Opportunities and Technologies"
Inspection of Technical Facilities: AVEA Leverkusen

Friday, 26 September

Inspection of Technical Facilities: Leachate Treatment
Final presentation

TEACHING METHODS:

On-site expert lectures
Supervised group work sessions
Presentation of project outcomes
Guided site visit to BAV facilities
Exploration of the :metabolon innovation campus
Team-teaching format featuring interdisciplinary expertise

Cost for the participants (exclusive travelling)

Cost Overview per Person – 4 Nights Stay

- 4 x overnight stays in a double room: €180.00
- 4 x breakfast buffet: €56.00
- 4 x lunch in the bistro: €35.60
- 3 x dinner from the buffet (without drinks): €62.70
- 4 x all-day drinks (water, soft drinks, coffee): €75.60

Total amount: €410.90 incl. VAT

Note: A fifth lunch may be added depending on students' departure time on Friday. Participants are advised to budget an additional €20–30 for any unforeseen expenses.

Accommodation:

Participants will be accommodated at **Schlosshotel Gimborn**, with daily transfers provided to the **:metabolon** venue. Lunch will be served on-site during the programme. Each day will conclude with a group dinner at a carefully selected location, offering opportunities for informal networking and cultural exchange.