

- Developing Nationally Appropriate Mitigation Actions (NAMAs)
- Contributions to the National Mission on Sustainable Agriculture and National Water Mission

Sub-National Policy Actions

- Prepared and revised SAPCCs for Indian States such as Uttarakhand, Rajasthan, Puducherry, Maharashtra, Gujarat, Assam, Chandigarh, and Jammu & Kashmir
- Contributed in Heat Action Plan for Odisha
- Sectoral GHG inventory and abatement options
- City level Risk assessments and Inventory Development
- City Climate Resilience Plans

Corporate Actions

- Carbon pricing handbook for corporates
- Climate risk and disaster profiling for risk free and sustainable business operations
- Produced custom-tailored climate products at a granular scale for various stakeholders
- Climate change impact and vulnerability assessment for the Oil and Gas sector in India
- Scope 3 Emissions Estimation for corporates

Notable Projects

- A transparency framework for Implementing INDCs in India
- Accelerating industrial de-carbonization in India
- Climate transparency activities in 7 G20 countries
- Development of Flood Early Warning System (FEWS) for urban floods in Guwahati and Jorhat
- Hi-AWARE: Himalayan Adaptation, Water and Resilience
- High-Noon: adaptation to changing water resources availability in northern India with Himalayan glacier retreat and changing monsoon pattern
- HI-PATH: Pathways for Climate Resilient Development in the Hindu Kush Himalayan region
- India-EU Track II
- Initiative for Climate Action Transparency II (ICAT) – Adaptation
- International Climate Politics Hub (ICPH)
- SHEETAL: Alliance for Sustainable Habitat, Energy Efficiency and Thermal Comfort for All

- Strengthen national climate policy implementation: Comparative empirical learning & creating linkage to climate finance (The International Climate Initiative (IKI) – SNAPFI)
- Study on Public Procurement Policies for Refrigeration and Air-Conditioning equipment using non-ODS based refrigerants
- Technical support for the revision of State Climate Action Plan
- The Framework Agreement between the Norwegian Ministry of Foreign Affairs (MFA) and The Energy and Resources Institute (TERI) – Climate Change
- Three Wheels United Verified Carbon Standards
- Water Resource Management through Spring and Catchment Rejuvenation in Uttarakhand for Improving Water Security under National Mission on Himalayan Studies
- Water Security and Climate Adaptation in Rural India

About TERI

The Energy and Resources Institute (TERI) is an independent non-profit organization, with capabilities in research, policy, consultancy, and implementation. TERI has multi-disciplinary expertise in the areas of energy, environment, climate change, resources, and sustainability. With the vision of creating innovative solutions for a sustainable future, TERI's mission is to usher in transitions to a cleaner and more sustainable future through the conservation and efficient use of the earth's resources and develop innovative ways of minimizing waste and reusing resources.



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CLIMATE CHANGE @ TERI

Centre for Global Environment Research

TERI's Centre for Global Environment Research (CGER) is involved in research at global, national, sub-national scales including developments in climate policy. It promotes evidence-driven research to develop climate mitigation and adaptation strategies and pathways for a resilient planet. Through various initiatives, CGER at TERI is constantly extending its knowledge and research in climate science and policy, engaging in partnerships and collaborations with the Government of India, international governments, corporates and industries, bilateral and multilateral organizations. The professionally diverse team consists of engineers, economists, social scientists, and finance & policy analysts, mentored by an experienced team of Distinguished Fellows, many of whom have served at various capacities in the Government of India.

Themes and Commitments

Risks, Vulnerability, and Adaptation

- Vulnerability assessments for climate-sensitive sectors along with action-oriented research that can aid in adaptation, improve resilience, and reduce risks in urban and rural areas
- Assist national, sub-national, and regional stakeholders in developing a comprehensive adaptation plan
- Use state-of-the-art models, from seasonal to decadal scales, to address national and local climate knowledge gaps
- Generate climate information and contribute towards climate services and capacity building of relevant stakeholders
- Conduct research in the area of water and climate-related risks and disasters. Provide solutions for planning, policy formulation and risk mitigation and adaptation planning at regional and local level



- Develop flood forecasting and early warning systems for disaster preparedness and response. For example, TERI has developed a Flood Early Warning System for urban and riverine floods as a measure for improving overall climate resilience
- Generate scenarios for future climatic risks such as sea level rise, cyclone and Tsunami induced storm surge for coastal vulnerability assessments.

Climate Governance

- Provide inputs for national communications and Biennial Update reports
- International climate policy and developments and domestic implications
- Contribution to international climate policy discourses on transparency, accountability, finance, loss and damage, just transitions, nature-based solution
- Development of MRV approaches and options at global, national, and sub-national levels
- Custom-tailored GHG inventory tools to estimate GHG emissions for the national government, states, and corporate sectors
- Sub-national and non-state actors.

Technology Roadmap to Decarbonization

- Assess technology needs as per the national circumstances and evaluate technology options based on environmental benefits, social impacts, and economic feasibility
- Develop technology roadmaps to formulate policy actions that aid in decarbonization of various sectors
- Technology feasibility for climate resilience
- Develop cooling action plans along with analysing options to increase energy efficiency during refrigerant transitions
- Develop business models that help increase the uptake of affordable and efficient cooling solutions and technology options.

Climate Finance and Markets

- Understand the development of global carbon markets and its impacts on India, analyse domestic climate finance flows, and interpret the implications of finance tools and business models designed to mobilize climate finance
- Advise the Government of India on evolving negotiations and developments in climate finance and carbon markets.

Knowledge Building and Outreach

- Training and capacity building programs for policy makers, technocrats, industries, students, and the media
- Discussion papers, books, policy briefs, journal articles, and op-ed
- Social campaigns for public awareness on environment and climate change
- Facilitate discussion and dialogues by bringing together scientists and researchers, political leaders and decision-makers, business community, diplomats, media personnel, and members of civil society on a common platform to deliberate on climate change issues.

Impact We Created

Global Narratives and Policy

- Contributed to the IPCC special reports and assessment reports
- Member of Technical advisory board of the International Civil Aviation Organization (ICAO) to provide research and advisory for the implementation of CORSIA (Carbon Offsetting and Reduction Scheme for International Aviation) a global market mechanism for emission reductions by international airline operators
- Every year TERI has strong presence at the Conference of the Parties (COP) under the United Nations Framework Convention on Climate Change
- Adaptation Futures (AF) conference was first to be held in Asia hosted by The Energy and Resources Institute (TERI) in collaboration with World Adaptation and Science Programme (WASP) in October 2021
- Multi-Country cooling platform in partnership with The Embassy of France in India to facilitate cross country knowledge exchange for Sustainable Habitat, Energy Efficiency, and Thermal Comfort for All.

National Policy

- India's NDCs and National Communications
- Contribution to Low Emissions Development Strategy Committee Report prepared by MoEFCC in July 2022
- Prepared National Action Plan on Climate Change
- India's Cooling Action Plan
- Involved in the preparation of National State of Environment Report (NSOER)