

Net-Zero Future 2026

*3rd International Conference and Net-Zero Future School
on Net-Zero Built Environment: Innovations in Materials,
Structures, and Management Practices*

Conference: 30 Sep. - 2 Oct. 2026

Net-Zero School: 4 Oct. - 7 Oct. 2026

Darmstadt, Germany



 The Research Council of Norway

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 NET-ZERO CONCRETE
SPP 2436

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WEBSITE

 Net-Zero
Future
2026

EVENT DETAILS

The Net-Zero Future Conference is part of an international initiative connecting researchers and industry leaders from Norway, Germany, India, South Africa, and the USA. The conference promotes innovation in net-zero materials, construction technologies, and sustainable built environments, aligning with global goals for quality education, sustainable cities, climate action, and international partnerships.

After the conference, a Net-Zero Future School will be held with lectures and interactive sessions. Participants can learn from experts and scientists, exchange ideas, and enjoy social activities together.

By bringing together academia and industry, the project encourages knowledge-sharing and collaboration to drive progress in net-zero construction, benefiting civil infrastructure and societal ecosystems worldwide.

A key part of this project is the Net-Zero Future Conference series. The first conference was held in 2024 in Oslo, starting a tradition of collaboration and knowledge exchange. The 2025 event in Cape Town continued this work, uniting experts and visionaries to advance sustainable construction innovations, and in 2026 the conference will take place in Darmstadt.

VENUE

Darmstadt, known as the “City of Science,” is home to leading research institutions, the European Space Operations Centre, and a rich cultural heritage. With highlights like the UNESCO-listed Mathildenhöhe, scenic parks, and historic landmarks, it is an inspiring city to explore.

The conference will take place at the darmstadtium Science and Congress Center, a modern and sustainable venue next to the historic castle ruins in the city center. Opened in 2007, it offers state-of-the-art facilities for conferences and exhibitions.

Cultural attractions, green spaces, and museums are all nearby, and several hotels are within walking distance, allowing visitors to experience Darmstadt’s scientific and cultural spirit in a welcoming setting.



CONFERENCE TOPICS

ZERO/NEGATIVE CARBON FOOTPRINT PREPARATION

- Low-carbon and carbon-neutral materials
- Sustainable alternatives to traditional cement
- Eco-friendly material production techniques
- Use of renewable and recycled materials
- Application of innovative materials in projects

OPTIMAL STRUCTURAL DESIGN

- Lightweight, high-strength structural systems
- Enhanced load capacity and energy-efficient designs
- Advanced modeling and simulation for performance
- Innovative methods to reduce material use and waste

ADVANCED HEALTH MONITORING AND SERVICE LIFE EXTENSION

- Advanced sensing for structural health
- Predictive maintenance with real-time data
- AI and machine learning in condition assessment
- Proactive measures for service life extension

LIFE-CYCLE ANALYSIS AND POLICY

- Collaborative design and construction
- Life-cycle assessment and economic feasibility
- Circular economy models for construction
- Flexible design strategies for net-zero standards and new technologies

ROBOTIC CONSTRUCTION TECHNOLOGIES

- Digital design integration for efficient workflows
- Robotics to cut waste and enhance safety
- Low-emission construction with electrified machinery
- Robotics and automation for efficient construction
- Robotic fabrication for sustainability and resource efficiency



KEY DATES

Call for Abstract Submissions Opens	15 November 2025
Deadline for Special Session Proposals	31 March 2026
Abstract Submission Deadline	01 March 2026
Full Paper Submission Deadline	15 April 2026
Net-Zero Future Conference 2026	30 September – 02 October 2026
Net-Zero Future School 2026	04 October – 07 October 2026

CALL FOR ABSTRACTS

We invite students, researchers, and industry professionals to submit abstract to the Net-Zero Future 2026 Conference.

For submission guidelines and more details, visit www.netzfuture.com or contact netzfuture@wib.tu-darmstadt.de

SCAN FOR
SUBMISSION
DETAILS



SUBMISSION OPTIONS

In order to participate in the Net-Zero Future 2026 conference, you have two submission options:

Option 1: Abstract only (with oral presentation) – ideal for contributors not submitting a full paper.

Option 2: Abstract + Full Paper (with oral presentation) – accepted papers published open access by Springer, indexed in Scopus and Web of Science.