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SCHOOL OF MANAGEMENT
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FOS²⁰²⁶GRIE

International Conference on Frontiers of Sustainability- Global Responsibility for Innovation & Entrepreneurship

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Track 10

Climate Action, Low-Carbon Strategies & Sustainable Future Economies



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Track Information

The "Climate Action, Low-Carbon Strategies & Sustainable Future Economies (CALCS&SFE)" track invites submissions that explore how we can urgently transition to a resilient, low-carbon future. The climate crisis is accelerating, with extreme weather events becoming more frequent and intense, and global warming already at 1.1°C above pre-industrial levels. Humanity is at a critical juncture; without rapid and radical reductions in greenhouse gas (GHG) emissions across all sectors, the world is on track to exceed a 2.9°C warming this century, which would have catastrophic consequences (United Nations Environment Programme, 2024; Blanco, 2021).

This track aims to foster research and actionable knowledge that translates ambitious climate goals into practical, scalable solutions. We seek contributions that address the complex interplay between economic policies, technological innovation, and societal change needed for a just and equitable transition. We view climate action as not only a moral imperative but also a significant opportunity for economic growth and job creation. The transition to a low-carbon economy requires a "whole-of-government and whole-of-society" approach, integrating climate measures into national policies, strategies, and plans while prioritizing marginalized and vulnerable communities.

The track welcomes papers that demonstrate clear mechanisms and measurable outcomes to drive decarbonization, build resilience, and create shared value. We are particularly interested in research that moves beyond conceptual frameworks to provide concrete, operations-grounded solutions. Submissions should present clear, ready-to-apply solutions, policies (Regulation (EU) 2024/1781), technologies (King, Timms, & Mountney, 2023), financing tools, or management practices that show measurable climate results and can scale across regions and sectors (Hailemariam & Erdiaw-Kwasie, 2023).

Topics of interest include, but are not limited to

- Decarbonization Roadmaps: Strategic plans to cut carbon emissions across sectors (e.g., transport, energy, agriculture).
- Climate Adaptation & Resilience: Preparing for the impacts of climate change, including building flood defenses, developing early warning systems, and creating climate-resilient infrastructure.
- Renewable Energy Transitions: Moving from fossil fuels to clean energy sources like solar and wind, and addressing challenges like grid integration and energy storage.
- Carbon Markets & Offsets: Exploring the role and integrity of carbon trading schemes, carbon credits, and offset mechanisms in achieving climate targets.
- Economic Policies for Low-Carbon Futures: Creating incentives for a green economy through policies like carbon pricing, subsidies, and green finance.
- Climate Governance & Policy: The role of national governments and international organizations in climate policy-making, including the implementation of the Paris Agreement and other global frameworks.
- Climate-Smart Agriculture: Strategies to reduce emissions in the food sector while enhancing food security and resilience.

Methodological diversity is welcome:

All approaches are welcome: case studies, surveys, field experiments, modeling and simulations, and data-driven evaluations across sectors and geographies.

Studies on SMEs, emerging markets, and hard-to-abate sectors are encouraged, especially when combining technology, policy, and behavior insights.

Priority goes to work with transparent data, simple metrics, and results that can be replicated and scaled.

Major Keywords

Net-zero pathways; decarbonization roadmaps; renewable energy; energy efficiency; climate adaptation; resilience; carbon markets; offsets integrity; climate finance; just transition; hydrogen; integrated assessment; low-carbon policy; sustainable development

Uniqueness of the track SDG goals connected:

- This track directly advances these Sustainable Development Goals.
- SDG 7 – Affordable & Clean Energy: scale renewables and efficiency by 2030.
- SDG 8 – Decent Work & Economic Growth: support green jobs and a fair, just transition.
- SDG 9 – Industry, Innovation & Infrastructure: clean industry, innovation, and resilient infrastructure.
- SDG 11 – Sustainable Cities & Communities: low-carbon buildings/transport and stronger urban resilience.
- SDG 12 – Responsible Consumption & Production: efficiency and demand-side solutions that cut waste.
- SDG 13 – Climate Action: deep, rapid emissions cuts with scaled adaptation.
- SDG 17 – Partnerships for the Goals: cooperation under the Paris Agreement and Global Stocktake.

SUBMISSION TYPES

Research Pitch: Extended Abstract (1500 Words) It will be published in FOS 2026-GRIE conference Proceeding book with ISBN

Full Length Paper: (5,000 to 6,000 Words) It will be published in Springer proceedings (Scopus Indexed)

Publication outlet:

- All submissions will undergo a rigorous peer-review process. Based on the review outcomes:
 - Selected ideas and abstracts will be included in the Book of Abstracts (with ISSN).
 - Conference Full length papers will be published in the Springer Proceedings (Scopus Indexed).
- Selected full papers, as recommended by the conference peer-review team, will be invited for submission to one of the listed journals, in alignment with the scope of the work.

Note: For more details, please refer author guidelines in conference website

Website link: <https://fos.tsm.ac.in/>

Submission link: <https://forms.gle/BZ4kipxiDbJpu7aj6>

Major References

- Blanco, C. C. (2021). Supply chain carbon footprinting and climate change disclosures of global firms. *Production and Operations Management*, 30(9), 3143–3160. <https://doi.org/10.1111/poms.13421>
- Hailemariam, A., & Erdiaw-Kwasie, M. O. (2023). Towards a circular economy: Implications for emission reduction and environmental sustainability. *Business Strategy and the Environment*, 32(4), 1951–1965. <https://doi.org/10.1002/bse.3229>
- King, M. R., Timms, P. D., & Mountney, S. (2023). A proposed universal definition of a digital product passport ecosystem (DPPE): Worldviews, discrete capabilities, stakeholder requirements and concerns. *Journal of Cleaner Production*, 384, 135538. <https://doi.org/10.1016/j.jclepro.2022.135538>
- Regulation (EU) 2024/1781 of the European Parliament and of the Council of 13 June 2024 establishing a framework for the setting of ecodesign requirements for sustainable products, amending Directive (EU) 2020/1828 and Regulation (EU) 2023/1542 and repealing Directive 2009/125/EC. Official Journal of the European Union. <http://data.europa.eu/eli/reg/2024/1781/2024-06-28>
- United Nations Environment Programme. (2024). Global resources outlook 2024: Bend the trend – Pathways to a liveable planet as resource use spikes. International Resource Panel. <https://wedocs.unep.org/20.500.11822/44901>