

# Net-Zero Future 2025

Innovations in Materials, Structures,  
and Management Practices



## CAPE TOWN, SOUTH AFRICA

5 TO 7 NOV 2025

FIRST ANNOUNCEMENT AND CALL FOR ABSTRACTS

 American Concrete Institute  
*Always advancing*

 Institute for Carbon Management

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 Net-Zero Future

## EVENT DETAILS

The Net-Zero Future project forms an international alliance between Norway, Germany, India, South Africa, and the USA to research and promote net-zero materials and construction technology. This initiative supports sustainable development goals like quality education, innovation, sustainable cities, climate action, and partnerships.

Involving academic institutions and industry partners from across the globe, the project aims to create knowledge and inspire future engineers to reduce carbon footprints in the built environment. This alliance will enhance net-zero structures, benefiting civil infrastructures and societal ecosystems.

Key components are the Net-Zero Future Conferences, which started in 2024 in Oslo and set to be an annual event, fostering ongoing collaboration and advancements in net-zero structures.

## VENUE

Cape Town is a stunning travel destination, offering breathtaking landscapes like Table Mountain and pristine beaches along the Atlantic coast. Its vibrant cultural scene, world-class cuisine, and diverse attractions make it a must-visit for any traveler.

The conference will be held at the University of Cape Town's Graduate School of Business campus in the V&A Waterfront, Africa's most visited tourist attraction. Originally built as a prison in the 1800s, this landmark now features a state-of-the-art conference and exhibition center in the heart of the city.

The V&A Waterfront boasts numerous indoor and outdoor shopping and entertainment venues in a cosmopolitan setting, along with many of Cape Town's top restaurants and museums. The area around the GSB campus is surrounded by hotels, providing pleasant and safe opportunities to experience African cultures in a beautiful environment.



## PAVING THE WAY FOR A ZERO-EMISSION PHILOSOPHY

Discover the latest advancements and strategies shaping the future of construction. The conference themes cover a range of topics including zero-carbon footprint preparation in the construction and civil engineering industry, sustainable construction materials such as low carbon concrete, advanced engineered timber, earth-based materials, modern composites and more, as well advanced health monitoring and innovative life-cycle analysis.

Join us to discover sustainable solutions and pioneering practices for a greener, more efficient industry.



## 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

## CALL FOR ABSTRACTS

Prospective Authors are invited to submit abstracts to the conference. Authors of accepted abstracts will have the opportunity to prepare an optional full paper.

Accepted papers will be included in the open access Conference Proceedings published by Springer. All full paper submissions will undergo a double-blind peer review by experts with substantial experience in the related field.

## THE DEADLINE FOR ABSTRACT SUBMISSIONS IS 15 APRIL 2025.

Further details on submission guidelines, dates, and more on our website: <https://netzfuture.com/>



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