



2024-25 ANNUAL REPORT

Knowledge-Based Activism





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Director's report

The world is grappling with multiple, interlinked crises: poverty and marginalisation leading to insecurity and migration; environmental degradation affecting livelihoods and health; and an accelerating climate change crisis are worsening these vulnerabilities. Moreover, shifting global geopolitics often diverts attention from pressing development issues, undermines climate action, and creates divisions over green technology transitions. In this tense environment, the space for public policy discourse is shrinking, making it increasingly difficult for institutions committed to long-term solutions to maintain momentum and secure necessary funding.

In response to growing uncertainties, CSE has crafted a strategic plan for 2025-30 that aligns its work more deliberately with the evolving climate and development challenges confronting India and countries in the global south. Recognising that climate change is not a distant threat but a present and escalating reality, the strategy focuses on delivering solutions at scale—solutions that can make a tangible difference while providing co-benefits across CSE's programme areas. The strategic plan emphasises that these solutions must simultaneously address climate mitigation and foster sustainable growth. Central to this approach is the understanding that development challenges remain critical for countries of the South. CSE will therefore frame its programmes to advocate for interventions that are affordable, inclusive and sustainable, recognising that true sustainability is only achievable through growth that is equitable and accessible to all.

CSE's Theory of Change for 2025-2030 revolves around four core elements:

- Conducting research to identify and promote effective solutions.
- Communicating these solutions widely to foster broad acceptance and engagement.
- Building partnerships for effective on-ground implementation.
- Creating multipliers through capacity building to scale up impact.

The strategic framework is organised into four main strategies:

Strategy 1: Climate Change as Co-benefits: This approach places development at the heart of climate strategies. It focuses on inclusive and sustainable models that integrate poverty reduction, equitable growth, and environmental management. The goal is to ensure that climate action supports broader development objectives.

Strategy 2: Deepening Regional and Local Engagement: CSE aims to intensify partnerships at regional and local levels to facilitate practical implementation of policies. By working closely with local stakeholders,

the organisation can tailor solutions to specific contexts, thereby enhancing effectiveness and impact.

Strategy 3: Expanding Communication for Change: Disseminate information widely on issues of concern – from the state of the environment to specific challenges of water, waste or air pollution, so that CSE research reaches decision makers and is able to influence policy as well as practice. Use new and social media outreach channels to engage with newer, younger audiences that are the new cadre of environmentalists, and strengthen the network of environment and climate change communicators in India and across countries of the global South.

Strategy 4: Building Capacity to Create Change Agents: Acknowledging the slow pace of formal education reform, CSE has prioritised capacity building through its Anil Agarwal Environmental Training Institute (AAETI). The institute offers specialised programs for professionals, regulators, and government officials, fostering practical skills and knowledge. These programs have already demonstrated tangible changes in practice. To overcome the rising costs of international training, CSE is exploring new methods such as online training and virtual convenings.

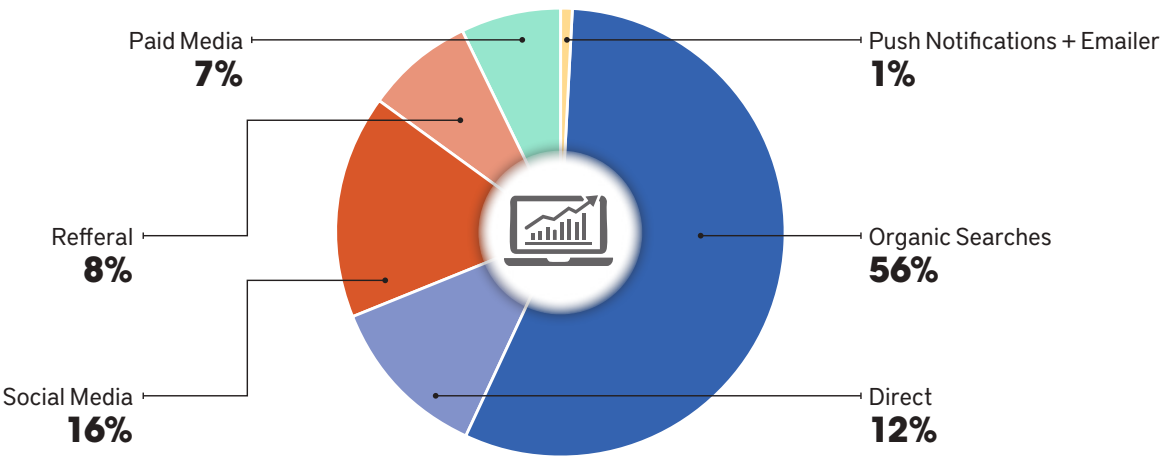
CSE's assessment and strategic planning underscore a proactive and adaptive approach to today's intertwined challenges. By focusing on co-benefit-driven climate action, strengthening local partnerships, amplifying communication, and investing in capacity building, CSE remains committed to fostering sustainable development and resilience amidst growing global uncertainties.



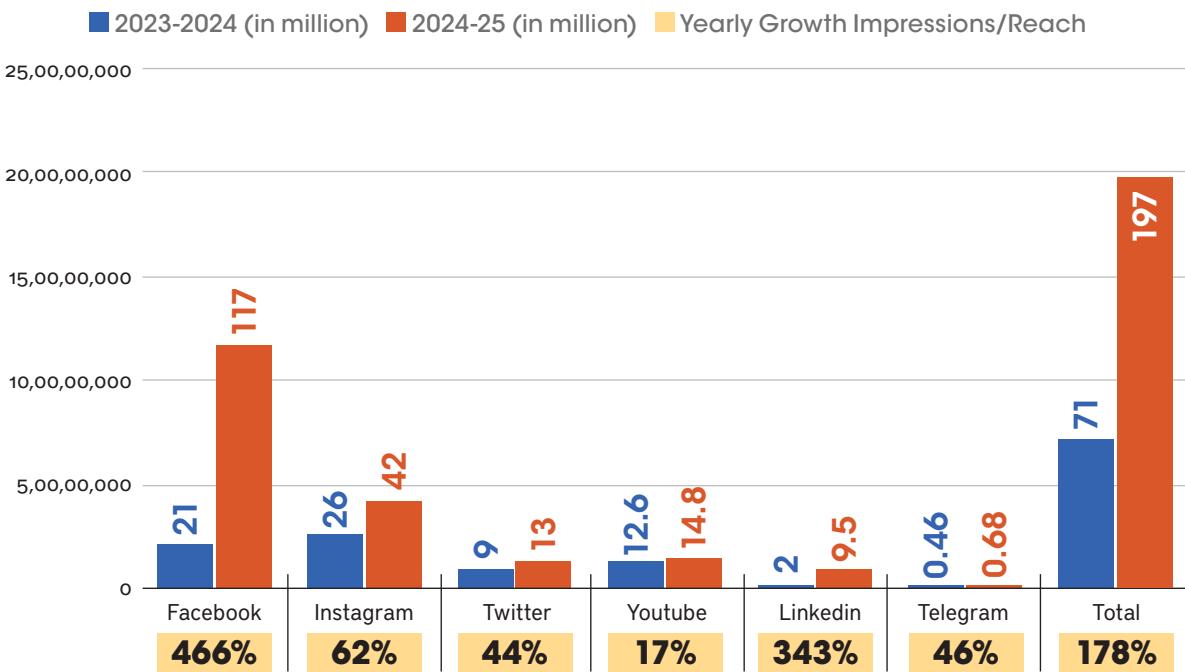
(Sunita Narain)

Highlights of the Year

WEB TRAFFIC: SOURCE, MEDIUM



SOCIAL MEDIA IMPRESSIONS (ANNUAL)



YEAR 2024

Total Reports: **84** | Report Downloads: **78,382**

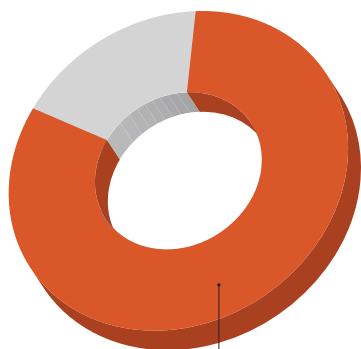
YEAR 2025

Total Reports: **113** | Report Downloads: **875,539**

CSE'S TOP 10 (PUBLICATIONS DOWNLOADED)

SL.	PUBLICATION TITLE	DOWNLOADS
1	State of Africa's Environment 2024	40396
2	Climate India 2024: An Assessment of Extreme Weather Events	39777
3	Planning and Designing Habitat in Climate-Risked Times: Heat toolkit	33389
4	State of States: Are We on Track to Achieve Sustainable Development Goals 2030	31715
5	The Cool School Manual	26293
6	Waste to Worth: Managing India's Urban Water Crisis through Wastewater Reuse	14486
7	Recommendations for FSTPS and Co-Treatment Plants in UP	14387
8	Article 6 of the Paris Agreement	13284
9	Challenges and Possibilities to Prevent and Contain AMR	12564
10	Global Plastic Treaty Negotiations Country Positions	12301

Research



83%
of our plan completed



Our specialized
newsletters reach
7,64,826
people



We did **134**
publications; which
were downloaded

7,18,878
times



We had **2,206**
media mentions in the
year; roughly **31 every**
day of the year; In
India and globally

Capacity Building



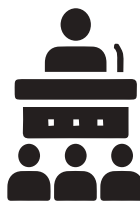
We did **98** onsite training programmes, with **2,618** people who visited our campus in the year

We did **182** seminar; conferences; webinars, which were attended by **22,678** people from across the world



We did **44** online trainings, had **10,262** registrations and trained **5,226** people in subjects ranging from municipal solid waste to environmental education

Outreach



Across social media platforms- from Facebook, Instagram, Linkedin and others -we got **2,31,54,954** impressions

Our online events were viewed by **4,70,085** people in different social media platforms, Linkedin to Youtube



In 2023-24 CSE-DTE websites had **30,850,980** and in 2024-25 **39,081,110** visitors.

Multimedia: Expanding Reach and Impact

In 2024–25, CSE and Down To Earth (DTE) expanded their multimedia presence, using digital platforms to inform and engage global audiences on critical environmental issues

YouTube Growth and Content Production

The combined CSE/DTE YouTube platforms recorded



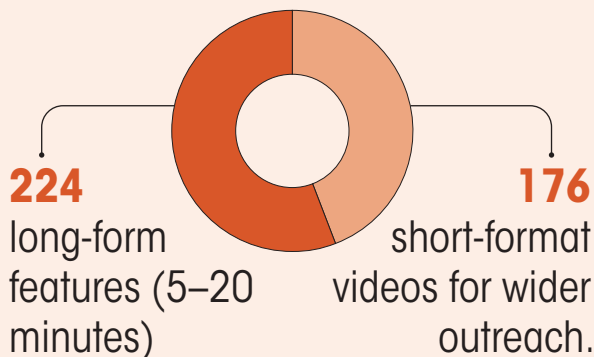
14.8 million views and hosted around 100 live-streamed events on priority topics.



The *Down To Earth* channel grew by **93,000** new subscribers, reaching 702,500 subscribers by year-end.



Over **400** new videos were uploaded, including



The *Down To Earth* Hindi channel added **2,500** new subscribers, closing the year at **4,990** subscribers.



Content Focus



Climate Change
& International
Negotiations
(216 videos)



Food Security
& Sustainable
Food Systems
(21 videos)



Solid Waste
Management
(18 videos)



Environmental
Issues in Africa
(7 videos)



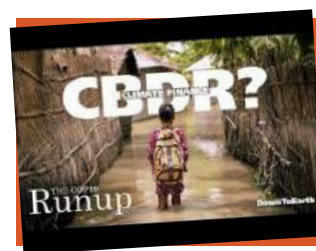
New Series and Formats



**The Sunita Narain Show
and Podcast:** Weekly
expert commentary on
emerging challenges



Cover Story Documentaries:
Investigative features on issues
like seaweed ecosystems,
Hindon River pollution, and
wheat blast outbreaks



Climate Conflicts:
Documentaries on
climate, geopolitics,
and social justice



The Green Kitchen:
Exploring food,
biodiversity, and
sustainable diets



Down To Earth's
video **POISONED
WATERS – ON THE LUDHIANA
(GIASPURA) GAS TRAGEDY
OF 2023** won the Ramnath
Goenka award for environment,
science and technology
reporting in the BROADCAST
category! **The President of
India** gave away the awards
on March 19, 2025



Cool It Campaign:
Urban heat island
effects and design
solutions

Human Resource Management Report (2024-25)

CSE maintains an integrated and comprehensive approach to Human Resource Management, focused on nurturing talent and enabling dynamic growth for all staff. The Centre is committed to identifying the right individuals and creating a work environment that supports both personal and organisational development. This includes continuous learning opportunities, skill enhancement platforms, and motivational initiatives that align employee progress with institutional goals.

In-house Training

CSE offers ongoing training to support professional development and optimise internal resources. Notable training sessions held this year include:

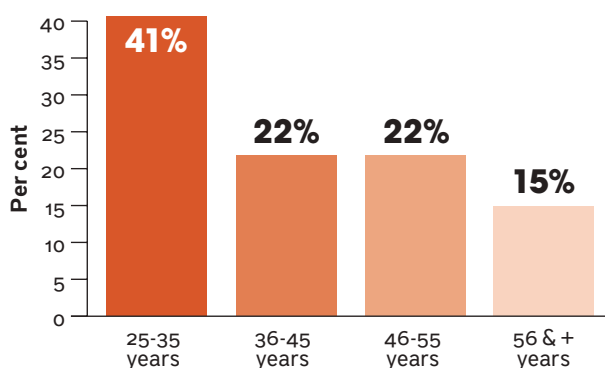
1. Promoting a safe and respectful workplace for women
2. Cyber security and data protection
3. Writing for media platforms
4. Enhancing presentation skills
5. Effective use of social media for campaign outreach
6. Training of Trainers' for targeted capacity building: Interactive, hands-on sessions designed to strengthen the capacities of trainers

Internship Programme

CSE's internship programme is designed to engage aspiring environmentalists in real-time research, communication, and advocacy. In 2024-25, 52 interns from top Indian and international universities contributed significantly to the Centre's work—supporting outreach activities, organizing events, conducting surveys, and assisting with data analysis and content creation. Interns came from leading institutions including the Indian Institutes of Technology (IITs), School of Planning and Architecture, Jamia Millia Islamia, University of Delhi, Trinity College Dublin, University of Manchester, University of Edinburgh, and University of St. Andrews.

Age Group of Staff

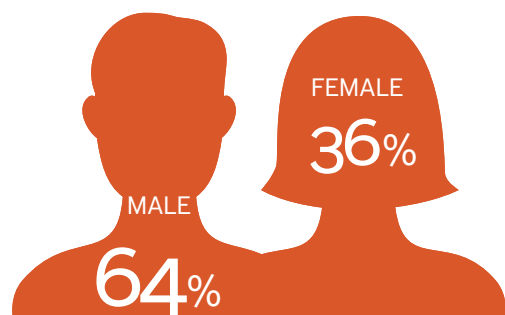
Age Group of Staff indicates a youthful and energetic workforce, with a significant portion in early to mid-career stages.



Gender Representation

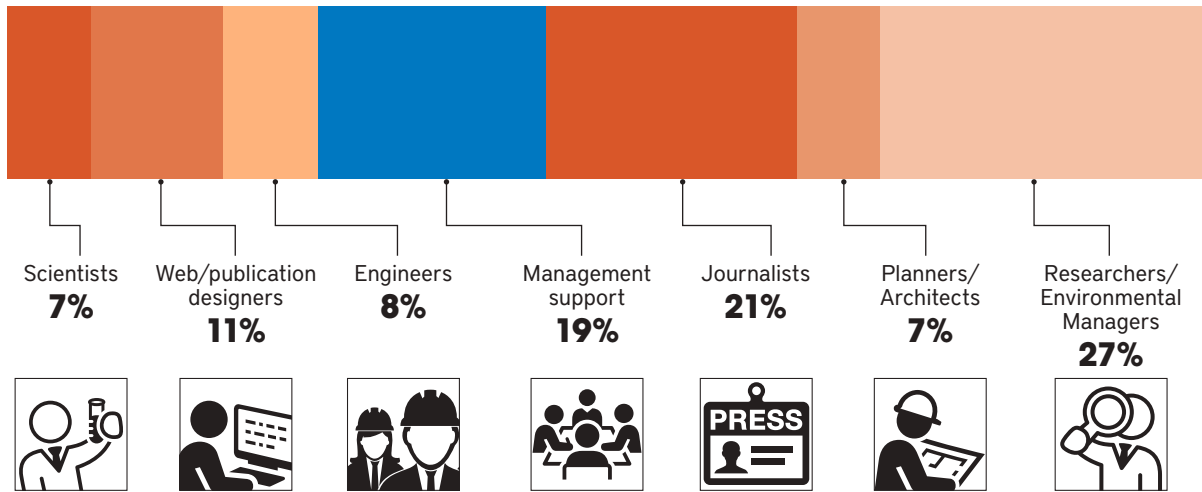
(2024-25)

Gender Representation shows a balanced approach toward inclusivity



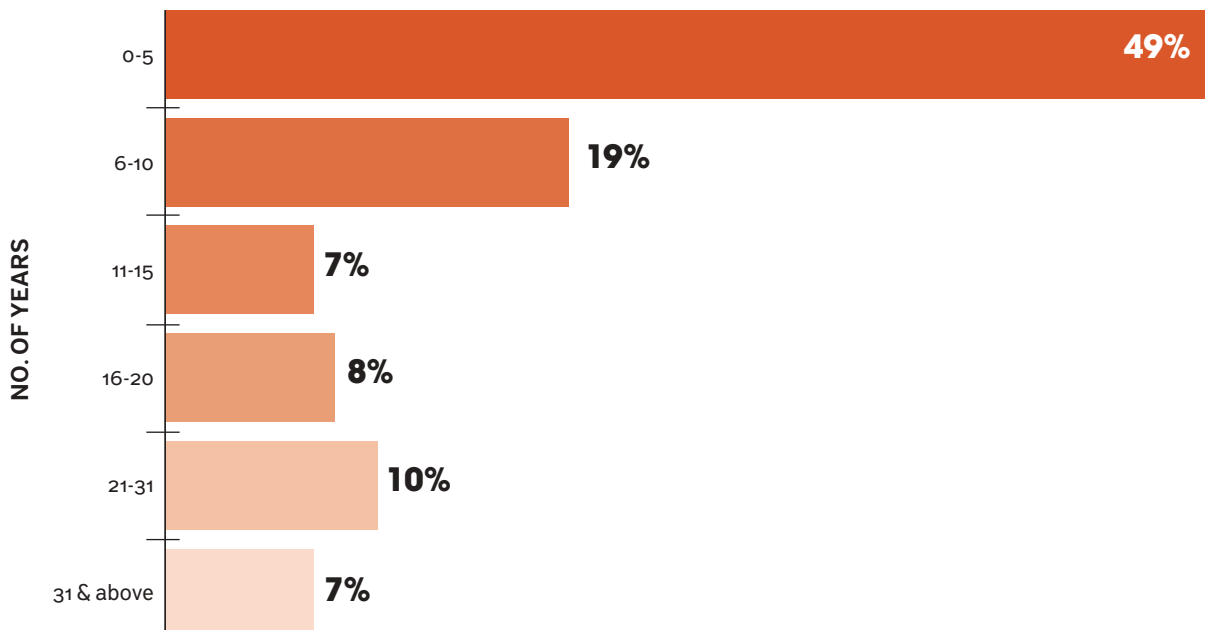
CSE TALENT POOL

Talent Pool demonstrates a diverse set of skills and educational backgrounds across departments



YEARS IN CSE

Years in CSE highlights strong staff retention, with a good mix of experienced and newer employees, ensuring continuity and innovation





CLEAN AIR AND SUSTAINABLE MOBILITY PROGRAMME

The programme's policy interventions in air quality management gained significant traction during the year, particularly towards advocacy for strengthening the National Clean Air Programme (NCAP) and stringency in National Ambient Air Quality Standards (NAAQS), and for improved strategies to track actions and assess air quality trends. The programme prioritised PM_{2.5}, a highly harmful pollutant, by informing policy to set stringent emission control benchmarks on combustion sources, promoting compliance and robust monitoring, and encouraging inter-agency coordination to ensure effective implementation across states and cities. This holistic approach recognises the complex, multi-sectoral nature of air pollution, which affects industries, transport, and construction.

Engagements with the civil society organisations, community at large, and through increased public awareness and engaging with NCAP institutional framework including Ministry of Environment, Forest and Climate Change (MoEF&CC), the Finance Commission, Central Pollution Control Board, Commission on Air Quality Management for NCR and adjoining areas – helping to steer NCAP towards targeting PM_{2.5} emissions from diverse sources such as vehicles, industries,

and waste streams (road dust, construction, and demolition debris). A key achievement was integrating a regional airshed management approach into NCAP, especially for the Indo-Gangetic Plain—a heavily polluted region spanning multiple northern Indian states.

The programme also refined performance-linked funding and ranking metrics to evaluate NCAP implementation. Continuous data analysis, documentation of best practices, and capacity building among State Pollution Control Boards (SPCBs), transport departments, bus corporations, urban local bodies, and consultants elevated policy discussions to the highest decision-making levels, promoting strategic coordination across departments.

Sub-national / State Interventions

The programme collaborated with governments and pollution control agencies in Delhi NCR, Haryana, Punjab, and West Bengal to enhance air quality management and evaluation frameworks. It facilitated sector-specific ‘deep dives’ to promote convergence in sectoral actions and funding for clean air goals and championed multi-sector implementation and institutional alignment at the city level. A key focus was aligning state-level clean air efforts with climate action plans to maximise co-benefits in sectors such as industry and transport.

In Delhi/NCR, CSE's campaign regularly disseminated air quality trends, emphasising links between pollution, meteorology, and geography, with a focus on the transport sector. These efforts led to over 250 media reports and widespread social media engagement. Notably, the Supreme Court of India acknowledged CSE's research, issuing directives to the Delhi NCR governments on pollution control, including the ban on polluting Diwali firecrackers, and scheduled a hearing on vehicle pollution following CSE's report on the mobility crisis.

CSE was approached by the Delhi government and Haryana's Environment Department to provide inputs for seasonal pollution mitigation. It now supports Haryana in NCAP implementation and trains newly inducted officials and district magistrates. Additionally, CSE collaborates with the Haryana Directorate of Local Bodies to manage construction and demolition (C&D) waste. In Alwar, Rajasthan, CSE developed a hyper-local, sector-wise clean air action plan based on IIT-Delhi's pollution hotspot assessment.

CSE was appointed as an expert member of the core group for West Bengal's State Action Plan on Climate Change (2021–2030), following its submission of a comprehensive multisectoral action plan. It also developed the state's Clean Air and Climate Change Action Plans with a co-benefit strategy. CSE trained 16 departments to build technical and regulatory capacity. The state plan was presented to the MoEF&CC High-Level Committee and set as a benchmark for other states. West Bengal has implemented several CSE recommendations on parking, C&D waste, solid waste in the Kolkata Metropolitan Region, and the use of remote-sensing emission devices in non-attainment cities. The Transport Department has also consulted CSE on state EV policy implementation.

The Rajasthan State Pollution Control Board invited CSE to revise its Clean Air Action Plan. The revised plan was submitted to a high-level steering committee, approved by the Central Pollution Control Board, and passed to the state pollution board for implementation.

In the area of on-road emissions, CSE pushed for remote sensing device (RSD) implementation in Delhi-NCR, in line with Supreme Court directives. CSE's advocacy also influenced Odisha's decision to phase out old government vehicles as part of a broader scrappage and electrification strategy.

Urban Transport Research and Interventions

As part of its sustainable urban transport efforts, CSE conducted a detailed study titled Anatomy of Delhi's Congestion, examining travel costs, public transport networks, decongestion strategies, and parking policies. CSE also developed case studies and provided technical support in Delhi and Jaipur, including feasibility analyses for Low Emission Zones (LEZs) in central Delhi and Jaipur's heritage zone. These efforts promoted a comprehensive approach to mobility planning, including demand management, multi-modal integration, and improved access for non-motorised modes such as walking and cycling.

Electric Mobility

The programme emphasised developing roadmaps for electric mobility and e-vehicle technology. Research focused on accelerating the Zero Emission Vehicle (ZEV) transition and preparing state-level ZEV mandates. It analysed the feasibility of a ZEV mandate in light of current electrification levels in OEM portfolios and the corporate average fuel efficiency (CAFÉ) Stage III and IV norms from the Bureau of Energy Efficiency.

CSE organised a national workshop on EV technology, including battery management systems for improved safety and performance, regulation of EV battery reuse and recycling, retrofitting of old vehicles, and promoting battery swapping and interoperability. CSE's work on fuel economy was cited by the International Energy Agency and informed India's road transport transition framework.

Global Programme

The Clean Air and Sustainability Programme has made significant progress in supporting integrated clean air and climate initiatives in Nigeria and Kenya. In both countries, CSE has worked on fleet electrification, clean vehicles, and sustainable mobility strategies, fostering strong partnerships with implementation agencies.

CSE has also engaged in cross-regional platforms across Africa and Asia, sharing South-South perspectives on short-lived climate pollutants and building global coalitions for clean air. In Kenya, CSE collaborated with the National Environment Management Authority (NEMA) to support air quality and vehicle emission policy reforms. It facilitated knowledge exchange through meetings and workshops on vehicle inspection, testing, and old vehicle management, and helped shape Kenya's clean air policy roadmap.

In Nigeria, CSE partnered with the Federal Ministries of Environment and Transportation, as well as NADD and DRTS, offering ongoing technical support. Officials participated in CSE's Pan-Africa network activities and workshops.

Through its Pan-Africa Network of Regulators for Clean Air Solutions, the programme brought together representatives from 17 African countries for four regional online meetings and a regional consultation in Nairobi. These forums enabled knowledge exchange, highlighted successful initiatives, and strengthened regulatory capacity. CSE's Africa-related publications were well received for their content and insights from India's experience.

INDUSTRIAL POLLUTION PROGRAMME

In 2024–2025, the programme made significant strides in addressing industrial pollution in India and across select countries in Africa. With a comprehensive strategy that combines regulatory strengthening, sector-specific decarbonisation, circular economy promotion, and international collaboration, the programme achieved wide policy impact. This includes the adoption of monitoring standards, regulatory reforms, technical support to governments, and the mainstreaming of circularity and sustainability principles into industrial policy. Challenges remain, particularly in engaging smaller industries and pushing for ambitious decarbonisation pathways, but the programme has laid strong foundations through its research, stakeholder engagement, and policy advocacy.

The programme's multi-pronged strategy is designed to address several challenges facing Indian industry – from strengthening environmental governance and pollution regulation to pushing for decarbonisation pathways for specific industry segments and, more recently, focusing on industrial circularity.

On industrial air pollution, the programme is geared towards preparing clean air pathways for industrial sectors that contribute to pollution across the country. Several key recommendations from the programme have been incorporated into national pollution regulation norms and standards. For example, India's premier scientific agency, the Council of Scientific and Industrial Research–National Physical Laboratory (CSIR–NPL), developed a Continuous Emission Monitoring Systems (CEMS) certification system in August 2024 that incorporated core recommendations from CSE's report.



On industrial circularity, one of the key research outputs of the programme was the ‘Compendium of Good Practices for Industrial Circularity’, released in November 2024. The compendium received considerable policy uptake – for example, India’s revised Solid Waste Management Rules incorporated several of its recommendations. A follow-up workshop brought together sector experts for wide-ranging discussions on circularity themes, including the use of waste as raw material and fuel, the co-benefit approach to waste management, and its links with decarbonisation and pollution reduction.

Building on previous studies focused on the steel (2022) and cement (2023) sectors, the programme in 2024–2025 focused on decarbonising coal thermal power plants, with a dedicated report due in June 2025. A key challenge continues to be persuading industry to accept ambitious decarbonisation pathways, as many are hesitant to adopt stringent targets.

A particular concern is bringing micro, small and medium enterprises (MSMEs) on board, especially those operating in high-emission value chains. These industries often lack data transparency, access to finance, and capacity to adopt green technologies—challenges that are symptomatic of the broader difficulty in greening smaller industrial operations. However, the programme’s research on common boilers for small industries as a pollution control solution has been widely accepted. The Commission on Air Quality Management (CAQM) assigned CPCB as the nodal agency for developing model guidelines for common boilers. States within the National Capital Region (NCR) have also been directed to formulate implementation plans based on these guidelines.

Further, CSE’s report on the environmental status of coal-based thermal power plants in the NCR—which included analysis of PM, SO_x, and NO_x emissions—has added to the growing body of evidence supporting the need for stricter emission norms. The programme continues to track SO_x norms compliance, especially in light of ongoing legal and regulatory challenges surrounding their implementation.

On environmental governance, CSE released a report titled ‘Strengthening Business Responsibility and Sustainability Reporting (BRSR)’ in May 2024. Presented in a well-attended webinar with participation from regulators, industry leaders, and SEBI, the report’s key recommendations have been accepted and are currently under adoption. Additionally, the programme conducted capacity-building sessions for 550 participants, including representatives from industry, government, regulatory bodies, and private enterprises.

During CSE’s Climate Week, the programme organised an ‘Energy and Industry’ day, releasing an anthology of key research findings and dialogue outcomes. These focused on best practices and trends in the steel, cement, and coal power sectors, offering comparative insights to guide domestic policy and industry transition efforts.

Global Programme

The programme continued its focus on its pan Africa–Asia initiative, aimed at strengthening the regulatory capacities of environmental institutions for more effective compliance and enforcement. In many African nations, existing Environmental Impact Assessment (EIA) and Environmental Audit (EA) systems are not data-driven, limiting their effectiveness in tracking and managing industrial pollution.

This year, the programme extended technical assistance to regulatory agencies in select African countries to help develop data-driven EA guidelines and manuals. In Nigeria, CSE supported the National Environmental Standards and Regulations Enforcement Agency (NESREA) in revising its EA guidelines. This involved multiple rounds of consultations and culminated in the release of

revised guidelines and structured training sessions for 350 key stakeholders.

Aligned with its focus on data-driven regulation, the programme also worked with regulators on waste circularity. Most African countries lack inventories on the types and quantities of industrial waste generated, resulting in widespread dumping and missed opportunities for reuse and recycling. Pan-Africa workshops organised by CSE underscored the need for creating such inventories. A report on the potential for industrial waste in circularity was well received by regulatory bodies, and both NESREA (Nigeria) and NEMA (Uganda) have formally requested CSE's support in building waste inventories and creating strategies for resource efficiency and circular economy implementation.

As part of ongoing support for Lake Victoria clean-up efforts, the programme prepared a toolkit for regulators containing detailed methodologies for collecting comprehensive baseline water quality data. This data will inform the State of Basin Report, developed by the Lake Victoria Basin Commission in partnership with GIZ.

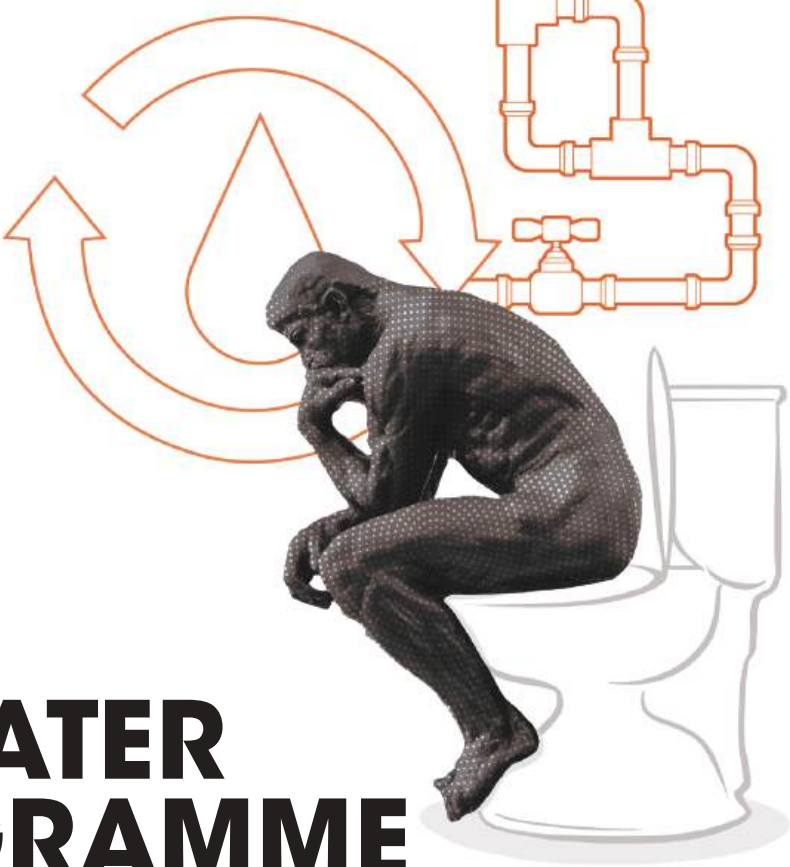
As one of the fastest-growing economies, India faces the dual challenge of achieving industrial growth while limiting emissions. Power and industry together contribute the majority of the country's GHG emissions. Sectors such as steel, cement, and aluminium are expected to double their production by 2030, alongside an increase in power demand beyond current forecasts. Decarbonising these sectors is an urgent and complex task.

While CSE's decarbonisation efforts have primarily focused on Indian industry, the programme has also actively contributed to global dialogues, sharing experiences and lessons from India while learning from international trends. Since COP27 in Egypt, CSE has tracked and reported on several key global initiatives in industrial decarbonisation, such as:

- Industrial Transition Accelerator,
- Global Matchmaking Platform,
- LEADIT (Leadership Group for Industry Transition) – a joint initiative between India and Sweden,
- First Movers Coalition,
- Pledge on doubling energy efficiency and tripling renewable energy.

CSE also participated in high-level forums, including a session on Just Industry Transition hosted by the Wuppertal Institute, Lund University, and Agora during COP28 in Dubai.

A major milestone this year was the publication of the report 'Indian Carbon Markets: Pathways for Effective Mechanism' in August 2024. The report analysed carbon market structures in the EU, South Korea, and China, and included expert inputs from each region. The Bureau of Energy Efficiency (BEE) invited CSE to join a technical committee to deliberate on implementation challenges and monitoring, reporting and verification (MRV) systems in light of the EU's Carbon Border Adjustment Mechanism (CBAM).



WATER PROGRAMME

CSE's Water Programme is strategically aligned with the government's initiatives for water pollution abatement, focusing on inclusive sanitation, faecal sludge management, and the reuse of treated water and biosolids. Our work primarily targets cities along the Ganga River basin, with particular emphasis on Uttar Pradesh (UP), India's largest and most populous state.

The programme continues to push for water-sensitive urban design and planning approaches with implicit priorities on equity and justice in water and sanitation provisioning and access. Strong partnerships with key line ministries in partner countries provide a foundation for continued support ranging from research and policy framing to capacity building and technical implementation support.

CSE has established strong institutional partnerships, including a Memorandum of Understanding (MoU) with the UP state government and empanelment as a technical support entity for the Government of India's flagship National Mission on Clean Ganga (NMCG). These partnerships enable us to work across the entire sanitation value chain, ensuring safe sanitation provisioning aligned with government priorities.

Key Achievements and Impact

Research and Knowledge Dissemination

Our research and capacity-building initiatives have successfully brought focus to the reuse and recycling of treated water and sludge. The flagship study "Waste to Worth" covered UP's initiatives on treated water reuse planning and included a comprehensive city-level toolkit designed around the Safe Reuse of Treated Water framework.

The programme's knowledge products have demonstrated exceptional reach and engagement:

- **25,000 downloads** of programme publications, indicating strong national and local engagement

- **1,066,516 total outreach** through blogs, cover stories, and various initiatives
- **5,384 downloads** of the climate-focused water toolkit for unplanned settlements

Policy Influence and Institutional Strengthening

CSE has been included in the working committee of UP state's Reuse of Treated Water Policy, playing a key role in shaping the policy framework, which is now in draft stage. This represents a major step towards institutionalising treated water reuse across the state.

Three additional publications are planned covering sludge drying technology and economics, co-composting, and a state-level guidance note on biosolids, which will further strengthen our leadership in biosolids reuse nationally and in UP.

Faecal Sludge and Septage Management (FSSM) in Uttar Pradesh

Technical Assistance and Infrastructure Development

CSE's technical assistance for FSSM in Ganga Basin towns under NMCG is designed to support the UP State Department of Urban Development (DoUD) in scaling up FSM across small and medium towns. Key achievements include:

- Implementation support for a 10 KLD FSTP in Chunar and a 20 KLD co-treatment plant in Bijnor
- Programme facilitation for national-level initiatives including AMRUT 2.0, Swachh Bharat Mission 2.0, and NMCG
- Establishment of a programme support unit in Lucknow working closely with the Directorate of Local Bodies

Capacity Enhancement and Operationalisation

In 2024-25, CSE focused on enhancing capacity utilisation and treatment efficiency of 59 FSSM plants across 56 cities in Uttar Pradesh. Significant efforts were made to:

- Operationalise plants and establish institutional frameworks
- Develop city-level FSSM bye-laws for effective operation
- Share technical data from CSE's laboratory with city authorities
- Initiate pilot projects for reuse of treated outputs

Recognition and Knowledge Exchange

UP has emerged as a leader in FSSM in northern India. This leadership was recognised through the facilitation of a **12-member delegation** from Ethiopia's Ministry of Water and Energy in July 2024, who visited to understand UP's efforts in safely managing faecal sludge and septage.

Beyond UP, CSE provided policy and training support to Rajasthan state officials on Shit Flow Diagrams (SFDs) for sanitation master planning and launched a pilot SFD in collaboration with Unnati, an NGO.

Capacity Building Hub

CSE has established itself as a nationally recognised capacity building hub for sustainable water management, sanitation, and faecal sludge management. In 2024-25:

- **Eight trainings** were conducted for **350 participants** focusing on citywide water and sanitation management

- Teaching-learning materials were updated, including MOUNT 2.0 and C-GINS platforms
- **502 officials** from **32 states and Union Territories** were trained on various topics including greywater management, groundwater recharge, and lake rejuvenation

Special training programmes were designed for specific contexts, such as greywater management for the Department of Rural Development, Ladakh, addressing the unique challenges of high-altitude desert regions.

Global Programme Initiatives

International Partnerships and Technical Assistance

The programme has successfully supported sustainable prioritisation of appropriate Faecal Sludge Management infrastructure in national and bilateral projects across multiple countries. Key partnerships include:

Ethiopia: Collaboration with the Ministry of Water and Energy (MoWE) in 2023-24 involved technical assistance for developing a long-term strategy for sustainable FSM infrastructure. CSE hosted a high-level delegation to India and conducted trainings that equipped officials for effective FSSM implementation.

South Africa: Building on years-long partnership with the Water Research Commission (WRC), CSE continued supporting the country's transformative National Faecal Sludge Management strategy. The Department of Water and Sanitation has proposed a three-year collaboration with CSE for technical assistance in sanitation service chain planning and capacity building.

Bangladesh: The partnership with WaterAid focused on reuse aspects of Faecal Sludge Treatment Plants. A study was published on the current state of FSTPs based on data from three plants, though further engagement was disrupted due to civil unrest.

Regional Expansion and Network Building

CSE's knowledge exchange platform, established following the 2023 Policy and Practice Forum, currently hosts over **400 water sector practitioners** discussing water and sanitation challenges. The programme's engagement now extends to **13 countries**, with a scoping study being conducted in several Sub-Saharan African countries to analyze sanitation frameworks and identify improvement opportunities.

Rural Sanitation and Safe Disposal Programme

The rural programme conducted comprehensive trainings for government officials, civil society members, researchers, and practitioners on critical topics including greywater management, groundwater recharge, aquifer mapping, and lake rejuvenation.

Global South Partnerships

The programme successfully contributes to policy and programme strengthening in focus countries including Tanzania, Uganda, and Nigeria. Key partnerships with nodal agencies have secured firm buy-in for policy formulation and implementation support:

Nigeria: Collaboration with the Federal Ministry of Environment

Uganda: Partnership with the Ministry of Water and Environment, leading to a draft Bill on Rainwater Harvesting now before Parliament

Tanzania: Ministry of Health has requested CSE's assistance in developing milestones for universal basic sanitation as part of the national campaign 'Mtu ni Afya'
In 2024-25, **1,128 participants** across the global South attended CSE trainings and workshops, including **426 government officials** from India and other countries.

Research and Innovation

Environmental Monitoring

Research initiatives included extensive mapping of plastic leakage hotspots to measure macro and micro plastic pollution entering the marine environment through the Yamuna river, contributing to understanding of water quality challenges.

Climate-Resilient Solutions

Building on climate-focused water and wastewater studies in Sangam Vihar (a large unplanned settlement in New Delhi), CSE developed a comprehensive toolkit offering structured guidance for informed decision-making in water supply and sanitation for unplanned settlements.

Outreach and Communication

The programme maintained active engagement with its community of peers through regular postings on platforms including Water Digest, SuSaNa, NFSSM Alliance, and IWA. Social media presence across Twitter, Facebook, LinkedIn, and WhatsApp groups ensured broad reach and engagement.

New case studies were continuously uploaded to MOUNT 2.0 (an aggregator platform for technologies and solutions for non-sewered areas) and C-GINS, maintaining up-to-date knowledge resources for practitioners.

CSE's compendium "Back from the Brink" has highlighted successful programs and missions for the restoration of lakes and water bodies across the nation. This work has been appreciated by various departments, researchers, and policymakers. Lakes and water bodies are once again being recognised as a solution to protect urban and rural centers from droughts and floods in our climate-vulnerable world.



CLIMATE CHANGE PROGRAMME

Reducing Vulnerability and Advancing Equity in Global Climate Action

CSE's Climate Change Programme is at the forefront of shaping climate action that is equitable, ambitious, and rooted in justice for the most vulnerable. With a strong presence in global negotiations, grounded research, and deep engagement with civil society, media, and policymakers, the programme continues to bridge the gap between diplomacy and development, advocating for climate solutions that serve the needs of the Global South.

In 2024–25, the programme strengthened its leadership in four strategic areas—climate finance, carbon markets, trade and climate, and equity in mitigation—while expanding its influence at high-level multilateral forums such as UNFCCC, World Bank, IMF, G20, and BRICS. Through media engagement, training, and global partnerships, CSE amplified voices often missing from the climate narrative and pushed for inclusive, systemic change.

1. Climate Finance: Advocating for Ambition and Accountability

With climate finance emerging as a central issue on the global stage, CSE focused on:

The New Collective Quantified Goal (NCQG): CSE's position paper called for an ambitious and fair finance goal at COP 29, highlighting the expectations of developing countries.

Article 2.1(c) of the Paris Agreement: CSE's analysis dissected global financial alignment with climate goals. A closed-door consultation, co-hosted with ODI Global, led to a formal submission to the UNFCCC Sharm El-Sheikh Dialogue.

Key international engagements included:

- Invited to a strategy meeting in Rome (Jan 2025) by ECCO and partners
- Participated in a workshop at SOAS University, London, on sustainable finance
- Delivered an online training course on climate finance for 113 global participants

2. Carbon Markets: Promoting Regulation and Community Benefit

Expanding on its 2023 “Discredited” report on India’s voluntary carbon market (VCM), CSE made significant strides in 2024–25:

- Released a scoping study on VCMs in Africa, presented at a media briefing in Nairobi to support local watchdog journalism
- Launched a first-of-its-kind dashboard on India’s VCM to enhance transparency
- Submitted inputs to the UNFCCC Supervisory Body on Article 6.4

These efforts aim to make carbon markets more accountable, equitable, and transformative for communities.

3. Trade and Climate: Defending Southern Interests

CSE’s report on the EU Carbon Border Adjustment Mechanism (CBAM) offered a robust Global South perspective, with the following key milestones:

- Presented to an inter-ministerial panel upon invitation at India’s Ministry of Commerce
- Invited to lecture at Columbia University’s Sustainability Management Programme
- Participated in an international workshop in London, hosted by Global Justice Now and Power Shift Germany

This work positioned CSE as a leading voice on the intersection of trade and climate justice.

4. Equity in Mitigation: A Fair Approach to Fossil Fuel Phaseout

To ensure a just global energy transition, CSE published a roadmap for equitable fossil fuel phaseout, identifying which countries have the responsibility and capacity to lead.

Highlights include:

- Shared the report with the incoming Brazilian COP 30 Presidency
- Participated in a CSO workshop in New York (Sept 2024) hosted by Oil Change International and the Global Gas and Oil Network

This research has elevated equity, backed by evidence, as a key consideration in mitigation strategies at the UNFCCC.

Global Negotiations: Strong Presence at COP 29

CSE was deeply engaged at COP 29 in Baku, Azerbaijan, and SB60 in Bonn:

- Produced pre-and-post live online briefings on the Bonn conference
- Moderated the UNFCCC dialogue on Article 2.1c in Bonn

- Spoke at multiple side events, building pressure for Global South priorities
- Produced detailed factsheets, a pre-COP 29 briefing webinar, and video explainers for public understanding

A six-member CSE-DTE team provided real-time coverage, engaged with civil society organization networks on the ground, met with negotiators and political leaders, and brought insights back to public and policy audiences. Media engagement was extensive:

- 1.1 million page views for articles
- 1.75 million views for short videos

CSE Climate Week: Mainstreaming India's Climate Lens

In October 2024, CSE hosted its first-ever Climate Week, bringing together experts to examine decarbonisation and development from an Indian and Global South perspective.

Held at the Nimli campus, the four-day event focused on:

- Climate-resilient agriculture
- Energy transitions
- Industrial and transport decarbonisation
- Urban heat resilience

The initiative helped shape a national conversation on aligning development goals with climate action.

RENEWABLE ENERGY PROGRAMME

Towards a Just, Decarbonised and Inclusive Energy Future

Through a multi-pronged approach—spanning local implementation, regional collaboration, and global advocacy—CSE’s Renewable Energy Programme is reshaping energy systems to be cleaner, fairer, and more resilient. At its core is a commitment to people-centric solutions that align climate goals with equitable development. From decentralised systems and repowering old infrastructure to influencing national and international policy, the programme continues to drive energy transitions that prioritise inclusion, sustainability, and long-term resilience.

In 2024–25, CSE deepened its focus on repowering legacy wind infrastructure, advancing decentralised renewable energy (DRE), and connecting clean energy efforts with development outcomes—particularly in the Global South.

Wind Repowering: Optimising Legacy Infrastructure

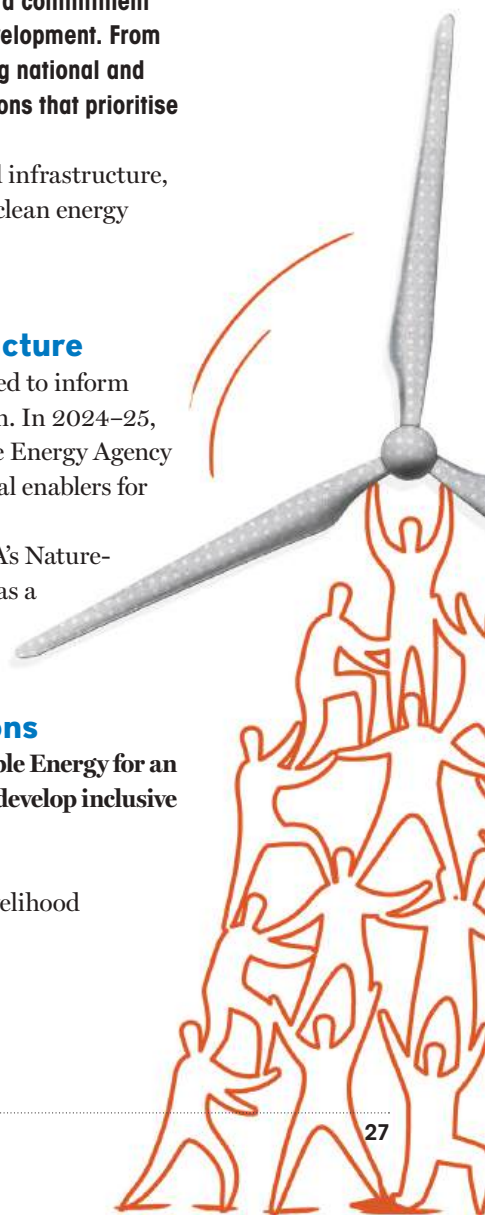
CSE’s pioneering work on wind repowering in Tamil Nadu continued to inform national and international dialogues on infrastructure optimisation. In 2024–25, Tamil Nadu’s model was showcased at the International Renewable Energy Agency (IRENA) Global Forum, highlighting policy, financial, and technical enablers for scaling repowering across ageing wind sites.

India’s wind repowering experience was also featured in IRENA’s Nature-Positive Energy Infrastructure initiative, further establishing CSE as a knowledge partner on just energy transitions—critical in the global push to triple renewable energy capacity by 2030.

National Dialogue on Equitable Green Transitions

In December 2024, CSE hosted the National Dialogue on Renewable Energy for an Equitable Green Transition, convening diverse stakeholders to co-develop inclusive and resilient renewable energy pathways. Key themes included:

- Decentralised Renewable Energy (DRE) for last-mile access
- DISCOM-led business models, micro-financing, and women’s livelihood integration



- Issues in utility-scale solar and wind, such as PPA delays, hybrid tariffs, and repowering hurdles
- Systemic concerns around land-use conflicts, infrastructure siting, and end-of-life waste management

The dialogue reinforced the need for inter-ministerial convergence and policy coherence to scale clean energy in a socially equitable manner.

Decentralised Renewable Energy (DRE): Powering Access and Livelihoods

DRE continues to be a strategic focus, offering scalable solutions for energy access, livelihood generation, and climate resilience.

In 2024–25, the programme:

- Released the report: “Implementation Challenges of the PM-KUSUM Scheme”, exploring decentralised implementation models and flexible payment systems for farmers
- Conducted two capacity-building workshops on solar mini-grid design and operation for government and grassroots practitioners
- Convened a national workshop and dialogue series on integrating DRE into development planning frameworks
- Field-based documentation highlighted impactful case studies such as:
 - The all-women biogas cooperative in Gujarat
 - Emerging compressed biogas (CBG) models in Uttar Pradesh

Global Programme: Supporting the Global South

CSE’s global energy initiatives aim to drive equitable, climate-resilient transitions in emerging economies, particularly across South Asia and Sub-Saharan Africa. The programme combines technical research, policy analysis, capacity building, and strategic communication to promote energy solutions that are both environmentally sound and socially inclusive.

Regional Assessment of RE Commitments and NDCs

In 2024–25, the programme began a scoping study to map implementation challenges related to renewable energy targets linked to NDCs across South Asia and Sub-Saharan Africa. This ongoing assessment—due for publication in 2025—examines enabling policy frameworks, financing mechanisms, and practical constraints to clean energy deployment. Interim findings have already informed bilateral consultations with regional governments and development partners and will guide the design of tailored intervention strategies for the Global South.

Presence at Global Forums

CSE maintained a strong international presence in 2024–25:

- Featured contributions on wind repowering at IRENA forums
- Presentation of DRE research at cross-learning events hosted by multilateral agencies and civil society networks
- Engagements with academic institutions and regional energy networks
- The programme also amplified its message through digital media, including:
 - The documentary “The Road to 500 GW”, aired on The Sunita Narain Show
 - The Earth Day 2025 film, “Hope for Our Pale Blue Dot”, viewed by over 1 million people globally

SUSTAINABLE BUILDINGS AND HABITAT PROGRAMME

The Habitat Programme through its focused initiatives pushed India towards sustainable urban development in 2024–2025. With climate resilience, thermal comfort, energy-efficiency and circular economy at the heart, the programme implemented strategic interventions for heat management in cities and buildings for thermal comfort and energy savings as well as greening of the construction sector through construction & demolition waste and dust management. Its comprehensive, multi-disciplinary, evidence-based and engagement-focused approach successfully mainstreamed the principles of inclusive, resilient and sustainable cities.



Key Achievements

Circular Economy through Construction and Demolition Waste

The programme pushed for recycle and reuse of C&D waste and dust pollution abatement at a national level and worked closely with urban local bodies to enable a supportive ecosystem for this. This work facilitated benchmarking of recycling plants across India and their economics to draw strategies for scaling up recycling and effective utilization of the products. This also included performance evaluation of C&D waste management ecosystems and gap assessment. This research founded the core of public engagements and capacity building of municipal officers, regulators, construction and other built environment professionals which has in turn influenced policy especially in model states – Rajasthan, West Bengal and Delhi NCR. The initiative promoted green construction practices by institutionalizing circularity, resource efficiency and emission control.

Climate Resilient Cities

As cities face increasing climate risks particularly heatwaves and urban flooding, they need planning tools to quantify heat stress, impact on vulnerable communities and possible strategies. The programme deployed a toolkit with a framework scribing these aspects to empower and inform urban local bodies, planning bodies, practitioners and policymakers to influence practice, policy and education. This toolkit is a first step to integrate climate considerations into routine planning decisions. The climate framework for cities in this toolkit has been adopted by West Bengal and is being prepared for Rajasthan, Delhi and cities in Maharashtra.

Thermal Comfort for Energy Savings

The programme has built a campaign called Cool-It that focuses on increasing public awareness on thermal comfort. The campaign aims to guide all to enable thermal comfort in homes, building and cities through affordable solutions. Under this, the programme has created a community where individuals can learn about the different facets of heat and the practices for its mitigation such as improving building envelope performance, enhancing natural ventilation, thermally-efficient materials and low-carbon cooling interventions. Several knowledge resources have been prepared to build guidance on this. This not only empowers citizens but also reinforces thermal comfort as a demand and necessity in the society to contribute to India's net-zero commitments.

Implementation and Impact

The programme through a rounded approach of research, outreach and advocacy and advanced trainings has enhanced technical knowledge and capacity of regulators, practitioners, policymakers and the wider community on the pressing issues of thermal comfort, circular economy, clean air and climate proofing of cities. It has extended policy support through contributions to state action plans and other regulatory systems in the states of West Bengal, Rajasthan, Delhi NCR among others. The programme has worked closely with urban local bodies and streamlined their C&D waste management ecosystems for efficacy and deeper impact. This ground-work has not only demonstrated effectiveness but also helped achieve planned outcomes.

Key Publications Summary (2024–2025)

1. Planning and Designing Habitat in Climate-Risked Times: Heat Toolkit

A technical toolkit developed for urban planners and local governments, this document provides multi-scalar heat vulnerability assessment and management techniques. It includes geospatial mapping tools, vulnerability profiling, and deep-dive breakdown of the built environment to understand its relationship with heat. The toolkit is backed by ground investigation from cities such as Pune and Kolkata, and offers templates for integrating heat action with climate adaptation and mitigation efforts in cities and mainstream planning mechanisms.

<https://www.cseindia.org/planning-and-designing-habitat-in-climate-risked-times-heat-toolkit-12566>

2. The Cool School Manual

This manual equips school authorities and decision-makers with practical solutions to protect children from the growing threat of extreme heat. Based on a child's routine and exposure, the manual presents a framework of infrastructure and mobility interventions, which offers low-cost, passive design strategies, such as cool roofs, shading solutions, and improved ventilation, to make school environments thermally comfortable and climate-resilient. Drawing from demonstration projects across diverse geographies, the report showcases scalable interventions that can be easily replicated. A step-by-step checklist helps school management assess current vulnerabilities and take immediate action to safeguard students' health, learning, and well-being.

<https://www.cseindia.org/the-cool-school-manual-12591>

3. Rubble Recast: Navigating the Road to Efficient C&D Waste Recycling

India currently has over 34 operational C&D recycling plants, with more than 35 additional facilities planned in the near future. However, there is still limited understanding of the financial aspects, challenges, and viability of setting up and operating these plants. 'Rubble Recast' aims to bridge that gap by providing practical insights for municipalities, policymakers, plant operators, and other stakeholders involved in C&D waste management. Based on a comparative study of 16 recycling plants across India and interviews with key stakeholders, it examines the financial feasibility, common challenges, operational processes, and potential policy measures needed to build a strong and sustainable C&D recycling ecosystem. The findings highlight how these facilities can function effectively, even with minimal government support.

<https://www.cseindia.org/rubble-recast-navigating-the-road-to-efficient-c-d-waste-recycling-12386>

4. Closing the Material Loop – A Value and Trade Chain Assessment for Jaipur City

This publication maps the flow of construction materials within Jaipur's urban system. With a waste processing plant of 300 TPD capacity, the city currently generates 447 TPD of C&D waste while demanding over 28,000 TPD of fresh materials. The study outlines key strategies to minimize the construction sector's carbon footprint—such as reducing dependence on virgin materials, enhancing reuse of C&D waste, and overall fostering greening of the construction value & trade chain.

<https://www.cseindia.org/closing-the-material-loop-a-value-and-trade-chain-assessment-for-jaipur-city-12586>



SUSTAINABLE FOOD SYSTEMS

INDIA PROGRAMME

The programme's research focus in India was livestock, aquaculture and pharmaceutical sectors. The team engaged through workshops/roundtable meetings with poultry and fisheries sector stakeholders to understand how preventive measures can reduce antibiotic misuse in food-animal systems. It also successfully engaged with the Indian pharmaceutical industry and state pollution control boards from the western and southern regions to discuss challenges and possibilities in managing antibiotic pollution in effluents from manufacturing industry and common effluent treatment plants.

On agroecology and agri-climate connections, the focus was to engage with the community and experts for discussing connections, next steps and build capacity. A wide range of experts and community stakeholders from across the country were brought together during CSE's 'Climate-week', wherein for two-days challenges and possibilities were discussed related to agro-ecology, agri-insurance, farmer producer organisations, weather based agro-advisory and Greenhouse gas emissions and mitigation potential. A three-day training programme on agri-climate connections was also conducted for civil society organisations working in this space largely from north and central India.

GLOBAL PROGRAMME

The programme's global role on antimicrobial resistance (AMR) has witnessed growth in areas being worked upon in previous years, but with a clear focus to influence the 'Political Declaration of the High-level Meeting (HLM) on Antimicrobial Resistance'

which came up at the United Nations General Assembly (UNGA), 2024. The endeavor was to inform the HLM at UNGA, with priorities of low-and middle-income countries (LMICs). Key takeaways based on consultation and convening with African, Asian and global experts were outlined and disseminated widely through social media and engagement with global organisations and civil society groups. Specifically, the permanent representatives of several LMICs at the United Nations were informed during the negotiation and drafting stages of the political declaration.

These takeaways were related to financing of AMR One Health national action plans as well as research and development for new antibiotics; the adoption of preventive approach for food systems transformation; and need for flexibility for LMICs to set their own AMR-related targets at the national level. In addition, the position/perspectives of Global Leaders Group (GLG) on AMR were adequately informed as CSE is a member of the GLG.

This was a consequential year for the programme in terms of visibility, scaled up ambition and presence and engagement on global platforms to push Southern perspectives on AMR. The agenda of ‘prevention’ across the One Health sectors, and specifically in the food-animal production systems now receives a favorable global recognition with broad pathways outlined (e.g. through vaccination, alternatives, diagnostics and better animal rearing) in the political declaration. Importantly, the programme has contributed to the broad global consensus on how to tackle the ‘triad’ of problems the need to phase out antibiotic use as growth promoters, their prophylactic use in the absence of disease, and animal use of medically important antibiotics. While there are some global AMR-related targets set, member states are given the flexibility to set their own based on local context, capacity and resources. Commitments are renewed for equitable access to effective antibiotics, sustainable financing to national AMR action plans and mobilisation of new and existing funds for antibiotic development.

The team continued to engage at global forums/workshops/roundtables such as the HLM on AMR at UNGA 2024, fourth global high-level ministerial conference on AMR at Jeddah, Saudi Arabia on implementation of the commitments outlined in the political declaration approved at UNGA, meetings of the GLG on AMR and those organised by the World Health Organisation (WHO), Food and Agriculture Organisation (FAO) and United Nations Environment Programme (UNEP). During the year, the team as part of expert/technical working groups and contributed to global reports/guidances, such as the WHO-UNEP’s Guidance on wastewater and solid waste management for manufacturing of antibiotics.

The World AMR Awareness Week (WAAW) held during Nov 18-24 is a permanent event in CSE’s events calendar, which is marked by engagements with global experts, webinars, reportage, social media outreach etc. WAAW 2024 was a big success in terms of creating awareness among different stakeholders on multiple aspects of AMR.

SOLID WASTE MANAGEMENT

The Solid Waste Management programme focuses on developing effective and affordable municipal and plastics waste management solutions for the Global South. Through strategic partnerships, capacity building, and policy advocacy, we work to reduce mismanaged waste while promoting circular economy principles across urban systems. Our comprehensive approach addresses the entire waste value chain, from upstream production to downstream management, ensuring sustainable and inclusive solutions for cities and communities.

The programme continues to strengthen its integrated approach, combining local implementation with global advocacy to create scalable solutions for waste management challenges. Our work demonstrates the critical importance of inclusive, participatory approaches that recognise the full spectrum of stakeholders in the waste value chain while addressing the urgent need for sustainable waste management systems in the Global South.

India-Norway Marine Pollution Initiative

As one of five partners in the India-Norway Marine Pollution Initiative project 'Mainstreaming Circular Economy in Waste Management Sector', we achieved significant milestones in 2024-25, marking the successful conclusion of this transformative initiative.

Forum of Cities that Segregate

The project's flagship initiative expanded to include **450+ cities** actively participating in waste segregation efforts. Most participating cities demonstrated substantial operational and institutional improvements through our extensive capacity building, technical assistance, and handholding support. These improvements were reflected in enhanced city rankings in the Government of India's annual SwachhSurvekshan assessments. During 2024-25, we successfully trained **98 urban local bodies** across **12 Indian states**.



Knowledge Products and Policy Impact

Our research and advocacy efforts produced **27 publications** that effectively supported policy development and stakeholder capacity building. These publications are now featured as knowledge products in the national resource repository of the Swachh Bharat Mission (SBM), demonstrating their recognised value in the sector.

Key policy contributions included:

- Extended Producer Responsibility (EPR) framework development
- Single-use plastics ban implementation guidance
- Input into Government of India's Plastic Waste Management Rules
- Legacy Waste Management and Dumpsite Remediation regulations
- Guidelines for utilising segregated combustible fractions and plastics from biomining
- A comprehensive analysis of Methane generation from the dumpsites
- Bulk Waste Generators policies
- Municipal bye-laws development
- Toolkit for SBM 2.0 implementation
- Roadmap for Inter-ministerial Committee on circular economy measures
- Map the potentials of Bio CNG from Municipal Solid Waste

The programme added 7 new publications in 2024-25, strengthening our comprehensive knowledge base.

Plastic Pollution Research

We conducted consequential research on plastic pollution, examining strategic interventions across upstream, midstream, and downstream processes. Our work emphasised sustainable product design, identified key actors in the plastics value chain, and highlighted the vital role of the informal livelihoods-based economy of waste pickers.

Ground-Level Implementation

The project facilitated robust waste management systems through targeted interventions:

Gurugram: Established comprehensive waste management systems for bulk waste generators

Agra: Addressed petha waste management challenges and implemented key recommendations; resolved leather cutting waste from the footwear industry by routing it for industrial incineration

Zone-Level Innovation: Facilitated decentralised composting and material recovery system for segregated waste

Coastal and Regional Initiatives

Coalition of Coastal Cities: Formed a strong alliance across all nine coastal states and offshore islands to combat marine plastic pollution from land-to-sea pathways, abandoned fishing gear, ship movements, and industrial activities.

North-East States Forum: Established a specialised subset focusing on India's eight North-East states to reduce plastic pollution, minimise leakage, and increase waste diversion from landfills.

Educational Outreach

Through CSE's Green Schools Programme activities, we engaged with more than 30,000 students, building environmental awareness and fostering the next generation of environmental stewards.

Global Plastic Treaty Engagement

The project significantly contributed to ongoing global plastic treaty negotiations, bringing learning from India and the Global South to shift the narrative from plastic waste management to comprehensive lifecycle considerations and human health impacts. Our interventions included:

- Mapping negotiation positions of member states
- Advocating with high-ambition coalitions on just transition, technology transfer, capacity building, EPR, and financing
- Engaging with private sector companies on design changes, chemical regulation, and micro/nano plastic pollution

Cross-Cutting Issues Integration

Throughout project implementation, we addressed critical cross-cutting issues including human rights, exclusion and discrimination, corruption prevention, gender balance, environmental sustainability, and climate resilience.

GLOBAL PROGRAMME

Global Forum of Cities for Circular Economy (GFCCE)

The year 2024–25 marked significant growth for the Global Forum of Cities for Circular Economy, our learning and knowledge exchange network focused on sustainable solid waste management policy and practices. The forum now represents **18 African countries** and **4 Asian countries**, demonstrating expanded regional engagement and commitment to circular economy principles.

Country-Specific Partnerships

We provided demand-led support to countries for solid waste management policy reforms and implementation through specific partnership agreements:

Tanzania and Eswatini: Built capacities of national and local government officials for city benchmarking, creating baselines for policy-data integration and developing roadmaps for strong SWM ecosystems.

Key outputs included:

- Customised toolkits for ranking and profiling cities in Tanzania and Eswatini
- African Compendium of good practices
- Country position reports for the global plastic treaty negotiations
- Open-source mobile applications supporting native African language interactions
- Capacity building of officials and practitioners from Global South partners through series of online engagement on as many as seven priority agenda like efficient collection and transportation system, waste management by the Bulk Waste Generators, decentralised waste management system, augmenting source separation, organic waste management, dumpsite remediation and landfill management etc.

GFCCE 7th Training Workshop

The 7th GFCCE training workshop in Johannesburg, South Africa, brought together representatives from **15 African nations**. Each member state submitted progress reports on common agenda items in their respective countries. The forum ranked agenda priorities

according to National Priorities and established a GFCCE working committee with regional representatives (eastern, southern, western, and northern regions) to meet virtually every six months.

Knowledge Documentation

The African Compendium of good practices featured **16 case studies** from **11 African countries**. Members emphasized the value of annual documentation to identify, document, and amplify additional good practices for replication across the continent.

Capacity Building Initiatives

We organised **seven online training sessions** for the GFCCE community and other African countries, covering critical topics including source segregation, sustainable collection and transportation, bulk waste generators management, and dumpsite remediation.

GLOBAL PLATFORM ENGAGEMENT

Fifth Intergovernmental Negotiating Committee (INC-5)

As a UNEP-accredited observer, CSE participated in the 5th Intergovernmental Negotiating Committee meeting in Busan, South Korea, in November 2024. We hosted a well-attended side event in collaboration with the Korean Environment Ministry, generating significant interest from member state delegations and civil society organisations in discussions on legally binding global instruments to end plastic pollution, including marine environment protection.

Our comprehensive coverage in Down To Earth magazine successfully promoted the shift from viewing plastic as merely a litter problem to adopting a 'full lifecycle of plastics' paradigm, emphasising upstream and midstream issues.

Policy Analysis and Advocacy

CSE's comprehensive report mapped the negotiation positions of member states based on their stances and interventions on specific provisions of the draft treaty text released by the UNEP INC Secretariat after INC-4 in Ottawa, Canada. This analysis received considerable coverage in Indian mainstream and social media, amplifying awareness of critical treaty negotiations.

ENVIRONMENT EDUCATION PROGRAMME

Green Schools Programme

The Green Schools Programme (GSP) achieved remarkable milestones in environmental education and sustainability during 2024–25. Through its comprehensive approach combining education, auditing, and action-based learning, GSP continued to cultivate environmental stewardship among India's educational institutions.

With over 15,000 schools now part of the CSE GSP Network across India, the programme has established itself as the nation's premier environmental education initiative. This extensive network represents a diverse spectrum of educational institutions united by their commitment to sustainability and environmental stewardship.

The programme's innovative audit system enables students to evaluate their school's performance across six critical environmental domains: air, energy, food, land, water, and waste. Schools receive comprehensive sustainability ratings (Green, Yellow, Orange, or Red) along with detailed performance reports that guide continuous improvement efforts.

This year witnessed unprecedented engagement, with a record-breaking 8,831 schools from 33 states and Union territories completing and submitting GSP Audit reports—demonstrating the programme's expanding influence and the growing commitment of educational institutions to environmental responsibility.



The audit data reveals significant progress in environmental awareness and practical implementation, with measurable achievements across participating schools:

Environmental Performance Highlights:

- 87% of schools do not own or use vehicles, reducing carbon emissions
- 93% of schools eliminated packaged food items from campus, promoting healthy eating
- 77% of schools implemented energy-efficient lighting systems
- 71% of schools achieved single-use plastic-free status
- 48% of schools maintain over 35% green area coverage
- 30% of schools practice waste segregation and composting
- 26% of schools utilise renewable energy sources (solar)
- 25% of schools have installed rainwater harvesting systems

The Green Schools Awards 2025 ceremony marked a pinnacle achievement, with 356 schools receiving 'Green' certification and 25 prestigious Green School Awards presented across 11 specialised categories. A compendium of best environmental practices from GSP network schools across the country 'Imprints of Change' was also launched at the event. The ceremony, attended by over 500 schoolchildren, teachers, principals, and education officials, was graced by renowned education reformer Sonam Wangchuk from Ladakh.

Beyond data collection and assessment, GSP's impact manifested in concrete environmental improvements across participating schools. Institutions reported substantial on-the-ground transformations, including:"

- Installation of composting systems for organic waste management
- Implementation of rainwater harvesting infrastructure
- Significant reduction in single-use plastic consumption
- Development of school gardens and green spaces

These achievements demonstrate GSP's successful emphasis on translating environmental awareness into measurable action, embodying the programme's commitment to systemic thinking and practical application.

University Programme- Green Educators' Network

The University Programme deepened its engagement with college educators and students by facilitating crucial conversations on environment education, policy level shifts and pedagogy of the subject. The Green Educators' Network expanded to include over 1,000 higher education institutions across the country.

The monthly online capacity building session series 'Environmentally Speaking' brought together educators to understand and explore relevant topics such as teaching climate resilience, building sustainable campuses and implementing National Education Policy (NEP) 2020. The sessions were complemented with monthly newsletters to ensure dissemination of teaching tools, learning resources and ideas for educators while also providing a platform for knowledge sharing.

To include students within the ambit of the programme, an online student engagement initiative 'Agenda for Survival' was launched, inviting undergraduate and postgraduate students from different institutions to identify their local environmental issues and design action plans to tackle them, under the mentorship of CSE experts. The engagement culminated in a digital magazine 'Climate Chronicles' that showcased student-led solutions and stories.

BIODIVERSITY AND FOOD PROGRAMME

The Biodiversity and Food Unit at CSE works on key issues related to biodiversity conservation and sustainable use. Our approach includes policy research, advocacy, communication, and capacity building. We actively follow both national and international developments on these topics.

India has a rich tradition of using biodiversity for food, medicine, and livelihoods. Our team focuses on the concept of good food and explores the intricate link between nature, nutrition, and livelihood. We believe that valuing biodiversity in our everyday lives is key to preserving it in the wild.

The unit runs two main initiatives:

1. Biodiversity
2. Biodiversity on the Plate

Between 2024–2025, the team undertook the following activities:

REPORTS

1) Area-Based Conservation: 20 Questions on the 30x30 Target

This status report addresses key questions about protected areas and assesses progress toward the 30x30 target set under the Kunming-Montreal Global Biodiversity Framework. A live chat was conducted as part of this initiative.



FACTSHEETS

1) The Issue of Digital Sequence Information on Genetic Resources

Digital Sequence Information (DSI) includes genetic data such as nucleotide and protein sequences. While DSI has wide applications, its intangible nature complicates traditional access and benefit-sharing mechanisms under the Convention on Biological Diversity. This factsheet, released ahead of COP16, tracked the negotiations on DSI. A video was also produced to accompany the factsheet.

2) Where is the Money for Biodiversity?

At COP16 in Colombia, Parties were expected to discuss strategies to mobilise \$200 billion annually by 2030 for biodiversity protection, as outlined in Target 19 of the KMGBF. This factsheet highlights that while resource mobilisation was brought to the forefront; the proposed solutions remain small in scale and lack data on effectiveness. A live chat was also held on this topic.

BOOKS & MULTIMEDIA

1) On a Good Food Hunt (Children's Book)

This book introduces children to India's rich tradition of using local, seasonal ingredients. It aims to pass on traditional knowledge and inspire the younger generation to protect biodiversity through food.

2) The Green Kitchen

A show celebrating the connection between nature, nutrition, and livelihoods. Over the year, we produced three seasons of the show, featuring:

- Summer foods
- Daal-Bhaat
- Winter foods

3) News Coverage

We reported on international meetings and scientific developments throughout the year. This included a cover story, "Towards a Fair Share," on COP16 of the CBD—the first meeting after the adoption of the Kunming-Montreal Global Biodiversity Framework. Key outcomes included a decision on Digital Sequence Information and the establishment of a multilateral benefit-sharing fund. Over 40 web stories from the event were also published.

4) Food Column

A regular column in Down to Earth (DTE) print edition, focusing on India's food biodiversity.

5) Events

- Organised the **"My Food Story"** event as part of the Green Schools Programme (GSP).
- strengthened **the school food audit** process.
- Created awareness about **good and biodiverse food** during international events such as the **UNGA meeting on AMR** and **AAD**, through curated menus.



MEDIA RESOURCE CENTRE

OUTREACH AND COMMUNICATIONS

CSE's outreach and communication platform has, over the years, expanded in scope and scale. The community of media and journalists remains a key target audience and multiplier, and The CSE Media Resource Centre functions as a dynamic, real-time resource hub for it. The Resource Centre's primary function is to share timely and relevant environmental data and insights with the community through briefings, press interactions, regular updates, capacity- and skill-building programmes etc on issues that CSE is engaged with and which are being reported in Down To Earth.

Besides managing the Resource Centre's functions, the team now also plans the communication and outreach – through social media – of all the key events and engagements of CSE.

Initiatives for communicators and journalists in India

In India, as it does every year, the team has organised interactions and facilitated participation by media in many events and webinars conducted by different programme units in CSE. The flagship event – the **Anil Agarwal Dialogue (AAD)** – which is an annual conclave of environment-development journalists from across India, was held and it brought together about 125 journalists and subject experts and researchers at AAETI, the facility in Nimli, over four days to release the annual State of India's Environment (SOE) report and discuss and debate its findings. Currently, CSE is perhaps the only institution of its kind in the country convening this kind of an event for the media community. The event saw addresses by and interactions with economist Dr. Montek Singh Ahluwalia, G20 Sherpa Amitabh Kant and historian and author Dr. Ramchandra Guha.

The AAD acts as a fertile resource for journalists to source stories from. This year too, articles and coverage, driven by the content of the Dialogue's sessions and discussions as well as by the SOE, appeared in almost all the major Indian languages and media outlets.

The other important period when the team organizes a series of events and interactions to brief the community of journalists and communicators is during the UNFCCC **Conference of Parties**

(COP). During COP 29, online briefings were conducted before and after the Conference. The CSE team that attended the conference deliberations kept up the engagement with journalists as part of our strategy of giving the Global South media a nuanced understanding and perspective on what was happening at this important global negotiation.

Manthan – the interaction series with journalists writing in Hindi – has been continued through online sessions. The Hindi language **Feature Service** remains popular. This Service syndicates content and articles from Down To Earth and sends them to leading news media subscribers every fortnight. The Service plays an important role in disseminating ground-level reportage and voices in a language that is one of the most widely spoken and understood in India, and is especially pertinent given the increasing trends of mainstream as well as regional news media slashing budgets for newsgathering. Prominent content partners include Dainik Jagran, Hindustan, Amar Ujala, Dainik Bhaskar, Rajasthan Patrika, Daily Chhattisgarh, Nav Bharat Times, Jansatta, Prabhat Khabar, NayaSavera, Aaj, News Laundry, Dainik Tribune, Web Varta and Vishwavarta.

Initiatives for communicators and journalists in Africa and the Global South

The Centre continues to be a part of an active **pan-Africa network** of health and environmental journalists. Its partnership with the Kenya-based Media for Environment, Science, Health and Agriculture (MESHA) has helped it successfully conduct the release of the second edition of the ***State of Africa's Environment*** report in Nairobi, Kenya. About 50 journalists from all over Africa came together for the release. The report, which recorded over 40,000 downloads, has been widely quoted and reported on.

This global network has also been an integral part of the participants and audiences in many of CSE's online events and webinars.

Outreach and dissemination through social media and other modes

The research and advocacy programmes at CSE make concerted efforts to reach out to wider news media — national, international as well as regional; online as well as print editions -- by regularly producing press releases, media alerts etc. CSE's weekly e-newsletter reaches over 350,000 subscribers. Social media platforms (Facebook, LinkedIn, Twitter, Instagram, YouTube etc) are being leveraged aggressively to push out information. The team's Live Chats on contemporary environmental issues and on the work done by CSE and DTE have become quite popular.

The team is also assisting programme units drive the outreach for specific events and campaigns. One of the notable successes was the outreach planning for the CSE Climate Week, which was organized in AAETI to bring together current research and opinions on climate change. A concerted and strategic social media promotion was mounted with impressive results. Alongside such events, mention must be made here of some campaigns that CSE has initiated and conducted – notably one on anti-microbial resistance (AMR) and the other on the subject of heat, cities and climate change. Multiple social and convention media platforms have been roped in promote these campaigns.

Publications and Multimedia Output

Interactive atlas: Extreme weather events

This interactive atlas created and managed by CSE-DTE data centre registered over 2.5 million page views on the DTE website

Annual e-book/ Climate India 2024 (3rd Edition):

ANNUAL ASSESSMENT OF EXTREME WEATHER EVENTS

This included comparative statistics from three years — 2024, 2023 and 2022 — and revealed details about extreme events, their locations and impacts. With close to 41,000 downloads, this publication is now a credible source of data and analysis. It has been widely quoted by both the media – national and international. In a notable development, India's Economic Survey 2025, published by the Union Ministry of Finance cited data from the book to highlight the trend of rising crop damage due to extreme weather events from 2022 to 2024.

E-book/ State of Environment in Figures, 2024 (9th edition)

The 9th annual e-book. The annual flagship publication was released on May 31, 2024 and is extensively quoted in media and used widely in research and reporting.

E-book/State of States

This report offers a comprehensive assessment of India's progress on the Sustainable Development Goals (SDGs) at the state level, highlighting key goals and indicators that require urgent attention over the next five years. It has been downloaded nearly 31,990 times

E-book/State of Africa's Environment Report, 2024

The book centered on the theme of Water and was downloaded a total of 40,500 times. It was also widely quoted by leading media in the African region.

MEDIA VISIBILITY

NEWS MEDIA VISIBILITY: CSE's media presence (mentions in print, online and electronic (TV) platforms of CSE research, or CSE staff used as sources for stories) was substantial in the year. CSE was mentioned 2261 times in national and regional media clips; of this, CSE was mentioned/cited 243 times in the year, or 16% of all media mentions.

CSE / DOWN TO EARTH DATA CENTRE ONLINE TRAININGS: BUILDING CAPACITY IN DATA-DRIVEN COMMUNICATION

Down To Earth, in collaboration with the CSE Data Centre, significantly expanded its capacity-building

efforts in environmental communication in 2024–25—a 130% increase over 2023–24. These efforts trained 981 participants through specialized online certificate courses, reaching participants across Asia, Africa (15 countries), Europe, and North America.

The courses are designed to address critical capacity gaps by enhancing skills in data-driven environmental and development reportage. They focus on specific thematic areas and sectors such as climate change, extreme weather events, and the Sustainable Development Goals (SDGs).

Trained a total of 981 working journalists, research scholars and development communicators (a 30% increase over 2023-24) drawn from 25 countries across four continents -- Asia, Africa, Europe and North America. These online trainings organised by CSE/Down to Earth Data Centre are designed to fill critical capacity gaps – specifically to strengthen data-driven reportage on environment and development and to widen exposure on specific sectors (e.g. on Climate Change, Extreme weather events, SDGs).

ONLINE TRAINING PROGRAMMES CONDUCTED IN 2024–25

COURSE TITLE	DATES
Demystifying Environmental and Sustainability Data for Effective Communication in the 21st Century	April 30 – May 14, 2024
Demystifying Environmental and Sustainability Data for Effective Communication in the 21st Century	June 22 – July 11, 2024
Demystifying Environmental & Sustainability Data for Effective Communication (Certification Course for NTPC School of Business)	July 15 – 30, 2024
Environment Data, Maps, and GIS for Communication in the 21st Century	September 25 – October 9, 2024
Demystifying Environmental and Sustainability Data for Effective Communication in the 21st Century	November 28 – December 12, 2024
Environment Data, Maps, and GIS for Communication in the 21st Century	January 29 – February 12, 2025
Demystifying Environmental and Sustainability Data for Effective Communication in the 21st Century	March 5 – 19, 2025

THE YOUNG ENVIRONMENTALIST

LEARNING RESOURCES FOR THE YOUNG

Gobar Times And The Young Environmentalist

Born during the years when Covid-19 was ravaging the world, 'The Young Environmentalist' – CSE's website for the young – aims to inspire environmental awareness and action among children and the young in India. The website continues to diligently fulfil this role and meet this aim through content which is exclusively created for its target audiences – engrossing editorial material, interactive events, innovative contests, and interesting multimedia tools -- through which it has attempted to nurture a new generation of eco-conscious citizens.

Among the more significant initiatives that The Young Environmentalist (YE) hosted through the year have been its series of Master Classes on subjects like artificial intelligence; a cub-reporter's programme which encouraged children to observe and report on environmental issues; and imaginative quiz contests such as Hawa Hawai (on air pollution).

Besides its wealth of content, the website also hosts CSE and Down To Earth's iconic children's magazine – Gobar Times -- in a monthly digital avatar. The website today boasts of a subscriber list of close to 50,000 people, with a 38 per cent active user base. Each of the 12 editions of Gobar Times in the year got downloaded 790 times on an average. Aligned with this work, a new initiative that CSE has started has been the launch of a series of books targeted at children. These books draw their content from fresh research conducted in-house, as well as from The Young Environmentalist and Gobar Times.



ENVIRONMENT MONITORING LABORATORY (EML)

Environment Monitoring Laboratory (EML), is at the forefront of environmental sciences. EML is a state-of-the-art facility, officially recognized by Department of Scientific and Industrial Research, DST, Govt. of India for our high-quality research and quality assured testing through ISO 9001:2015 certifications.

EML is equipped with advanced research infrastructure like chromatographic systems, elemental analysis systems and molecular biology setups, coupled with dedicated Biosafety Level 2 (BSL-2) microbiology laboratory. EML conducts precise analysis of environmental samples to evaluate the performance of the Faecal Sludge Treatment Plants (FSTPs). Till date, EML has evaluated 150+ FSM infrastructures in India spanning 10 states. The evaluation reports published have been suggested with customised process improvement recommendations which eventually help these FSSM infrastructures to perform better. Notably, EML is part of a global partnership for faecal sludge analysis, collaborating with institutions like IHE, Delft; EAWAG, Switzerland and AIT, Bangkok. Through training, fellowships, and technical workshops, EML strengthens India's scientific and regulatory capacity in Faecal Sludge and Septage Management (FSSM).

EML also takes on studies to tackle critical issues like ground/supplied water quality, food safety and toxicology. Through its science evidence backed research and reports, EML actively supports local authorities and policy advocates for promoting sustainable and equitable development. EML's work influences policy changes and drives action on critical environmental and development issues in India and the Global South.



THE ANIL AGARWAL ENVIRONMENT TRAINING INSTITUTE

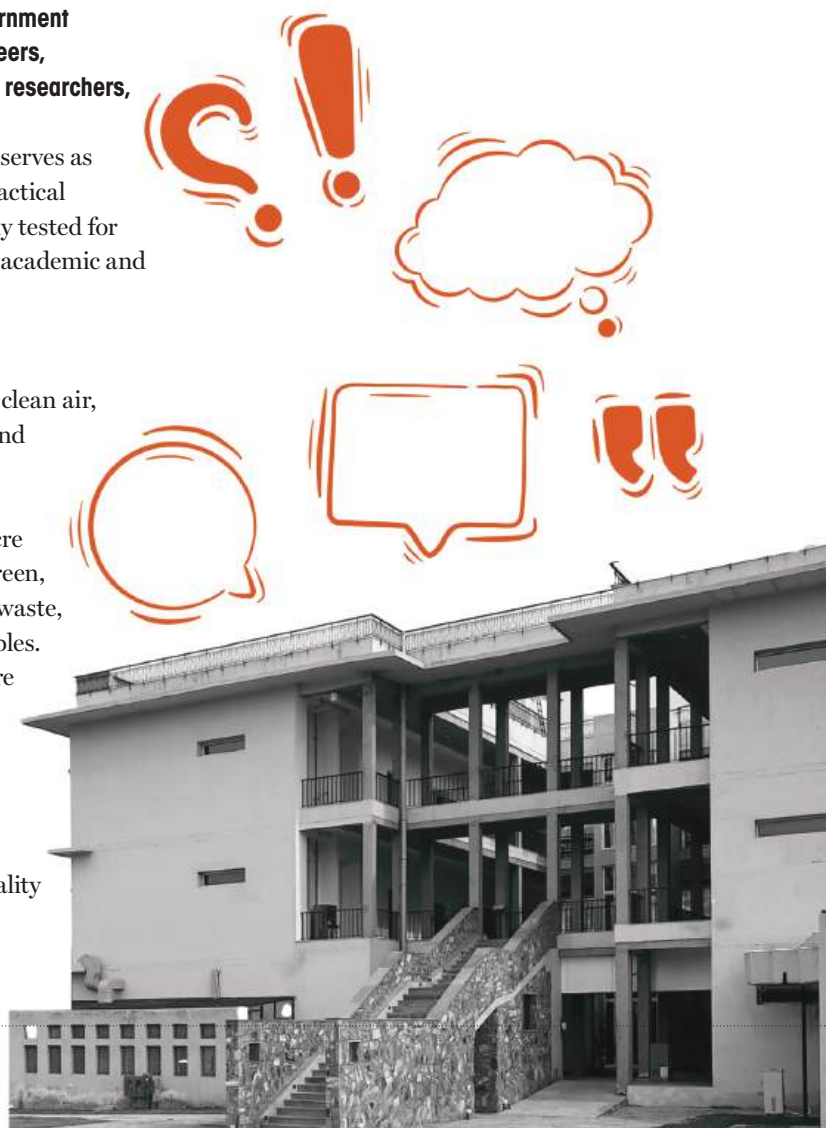


Located in Nimli, near Alwar in Rajasthan, the Anil Agarwal Environment Training Institute (AAETI) is a premier and specialised capacity-building initiative of Centre for Science and Environment (CSE). Named after the late founder-director of CSE, AAETI is dedicated to enhancing environmental literacy and nurturing a new generation of environmental professionals, activists and policymakers. The Institute addresses the urgent environmental challenges of that the Global South faces -- such as climate change, air and water pollution, urban planning, waste management, and resource efficiency -- by building the capacities of government officials, policymakers, urban planners, engineers, industry professionals, civil society members, researchers, journalists and students.

AAETI's unique feature is the fact that it serves as a 'living laboratory' where real-world and practical knowledge and solutions are being constantly tested for implementation, buttressed and fortified by academic and policy-oriented learning.

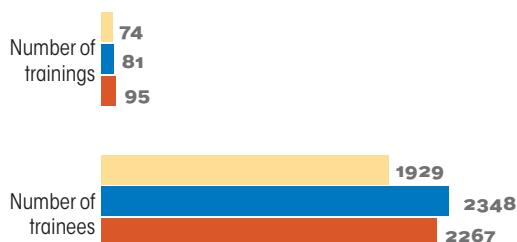
Key Features

- **Ten thematic Schools:** Covering areas like clean air, sustainable habitat and buildings, water and sanitation, food systems, energy, climate change, and communications.
- **State-of-the-art campus:** Spread over 11 acre in the Aravalli foothills, the campus is a green, self-sufficient facility, designed with zero-waste, water-positive, and energy-positive principles.
- **Demonstration projects:** Hands-on exposure to technologies for rainwater harvesting, organic farming, solar energy, wastewater treatment, and composting.
- **Environment Monitoring Laboratory:** Equipped for high-quality environmental testing and training, especially in water quality and faecal sludge management.

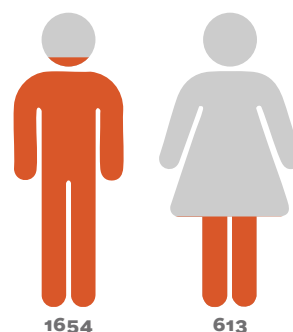


Trainings status

2022-23 2023-24 2024-25



Sex-Ratio of attendees



The Schools under AAETI

- **School of Sustainable Industrialisation:** Promotes low-carbon, resource-efficient industrial practices and strengthens environmental regulation and compliance.
- **School of Clean Air and Sustainable Mobility:** Supports policies for air quality improvement and sustainable transport systems, including e-mobility and public transport.
- **School of Sustainable Buildings and Habitat:** Focuses on low-carbon, resource-efficient urban development, thermal comfort and green campus planning.
- **School of Water, Sanitation and Septage Management:** Builds capacity for inclusive water and wastewater management across urban and rural contexts, including FSSM and rainwater harvesting.
- **School of Solid Waste Management and Circularity:** Advocates circular economy principles in solid waste management and supports Swachh Bharat Mission 2.0 implementation.
- **School of Sustainable Food Systems:** Promotes regenerative agriculture and sustainable food systems with links to health, nutrition, and livelihoods.
- **School of Climate Change:** Enhances understanding of climate science, policy and negotiations, with emphasis on low-carbon development.
- **School of Sustainable Energy:** Facilitates clean energy access through decentralised renewable energy (such as solar mini-grids, bio-CNG).
- **School of Environmental Communications:** Trains journalists and communicators to report on environment and development effectively using data and multimedia tools.
- **Environment Monitoring Laboratory:** A state-of-the-art lab that provides training and testing in water and faecal sludge quality, supporting policy and public health.

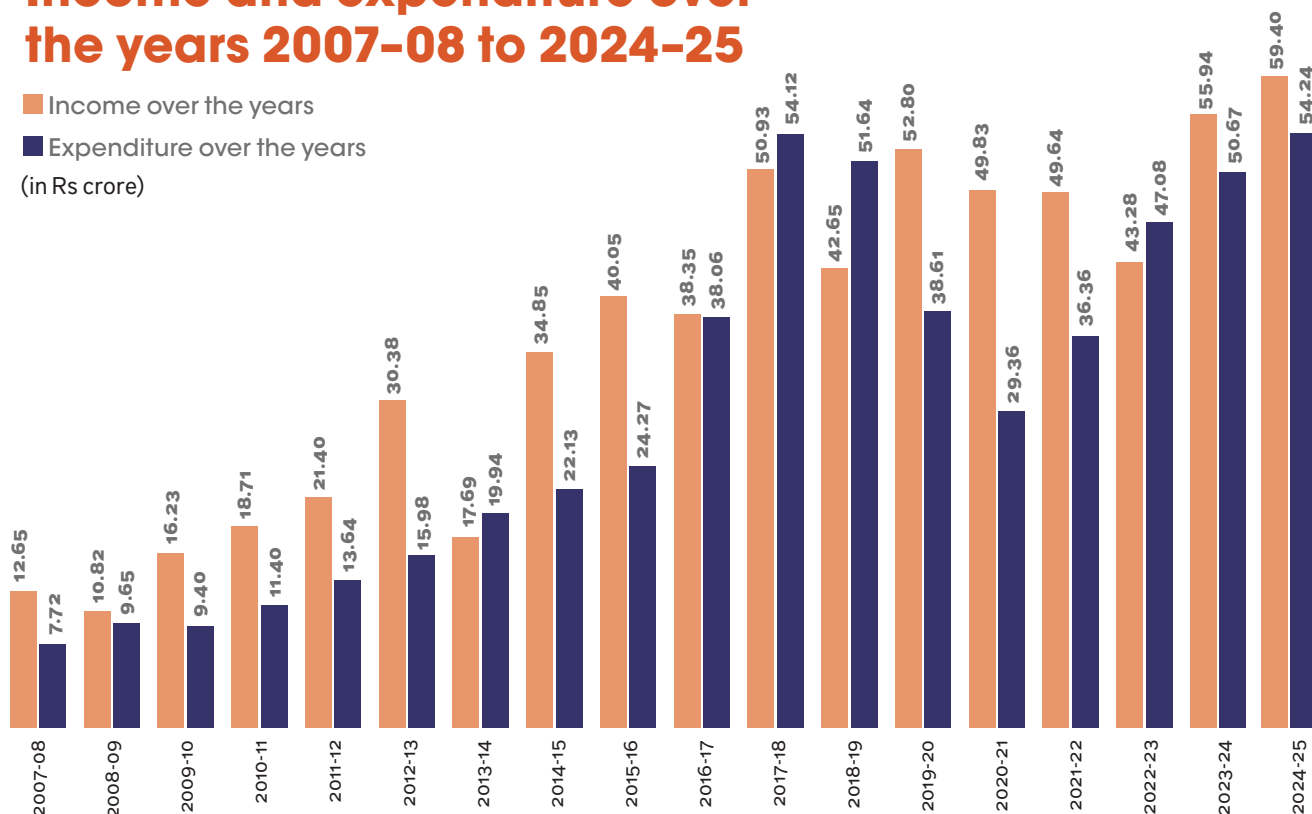
FINANCIAL REPORT (2024-25)

Income and expenditure over the years 2007-08 to 2024-25

Income over the years

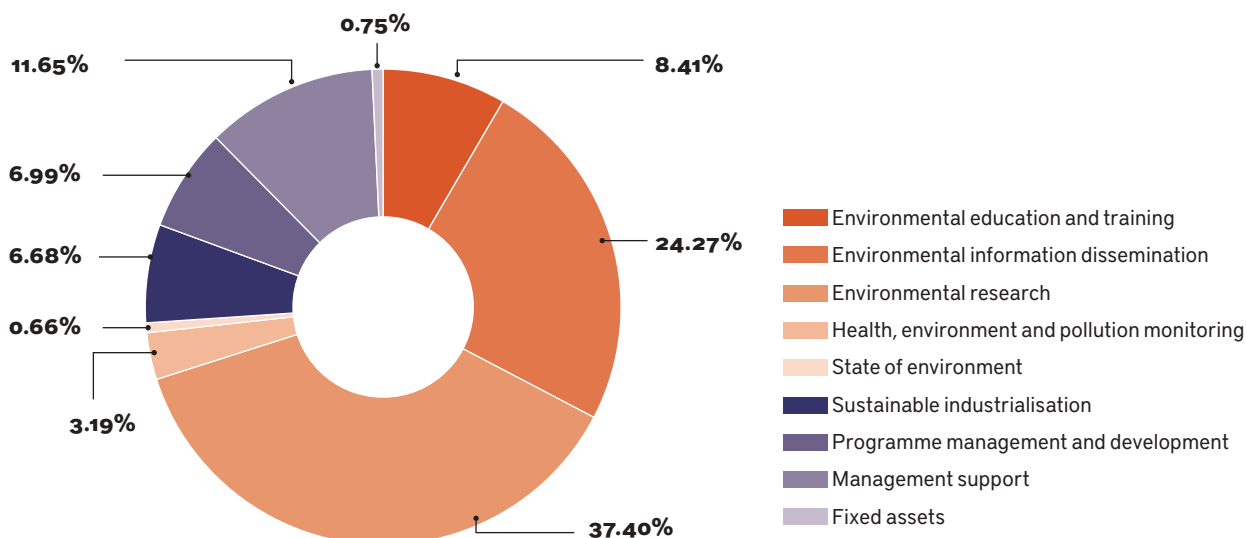
Expenditure over the years

(in Rs crore)



Project-wise expenditures

FY 2024-25 (% of total expenditure)



List of donors 2024-25

Grants

Swedish International Development Cooperation Agency (SIDA)

Bill and Melinda Gates Foundation

John D. and Catherine T. MacArthur Foundation

Norwegian Ministry of Foreign Affairs

Bread for the World

Bloomberg Philanthropies

Katholische Zentralstelle für Entwicklungshilfe e. V.

Clean Air Fund

Charity Aid Foundation

International Sustainable Energy Foundation

National Mission for Clean Ganga, Govt. of India

National Jal Jeevan Mission, Govt. of India

HT Parekh Foundation

Dr. Kamla Chowdhury Endowment

Donations

Elizebath Roy | Krishna Kumar | Anantharaman Hemathri |

Gandhreti Tanuja | Laxminarayan Duvvuri | Archana Mirashi |

Rushabh Joshi | Bakhtaver S Mahajan | Rohit Makker | Jay Parchure |

Subhendu Ghatak | J Ravichandran

Annexures

CSE KEY OUTPUTS (FY 2024-25)

Clean air and sustainable mobility programme

PUBLICATIONS

- R&D Roadmap on Tropical EV Battery (4748 downloads)
- Policy Brief: Making Safe and Durable Electric Vehicles (4216 downloads)
- Policy Factsheet: E-Retrofitting Internal Combustion Engines (5277 downloads)
- Battery swapping for upscaling vehicle fleet electrification - A Primer (148 downloads)
- National Clean Air Programme an Agenda for Reform (10,770 downloads)
- Policy Update: Remote Sensing: Monitoring real world emissions from vehicles (4,109 downloads)
- Remote Sensing Monitoring of On-Road Vehicles (4,329 downloads)
- Air quality and Vulnerable groups: An agenda for inclusive and just action (6,340 downloads)
- Low Emission Zone: Opportunities and Impacts - The case of Delhi (4590 downloads)
- Low Emission Zone: Opportunities and Impacts - The case of Jaipur (4332 downloads)
- Jaipur Gaps in mobility action for clean air (4816 downloads)
- Anatomy of Delhi's Congestion (8808 downloads)
- Alwar hotspot plan
- West Bengal State Clean Air Action Plan
- Rajasthan State Action Plan
- West Bengal Climate Action Plan
- Report on ZEV mandate at the state level - how can states design this
- E-Volution: Why electric mobility is an opportunity in Africa (8231downloads)
- Procurement and Financing of Electric Buses in India Lessons for Africa report (8902 downloads)

- Making of Electric Vehicle Policies and Programme in Africa Take away from India (5209downloads)

TRAINING PROGRAMMES

Onsite trainings:

- Training Programme on NCAP: Strengthening sectoral strategies to achieve air quality targets, 30 pax
- Training Programme on Revamping on-road vehicle emissions management in cities, 15 pax
- Training Programme on Advancing monitoring of emissions from on-road vehicles with remote sensing measurements: Lessons from the pilot study in Delhi, 14 pax
- Training Programme on Regulatory framework and multi-sectoral strategies for air pollution control: Special focus on the National Capital Region and Indo Gangetic Plain, 23 pax
- Training Programme on NCAP: Strengthening sectoral strategies to achieve air quality targets, 33 pax
- Training Programme on NCAP: Strengthening sectoral strategies to achieve air quality targets, 11 pax
- National capacity building for implementation of EV battery recycling rules including EPR and labelling, 16 pax
- Training on LEZ framework in cities, 8 pax
- Training on decarbonising transport sector in India, 16 pax
- Training on measures to reduce personal vehicle dependence and vehicle restraint measures, 11 pax
- Training on improving bus services including electrification of bus fleet, 24 pax

Online trainings:

- Online training course on New

approaches to air quality data analytics and pollution source assessment for better air quality management, 29 pax

- Online training course on Strategies to reduce emissions from transport, 17 pax/
- Online training on Clean air action planning for African cities, 10 pax
- Online training programme on EV-Readiness, 10 pax
- Online training on Understanding data analytics, visualisation and applying structured toolkits for effective mobility strategy implementation and application of the clean air and climate change toolkit, 9 pax

MEETINGS, SEMINARS, WEBINARS

National:

- Roundtable on Learning from the NCAP review and the next steps, 40 pax
- Meeting on the Climate Action Plan for West Bengal, 77 pax
- Meeting on findings from ongoing RSD testing in Delhi NCR for outreach and dissemination, 42 pax
- Meeting on Significance and relevance of LEZ framework in cities, 30 pax

Global :

- Kenya: Online meeting to initiate clean air and on-road emissions management strategy with NEMA, 8 pax
- Online meeting on pan Africa best practice sharing platform--Meeting with working groups on the sub-sector mitigation strategies - i) Clean air action planning ii) old vehicles and on-road emission management iii) electric mobility

- and Public transport, 43 pax
- Stakeholder workshop on Agenda for clean air, clean vehicles and rapid electrification in Kenya, 35 pax
- Regional Consultation: Pan-Africa Network on Clean Air Solutions – Leveraging electric mobility and sustainable transport for clean air and low carbon pathways in Africa, 49 pax
- Online meeting on pan Africa best practice sharing platform--Working groups meeting on the sub-sector mitigation strategies - i) Clean air action planning ii) old vehicles and

- on-road emission management iii) electric mobility and Public transport, 30 pax
- Online meeting on pan Africa best practice sharing platform--Working groups meeting on the sub-sector mitigation strategies - i) Clean air action planning ii) old vehicles and on-road emission management iii) electric mobility and Public transport and Nigeria: Meeting on EV standards and regulations with National Automotive Design & Development Council (NADDC), 32 pax
- Online meeting on pan Africa best

- practice sharing platform--Working groups meeting on the sub-sector mitigation strategies - i) Clean air action planning ii) old vehicles and on-road emission management iii) electric mobility and Public transport, 60 pax

Water Programme

PUBLICATIONS

- [City-Level Template for Safe Reuse of Treated Water](#) (5248 downloads)
- [Waste to Worth: Managing India's Urban Water Crisis through Wastewater Reuse](#) (14641 downloads)
- [Module on Interception and Diversion](#)
- [Water-sensitive Cities: Assessment and Planning for Decentralized Urban Water Supply, Wastewater and Storm-water Management](#) (5465 downloads)
- [Planning for Reuse of Treated Wastewater at the State Level](#) (6115 downloads)
- [Factsheet- Reuse of Treated Water](#) (4423 downloads)
- [Shit Flow Diagram \(SFD\): A Resource Book for Practitioners](#) (7767 downloads)
- [Water and Wastewater Visioning for Large, Dense Unplanned Urban Settlements in an Era of Climate Risk](#) (7563 downloads)
- [Factsheet- Water and Wastewater Visioning for Dense Unplanned Urban Settlements: A Case of Sangam Vihar, Delhi](#) (8898 downloads)
- [SOP for Operations and Maintenance of FSTPs and Co-Treatment Plants in Uttar Pradesh](#)

- [Guidelines for Improving Treatment Plant Utilization](#)
- [Enhancing Sustainability and Efficiency in FSSM Plants: Assessment of O&M arrangement in UP](#)
- [Guidance note on Engagement of Self Help Groups for O and M of FSTPs and Co-treatment Plants](#)
- [Malasur: Stop the demon | Manage scientifically](#)
- [E- Module DWWTs](#)
- [An assessment of faecal sludge management in Bangladesh](#)
- [Sludge Drying- Technology and Economics](#)
- [Report on Alternative construction material for nature-based treatment systems](#)
- [Back from the Brink](#)
- [Factsheet: Community Engagement in Monitoring the Quality and Quantity of Groundwater](#)
- [Status of Grey-Water Management in Rural Areas of Rampur District](#)
- [Status of Grey-Water Management in Rural Areas of Banda District of UP](#)

WORKSHOPS/ KNOWLEDGE CONCLAVES/ MEETINGS/ WEBINARS

- [Waste to Worth: Managing India's](#)

- [Urban Water Crisis through Wastewater Reuse-](#), 114 pax
- [Unplanned Settlement- IIT Bombay](#), 25 pax
- [Workshop and Book Release: From Waste to Worth](#), 25 pax
- [CSE at Ganga Utsav, 2024](#), 150 pax
- [Stakeholder Meeting with SMCG regarding reuse policy review](#)
- [The Journey of India's Water Act and the Way Forward](#), 1642 pax
- [Liquid Waste Management: A paradigm shift towards a decentralised approach](#), 2318 pax
- [Inequity and climate change: Water woes of our large dense unplanned urban settlements-A Case study of Sangam Vihar, Delhi](#), 1906 pax
- [Consultation meeting with UP officials on lake rejuvenation in rural areas - sharing the report on 4 tehsils](#)
- [Rejuvenating lakes and replenishing groundwater in cities](#), 31 pax
- [Bring back the dying wisdom](#), 73 pax
- [Roundtable with key stakeholders on lake to discuss the technologies on revival of water bodies for climate resilient cities](#), 26 Pax
- [Rainwater Harvesting Best Practices, Challenges and Opportunities](#), 4 pax

- Round table on Improving Groundwater Resources in Rural Uganda - Focus on policies and the legislations, 37 pax

Exposure visits:

- Knowledge Exchange Programme on Urban Sanitation Best Practices, Challenges and Opportunities

Onsite trainings:

- Residential Training on Integrated Water and Septage Management, 19 Pax
- Training on Water Efficiency and Conservation, 19 Pax
- Training on Interception and Diversion, 46 Pax
- Training on reuse of treated wastewater and biosolids and reuse/recharge, 26 Pax
- Training on Decentralized wastewater management, 20 Pax
- Training on Faecal Sludge Management including Co-treatment of septage with Sewage at STPs, 21 Pax
- Onsite Training on reuse of treated wastewater and biosolids and reuse/recharge, 21 Pax
- Residential Training on Planning and Designing of Groundwater recharge structures in Urban Areas, 26 pax
- Residential training on

«Rejuvenation of lakes and waterbodies», 22 pax

- Managing greywater at household, community and village level along with reuse options for treated grey water -1, 25 pax
- Managing greywater at household, community and village level along with reuse options for treated grey water -2, 35 pax
- Residential Training programme for UP officials on aquifer mapping and rejuvenation of lakes to move towards sustainability - UP 1, 27 pax
- Ethiopia - Onsite training on FSM Planning and Designing, 29 Pax
- Ethiopia- Onsite training on Decentralised wastewater treatment and reuse, 34 Pax
- Ethiopia - Exposure Visit of Ministers of Water and Energy in India, 12 Pax
- Towards Sustainable Sanitation and Lake Management in UP, 33 Pax

Online Trainings:

- International Online Training on Integrated Wastewater and Septage Management for Officials of Ethiopia, 36 pax
- Online Training on Basics of Decentralized Wastewater

Treatment and Local Reuse, 41 pax

- Online training on decentralized wastewater treatment for CPWD, 23 pax
- Online training on rainwater harvesting for CPWD, 23 pax
- Online training- lake rejuvenation and groundwater management in urban areas, 62 pax
- Online training on groundwater recharge and mapping of aquifer and managing sanitation in rural areas for the partner countries, 68 pax
- Online short training on aquifer management, 90 pax
- Online short training on greywater management in rural areas, 51 pax
- Online training on Sustainability of groundwater sources in climate resilient cities, 96 pax
- Protecting flood plains, 218 pax
- Pipe Dreams Urban water stress in India: An assessment, Pax 107

Renewable Energy programme

REPORTS AND POLICY BRIEFS

- The Road to 500 GW of Clean Energy: An Agenda for Scale and Access (5414 downloads)
- Perspectives on Challenges and Emerging Risks in India's Utility-Scale Solar (7268 downloads)
- Developing an Effective State-Level Compressed Biogas Policy in India – Policy Brief (6921 downloads)
- Accelerating Wind Repowering in Tamil Nadu (6743 downloads)
- Implementation Challenges of the PM-KUSUM Scheme (7956 downloads)

- Compressed Biogas Landscape in Uttar Pradesh (4196 downloads)

FEATURES AND ANALYSIS

- How a Mini-Grid Boom is Rewriting Africa's Energy Story
- Trump's Freeze on Wind Energy Projects Sparks Backlash from Industry Advocates
- From Ambition to Action: How Africa is Harnessing Solar Energy
- Africa's Ambitious Journey Towards Renewable Energy: The Ifs and Buts

- 30 Sub-Saharan Africa Countries Among 38 that Fail to Provide Basic Electricity Access
- Decentralised Renewable Energy Can Transform Agriculture and Support Development Goals in Malawi
- Free Online Certificate Course on Mainstreaming Decentralised Renewable Energy in the Global South
- REpowering for Tripling: Advancing Wind Energy
- Case Study in IRENA's Nature-Positive Energy Principles: A

contribution on India's wind repowering to global discussions on extending infrastructure lifecycles.

- Report on Implementation of Renewable Energy Targets (NDCs) in Countries of the Global South (Ongoing)
- Convergence of government schemes has tripled profits in Rajasthan
- Convergence of government schemes has tripled profits in Rajasthan
- How Renewable Purchase Obligation targets can advance energy transition in India
- Can new guidelines for rooftop solar accelerate PM Surya Ghar scheme?
- Yes: Can new rooftop solar guidelines accelerate adoption of PM Surya Ghar scheme?
- Can new rooftop solar guidelines accelerate adoption of PM Surya Ghar scheme?
- Floating solar: Opportunities abound, but so do obstacles
- Shadows over solar: Rajasthan's PM Surya Ghar Yojana faces implementation issues
- Is viability gap funding enough to power India's offshore wind dreams?
- Budget 2024-25: Will RE measures help achieve 2030 goals?
- Madras HC strikes down resource charges on wind projects: A landmark decision
- The 500 GW switch-over
- From ambition to action: How

Africa is harnessing solar energy

- Trump's freeze on wind projects sparks backlash
- India's renewable push stalls amid tilt toward nuclear energy
- Power Ministry's Rajya Sabha reply reveals energy surplus, bottlenecks
- How a mini-grid boom is rewriting Africa's energy story
- Unlocking trillions: How REFO could transform India's energy landscape
- Zakariyapura: India's climate-smart biogas village, Compressed biogas: Startup potential, New Government's Agenda: It's now or never
- Sustainable aviation fuels for net-zero, DTE Budget 2024-25 Coverage
- Budget 2024-25: Will RE measures help achieve 2030 goals?
- Lack of CBG production data undermines GoBARDhan portal
- Wind Energy (IRENA Forum))
- Case Study in IRENA's Nature-Positive Energy Principles
- Report on Implementation of Renewable Energy Targets (NDCs) in Countries of the Global South (Ongoing)
- National Dialogue on Renewable Energy for an Equitable Green Transition
- National Workshop on Decentralised Renewable Energy-Based Solutions for Equitable Development

VIDEOS AND MEDIA OUTREACH

- Users and Producers: How to

Empower Communities Through Decentralised Renewable Energy? (YouTube)

- Best Practice: How Did Uttar Pradesh Emerge as Front Runner for Compressed Biogas Energy? (YouTube)
- Best Practice: How Did the First All-Women Manure Cooperative Create Biogas? (YouTube)
- Hope for Our 'Pale Blue Dot' | Earth Day 2025 & the Clean Energy Movement (YouTube)
- The Sunita Narain Show | The Road to 500 GW of Clean Energy (YouTube)

CAPACITY BUILDING AND KNOWLEDGE TOOLS

- Free Online Certificate Course on Mainstreaming Decentralised Renewable Energy in the Global South
- Training on DRE – Solarising India's Agriculture
- Workshop: Design, Installation & Maintenance of Solar Mini-Grid Systems
- Workshop: Design, Operations & Applications of Solar Mini-Grid Systems
- Strategic Policy Engagements & Dialogues
- REpowering for Tripling: Advancing

Climate Change programme

PUBLICATIONS

- Paris Alignment Paper 1: What is Article 2.1c and how do interpretations differ? (10134 downloads)
- Operationalising equity in fossil fuel phaseout: A roadmap for countries (4649 downloads)
- Carbon Border Adjustment

Mechanism (CBAM): The Global South's response to a changing trade regime in the era of climate change (7549 downloads)

- Show Us the Money: A CSE COP29 Position Paper (11359 downloads)
- Carbon Markets in Africa: An Overview (7245 downloads)
- COP29 Factsheets: Mitigation,

Global Goal on Adaptation, Climate Finance, Article 6 of the Paris Agreement (34104 downloads)

- Submission on call for input 2024 by the Article 6.4 Supervisory Body (7328 downloads)
- Submission on call for topics for discussion in 2025 under the Sharm el-Sheikh dialogue on

Article 2.1 (c) (7514 downloads)

EVENTS

- Live Talk : What's on the table for negotiations at Bonn? (2383 Views)
- Webinar: Understanding the EU's Carbon Border Adjustment Mechanism (CBAM) (3324 Views)
- Explainer: What is the New Collective Quantified Goal (NCQG) on Climate Finance and why is it so important? (39000 Views)
- Consultation: What is the role of Article 2.1c in advancing climate action?
- Webinar: The Agenda for COP 29: Show Us The Money (6267 Views)
- COP Reporting: What to expect in the Final Week of the Finance COP | UNFCCC COP29 Baku Azerbaijan (35000 Views)
- Webinar: Did the 'finance COP' deliver? (1702 Views)
- Explainer: Call For Action| What is CBAM? And why does it matter? (14000 Views)
- CSE Live Chat: Climate Policy in the Era of the Polycrisis What can we expect in 2025? (6006 Views)
- Live Talk: Climate Policy in the Era of the Polycrisis: What can we expect in 2025? (420 Views)
- Live Talk: CSE Live Chat: Trumped! (4870 Views)
- Explainer: 5 reasons why Trump could be the worst thing for the climate | US GHG emissions vs NDC targets (3400 Views)
- COP Reporting: Developed nations copout of COP29 (32000 Views)
- COP Reporting: Why it is important to address the Unilateral trade measures by developed countries? (3300 Views)
- COP Reporting: What is being negotiated about Article 6 at COP29 Baku Azerbaijan (28000 Views)
- COP Reporting: What to expect in the Final Week of the Finance COP (35000 Views)
- COP Reporting: Centre for Science and Environment CSE and Down To Earth at UNFCCC COP29 Baku (33000 Views)

- Live Talk: Bonn Climate Talks Debrief (18000 Views)

UNFCCC AND COP COVERAGE

- "Is it a joke?": Developing countries slam rumoured proposal for \$200-300 billion in new climate finance from developed countries
- "Trump ate my climate finance homework": No more excuses for Global North in Baku
- A joke, indeed
- Bonn Climate Conference 2024: 3rd Glasgow dialogue flags need for loss & damage cooperation
- Bonn Climate Conference 2024: Differences remain on Global Stocktake outcomes
- Bonn Climate Conference 2024: Finance flows as per Paris Agreement in talks at Sharm el-Sheikh Dialogue's workshop
- Bonn Climate Conference 2024: Imbalanced texts, imbalanced outcomes on new climate finance target
- Bonn Climate Conference 2024: Stage set for new climate finance goal enroute to Baku
- Bonn Climate Conference 2024: Unpacking Article 6 talks in the first week
- COP29 Diary (November 11): Parties adopt agenda for global event after disagreement over items
- COP29 Diary (November 12, 2024): Talks kick off on mitigation work programme
- COP29 Diary (November 13, 2024): Discussions take place on Articles 6.2, 6.4 and 6.8
- COP29 Diary (November 14, 2024): Negotiators agree to discuss select elements of NCQG
- COP29 Diary (November 15, 2024): New draft text on NCQG released
- COP29 Diary (November 16, 2024): Countries express disappointment about slow progress of talks on NCQG, Mitigation Work Programme
- COP29 Diary (November 18, 2024): New iteration of the draft negotiating text on NCQG out tomorrow

- COP29 Diary (November 19, 2024): New text on NCQG could have structured options
- COP29 Diary (November 20, 2024): No quantum quoted in new draft text on NCQG yet
- COP29 Diary (November 21, 2024): GGA without money is meaningless for us, say countries
- COP29: New NDCs announced by UAE and Brazil; fossil fuel production remains an open question
- CSE-DTE at COP29: All you need to know about the progress on Article 6 at the end of week 1
- CSE-DTE at COP29: Climate finance talks kick off at full throttle but slow down; toughest issues pushed to week 2
- CSE-DTE at COP29: G77 and developing country allies reject first draft of climate finance text
- CSE-DTE at COP29: Latest climate finance text sees some convergence, offers two options
- CSE-DTE Reportage: Bonn Climate Conference 2024
- Inside negotiation rooms: A first-time observer's notes from finance talks in Baku
- New climate finance goal: Technical dialogue commences in Azerbaijan, heated debates expected
- Paris Agreement carbon market edges closer to rollout as oversight body wraps up 15th meeting
- The Great Escape from Baku: Global North abandons South, denies adequate climate finance at COP29
- Uncertainty looms in Baku as pre-COP29 finance negotiations end in logjam
- Unilateral trade measures will delay climate transition – COP29 must address this

GLOBAL CLIMATE POLICY

- 'Tariff Man' returns to White House: How Trump's policies could reshape global trade and green transitions
- Analysis: What does the new Supreme Court judgment mean for

- climate action in India?
- Canada sets modest NDC target: 45-50% emissions cut by 2035, while fossil fuel production continues
- Carbon Controversy: Corporate climate action watchdog's new decision regarding use of offsetting causes backlash
- Carbon market in Africa grows bigger with cookstove and forest-based projects
- China's industrial 'overcapacity': Is it aiding the green transition or creating a global glut?
- Clean energy technologies market to exceed \$2 trillion by 2035: IEA report
- DTE Coverage: Agenda for new government
- Energy and agriculture sectors lead emissions in India's latest greenhouse gas inventory
- Experts call for real change at upcoming UN conference on financing for development
- Five reasons why Trump could be the worst thing for the climate, again
- Fossil fuels still dominate global energy, with Global North leading the production, report finds
- Fossil giant US announces new climate target, as Trump waits in the wings
- G7 nations drag heels on coal phaseout despite responsibility to lead transition
- Gobar Times: How COP works
- Green banks' coalition goes bust: Biggest American fossil funders exit Net Zero alliance
- Headline issues at the World Bank-IMF Spring Meetings 2024
- Key takeaways from the World Bank-IMF Spring Meetings 2024
- Recognise 'Un-enabling' environment that prevents climate finance access, says Global South at UN talks in Cartagena
- Top oceans court delivers advisory opinion on climate change
- Trade & climate priorities are converging: Does this help or hurt a fair global green transition?
- Trade on emissions
- Trump may want to destroy the planet, but we cannot let him
- Up to \$6.8 trillion required till 2030 to meet climate goals of developing nations: UNFCCC
- What does Trump mean for international climate cooperation?
- World's largest companies are failing on climate action, new report shows

Industrial Pollution Programme

PUBLICATIONS

- [Strengthening Environmental Reporting Under BRSR](#), (8077 downloads)
- [Report on Market Based Emission Trading Scheme](#) (5595 downloads)
- [Compendium on good practices on industrial waste circularity](#), (4233 downloads)
- [Decarbonising India: An anthology on Energy and hard to abate industrial sectors](#), (8060 downloads)
- [Toolkit for data collection for Lake Victoria Basin](#), (5276 downloads)
- [Report \(Scoping paper\) on Industrial waste circularity in Africa](#), (7311 downloads)

SEMINARS & CONFERENCES

India:

- Webinar on strengthening BRSR reporting, 339 pax
- Rajasthan: Sector-specific (Mineral

- Grinding/Brick Kiln/Stone crusher) stakeholder consultation in Kota, 80 pax
- Webinar on Market Based Emission Trading Scheme, 232 pax
- National Workshop on Industrial Decarbonisation, 23 pax/

Global:

- Stakeholder consultation on Environmental Audit in Nigeria, 30 pax
- Pan-Africa Stakeholder consultation on waste circularity in Ghana, 32 pax
- Report release and workshop on Environmental Audit in Nigeria, 382 pax
- Pan-Africa workshop on waste circularity in Nigeria (IND-204-08957), 17 pax

TRAININGS

Onsite Trainings:

- Onsite training on water audit, 23pax
- Rajasthan: Training on CEMS for RSPCB new recruits, 30 pax
- Training on Low carbon pathways for industrial sector, 27 pax
- National level Training on CEMS, 32 pax
- Training on SIA-CSR, 27 pax
- Training on NCAP for National level regulators, 15 pax
- Rajasthan: Training programme on Understanding environmental management and strategies for addressing industrial air pollution, 23 pax
- Training on Carbon: Accounting, Auditing & Trading, 27 pax
- Training on EIA, 20 pax
- Training on Tools for pollution management 20 pax,
- Experience sharing cum training programme on industrial waste circularity, 19 pax

- Training on Environmentally sustainable infrastructure in industrial areas, 43 pax
- Training on Land acquisition, resettlement and rehabilitation, 25 pax
- Training on EIA, 18 pax
- Training on Carbon: Accounting,

Auditing & Trading, 32 pax

Online Trainings:

- Training on EIA, 126 pax
- Training on Environmental Law ,191 pax
- Training on Water neutrality, 41 pax
- Training on EIA, 130 pax

- Training on Energy Audit & Management: Increasing Efficiency & Reducing Emissions, 53 pax

Sustainable Food Systems Programme

PUBLICATIONS

- ✎ Priorities of Low- and Middle-Income Countries (LMICs) to inform the High-Level Meeting on AMR at United Nations General Assembly 2024, (10,239 downloads)

WORKSHOPS/WEBINARS/CONSULTATIONS

Global:

- International workshop on LMIC priorities to inform the High-Level Meeting on AMR at United Nations General Assembly, 2024, 45 pax
- From people to leaders – a civil society and communities meeting and photo exhibition in the lead up to the UN general assembly high-level meeting on antimicrobial resistance (AMR) (a side event organized in collaboration with ReACT and other civil society groups in New York, September 2024)
- Webinar: Global action on antimicrobial resistance (AMR) – priorities of low-and middle-income countries (July 2024), 159 pax
- Webinar: Prevention is our best bet (November 2024; during WAAW), 151 pax

National:

- National consultation: Reducing antibiotic use through preventive approaches for sustainable poultry production systems, 25 pax
- Regional workshop containing antibiotic pollution from manufacturing for western region, organized jointly by CSE and Maharashtra Pollution Control,

- Board in Maharashtra, 59 pax
- Training cum workshop on framing agriculture and climate change connections and solutions, 38 pax
- The Climate Week: Towards Climate Resilient Agriculture, 35 pax
- Regional workshop containing antibiotic pollution from manufacturing for southern region, organized jointly by CSE and Telangana Pollution Control, Board in Telangana, 61 pax
- Roundtable meeting on scaling up preventive approaches in the Indian fisheries sector to minimize antibiotic use (online), 22 pax

TEAM MEMBERS IN GLOBAL TECHNICAL/ADVOCACY GROUPS

- Sunita Narain (CSE Director General), [Member](#) of the Global Leaders Group on AMR
- Amit Khurana (Director, Food Systems programme), Board member, [AMR Accelerator](#), Canada
- Amit Khurana, invited expert group member for developing WHO-UNEP [guidance on wastewater and solid waste management for manufacturing of antibiotics](#)
- Amit Khurana, [Member, Judging panel](#), The Trinity Challenge on Community Access to Effective Antibiotics in collaboration with MIT
- Amit Khurana, review committee [expert](#) for next AMR Benchmark Report, Access to Medicines Foundation
- Amit Khurana and Rajeshwari Sinha, facilitators and panelists,

- Deliberative Polling project on AMR, a collaboration between Stanford University Deliberative Democracy Lab and The Trinity Challenge
- Amit Khurana, invited expert, technical working group on AMU surveillance ([SEDRIC](#)/ Wellcome Trust)

GLOBAL MEETINGS/WORKSHOPS TEAM MEMBERS ATTENDED AND MADE INTERVENTIONS

- 9th in-person meeting of the Global Leaders Group on AMR at Stockholm, Sweden, May 2024
- High Level Meeting on AMR at the United Nations general Assembly in New York, September, 2024
- Side event at UNGA 2024 in New York: From People to Leaders – a civil society and communities meeting and photo exhibition in the lead up to the UN General Assembly High-Level Meeting on Antimicrobial Resistance, September 2024
- Side event at UNGA 2024 in New York: Expanding Access and Enhancing Resilience, September 2024
- Side event at UNGA 2024 in New York: UNGA 2024 High-Level Meeting on AMR and Beyond: Bringing the voices and perspectives of the low-and middle-income countries, September 2024
- WHO-UNEP webinar to introduce new Guidance on Wastewater

and Solid Waste Management from Antibiotic Manufacturing, September 2024

- 4th Global High level meeting on Antimicrobial Resistance, in Jeddah, Saudi Arabia on November, 2024
- Webinar on 'What can AMR experts learn from the Montreal Protocol?' organized by Global Strategy Lab, Nov 2024
- Annual Meeting with International Livestock Organizations, organized by FAO, March 2025
- WHO-UNEP Global Environment Fund Pharmaceutical Waste Project Steering Committee Meeting, March 2025
- RAGNA (Regulatory Agencies Global Network against AMR) led by Swedish Medical Products Agency: Deep Dive on Manufacturing of antibiotics, emission and waste management
- GLG meetings/information/technical sessions which are held periodically (online)

OUTREACH AND COMMUNICATION

- With an aim to inform the negotiation and drafting process of the political declaration on AMR [Priorities of Low- and Middle-Income Countries (LMICs) to inform the High-Level Meeting on AMR at United Nations General Assembly 2024] was disseminated to over 300 global contacts, including the permanent representatives of 33 countries in the global south.
- During the WAAW 2024, articles were invited from global south experts on issues of AMR across One Health spectrum and published them on the web-version of the Down To Earth and select few were also printed in the State of Environment (SoE), 2025. The articles were amplified on social media and a [compilation](#) was also created
- AMR 'Prevention Ask' in the form of key messages/quotes were

sought from global south experts

and amplified on social media

during the WAAW 2024

- A set of key questions (AMR polls) were asked on social media platforms to understand the level of awareness among general public. The results were published in the SoE 2025.
- AMR posters on the theme of Harry Potter series were created and used to create awareness among kids and young adults
- A Masterclass webinar 'On bugs and bugbears' was conducted for school children during WAAW

Solid Waste Management Programme

PUBLICATIONS

- [Towards Circularity: Good Practices in Solid Waste Management in Africa](#)
- [Profiling and Ranking of Cities in Tanzania on Solid Waste Management](#)
- [Profiling and Ranking of Local Government Authorities in Eswatini on Solid Waste Management](#)
- [Agra Footwear waste management report](#)
- [Efficacy of municipal bye-law towards sustainable solid waste management](#)
- [Unpacking EPR for plastic packaging in India](#)
- [EPR Portal insights A Deep Dive into India's Centralized Portal for Plastic Packaging](#)
- [Gainful utilisation of segregated combustible fraction \(SCF\)](#)

[Recovered from Biomining of legacy Waste Dumpsites in India](#)

- [Change is possible – Good practices by Indian Urban Local Bodies](#)

INC-5 DIARIES

- [Thousands march in Busan to end plastic](#)
- [Promise and complexity on display as member states debate critical aspects](#)
- [Consensus still not building up as mid-week deadline passes](#)
- [Hair splitting on syntax on 4th day as negotiations enter decisive phase](#)

PLASTIC PROFILES

- [Indonesia: Global Plastic Profiles: Where do countries stand on emissions and releases of plastics across their life cycle?](#)

- [India: Global Plastic Profiles: How well do countries manage their polymer waste?](#)
- [Why addressing existing polymer pollution is a critical priority](#)
- [Is there a just transition in plastics?](#)
- [How do countries fare on primary polymers?](#)
- [Why chemicals and polymers of concern are a priority in treaty negotiations](#)
- [How talks seek to phase out 'problematic' and 'avoidable' polymers](#)
- [On product design and performance, countries have taken varying stances](#)
- [Where do countries stand on financing mechanisms?](#)

TRAININGS

Onsite trainings

- [Training of cities from the](#)

north eastern states of India on sustainable solid waste management, 32 pax

- Onsite training of city officials to implement CSWAP (SBM 2) with special focus on RDF and fine fractions, 47 pax
- Onsite training of city officials to implement CSWAP (SBM 2) with special focus on monitoring, 43 pax
- Onsite training of city officials on sustainable plastic waste management, 52 pax
- Onsite training for city officials / elected representatives on integrated solid waste management, 38 pax
- Onsite training on sustainable solid waste management emphasizing waste processing and treatment, 41 pax
- Training of Haryana State Pollution Control Board Officials on Sustainable Solid Waste Management aligned with SBM 2.0, 23 pax
- Sustainable Solid Waste Management with Special Focus on Segregated Organic Waste

Management, 44 pax

- Onsite training of city officials to implement City Solid Waste Action Plan under SBM 2, 31 pax

Online trainings

- Zero Waste: A Dream or Reality?, 176 pax
- Common Agenda for GFCCE - Waste Quantification and Characterization, 166 pax
- Common Agenda for GFCCE - Source Segregation and home composting, 212 pax
- Global Online training - Biodegradable waste management through composting and biomethanation, 271 pax
- Common Agenda for GFCCE - Communication and citizens participation for inclusive waste management, 209 pax
- Common Agenda for GFCCE - Strategies to optimize cost of waste collection and transportation, 181 pax
- Common Agenda for GFCCE - Management of waste by the bulk waste generators and need for a policy, 208 pax
- Common Agenda for GFCCE -

Decentralized approach to solid waste management, 223 pax

- Common Agenda for GFCCE - The need for imposing landfill tax and strategies to manage dumpsites, 133 pax
- Tanzania - Online training of city officials for managing Water to implement the toolkit for ranking of cities, 23 pax

VIDEO

- [Why the world needs a global plastic treaty](#)

DTE, BLOGS/OP EDs

- [Waste: Nothing micro about this menace](#)
- [World needs global treaty with holistic approach to plastic lifecycle management](#)
- [Like-Minded Countries need to collaborate, not isolate, for a robust plastic treaty at INC-5 in Busan](#)
- [From paradise to plastics pollution: Bali's battle for marine plastics debris](#)

Sustainable Buildings and Habitat Programme

PUBLICATIONS

- Planning and Designing Habitat in Climate-Risk Times: Heat Toolkit
- The Cool School Manual
- Rubble Recast: Navigating the Road to Efficient C&D Waste Recycling
- Closing the Material Loop – A Value and Trade Chain Assessment for Jaipur City

TRAININGS

- Decarbonization of the built sector -Training on construction and demolition waste (18 pax)
- Waste to Resources – C&D waste and dust management for a circular economy- Training on construction

and demolition waste (17 pax)

- Net Shunya: Decarbonizing the Built Environment - C&D Waste Management- Training on construction and demolition waste (31 pax)
- Circular Pathways in C&D waste management and dust control Habitat -Training on construction and demolition waste (22 pax)
- Climate-Resilient Cities: Adaptive and Mitigative Approaches for a Warming Habitat- Training on city wide climate action x 2 (30 pax)
- Reimagining the Built Environment: A Circular and Climate-resilient Approach- Training on city wide climate action x1 (21 pax)
- Climate and Clean Air Imperatives

for Urban Build Environment- Training on Climate and Clean Air Imperatives for urban build Environment (28 pax)

- Greening the construction sector: Circularity and efficiency in built environment -Greening the Construction Sector (15 pax)
- Sustainable Design Processes with Focus on Cooling Web (44 pax)
- Sustainable building design techniques -Training for govt. construction company on Sustainable design techniques, not-in-kind cooling, energy efficiency (30 pax)

WEBINARS

- Webinar on C&D waste ecosystem

and recycling plants- Webinar on report on recycling plants and way ahead (92 pax)

- Webinar on C&D waste and dust management- Webinar on C&D waste recycling and reuse (55 pax)
- Webinar on release of RE potential in city report (1210 pax)
- The Heat is On - Webinar on heat management (5488 pax)
- Cool Schools: Addressing Heat risks in Students -Webinar on school action for heat (504 pax)

WORKSHOPS/ SEMINARS/ CONFERENCES

- Debris Deliberations: Challenges and Pathways for Construction and Demolition Waste Recycling - Conference on C&D waste recycling and reuse for construction industry and plant operators (61 pax)
- C&D Dust and Waste management - Regional workshop 1 to support C&D waste and dust management in NCR (104 pax)
- Clean Air in Cities: Agenda for Action - Regional workshop 2 to support C&D waste and dust management in Rajasthan (150 pax)
- Conference on Urban Ecology and Environmental Challenges - Seminar on city climate action plan (Urban Framework) (120 pax)
- Climate-Resilient Cities: Adaptive and Mitigative Approaches for a Warming Habitat- Meeting (regional) 1 on city climate action plan. (117 Pax)
- Conference to launch heat toolkit (258 pax)
- Urbanization & Economic Development - Enabling Liveability in Cities - Meetings on heat management in different climatic zones (300 pax)
- Workshop on the West Bengal State Action Plan on Climate Change 2030Workshop SAPCC 2030 West Bengal (77 pax)
- Conference on 'Building heat resilient cities and drivers for

adaptive thermal comfort' - Roundtable on Building Heat Resilient Cities and drivers for adaptive thermal comfort: Climate week 2024 (18 pax)

- Roundtable on Building Heat Resilient Cities and drivers for adaptive thermal comfort: Climate week 2024 (18 pax)
- Workshop on Climate-Resilient Cities: Adaptive and Mitigative Approaches for a Warming Habitat - Meeting (regional) on climate resilient cities (focus on heat management (12 pax)
- Anil Agarwal Dialogue 2025 - Session on 'Why are our cities heating up- urban heat and warm nights' (83 pax)

Environment Education Unit

PUBLICATIONS

- Imprints of change: A compendium of sustainable environmental practices in schools in India
- How can schools become waste-wise? Waste Management in Schools: A GSP Manual
- Renewable energy for schools: Prepare your students to be future-ready
- Solid waste management: In schools, for schools
- Gobar Times: Q1 editions (Apr, May, Jun)
- Gobar Times: Q2 editions (Jul, Aug, Sept)
- Gobar Times: Q3 editions (Oct, Nov, Dec)
- Gobar Times: Q4 editions (Jan, Feb, Mar)

TRAININGS

Online training:

- Knowledge building session on plastic in textiles for GSP network schools: 436 pax
- CLIMATE: Four-week online course on climate change for school teachers, Batch 6: 27 pax
- CLIMATE: Four-week online course on climate change for school teachers, Batch 7: 19 pax
- Solar 30 workshop on renewable energy for Himachal Pradesh schools: 30 pax
- Capacity building session for teachers on food and biodiversity (August): 165 pax
- GSP Audit orientation workshop (September): 944 pax

Onsite Training:

- GSP Audit workshop in collaboration with PSCST: 48 pax
- GSP Orientation workshop for Bharti Airtel Foundation Schools

(January): 62 pax

- AIR: Session on air pollution and mobility for GSP network teachers: 29 pax
- Workshop for teachers from Shiv Nadar School, Noida: 24 pax
- GSP Orientation Workshop District Bilaspur, HP: 28 pax
- GSP Orientation Workshop District Hamirpur, HP: 30 pax
- RE: Solar 30 onsite workshop: 29 pax

SEMINAR, CONFERENCE & CONTESTS

- Climate Convocation 2024: 27 pax
- Climate Convocation 2025: 29 pax
- GSP Carnival 2025: 502 pax
- WASTE: SWM activities for schools (as part of the GSP Carnival)
- Agenda for Survival 2.0 (Session 1: December): 43 pax
- Agenda for Survival 2.0 (Session 2:

- December): 25 pax
- Agenda for Survival 2.0 (session 3: January): 27 pax
- Agenda for Survival 2.0 (Culmination Session: January): 31 pax
- Monthly GEN lecture - April: 122 pax
- Monthly GEN lecture - May: 226 pax
- Monthly GEN lecture - June: 226 pax
- Monthly GEN lecture - July: 207 pax
- Monthly GEN lecture - August: 124 pax
- Monthly GEN lecture - September: 79 pax
- Monthly GEN activity - October (contest)

- Monthly GEN lecture - November: 30 pax
- Monthly GEN lecture - March: 67 pax
- WATER: Online session on rainwater harvesting in schools for teachers: 265 pax
- Young Environmentalist (YE) Cub Reporter's Programme, Day 1: Climate Bites: 130 pax
- YE Cub Reporter's Programme, Day 2: Breaking News 101: 86 pax
- YE Cub Reporter's Programme: A Children's Reporting Contest: 179 pax
- YE Hawa Hawai 3.0-An Air Pollution Quiz: Final Round: 65 pax
- YE Hawa Hawai 3.0-An Air Pollution Quiz: Qualifying Round: 238 pax

- YE E-Camp Extravaganza (June): 561 pax
- YE Masterclass & Contest on AMR (November): 131 pax
- YE Masterclass, A Story Of The Earth And The Earthlings (April): 242 pax
- YE Masterclass, Build It Better (July): 129 pax
- YE Masterclass, Clean Dreams For Sacred Streams (January): 151 pax
- YE Masterclass, Heading To The Hills (May): 164 pax
- YE Masterclass, OMG Extreme Weather! (August): 259 pax

Bio-diversity and Food Programme

PUBLICATIONS

- ↘ IArea-based conservation : 20 questions on the 30x30 target (5199 Downloads)
- ↘ IFactsheet: The issue of Digital Sequence Information on Genetic Resources (4642 Downloads)
- ↘ IFactsheet: Where is the Money for Biodiversity (7072 Downloads)

↘ On a Good Food Hunt

MULTIMEDIA/ LIVE CHATS

- Green Kitchen: 3 seasons so far
- Season 1 – Views: 6882346; Engagements: 56848
- Season 2 – Views: 4731414; Engagements: 62364
- Season 3 – Impressions: 2496496;

Views: 1934342; Engagements: 17882

- Live chat: Green Kitchen Season 2: Rediscovering the Food-Biodiversity-Climate Connect
- Live chat: Rethinking Conservation
- Live chat: Where's the Money for Biodiversity Conservation

Environment Monitoring Laboratory

PUBLICATIONS

- ↘ Monitoring and Evaluation of FSTPs and STP Co-treatment Plants in Uttar
- ↘ Pradesh Recommendations for FSTPS and Co-Treatment Plants in UP

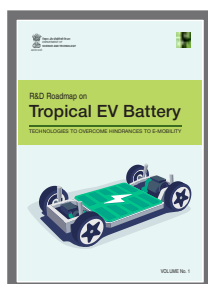
ONSITE TRAINING

- Advanced laboratory training for the lab scientists and technicians on resource recovery from faecal sludge for India and South Asia-1 (Bangladesh), April 2024 (22 Pax)

- Basic laboratory trainings FSM: Capacity building on FSTP laboratory chemists/ technicians-1, June 2024 (23 Pax)
- Advanced laboratory training for the lab scientists and technicians on resource recovery from faecal sludge for India and South Asia-2, August 2024 (24 Pax)
- Basic laboratory trainings FSM: Capacity building on FSTP laboratory chemists/ technicians-2, October 2024 (18 Pax)
- Advanced laboratory training for the lab scientists and technicians

- on resource recovery from faecal sludge for India and South Asia -3, December 2024, (19 Pax)
- Basic laboratory trainings FSM: Capacity building on FSTP laboratory chemists/ technicians -3, February 2025 (18 Pax)
- Refresher Course; Integrated Laboratory Training For Basic And Advance Analysis Of Faecal Sludge: A Guide For Professionals In Faecal Sludge Management, March 2025 (16 Pax)

CSE Publications (2024-25)



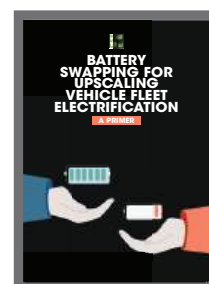
R&D Roadmap on Tropical EV Battery



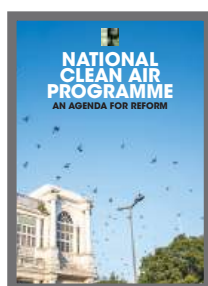
Policy Brief: Making Safe and Durable Electric Vehicles



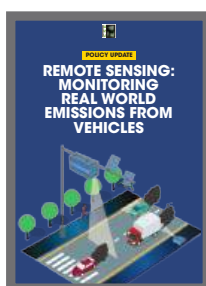
Policy Factsheet: E-Retrofitting Internal Combustion Engines



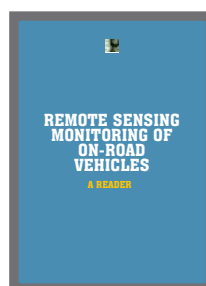
Battery swapping for upscaling vehicle fleet electrification - A Primer



National Clean Air Programme an Agenda for Reform



Remote Sensing: Monitoring Real World Emissions From Vehicles



Remote Sensing Monitoring of On-Road Vehicles



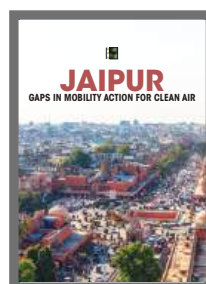
Air quality and Vulnerable groups: An agenda for inclusive and just action



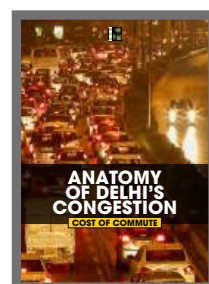
Low Emission Zone: Opportunities and Impacts - The case of Delhi



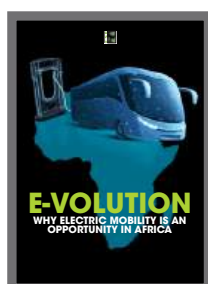
Low Emission Zone: Opportunities and Impacts - The case of Jaipur



Jaipur Gaps in mobility action for clean air



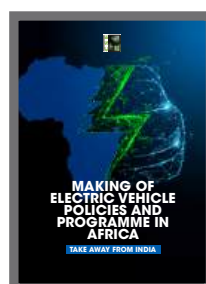
Anatomy of Delhi's Congestion



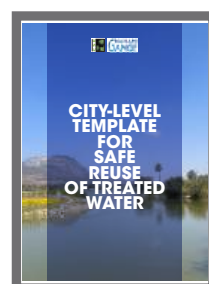
E-Volution: Why electric mobility is an opportunity in Africa



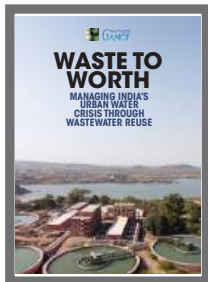
Procurement and Financing of Electric Buses in India Lessons for Africa



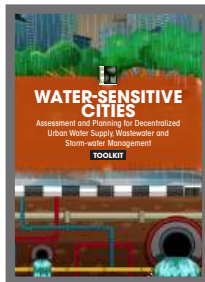
Making of Electric Vehicle Policies and Programme in Africa Take away from India



City-Level Template for Safe Reuse of Treated Water



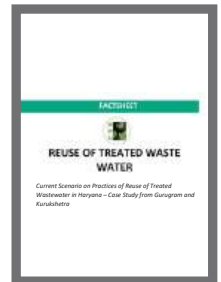
Waste to Worth:
Managing India's Urban
Water Crisis through
Wastewater Reuse



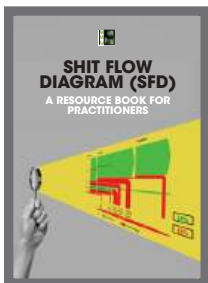
Water-sensitive Cities:
Assessment and Planning for
Decentralized Urban Water
Supply, Wastewater and Storm-
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**Planning for Reuse of
Treated Wastewater at
the State Level**



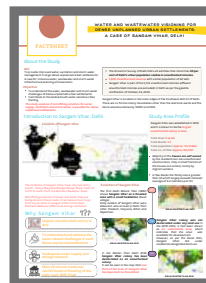
**Reuse of Treated Waste
Water**



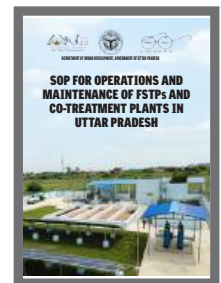
**Shit Flow Diagram
(SFD): A Resource
Book for Practitioners**



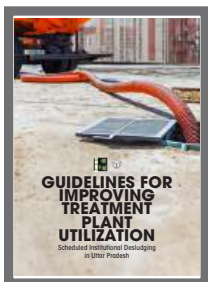
**Water and Wastewater
Visioning for Large, Dense
Unplanned Urban Settlements
in an Era of Climate Risk**



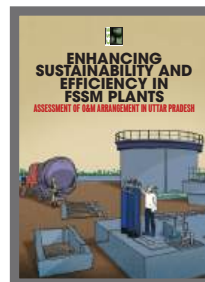
**Water and Wastewater
Visioning for Dense
Unplanned Urban
Settlements: A Case of
Sangam Vihar, Delhi**



**SOP for Operations and
Maintenance of FSTPs and
Co-Treatment Plants in
Uttar Pradesh**



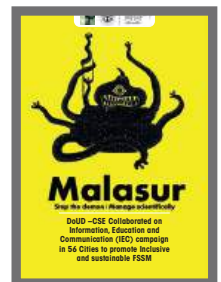
**Guidelines for
Improving Treatment
Plant Utilization**



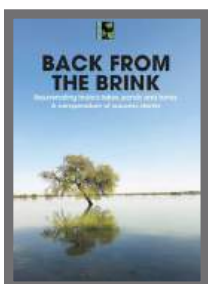
**Enhancing
Sustainability and
Efficiency in FSSM
Plants**



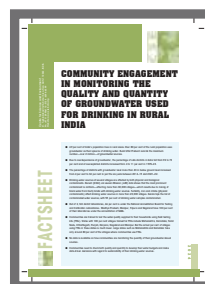
**Guidance note on
Engagement of Self Help
Groups for O and M of
FSTPs and Co-treatment
Plants**



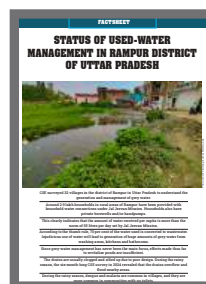
**Malasur: Stop the
demon | Manage
scientifically**



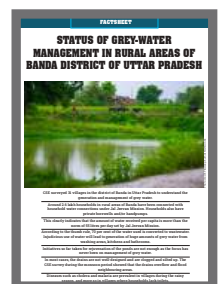
Back from the Brink



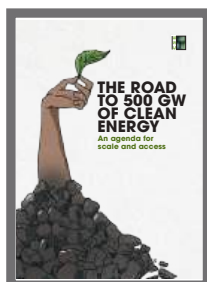
**Factsheet: Community
Engagement in Monitoring
the Quality and Quantity of
Groundwater used for
Drinking in Rural India**



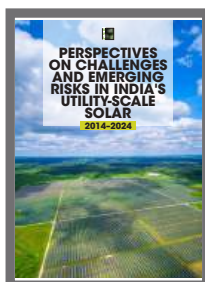
**Status of Grey-Water
Management in Rural
Areas of Rampur
District**



**Status of Grey-Water
Management in Rural
Areas of Banda District
of UP**



The Road to 500 GW of Clean Energy: An agenda for scale and access



Perspectives on Challenges and Emerging Risks in India's Utility-Scale Solar



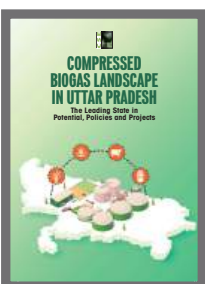
Developing an Effective State-Level Compressed Biogas Policy in India: Current Status and Key Strategies-Policy Brief



Accelerating Wind Repowering in Tamil Nadu



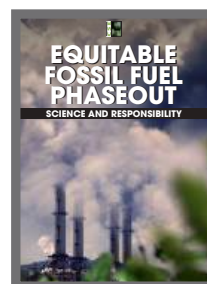
Implementation Challenges of the PM-Kusum Scheme



Compressed Biogas Landscape in Uttar Pradesh



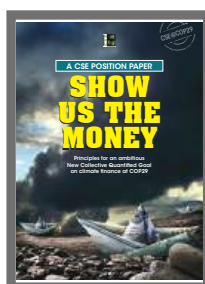
Paris Alignment Paper 1: What is Article 2.1c and how do interpretations differ?



Equitable Fossil Fuel Phaseout: Science and Responsibility



Carbon Border Adjustment Mechanism (CBAM)



Show Us the Money: A CSE COP29 Position Paper



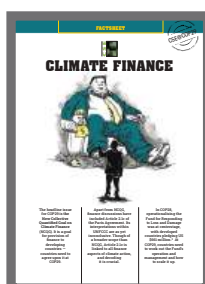
Carbon Markets in Africa: An Overview



COP29 Factsheet: Mitigation



COP29 Factsheet: Global Goal on Adaptation



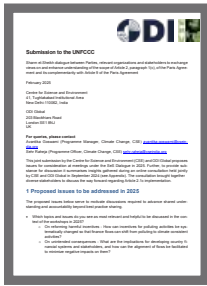
COP29 Factsheet: Climate Finance



COP29 Factsheet: Article 6 of the Paris Agreement



CSE India: Submission on call for input 2024 - Issues included in the annotated agenda



CSE India: Submission on call for topics for discussion in 2025 under the Sharm el-Sheikh dialogue



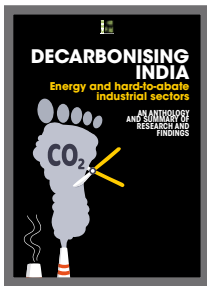
Strengthening Environmental Reporting Under BRSR



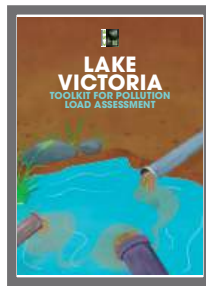
The Indian Carbon Market: Pathway Towards an Effective Mechanism



Good practices in Industrial waste circularity- A compendium



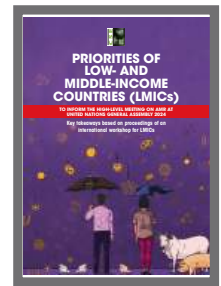
Decarbonising India: Energy and Hard-to-Abate Sectors. An Anthology and Summary of Research and Findings



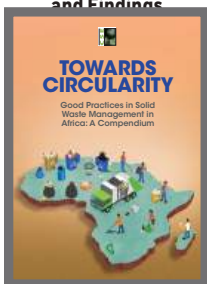
Lake Victoria: Toolkit for Pollution Load Assessment



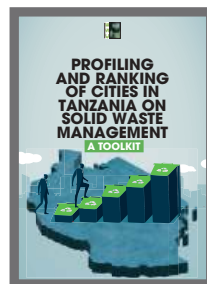
Africa's Wasted Potential: Unlocking Industrial Waste in Circularity



Priorities of Low- and Middle-Income Countries to Inform HLM on AMR at UNGA 2024



Towards Circularity: Good Practices in Solid Waste Management in Africa



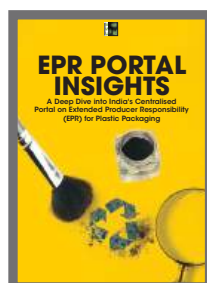
Profiling and Ranking of Cities in Tanzania on Solid Waste Management



Profiling and Ranking of Local Government Authorities in Eswatini on Solid Waste Management



Footwear Waste Management in Agra



EPR Portal insights A Deep Dive into India's Centralized Portal for Plastic Packaging



Gainful Utilization of Segregated Combustible Fraction (SCF) Recovered from Biomining of Legacy Waste Dumpsites in India



Change is Possible: Urban solid waste management: Stories of transformation from India



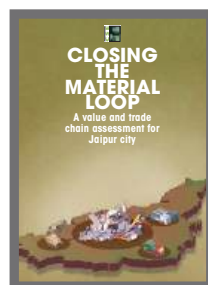
Planning and Designing Habitat in Climate-Risk Times: Heat toolkit



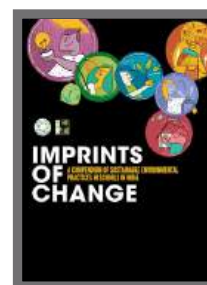
The Cool School Manual



Rubble Recast:
Navigating The Road to Efficient C&D Waste Recycling



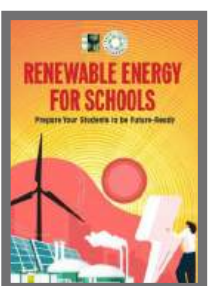
Closing the Material Loop
- A Value and Trade Chain Assessment for Jaipur City



Imprints of change: A compendium of sustainable environmental practices in schools in India



Waste Management in Schools: A Manual for Schools to Become Waste-Wise



Renewable Energy for Schools - Prepare Your Students to be Future-Ready



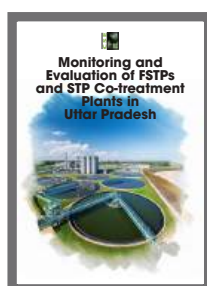
Solid waste management: in schools, for schools



Area-based conservation : 20 questions on the 30x30 target



On a Good Food Hunt



Monitoring and Evaluation of FSTPs and STP Co-treatment Plants in Uttar Pradesh



Recommendations for FSTPs and Co-Treatment Plants in UP

EXECUTIVE BOARD



Raj M.S. Liberhan (Chairperson)

is a management and financial expert, has varied experience, with a significant range of responsibilities at the senior level in government, public sector and NGO environments, building and sustaining organisations, programmes and missions with sector-specific objectives and services. He served as Chief Executive of the India Habitat Centre, New Delhi, for 15 years and helped create a unique institutional mechanism.



A.K. Shiva Kumar (Treasurer)

is a development economist and professor. He teaches various courses at Harvard University, Indian School of Business and the Young India Fellowship. He served as the Director of the International Centre for Human Development, New Delhi. In addition to serving as an advisor to UNICEF India, he was a member of India's National Advisory Council. He is a recipient of the MacArthur Fellowship, Mason Fellowship and the Certificate of Excellence in Teaching from Harvard University.



Prof. Ramaswamy Sudarshan (Member)

has had distinguished careers in the domains of research, development programming and governance. He has a Master's degree in Economics from the Delhi School of Economics and a Master's degree in Politics from the University of Oxford. He worked with UNDP from 1991 to 2011. In 2012, he joined the O.P. Jindal Global University as the founding Dean of the Jindal School of Government and Public Policy. He has an impressive track record of publications comprising books, articles and UN policy reports, reflecting his interdisciplinary research, teaching and policy experience in development programmes, human development, law, governance, institutions and policy.



Sunita Narain (Director General)

has been with the Centre for Science and Environment since 1982. In her years at the Centre she has worked both to analyse and study the relationship between environment and development and to create public consciousness about the need for sustainable development. Her research interests range from global democracy, with a special focus on climate change, to the need for local democracy where she has worked on forest-related resource management and water issues. She serves on the boards of different organisations and on governmental committees and has spoken at many forums across the world on issues of her concern and expertise. Sunita Narain has devoted a great deal of her time to develop the management and financial support systems needed to make CSE strong and sustainable. She has greatly contributed to the institution of management systems that ensure that CSE produces quality work consistently.



Jagdeep Gupta (Member)

is currently the Executive Director, Planning and Operation. She brings a rare and befitting mix of a pure science background with a degree in management, indispensable to understanding the nature of work and the ethos behind an organization like CSE. Over the years she has shown her excellence in acquiring the best talents, developing a wholesome system of monitoring the research outcomes, providing the best infrastructural facilities, developing a wide array of important contacts, and widening the outreach of CSE's research publications. Her forte has been her human management skills, which gives her the edge to handle problem situations with a balanced and unbiased approach. Needless to say, it requires a lot of grit and tenacity to manage so many divergent verticals, which she does with immense ease. She stands as a strong pillar with huge institutional memory and has great contributions to the growth of CSE in many different ways.



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