

Decarbx: AI, Energy and Industry in the Road to Net-Zero

COMSNETS Workshop 2026

Important Dates

Paper Submission Deadline	15th October 2025 (AoE)
Notification of Acceptance	15th November 2025
Camera-ready Submission	30th November 2025
Workshop Date	10th January 2026

Workshop Overview: Tech-Driven Solutions for Climate, Energy & Industry 5.0



As the world races toward net-zero, the convergence of **AI, energy infrastructure, and industrial innovation** is critical. *DecarbX: The Climate Leap* is a focused workshop under COMSNETS 2026 aimed at exploring **tech-driven decarbonization solutions**, especially for emerging economies. From smart grids to nuclear-powered data centers, from predictive analytics to disaster-resilient infrastructure, this workshop invites researchers, technologists, startups, and policymakers to shape the future of **digital sustainability and industry 5.0**.

Topics of Interest

Focus Areas: Submissions may include (but are not limited to):

Smart Infrastructure & Net-Zero Innovation

- Smart grids, AI-enabled demand response and load shaping
- Grid modernization for AI data centers
- Predictive analytics, digital twins, and resilient grid design
- Remote monitoring, edge infrastructure, and disaster preparedness

Sustainable Power for the Digital Age

- Role of MMRs/SMRs in powering clean, high-density digital infrastructure

- Energy storage, renewable integration, and system flexibility
- Co-optimization of AI and grid systems for decarbonization

Policy, Platforms & Equity

- Blockchain and emissions transparency
- Energy access and digital divide
- Industry collaboration, innovation ecosystems, and startups
- Pathways to net-zero for developing economies

In addition to paper presentations, the event will include the following formats and if you would like to participate, we welcome proposals for:

- **Design challenges** (e.g., smart grid for AI tech parks)
- **Simulations / demonstrations** (e.g., Incident recovery scenarios)
- **Hackathons** (e.g., grid-data center co-optimization using AI)
- **Panels and group discussions** (e.g., nuclear + AI readiness, digital equity in energy transition)

Submission Guidelines

- Submissions (including title, author list, abstract, all figures, tables, and references) should not exceed **5 pages** in length. A minimum number of 3 pages are required.
- Reviews will be **single-blind**: authors name and affiliation should be included in the submission
- Submissions must follow the formatting guidelines as given on the IEEE Website; and those that do not meet the size and formatting requirements will not be reviewed.
- All papers must be in Adobe Portable Document Format (PDF) and submitted on EDAS.
- All workshop papers (full papers - both regular and invited) will appear in conference proceedings and be submitted to IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

For any queries, please contact us at comsnets.workshop@gmail.com

Submission Link: TBA

Technical Program Committee

Workshop Co-Chairs

- Gaurav Vaid, Founding Partner, Venturis Group Inc
- Kundan Das, Digital Sustainability and Energy Transition Professional
- Madan Mohan Rao, MXR.World
- Vinay K. Dora, MXR.World