

# MAINSTREAMING SUSTAINABILITY

Year in Review  
2021-22





# CEEW at a Glance

## Impacting Sustainable Development at Scale

### TRANSFORMATIONS

Low-carbon Economy  
Energy Transitions  
Power Markets  
Industrial Sustainability  
Sustainable Livelihoods

### QUALITY OF LIFE

Clean Air  
Sustainable Water  
Sustainable Food Systems  
Sustainable Cooling  
Sustainable Mobility

### ENABLERS

Sustainable Finance  
Technology Futures  
Circular Economy  
Climate Resilience  
International Cooperation

### CEEW TALISMAN

Fight ignorance | Stay true | Raise the bar

### VALUES

Integrated | International | Independent

### SPECIAL INITIATIVES

CEEW Centre for Energy Finance | Powering Livelihoods

**200+**  
Multidisciplinary  
team

**22+**  
States engaged

**380+**  
Partners

CEEW's growth as a recognised and ranked public policy research institution owes much to the trust, collaboration and contribution of our partners from across sectors and geographies since our inception in 2010. Our deep gratitude and many thanks to peerless organisations, institutions and individuals who have enabled and empowered us to stay true to our purpose.



Scan to see our valued partners

"Institutions are like trees. They need vision and nurturing, but the best ones stand on their own, resilient, independent and always reaching higher than the day before. CEEW is an institution."



The cover illustration is part of a bespoke mural at the CEEW office. It reimagines sustainability as a way of being.

Image: CEEW/Kartikya Jain





# STRATEGIC OUTREACH



Images: CEEW



“CEEW has enabled India’s leadership in sustainable cooling innovations that could help maximise economic gains.”

SHRI BHUPENDER YADAV

L to R from top

**R. K. SINGH, Minister of Power, and New and Renewable Energy, Government of India (GoI),** at the event, *New Frontiers – India’s Citizen-Centric Energy Transition*, held to felicitate Indian cities and organisations that have submitted their UN Energy Compacts with CEEW as the knowledge partner, 16 February 2022.

**BHUPENDER YADAV, Minister of Environment, Forest and Climate Change (MoEFCC), and Labour & Employment, GoI,** at the CEEW-SHEETAL national dialogue, *How can India Lead a Sustainable Cooling Transition?* 13 May 2022.

**BHAGWANTH KHUBA, Minister of State for New and Renewable Energy, and Chemicals and Fertilizers, GoI,** at the event, *New Frontiers – India’s Citizen-Centric Energy Transition*, held to felicitate Indian cities and organisations that have submitted their UN Energy Compacts with CEEW as the knowledge partner, 16 February 2022.



“The MoU with CEEW-Villgro is a significant step forward for Uttar Pradesh towards women’s empowerment, ensuring energy efficiency, and increasing incomes of people in the state.”

SHRI KESHAV PRASAD MAURYA

L to R from top

**ASHOK GEHLOT, Chief Minister of Rajasthan,** at the webinar on CEEW’s study on scaling sustainable agriculture in Rajasthan, during the 3rd meeting of the Chief Minister Rajasthan Economic Transformation Advisory Council (CMRETAC), 05 March 2022.

**HEMANT SOREN, Chief Minister of Jharkhand,** at the launch of the *Jharkhand State Solar Policy 2022*, co-authored by CEEW and the Jharkhand Renewable Energy Development Agency (JREDA), 05 July 2022.

**KESHAV PRASAD MAURYA, Deputy Chief Minister of Uttar Pradesh,** at the UPSRLM-Prerna Ojas-CEEW MoU signing event with CEEW and Villgro, 06 July 2021.



Images: CEEW





Images: CEEW

L to R from top

**KEVIN M. RUDD AC**, former Prime Minister of Australia, at the CEEW-Asia Society Policy Institute roundtable, *Exploring Synergies between Asian Countries in Pursuit of Net-Zero Asia - An Indian Perspective*, 25 August 2022.

**STEFAN LÖFVEN**, former Prime Minister of Sweden, at a virtual CEEW briefing on the UN High-Level Advisory Board on Effective Multilateralism, 02 June 2022.

**BAN KI-MOON**, former Secretary General, UN, at the CEEW-Asia Society Policy Institute roundtable, *Exploring Synergies between Asian Countries in Pursuit of Net-Zero Asia - An Indian Perspective*, 25 August 2022.

**INGER ANDERSEN**, Under-Secretary-General, UN, and Executive Director, UNEP, at a Stockholm+50 event moderated by CEEW and Stockholm Environment Institute (SEI) during COP26 at the Nordic Pavilion, 10 November 2022.



“We welcome our collaboration with CEEW to help developing country parties identify their capacity needs as well as access support opportunities to enhance and submit their biennial transparency reports.”

**OVAIS SARMAD**



L to R from top

**OVAIS SARMAD**, Deputy Executive Secretary, UN Climate Change Secretariat, at the announcement of the UNFCCC-CEEW strategic partnership to develop a framework to enhance the capacity of developing countries to report on climate change, 21 March 2022.

**NITIN DESAI**, former Under-Secretary-General for Economic and Social Affairs, UN, at the CEEW-Asia Society Policy Institute roundtable, *Exploring Synergies between Asian Countries in Pursuit of Net Zero Asia - An Indian Perspective*, 25 August 2022.

**LEENA NANDAN**, Secretary, MoEFCC, GoI, at the CEEW-SHEETAL national dialogue, *How can India Lead a Sustainable Cooling Transition?* 13 May 2022.

**N. K. SINGH**, Chairman, 15th Finance Commission, at a CEEW-JCB roundtable, *Green Hydrogen: Opportunities for India-UK Partnership*, 22 April 2022.



Images: CEEW





Images: CEEW



**“With CEEW as a knowledge partner for the implementation of the Revamped Distribution Sector Scheme (RDSS), we can build capacities within REC Ltd and discoms to undertake evidence-based research to help improve discom performance and bring down their financial losses.”**

**R. LAKSHMANAN**



**“We welcome our partnership with CEEW to support the Small Island Developing States (SIDS) and other vulnerable countries to identify and devise a common framework to mainstream disaster and climate resilience for infrastructure development.”**

**SHRI KAMAL KISHORE**

L to R (previous page)

**INDU SHEKHAR CHATURVEDI**, then Secretary, Ministry of New and Renewable Energy (MNRE), GoI, at the roundtable discussion, *Circular Economy of Solar Photovoltaics*, organised with CEEW as its knowledge partner, 07 June 2022.

**ABHAY BAKRE**, Director General, Bureau of Energy Efficiency, at the CEEW-SHEETAL national dialogue, *How can India Lead a Sustainable Cooling Transition?* 13 May 2022.

**R. LAKSHMANAN**, then Executive Director, REC Limited, at the CEEW-RECL MoU signing event to collaborate on improving operational and financial sustainability of discoms, 07 July 2022.

**KAMAL KISHORE**, Indian Co-Chair of CDRI's Executive Committee, and Member Secretary, National Disaster Management Authority, GoI, at the CEEW-IMD national dialogue, *How can India Make Climate Information People-Centric?* 30 August 2022.

Top to Bottom (this page)

**JUAN ANGULO**, Ambassador of Chile to India, concurrent to Bangladesh, Sri Lanka and Nepal, at the CEEW webinar, *A Multilateral Approach to Building a Global Hydrogen Economy*, 08 September 2021.

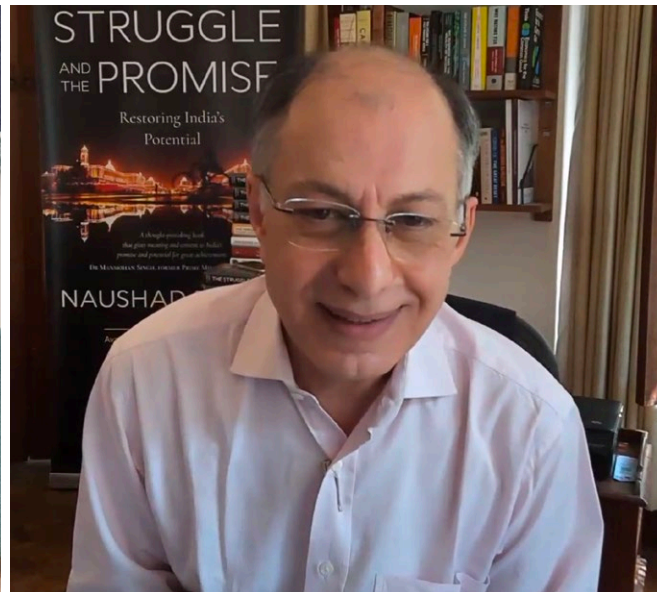
**EMMANUEL LENAIN**, Ambassador of France to India, at the CEEW-French Embassy workshop, *Indo-French Partnership to Power a Decarbonised Hydrogen Industry*, 23 May 2022.

**HANS JACOB FRYDENLUND**, Ambassador of Norway to India, at CEEW for a discussion on technology co-development collaborations for India's energy transition, 06 April 2022.



Images: CEEW





Images: CEEW



L to R from top

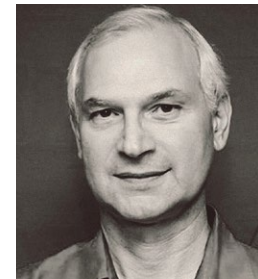
**JAMSHYD N. GODREJ, Chairman and Managing Director, Godrej & Boyce Manufacturing Company Limited,** at the CEEW-Asia Society Policy Institute roundtable, *Exploring Synergies between Asian Countries in Pursuit of Net-Zero Asia - An Indian Perspective*, 25 August 2022.

**DR NAUSHAD FORBES, Co-Chairman, Forbes Marshall,** at the CEEW fireside chat, *How can India Achieve Jobs, Growth and Sustainability?* 22 February 2022.

**DR JANMEJAYA SINHA, Chairman India, Boston Consulting Group,** at the CEEW-Villgro webinar, *Powering Livelihoods in the Global South: Energy Transition for Citizen-centric Development*, 04 October 2021.



# FROM THE CHAIRPERSON AND CEO



**JAMSHYD N. GODREJ**  
Chairman, CEEW



**ARUNABHA GHOSH**  
CEO, CEEW

## How do you build a world for tomorrow?

You shape it today.

2022 was the year that changed everything. A war in one region created an energy crisis for all, but there was also a conflict about growth versus sustainability in all major economies. In 2022, the urgent and the important melded into one.

As India sits firmly in the driver's seat of the G20 in 2023, it's time to showcase why we can be the voice for the Global South. And CEEW, as a strategic partner to several government ministries for the G20 Presidency, is shaping and mainstreaming ambitious roadmaps to a sustainable future. Whether it is informing the national green hydrogen mission, mobilising finance for India's net-zero transition, scaling sustainable agriculture, creating plans to revamp the power sector, creating a circular economy for renewables, or situating people at the centre of climate policies and action. Our team of 200+ professionals is not just thinking about the here and now, but also acting to shape the future we want.

CEEW's work spreads across the global, national, sub-national, and local levels – India's cities and villages. Our calculations and collaborations spread upwards into other countries, setting a global agenda at the Stockholm+50 summit and through our work in other emerging economies. Our analysis and actions also spread downwards in supporting 22 state governments within India with their plans for sustainability.

Last year, we also opened the doors to our new offices in Delhi and Lucknow, with our principles built into the foundations of the buildings – integrated, international, and independent. From recycled furniture and upcycled material to biodegradable flooring and energy-efficient lighting, every corner has a sustainability story to tell. It ties into Mission LiFE (Lifestyle for Environment), an India-led global people's movement to nudge individual behaviours and enable markets to redefine our aspirations for a sustainable future. And CEEW has played an integral part in devising the economic framework for sustainable lifestyles.

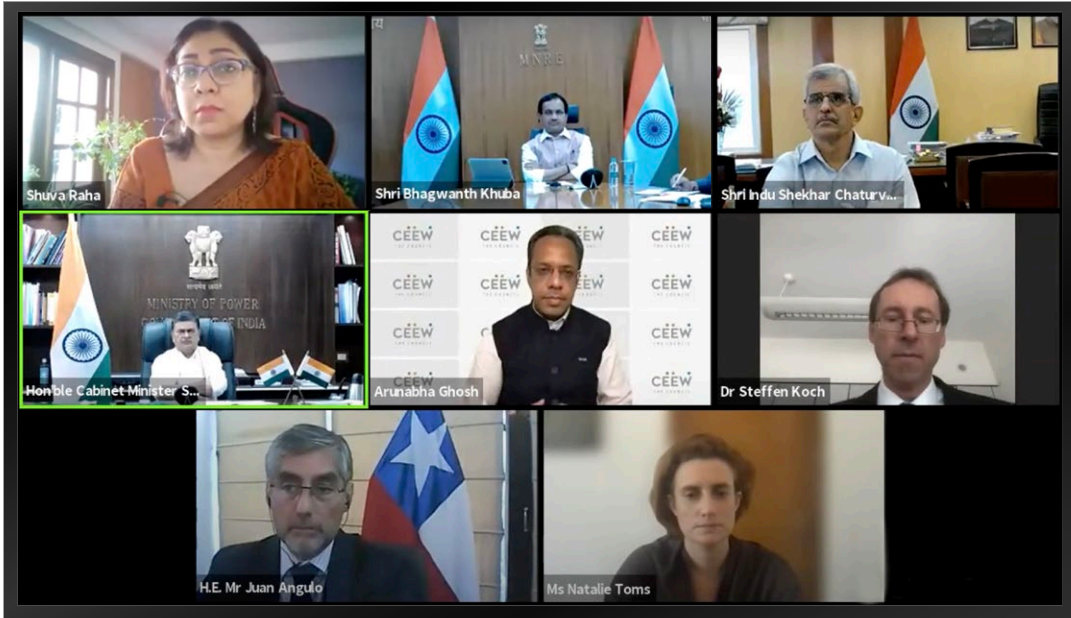
We cannot fix the planet on which we live, without fixing how we live. Can we be a brave new world again? India has already set the ball rolling with its climate leadership. And CEEW is proud to be a strategic partner in that journey, at home and in the world.



# MOVING THE NEEDLE NATIONALLY

- Informing the National Green Hydrogen Mission
- Supporting India's Sustainable Cooling Goals
- Mainstreaming Decentralised Renewable Energy Technologies for Livelihoods
- Scaling-up Sustainable Agriculture
- Revamping the Power Distribution Sector
- Shaping India's Circular Economy for Solar Waste
- Making Climate Information People-centric
- Mobilising Finance for India's Net-Zero Transition

## Informing the National Green Hydrogen Mission



L to R from top:  
**SHUVA RAHA**, Head, New Initiatives, CEEW; **BHAGWANATH KHUBA**, Minister of State for New and Renewable Energy, and Chemicals and Fertilizers, GoI; **INDU SHEKHAR CHATURVEDI**, then Secretary, MNRE, GoI; **R. K. SINGH**, Minister for Power and New and Renewable Energy, GoI; **ARUNABHA GHOSH**, CEO, CEEW; **STEFFEN N. KOCH**, Minister and Head of Department for Economics & Global Affairs, Embassy of the Federal Republic of Germany; **JUAN ANGULO**, Ambassador of Chile to India, concurrent to Bangladesh, Sri Lanka and Nepal; and **NATALIE TOMS**, then Economic, Climate & Development Counsellor, British High Commission, New Delhi, India, at the CEEW webinar, *A Multilateral Approach to Building a Global Hydrogen Economy*, 08 September 2021.

CEEW provided technical advice to the Ministry of New and Renewable Energy (MNRE), GoI, in developing the *National Green Hydrogen Mission*. We provided inputs on the sizing of electrolyzers, developed water consumption estimates for green hydrogen projects, the impact of green hydrogen blending on the prices of CNG and PNG, refinery products and fertiliser units, and gap assessment of hydrogen safety standards in India. We continue to advise multiple stakeholders on the governance, production and end-use of green hydrogen.

**INR ~400 billion**  
can be saved by offsetting 68%  
natural gas imports, if India achieves  
the target of 5 MTPA green hydrogen  
production by 2030

Source: CEEW analysis

#CEEW Pride

CEEW's STUDY ON GREEN STEEL ARCHIVED IN THE  
US LIBRARY OF CONGRESS

CEEW's study, *Greening Steel - Moving to Clean Steelmaking Using Hydrogen and Renewable Energy*, has been archived in the US Library of Congress, November 2021.





# Supporting India’s Sustainable Cooling Plans



CEEW organised a national dialogue, *How can India Lead a Sustainable Cooling Transition?* as part of the SHEETAL consortium, May 2022. It brought together key stakeholders in the Heating, Ventilation and Air Conditioning (HVAC) sector from the government, industry, and academia. The experts underscored the need for enhanced implementation and accountability under the *India Cooling Action Plan* (ICAP), the first such official plan on sustainable cooling in the world, co-authored by the Ministry of Environment, Forest and Climate Change (MoEFCC), GoI, CEEW, and other partners.



CEEW’s **SHIKHA BHASIN** at the CEEW-SHEETAL national dialogue, *How can India Lead a Sustainable Cooling Transition?* 13 May 2022.



“If we align our goals under the ICAP with the larger goals of our COP26 announcements, we can have a stronger, more integrated approach to meet our climate commitments.”

**LEENA NANDAN**, Secretary, MoEFCC, GoI at the CEEW-SHEETAL national dialogue, *How can India Lead a Sustainable Cooling Transition?* 13 May 2022.

(L to R) **LEENA NANDAN**, Secretary, MoEFCC, GoI; **BHUPENDER YADAV**, Minister of Environment, Forest and Climate Change, and Labour and Employment, GoI; and **ARUNABHA GHOSH**, CEO, CEEW at the CEEW-SHEETAL national dialogue, *How can India Lead a Sustainable Cooling Transition?* 13 May 2022.



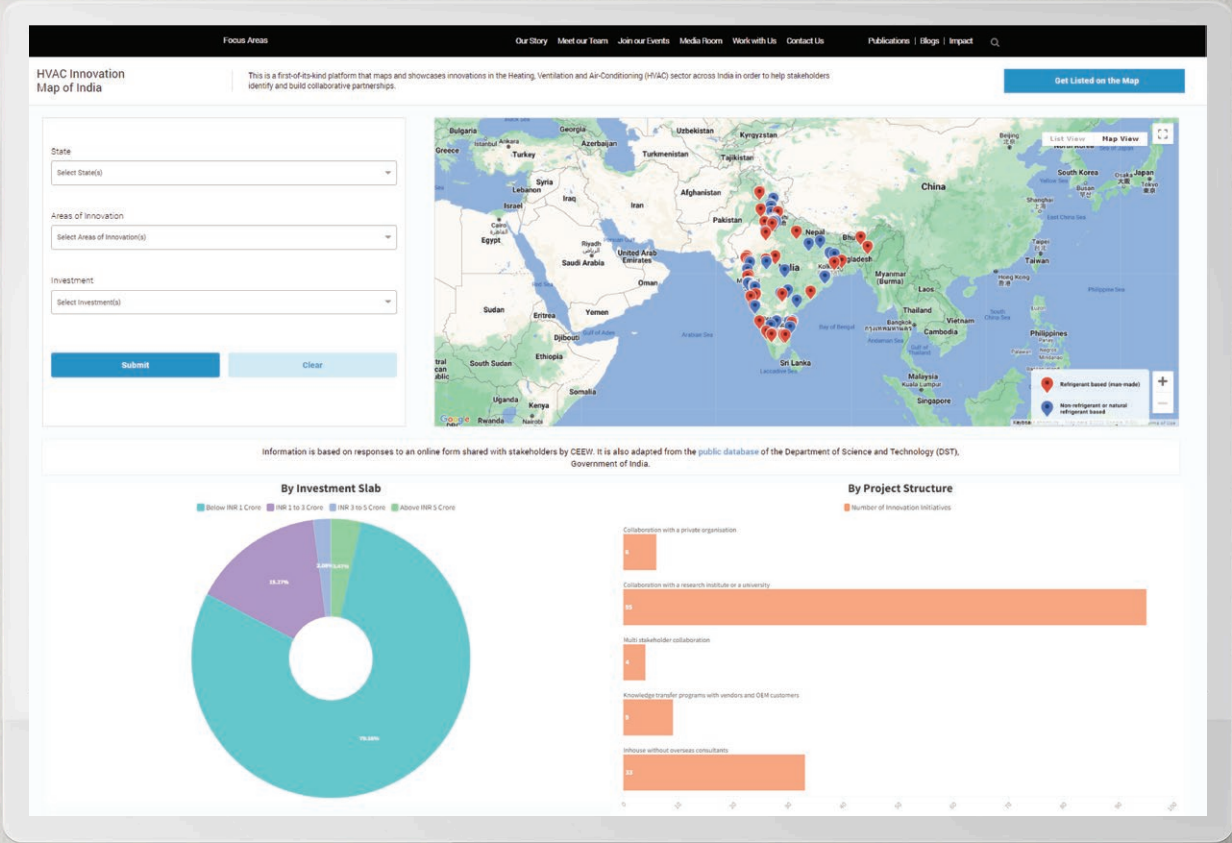
CEEW has signed an MoU with the Refrigeration & Air-conditioning Trades Association (RATA) to build capacity and market readiness of MSMEs operating in India’s HVAC sector, October 2021; an MoU with the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) to galvanise efforts towards deployment of sustainable cooling technologies and practices, December 2021.

## HVAC INNOVATIONS DASHBOARD NOW LIVE!

CEEW has developed India’s first HVAC Innovation Dashboard that showcases over 150 innovations in the sector. The dashboard aims to encourage collaborative research and development (R&D) among different stakeholders.



Explore the dashboard here: <https://www.ceew.in/cooling-dashboard>







# Mainstreaming Decentralised RE Technologies for Livelihoods

CEEW's research and experience of rolling out 'Powering Livelihoods' (PL), a joint initiative with Villgro, contributed to drafting the policy framework released by MNRE to promote decentralised renewable energy (DRE) for livelihood applications.



CEEW's **DIVYA GAUR** (R) and **WASE KHALID** (C) conducting an impact assessment of the PL programme in Gumla, Jharkhand, December 2021.

**>USD 50 billion**  
the market potential for DRE-based livelihood solutions in India

Source: CEEW analysis



**“The DRE policy for livelihood applications focuses on scaling field-tested solutions and promoting new and innovative solutions to power micro-entrepreneurship and productivity in rural India. CEEW's range of work on DRE applications and their support in formulating the policy is appreciable.”**

**JEEVAN KUMAR JETHANI**, Senior Director/Scientist-F, MNRE, GoI

## About the DRE Policy Framework

This first-of-its-kind policy framework positions India as formally championing DRE for livelihood applications. It was released in February 2022, and will be critical to realise the market potential of this sector and support millions of jobs in the process. It emphasises a gender-inclusive approach to mainstream DRE for livelihoods by assessing demand, catalysing innovation, unlocking finance, generating awareness, and supporting pilots and scale-ups.



## Impact of the Powering Livelihoods Initiative

**77.2%**  
women out of 13,669 end-users

**9,106**  
deployments of PL-supported technologies

**2.7x**  
increase in cumulative revenues of targeted microenterprises

Source: CEEW-Villgro analysis  
(as of August 2022)



CEEW's **ABHISHEK JAIN** (C) at the session, *India: Unlocking an Inclusive Energy Transition*, held at Sustainable Energy for All Forum (SEforALL) event, organised by the GoI and the Global Energy Alliance for People & Planet (GEAPP) in Kigali, Rwanda, 18 May 2022.



**“UNDP's efforts to support communities across the globe to advance the transition to a zero-carbon future are closely aligned with the Powering Livelihoods programme.”**

**ACHIM STEINER**, Administrator, United Nations Development Programme, and Vice-Chair, UN Sustainable Development Group, at the CEEW-Villgro webinar, *Powering Livelihoods in the Global South: Energy Transition for Citizen-centric Development*, 04 October 2021.



**“The PL programme's technical assistance and networks have helped boost milk production and storage for our group through solar refrigerators. They prevent milk spoilage during the summers when temperatures peak. Increased shelf life of our products gives us more bargaining power.”**

**MEERA JATT**, Chairperson, Maitree Mahila Dairy & Agriculture Company Limited, Rajasthan, and a Powering Livelihoods end-user.

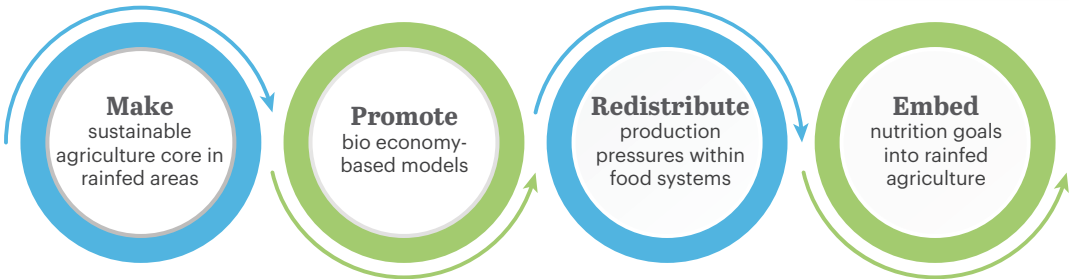




# Scaling-up Sustainable Agriculture

CEEW co-developed the draft policy, *Accelerating the Growth of Rainfed Agriculture - Integrated Farmers Livelihood Approach*, with the National Rainfed Agriculture Authority (NRAA), Ministry of Agriculture & Farmer Welfare, GoI. The draft policy was released for public consultation in July 2022.

The policy draft for accelerating development of rainfed agriculture drives four essential paradigm shifts.



(L to R) SHANAL PRADHAN, Programme Associate, CEEW; ABHISHEK JAIN, Fellow and Director - Powering Livelihoods, CEEW; APOORVE KHANDELWAL, Senior Programme Lead, CEEW; ASHOK DALWAI, CEO, NRAA; JAI MISHRA, Adviser, NITI Aayog; B. RATH, Technical Expert (Water Management), NRAA; BABITA SINGH, former Senior Technical Consultant (Agriculture and Horticulture), NRAA.



# Revamping the Power Distribution Sector



CEEW has an MoU with REC Ltd to collaborate on activities to improve the operational and financial sustainability of distribution companies (discoms). We will strengthen the power distribution networks and improve quality of service for electricity consumers across India through the deployment of smart meters.

Under this partnership, CEEW is conducting primary and secondary research to help discoms in their efforts to deploy smart meters. CEEW's research will also help leverage smart metering infrastructure for improved service delivery and ensure a positive consumer experience.



(L to R) SUNIL MANI, Programme Lead, CEEW; VIVEK CHHAJER, Chief Manager, REC Ltd; R. K. GUPTA, Chief General Manager (Technical), REC Ltd; R. LAKSHMANAN, then Executive Director, REC Ltd; ARUNABHA GHOSH, CEO, CEEW; SHALU AGRAWAL, Senior Programme Lead, CEEW; PRATEEK AGGARWAL, Programme Lead, CEEW, at the MoU signing, 07 July 2022.

(L to R) CEEW's HARSHA V. RAO, DISHA AGARWAL, PRATEEK AGGARWAL, DHIRUVAK AGGARWAL, VAIBHAV PRATAP SINGH, and TARUN MEHTA at the NTPC Dadri power plant exploring thermal power plant operations and management, 12 April 2022.

## #CEEW Pride



CEEW's KARTHIK GANESAN was appointed to the Expert Committee overseeing selection of applications and overall monitoring of POWERTHON, a hackathon launched by the Ministry of Power to find technology-driven solutions to solve the complex problems in power distribution and ensure quality and reliable power supply, March 2022.



CEEW's VAIBHAV CHATURVEDI was invited to join the MoEFCC Task Force 1 on Power Sector Decarbonisation within the ambit of India's Long-Term Low-Carbon Development Strategy, April 2022.





# Shaping India's Circular Economy for Solar Waste

CEEW has been appointed as the Knowledge Partner by MNRE to support a circular economy in solar in India. This includes assistance over e-waste management rules, solar photovoltaic (PV) waste estimation, and an R&D ecosystem for recycling technologies.



Images: CEEW



CEEW's recommendation for a closed-bidding mechanism procurement for new wind capacity to help India achieve 140 GW of wind capacity by 2030 was accepted and announced by the MNRE, April 2022.

CEEW's assessment of the socio-economic benefits of the *New National Biogas and Organic Manure Programme (NNBOMP)*, and the *Programme on Energy from Urban, Industrial, Agricultural Wastes/Residues and Municipal Solid Waste (2019-20)* for the MNRE led to budgetary approvals from the Ministry of Finance to continue with the central subsidy support to these schemes, July 2022.

(L to R) CEEW's **AKANKSHA TYAGI**, **NEERAJ KULDEEP**, and **KARTHIK GANESAN** at the roundtable, *Circular Economy in Solar Photovoltaics*, organised by MNRE, GoI, 07 June 2022.



# Mobilising Finance for India's Net-Zero Transition

Having informed India's net zero goal of 2070, CEEW has been at the forefront of facilitating India's transition by estimating investments and derisking sustainable finance.

CEEW-Centre for Energy Finance's first-of-its-kind study estimated that India's power, industrial, and transport sectors would need investments of USD 10.1 trillion for the nation to achieve net-zero by 2070.

**USD 8.4 trillion** worth of investment needed by India's power sector alone to achieve net zero

**USD 1.5 trillion** needs to be invested in green hydrogen production capacity to decarbonise India's industrial sector

All data points: CEEW analysis



CEEW's **ARUNABHA GHOSH** was appointed member of the *Advisory Group for the G20 Finance Track Agenda for India's 2023 G20 Presidency*, January 2022.



CEEW-CEF's **ARJUN DUTT** was a special invitee as a sector expert in the **Taxonomy Working Group**, September 2021. This task force on sustainable finance was constituted by the Ministry of Finance and co-chaired by NITI Aayog and MoEFCC.



CEEW  
THE COUNCIL

Centre for  
Energy Finance

### Investment Sizing India's 2070 Net-Zero Target

Vaibhav Pratap Singh and Gagan Sidhu  
Issue Brief | November 2021

#### Executive summary

On 1 November 2021, India's Prime Minister declared that India would achieve net-zero emissions by 2070. The announcement made at COP26 in Glasgow was in tandem with a declaration of an enhancement of India's Paris commitments. Achieving net-zero involves technology pathways as well as financial flows. These finance flows, or investments, are required to fund the construction of the associated physical infrastructure (total investment). In India's case, such investments will run into trillions of dollars. The investment requirement curve would have been steeper if the time taken to reach net-zero was to be reduced further. The mobilisation of investments to achieve net-zero

expectedly will be sourced from domestic banks, Non-Banking Finance Companies (NBFC), and debt capital markets, both domestic and international. However, a gap remains (investment gap) between the total investment required to achieve net-zero and the amount that can be reasonably mustered from conventional sources.

Along with the sectoral deployment of different technologies, India's net-zero commitment will require immense capital investment in infrastructure.

Table 1: Net-zero investment gap, and required for India's net-zero target scenarios

Scenario	Investment Gap (USD Trillion)	Required Investment (USD Trillion)
Net-zero by 2070 (Scenario 1)	8.4	10.1
Net-zero by 2070 (Scenario 2)	8.4	10.1
Net-zero by 2070 (Scenario 3)	8.4	10.1
Net-zero by 2070 (Scenario 4)	8.4	10.1
Net-zero by 2070 (Scenario 5)	8.4	10.1

Table 2: Investment gap per decade for India's 2070 net-zero target

Decade	Investment Gap (USD Trillion)	Required Investment (USD Trillion)
2020-2029	0.8	1.0
2030-2039	1.2	1.5
2040-2049	1.8	2.5
2050-2059	2.5	4.0
2060-2069	3.2	6.0
2070-2079	4.0	8.0





# Making Climate Information People-centric



CEEW and the India Meteorological Department (IMD) organised the national dialogue, *How can India Make Climate Information People-Centric?* in August 2022. The dialogue brought together key stakeholders, including central agencies such as the National Disaster Management Authority (NDMA), State Disaster Management Authorities, and meteorological agencies, to improve impact-based forecasting and end-to-end information dissemination to vulnerable communities through a comprehensive Multi-Hazard Early Warning System (MHEWS) at the national and sub-national levels.



CEEW's **SHREYA WADHAWAN** presented the team's research on mapping India's vulnerable districts and the need for early warning systems at the CEEW-IMD national dialogue, *How can India Make Climate Information People-Centric?* 30 August 2022.

**27/35 states and UTs\*** in India are highly vulnerable to extreme hydro-met disasters and their compounded impacts

**>80%** of India's population lives in districts highly vulnerable to extreme hydro-met disasters

\* as per 2011 Census  
All data points: CEEW analysis



**"I congratulate CEEW for taking this important and timely initiative to help connect people with multi-hazard early warning systems."**

**DR MRUTYUNJAY MOHAPATRA**, Director General of Meteorology, IMD  
at the CEEW-IMD national dialogue, *How can India Make Climate Information People-Centric?* 30 August 2022.

CEEW became the the first Indian think-tank to sign an MoU with the Coalition for Disaster Resilient Infrastructure (CDRI), in July 2022.



**AMIT PROTHI**, Director General, CDRI (L) and **ARUNABHA GHOSH**, CEO, CEEW, at the MoU signing event, 12 July 2022.



CEEW's **NITIN BASSI** (L) presenting on water management and climate action in cities at the *City Climate Alliance Partners Consultation for CITIIS 2.0*, organised by National Institute of Urban Affairs, 04 August 2022.

## #CEEW Pride CEEW's CLIMATE STUDY FEATURES IN LOK SABHA SESSIONS



Lok Sabha questions related to India's preparedness on climate change and the nation's vulnerability were tabled at the Winter Session of Parliament (Lok Sabha Question. Diary No. 86 for answer on 29.11.2021 reg. Climate Vulnerability Index) based on CEEW's first-of-its-kind study, *Mapping India's Climate Vulnerabilities: A District Level Assessment*.





# DRIVING CHANGE IN THE STATES

**Informing** Solar Policies of Jharkhand and Uttarakhand

**Enabling** Low-carbon Transitions in Bihar, Maharashtra and Rajasthan

**Improving** Capacities to Enable Power Reforms and Sustainable Livelihoods in Uttar Pradesh

**Strengthening** Regional Air Quality Management in Uttar Pradesh and Punjab

**Supporting** Green Hydrogen Policies of Rajasthan and Gujarat

**Scaling-Up** Natural Farming in Rajasthan

**Building** Climate Resilience in Maharashtra and Uttarakhand

**Enabling** Sustainable Mobility in Uttar Pradesh and Kerala



## Informing Solar Policies of Jharkhand and Uttarakhand

### Jharkhand



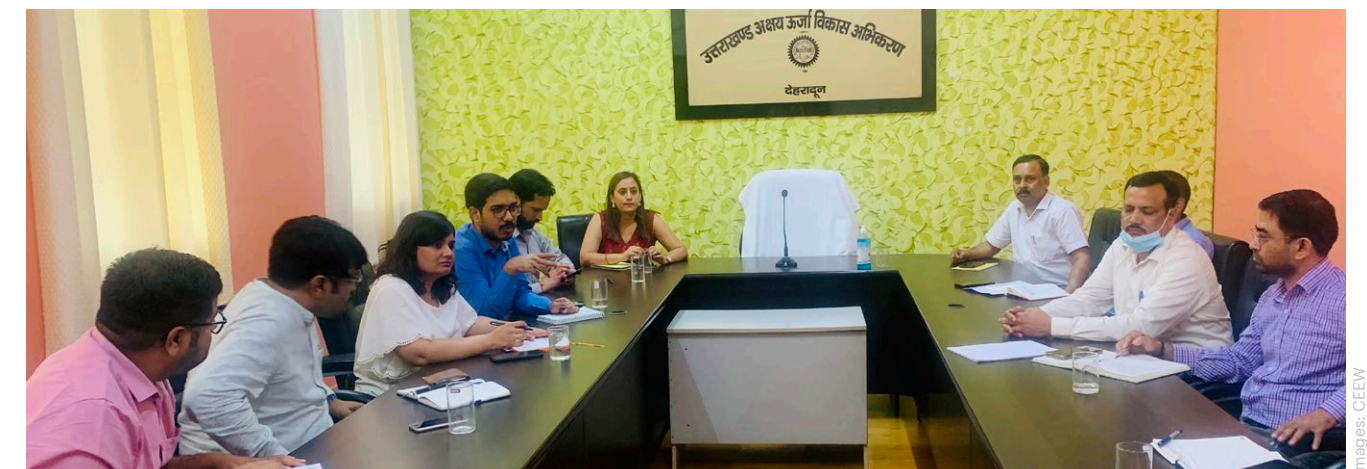
(L to R) **ARUNABHA GHOSH**, CEO, CEEW; **AVINASH KUMAR**, Principal Secretary - Department of Energy, Government of Jharkhand; **HEMANT SOREN**, Chief Minister of Jharkhand; **VINAY KUMAR CHOUBEY**, Secretary to CM Jharkhand; **K. K. VERMA**, Director, Jharkhand Renewable Energy Development Agency (JREDA) and Jharkhand Bijli Vitran Nigam Limited (JBVNL), at the launch of the *Jharkhand Solar Policy* in Ranchi, 05 July 2022.

CEEW helped formulate the Jharkhand State Solar Policy for 2022-27 in consultation with the Jharkhand Renewable Energy Development Agency (JREDA). The policy targets to achieve 4,000 MW of solar capacity across a diverse set of applications – enabling ease of doing business, promoting efficient technologies, creating enabling infrastructure, promoting innovation and locally relevant business models, and equipping implementing agencies and technical institutions to become best in class. CEEW will continue to work with JREDA as a policy implementation partner for the next two years.



CEEW's **DISHA AGARWAL** at the launch of the *Jharkhand Solar Policy* in Ranchi, 05 July 2022.

### Uttarakhand



CEEW's **DISHA AGARWAL**, **NEERAJ KULDEEP**, and **BHAWNA TYAGI** (all in the left row) conducting bilateral meetings with the officials of the Uttarakhand Renewable Energy Development Agency (UREDA) and other key actors to inform *Uttarakhand's State Solar Policy*.

Images: CEEW





# Enabling Low-carbon Transitions in Bihar, Maharashtra and Rajasthan

## Bihar



CEEW, UNEP India and other partners are working together with the Government of Bihar to develop its climate-resilient, low-carbon development strategy. As part of the project ‘Strategy for a Climate Resilient and Low-Carbon Development Pathway for Bihar’, CEEW is modelling low-carbon transition and design strategies for mitigation in the state.

CEEW’S **ARUNABHA GHOSH** (2nd from right) presenting at the kick-off meeting with the Chief Secretary and principal secretaries of various departments in Bihar on low-carbon development strategies, 06 December 2021.

## Rajasthan



CEEW has an MoU with Rajasthan Renewable Energy Corporation Limited (RRECL), the state nodal agency on clean energy transition, to draft *Rajasthan’s Energy Policy 2050*. In consultation with the Government of Rajasthan, experts and other relevant stakeholders, CEEW will define the broader vision for Rajasthan’s energy sector, aligning it with the state’s economic growth prospects for 2050.

(L to R) **PAWAN KR. TANWAR**, Technical Manager, RRECL; **PRAVEEN CHANDRASEKARAN**, Engagement Lead, CEEW; **PRATEEK AGGARWAL**, Programme Lead, CEEW; **SHALU AGRAWAL**, Senior Programme Lead, CEEW; **T. RAVIKANT**, IAS, former Chairman, RRECL; **ANIL DHAKA**, IRS, Managing Director, RRECL; **SUNIT MATHUR**, General Manager, RRECL; **NAVEEN SHARMA**, Officer on Special Duty to MD, RRECL; **SURESH JEWALIA**, Technical Manager, RRECL, at the MoU signing, 29 July 2022.



CEEW has been appointed by the Government of Maharashtra to inform the state’s transition to a low-carbon economy through robust evidence-based policy research and analysis. CEEW is advising the government by modelling scenarios under which the state could achieve net-zero emissions, their sectoral implications and the economic opportunities and challenges such a transition could entail.



# Supporting Green Hydrogen Policies of Rajasthan and Gujarat

## Rajasthan

CEEW has an MoU with the Rajasthan Renewable Energy Corporation Limited (RRECL) to develop and implement their *State Policy on Green Hydrogen*.

In Rajasthan, CEEW will also assess macro-level benefits of renewable energy, its job creation potential and develop long-term sectoral transition pathways to inform the state-level *Urja Niti* (energy policy).

**USD ~100 billion** investment needed to achieve India’s 2030 hydrogen production target of 5 MTPA

Source: CEEW analysis



CEEW’s **DEEPAK YADAV** presented pathways to realise Rajasthan’s potential for scaling up green hydrogen production to RRECL, 26 June 2022.



CEEW’s **HEMANT MALLYA** (L) at a meeting with RRECL, 26 June 2022.



CEEW has signed an MoU with Gujarat Power Corporation Limited (GPCL) to develop and implement the State Policy on Green Hydrogen. We submitted a detailed report on techno-economics of green and grey hydrogen production, investment, infrastructure, land and water requirements for scaling up the green hydrogen ecosystem in the state.





# Improving Capacities to Enable Power Reforms and Sustainable Livelihoods in Uttar Pradesh

CEEW signed an MoU with the Uttar Pradesh State Rural Livelihood Mission (UPSRLM) to support capacity building, market research, and draft strategies to deploy DRE-based livelihoods among rural communities across the state.

CEEW is also extending technical and implementation support for the Vidyut Sakhi initiative of the government to ensure improved revenue recovery by discoms in rural areas while enhancing income/livelihood opportunities for rural women.



KESHAV PRASAD MAURYA (C), Deputy Chief Minister, Uttar Pradesh at the MoU signing ceremony between CEEW-Villgro, UPSRLM, and Prerna Ojas Pvt. Ltd, CEEW's ARUNABHA GHOSH (L) with BHANU GOSWAMI (R), then Managing Director, UPSRLM, 06 July 2022.



The CEEW team at the MoU event, 06 July 2022.



“We are thrilled to be joining hands with CEEW-Villgro and Prerna Ojas in promoting DRE-powered livelihoods for people living in UP’s rural areas. We are also keen to receive support from CEEW for our Vidyut Sakhi initiative.”

**BHANU GOSWAMI**, then Managing Director, UPSRLM  
at the MoU signing ceremony, 06 July 2022

# Improving Discom Revenue Losses in UP

CEEW is partnering with the Uttar Pradesh Power Corporation Limited (UPPCL) and Madhyanchal Vidyut Vitaran Nigam Ltd Lucknow (MVVNL) discoms to implement a pilot-cum-demonstration initiative to diagnose bottlenecks and improve revenue recovery in a high-loss feeder of Mohan in Unnao district, UP.



CEEW conducted a drawing competition on sustainability and the power sector for school students in Mohan, Unnao district, Uttar Pradesh, 14 July 2022.



CEEW's CHANMEET SYAL instructing the audio announcer in an e-3-wheeler to invite residents to the CEEW-MVVNL camp held for consumers to resolve electricity billing issues, address consumers' grievances and collect pending payments. Mohan, Unnao district, Uttar Pradesh, 12 July 2022.

**~700 electricity poles**  
geotagged in the entire Mohan feeder area that services 2,500+ customers

**INR ~2.5 lakh**  
electricity dues collected at the Unnao consumer camp

Data points: CEEW analysis



CEEW's RASHI SINGH conducted interactive sessions in schools with students from standards 6-10 to discuss how the power distribution system works, in the run-up to the consumer camp, 12 July 2022.





# Strengthening Regional Air Quality Management in Uttar Pradesh and Punjab

## Uttar Pradesh

CEEW signed an MoU with the Department of Environment, Forest and Climate Change (DoEF&CC), Government of UP, in October 2022, in the presence of **MANOJ SINGH**, Additional Chief Secretary, and **ASHISH TIWARI** (2nd from right), Secretary, DoEF&CC. The objective of the collaboration is to strengthen clean air planning and implementation in Uttar Pradesh to improve the states's air quality.



Images: CEEW

CEEW collaborated with Kanpur Nagar Nigam (KNN) to support implementation of their clean air plan. We provided technical assistance, created local evidence for prioritising action, assessed impact of implemented measures. We also conducted awareness workshops for schools and construction companies in Kanpur.



CEEW's **SHREYA CHADHA** conducted a session on air pollution at the Nagar Nigam Mahila Inter College, 20 May 2022.



CEEW's **PRIYANKA SINGH** conducting a training session on field reconnaissance survey protocol to build hyperlocal databases that capture pollution emission sources, 17 November 2021.

## Punjab



Images: CEEW

CEEW's **SRISH PRAKASH** (C) conducted group discussions on farmers' perspectives on stubble burning and associated air pollution, 21 October 2021.



CEEW's **TANUSHREE GANGULY**, at CEEW-ASAR workshop, Punjab Townhall: *Pollution Da Solution* as part of the Cleaner Air and Better Health Project, supported by the United States Agency for International Development (USAID), 07 July 2022.

## #CEEWPrize

NOMINATED TO THE COMMISSION FOR AIR QUALITY MANAGEMENT IN NCR AND ADJOINING AREAS



CEEW's **KURINJI SELVARAJ** was appointed to an expert panel constituted by the Commission for Air Quality Management (CAQM) in NCR and adjoining areas. The expert panel formulated a long-term policy for improving air quality in Delhi NCR.





# Scaling-up Natural Farming in Rajasthan and Andhra Pradesh

## Rajasthan

CEEW was part of the Chief Minister's Rajasthan Economic Transformation Advisory Council (CMRETAC) to develop a policy action plan to scale-up natural farming in the state. CEEW's recommendations directly led to the FY2022-23 budget announcement of the INR 600 crore *Rajasthan Organic Farming Mission*, which will impact 400,000 farmers.



Image: CEEW/Emotivelens

CEEW's APOORVE KHANDELWAL (R), in Sikar, Rajasthan, engaging with officials and farmers, 22 December 2021.

CEEW's analysis in Rajasthan was informed through discussions and meetings covering

- 100+ Government officials
- 10 State-level departments
- 20 District-level departments
- 22 Non-governmental organisations

## Andhra Pradesh



CEEW researchers at a focus group discussion with local farmers on sustainable and regenerative agriculture in the Sri Sathyasai district of Andhra Pradesh, May 2022.



# Building Climate Resilience in Maharashtra and Uttarakhand

CEEW is engaging with state-level and district-level nodal agencies across India to map climate-related risks, build adaptation and mitigation capacities of associated systems and departments.

## Uttarakhand



“This workshop by CEEW- Uttarakhand State Disaster Management Authority (USDMA) and Social Development for Communities Foundation (SDC) is timely and shows us the need to integrate national, sub-national and city level disaster preparedness.”

SUNIL UNIYAL GAMA, Mayor, Dehradun

at the CEEW-USDMA-SDC workshop, *How Can We Make Uttarakhand Climate Resilient?* 15 June 2022.



“Early warning systems have to be strengthened and this can help save lives, livelihoods and avert loss and damage across sectors. Urban Local Bodies and Panchayats should also have robust alert mechanisms and should remain prepared to deal with climate disasters round the year.”

DR PIYOOSH RAUTELA, Executive Director, Disaster Mitigation and Management Centre (DMMC), and USDMA at the CEEW-USDMA-SDC workshop, *How Can We Make Uttarakhand Climate Resilient?* 15 June 2022.

## Maharashtra



Government of Maharashtra

CEEW is supporting the revision of Maharashtra's State Action Plan on Climate Change (SAPCC) and disaster management plans through granular vulnerability assessments and enhanced mitigation and adaptation targets.





# Enabling Sustainable Mobility in Uttar Pradesh and Kerala

## Uttar Pradesh

CEEW has an MoU with the Regional Centre for Urban & Environmental Studies (RCUES), Lucknow, to build capacity of state government officials on sustainable mobility. CEEW has prepared action plans and is conducting trainings as per the needs identified by officials across the state.



CEEW's **CHRIS TERESA** and **ARAVIND HARIKUMAR** (C) conducted a focus group discussion with delivery workers in Lucknow to understand challenges impeding their switch to EVs, 03 August 2022.

Images: CEEW



CEEW team members with city government officials of Lucknow and Kanpur at the CEEW-RCUES workshop, *Intermediate Public Transport Systems in Urban Areas*, 04 August 2022.

## Kerala



Images: CEEW

(L to R) **GREESHMA GIRI**, former Principal Correspondent, *The Times of India*; **G.P. HARI**, Executive Officer, Kochi Metropolitan Transport Authority; **D. DHANURAJ**, Chairman, CPPR; **HIBI EDEN**, Member of Parliament, Ernakulam; **ARAVIND HARIKUMAR**, Research Analyst, CEEW; **JOHN L. PAUL**, Special Correspondent, *The Hindu*, at the CEEW-CPPR workshop, *Creating Policy Pathways With The Fourth Estate: Towards Achieving Sustainable Mobility In Kerala*, 13 July 2022.



CEEW's **KARTHIK GANESAN** (R) moderated a panel discussion at the CEEW-Centre for Public Policy Research workshop, *Creating Policy Pathways With The Fourth Estate: Towards Achieving Sustainable Mobility In Kerala*, 13 July 2022.

#CEEWPride



CEEW is part of the expert committee at Kochi Metropolitan Transit Authority for 'Accelerating Electrification of Autos in Kochi' and 'Parking Policy'.



CEEW's **HIMANI JAIN** has been nominated as council member for the National Transport Decarbonisation Council (NTDC) to assess and support the decarbonisation and zero-emission targets set by the GoI.



# SHAPING GLOBAL SUSTAINABILITY EFFORTS

- Informing India's Net-Zero Goals at COP26
- Urging Climate Action at Stockholm+50
- Showcasing India's Global Leadership in Energy Transition
- Building a Global Rules-based Architecture for Green Hydrogen



वसुधैव कुटुम्बकम्  
ONE EARTH • ONE FAMILY • ONE FUTURE

## #CEEWPride PARTNERING WITH THE GOVERNMENT OF INDIA FOR G20 PRESIDENCY

CEEW has been appointed as a **Strategic Partner to the Ministry of Environment, Forest and Climate Change**, and a **Knowledge Partner to the Ministry of External Affairs, Ministry of New and Renewable Energy**, and as **India's Economic Adviser for India's G20 Presidency**. CEEW is also supporting NITI Aayog, Ministry of Finance, and Ministry of Power on India's G20 Presidency.



## Informing India's Net-Zero Goals at COP26

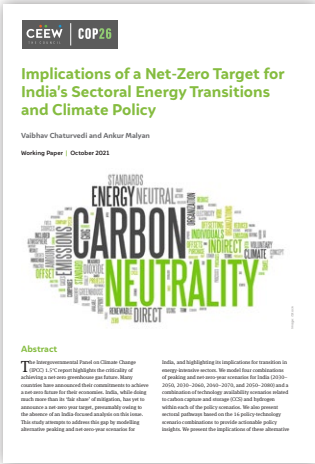
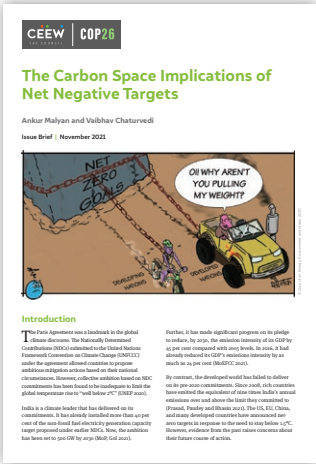


(L to R) CEEW's delegation: RIDDHIMA SETHI, ARUNABHA GHOSH, SHIKHA BHASIN, ARJUN DUTT and PRAYANK JAIN, at COP26 in Glasgow, 05 November 2021.

CEEW was the first Indian policy research institution to bring out an economy-wide analysis for India's net-zero transition. Our research and sustained engagements with various ministries helped inform India's net-zero goal of 2070 at the 26th session of the Conference of Parties (COP26) to the UN Framework Convention on Climate Change (UNFCCC) in Glasgow, in November 2021.

## Across 40+ events we presented our research and data

on the status of non-fulfilment of pre-2020 commitments by developed countries, the use and misuse of carbon space by countries, the need for climate finance and adaptation grants, de-risking renewables, enabling a just transition, co-developing climate-friendly technologies, and insuring climate-vulnerable populations through a global fund.



Scan to read respective studies.



Increasing Climate Transparency



CEEW's **VAIBHAV CHATURVEDI** at the event, *Carbon Capture and Storage in Emerging Economies*, organised by The University of Texas at Austin and IEA Greenhouse Gas R&D Programme, 10 November 2021.

Deploying Solar at Scale



CEEW's **ARUNABHA GHOSH** moderated the event, *Unlocking Solar Energy Deployment at Scale*, organised by the International Solar Alliance, 04 November 2021.

Images: CEEW

Raising Climate Ambitions



CEEW's **ARJUN DUTT** at the side event, *Raising Ambitions to Reach Carbon Neutrality by 2050*, organised by Government of Tunisia and Association Tunisienne des Changements Climatiques et du Développement Durable (2C2D), 04 November 2021.

Image: UN Climate Change

Making Cooling Sustainable



CEEW's **SHIKHA BHASIN (R)** at the CEEW dinner discussion, *Reimagining the Sustainable Cooling Transition in the Global South*, 04 November 2021.

Image: CEEW

Debriefing Indian Parliamentarians



CEEW's **ARUNABHA GHOSH** briefed Indian Parliamentarians post COP26 on India's net-zero commitments and potential pathways for achieving the targets, 09 December 2021.

Images: CEEW

#CEEWPride  
COMMENDATION FROM THE COP PRESIDENCY  
COP26 PRESIDENCY  
UK 2022  
DELIVERING THE GLASGOW CLIMATE PACT

“It was encouraging to hear about CEEW’s assessments of India’s climate ambitions and pathways to 2030 and 2070 targets.... Inputs provided by India’s civil society, think tanks and research organisations are a key part of formulating national climate strategies.

I look forward to seeing CEEW’s continued research and policy work supporting India’s climate action.”

**ALOK SHARMA**, COP President (2021-2022)  
in a letter dated 11 August 2022.

#CEEWPride  
CEEW’s **ARUNABHA GHOSH** has been appointed by the UN Secretary-General as a member of the **UN High-level Expert Group (HLEG) on Net-Zero commitments of Non-State Actors**, March 2022. He is the only South Asian and one of three Asians in the group.

**PARTNERING WITH UNFCCC**  
CEEW has been selected by the UNFCCC Secretariat to develop a capacity building measurement tool, to be rolled out for all countries.



**OVAIS SARMAD**, Deputy Executive Secretary, UN Climate Change secretariat with CEEW’s **ARUNABHA GHOSH** at the MoU signing, 21 March 2022.

REPRESENTATION AT RINGO



CEEW’s **SHIKHA BHASIN** has been selected to UNFCCC’s Research and Independent Non-Government Organisations’ (RINGO) Steering Committee, June 2022.





# Urging Climate Action at Stockholm+50

CEEW was invited by the UNEP and the Government of Sweden to co-author the official scientific report for the Stockholm+50 UN International Meeting, with the Stockholm Environmental Institute (SEI). The report, *Stockholm+50: Unlocking a Better Future*, detailed how the human relationship with nature could be harmonised through the fundamental shifts of repairing our relationship with nature, achieving lasting prosperity for all, and investing in a better future. It was accompanied by an associated youth report that integrated findings from a global online survey conducted of over 900 young people (18-30 years old) from 91 countries.



CEEW's ARUNABHA GHOSH (standing) at the Leadership Dialogue 3: Accelerating the Implementation of the Environmental Dimension of Sustainable Development, 03 June 2022.



(L to R) ARUNABHA GHOSH, CEO, CEEW; BHUPENDER YADAV, Minister of Environment, Forest and Climate Change, and Labour & Employment, GoI; and TANMAYA LAL, Ambassador of India to Sweden and Latvia at the CEEW-GCF event, *Action Agenda for Sustainable Development: Innovations in Technology, Finance and Lifestyles*, 01 June 2022.

#CEEWPride



CEEW's ARUNABHA GHOSH has been nominated as one of the 12 members of the **Global Commission on the Economics of Water**, April 2022.



CEEW's SHUVA RAHA has been nominated as a Global Solutions Fellow by the Secretary General of the Global Solutions Initiative, July 2022.



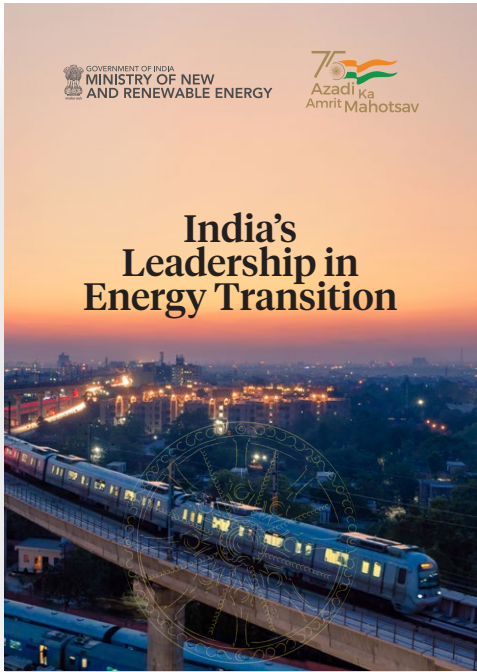
# Showcasing India's Global Leadership in Energy Transition



(L to R) ARUNABHA GHOSH, CEO, CEEW; ALOK KUMAR, Secretary, Ministry of Power; GoI; BHAGWANTH KHUBA, Minister of State for New and Renewable Energy, and Chemicals and Fertilizers, GoI; R. K. SINGH, Minister of Power and New and Renewable Energy, GoI; INDU SHEKHAR CHATURVEDI, then Secretary, MNRE, GoI, launched India's UN Energy Compacts booklet at *New Frontiers: A Programme on Renewable Energy – India's Leadership in Energy Transition*, 16 February 2022.

CEEW, as a Knowledge Partner to the Government of India for the UN High-Level Dialogue on Energy (HLDE) and its Energy Compact Initiative, supported a collaborative effort of 15 Union Ministries and Departments led by the MNRE. We curated and produced the the Energy Compact booklet and the energytransition.in website as part of this effort.

CEEW co-convoked multi-sector industry consultations and UN events with the MNRE and the Permanent Mission of India to the UN at New York to help draft and develop **India's Energy Compact as well as 21 Compacts from public and private sector corporations, states, and Smart Cities**. These engagements have strengthened India's position as a UN Global Champion for Energy Transition.



**USD ~34 billion** committed by India's Energy Compacts is nearly half the total UN Member States' commitments of USD ~73.6 billion (as of Oct 2021)

Source: Energy Compacts Booklet



Read India's Energy Compact commitments here: [energytransition.in](https://energytransition.in)





# Building a Global Rules-based Architecture for Green Hydrogen

CEEW has proposed eight principles of a rules-based architecture for green hydrogen to serve as the foundation to develop a secure global energy economy of this strategic industrial fuel of the 21<sup>st</sup> century. CEEW’s research and advocacy on green hydrogen over the past several years through policy papers and in-depth reports, and multilateral stakeholder consultations including multi-lateral and multi-stakeholder roundtables, expert workshops and seminars in India and abroad have found strong traction. Key developments include the Quadrilateral Security Dialogue (Quad) announcing a **Clean Hydrogen Partnership** in 2022.



CEEW’s **ARUNABHA GHOSH** (L), at the roundtable on global rules-based architecture for green hydrogen organised by the Government of France and Mouvement des Entreprises de France (MEDEF), 19 April 2022.



**TANMAYA LAL** (R), Ambassador of India to Sweden and Latvia at the CEEW-GCF roundtable, *A Deal for Development - Global Governance of Green Hydrogen*, 21 April 2022.



CEEW’s **HEMANT MALLIA** speaking on the potential of green hydrogen at the CEEW-JCB roundtable, *Green Hydrogen: Opportunities for India-UK Partnership*, 22 April 2022.



CEEW’s **SHUVA RAHA** at the CEEW-Embassy of France workshop, *Indo-French Partnership to Power a Decarbonised Hydrogen Industry*, 23 May 2022.



**LORD ANTHONY BAMFORD**, Chairperson, JCB at the CEEW-JCB roundtable, *Green Hydrogen: Opportunities for India-UK Partnership*, 22 April 2022.



“Green hydrogen holds immense promise as a clean energy vector of the future. France and India can team up on green hydrogen to accelerate our clean energy transition, meet our carbon neutrality targets and strengthen our energy independence.”

**EMMANUEL LENAIN**, Ambassador of France to India at the CEEW-Embassy of France workshop, *Indo-French Partnership to Power a Decarbonised Hydrogen Industry*, 23 May 2022.



“Our discussions on green hydrogen are timely as both India and Chile plan their decarbonisation roadmaps. Green hydrogen has an important role to play in achieving our net-zero goals.”

**JUAN ANGULO**, Ambassador of Chile to India, concurrent to Bangladesh, Sri Lanka and Nepal at the CEEW webinar, *A Multilateral Approach to Building a Global Hydrogen Economy*, 08 September 2021.



# PRACTISING SUSTAINABILITY @ CEEW

This year, CEEW proudly opened the doors to its two new homes in New Delhi and Lucknow. A labour of love and painstaking detail overseen by colleagues, our offices live and breathe sustainable choices. From recycled furniture and recyclable flooring to energy efficient lighting, every component has a sustainability story to tell.



Image: CEEW/EmotiveLens

**1,000+**  
**plants**  
across all three floors

**60%**  
**recycled**  
**material**  
used in the carpeting  
that is produced at an  
RE-powered factory

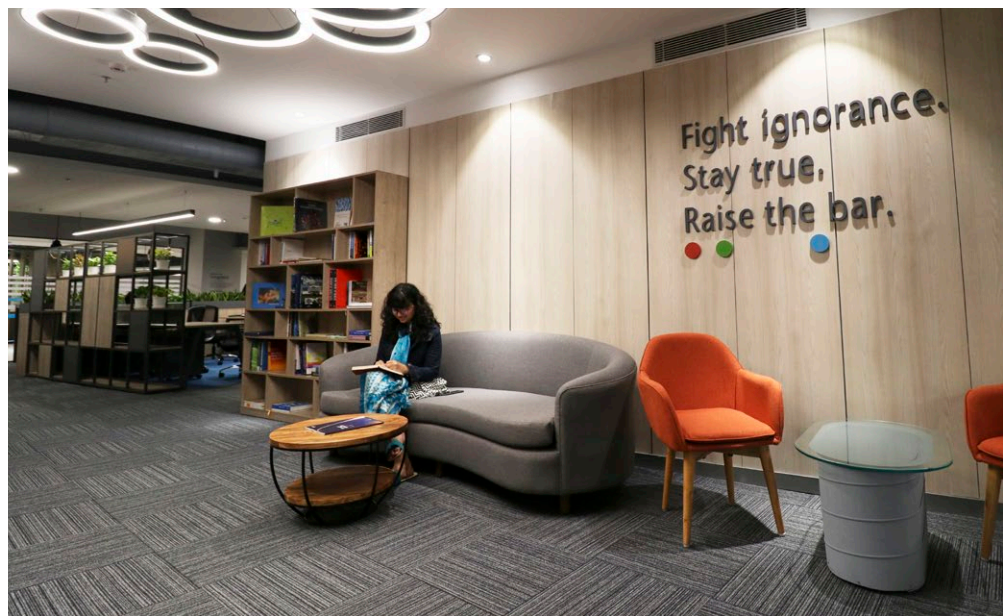
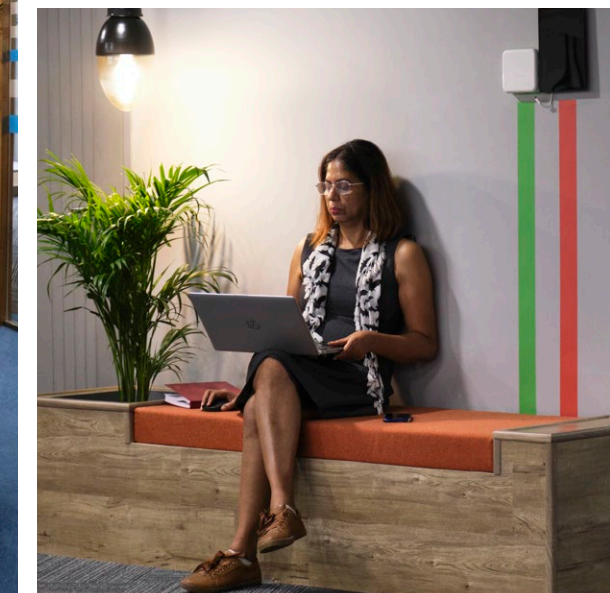
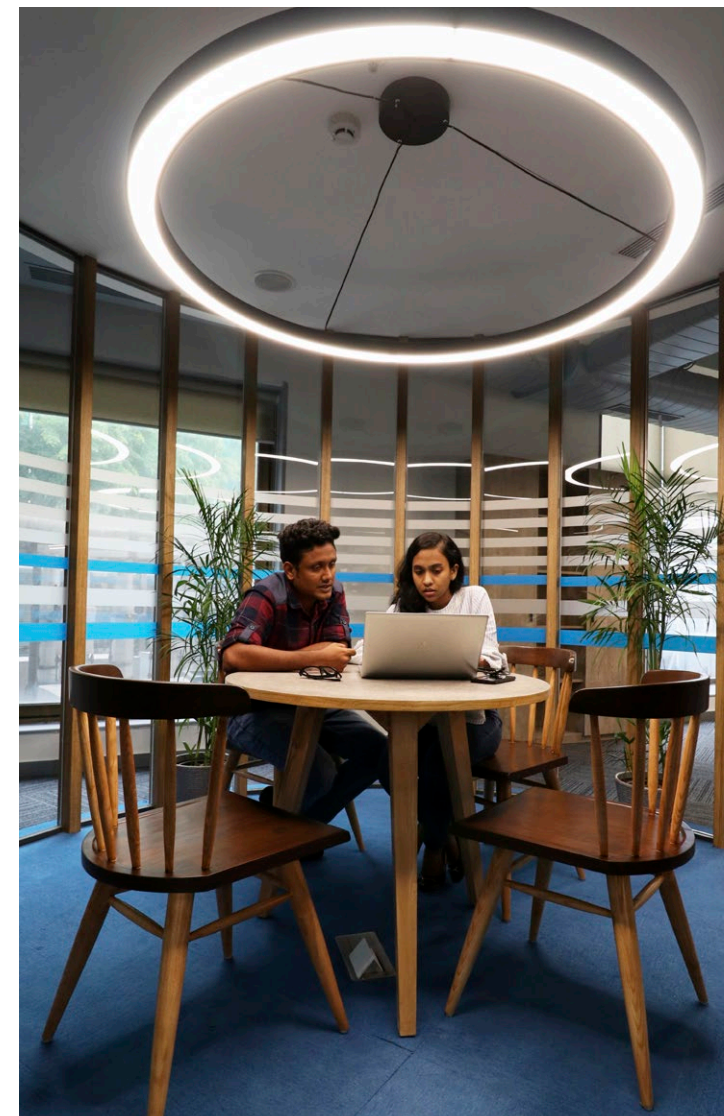


Image: CEEW/Milan Jacob



**70%**  
**jute**  
in the upholstery fabric

**100%**  
**biodegradable**  
Marmoleum on our floors



Images: Kartikya Jain/CEEW



# WOMEN IN SUSTAINABILITY

CEEW's Women in Sustainability (WiS) initiative is a network of individuals and institutions that aims to promote greater participation, inclusiveness, and visibility of women at all levels of the public policy workforce. Now in its fifth year, WiS has been empowering women to challenge the status quo through discussions, gender sensitivity trainings, book readings, film screenings and much more.



CEEW hosted **RACHEL KYTE** (C), Dean, The Fletcher School, Tufts University, for an interactive session *Building Your Space in Sustainability Public Policy*, 04 April 2022.

## CEEW's Gender KPIs

Last year (As of July 2021)		This year (As of July 2022)
54.4	proportion of men to women in the organisation	58.4
35%	of total salary disbursed to women	37%
47%	of leadership roles held by women	38%
1	woman on the CEEW governing board	1
36%	research publications with women as lead authors	23%
37	women speakers at CEEW panel discussions	37.8
35%	women in CEEW programmatic advisory groups	47.6%
29%	instances of women researchers quoted in the press	30.7%
41.9%	opinion articles published with women as first authors*	33.3%
19%	opinion articles published with women as second authors*	6%

# PROPELLING CAREERS

## People first at CEEW



Continuing our tradition of celebrating key milestones in our colleagues' professional journeys, we **felicitated 21 team members who had completed 3, 5, 7 and 10 years at CEEW in the presence of our trustees.** We also planted an equivalent number of trees in their name in collaboration with Grow-Trees.



**CEEW Leadership Academy** sessions were held in two cohorts – Winter Batch (September 2021) and Spring Batch (March - April 2022). In the two cohorts, workshops on topics such as managing people, building strategic government relationships, strengthening accountability, and developing a growth-oriented mindset were organised.



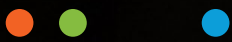
Celebrating family



Leading up to our 12-year anniversary, our colleagues and their loved ones came together at our new office campus in New Delhi for a celebration. With over 120 family members, from grandparents to toddlers, joining us, it was a fun-filled day of guided office tours, film screenings, trivia quiz, sumptuous street food and more! 09 August 2022.



Images: CEEW



Informing Public Opinion

6,900+ media mentions

of CEEW's work in leading international and national media outlets such as Bloomberg, The Guardian, The Washington Post, The New York Times, The Indian Express, Hindustan Times, The Times of India, The Hindu, Mint, The Economic Times, Dainik Bhaskar, and Dainik Jagran.

~100 media appearances

of CEEW researchers in news channels such as Rajya Sabha TV, NDTV, CNBC TV18 and Al Jazeera.

82 op-eds

published in leading national and regional media outlets.

(September 2021 – August 2022)



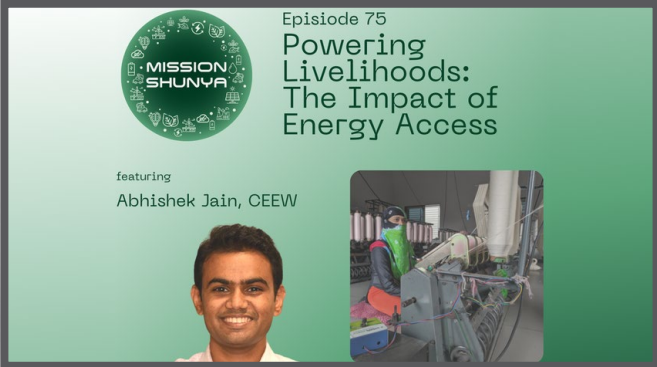
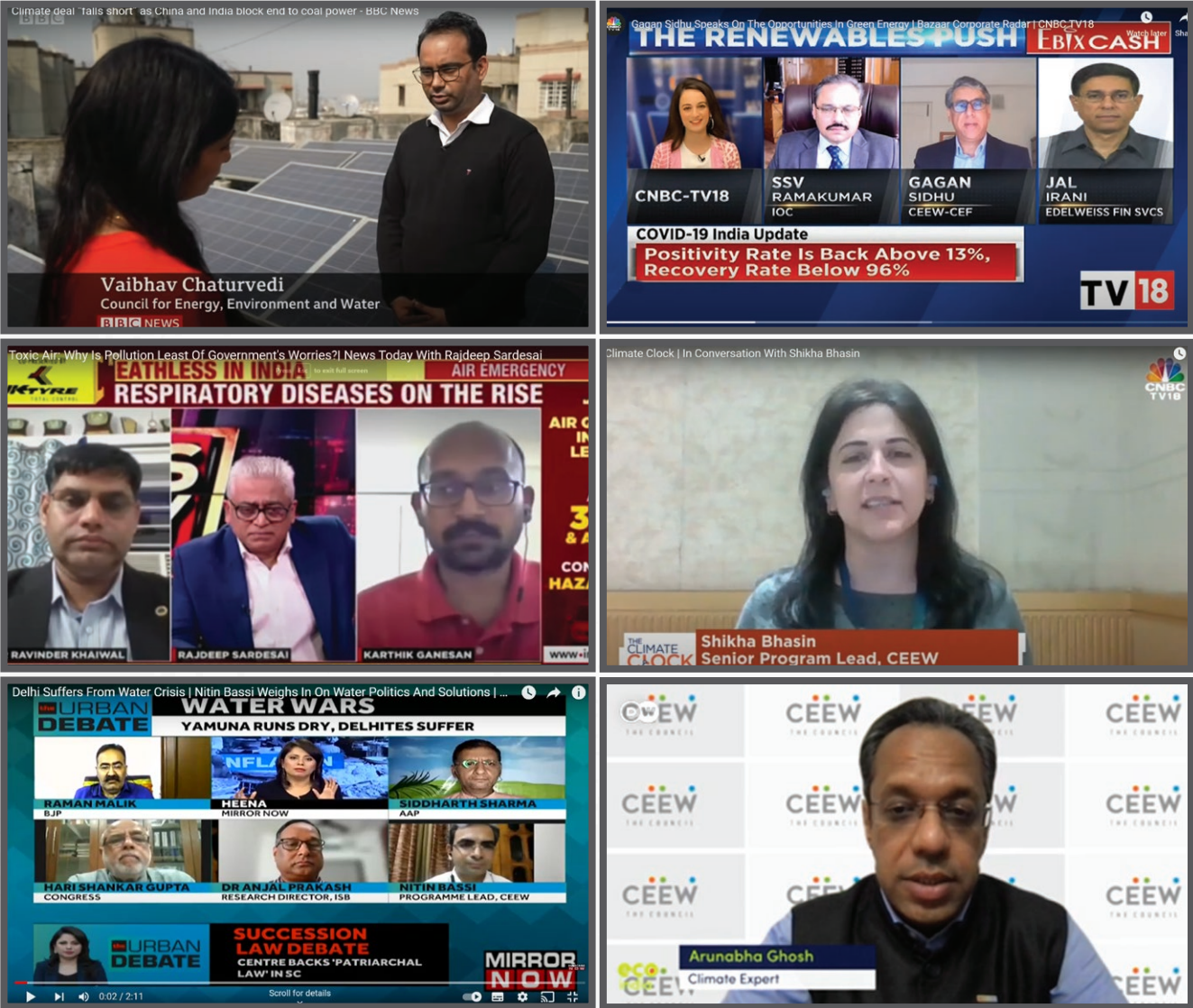
Image: Ahana/CEEW







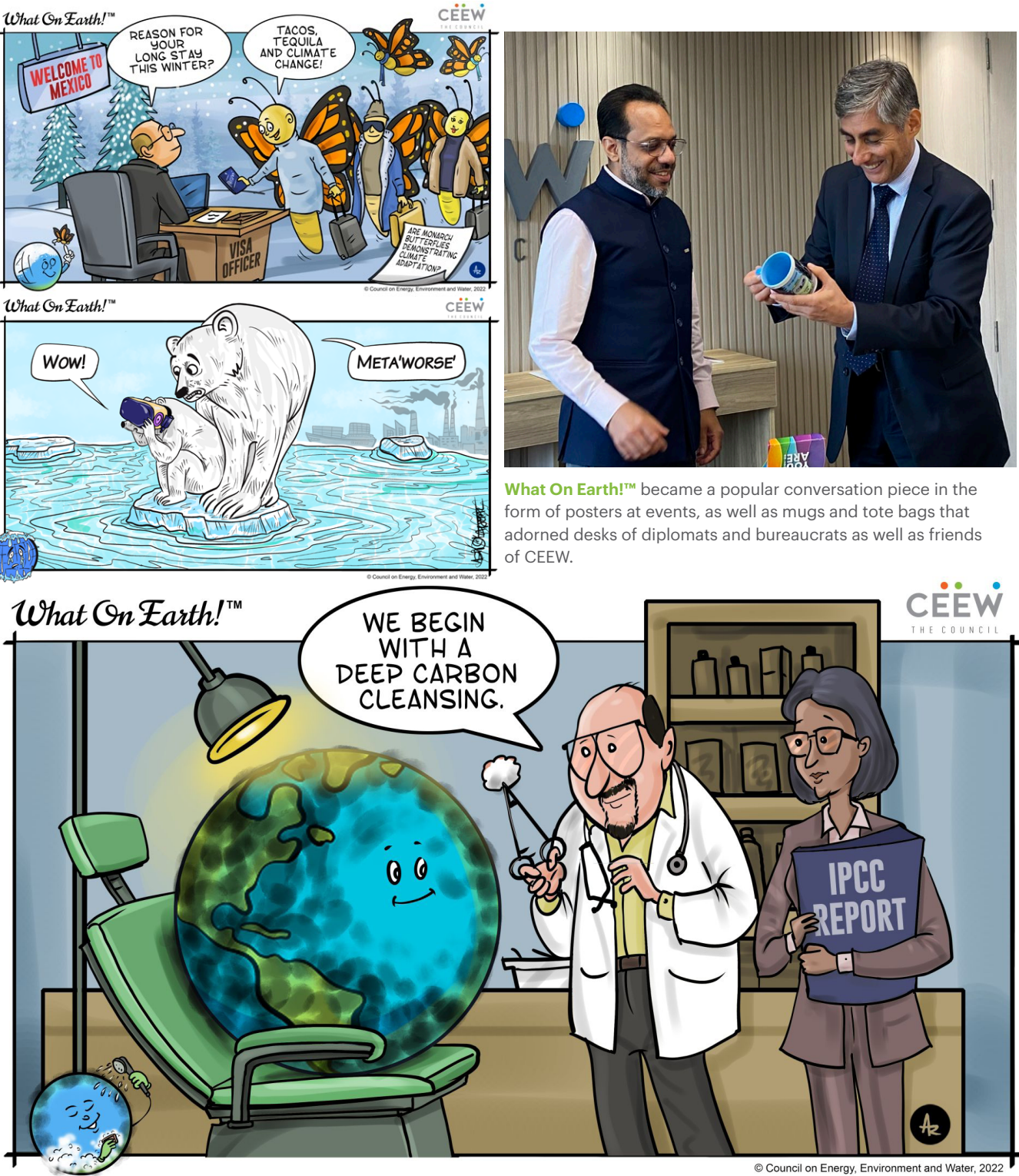
Media appearances



- L to R from top
- VAIBHAV CHATURVEDI**, on Climate deal “falls short” as China and India block end to coal power, *BBC News* | November 2021
  - GAGAN SIDHU**, on Opportunities in Green Energy | Bazaar Corporate Radar, *CNBC TV18* | January 2022
  - KARTHIK GANESAN**, on Delhi’s Toxic Air: Why Is Pollution Least of Government’s Worries? *India Today* | November 2021
  - SHIKHA BHASIN**, on The Climate Clock: The cooling conundrum, energy efficiency and emissions, *CNBC TV18* | December 2021
  - NITIN BASSI**, on Urban Debate: Water Wars, *Mirror Now* | May 2022?
  - ARUNABHA GHOSH**, on Eco India — *The Environment Magazine*, DW | August 2022
  - ABHISHEK JAIN**, on Powering Livelihoods: The impact of energy access, *Mission Shunya Podcast* | March 2022

What On Earth!™ turns 1!

Dedicated to the planet, our Pale Blue Dot, CEEW is proud to present to you, What On Earth!™ Our cartoon series on sustainability. A new cartoon is published every Wednesday and on special days with a point or a counterpoint to ponder and share forward. #Sustainability



What On Earth!™ became a popular conversation piece in the form of posters at events, as well as mugs and tote bags that adorned desks of diplomats and bureaucrats as well as friends of CEEW.



# Outreach Innovations to Mainstream Sustainability

## SHOWCASING GRASSROOT CLIMATE CHAMPIONS

*Faces of Climate Resilience* is a set of 16 short films that capture the voices of climate-vulnerable communities from different parts of India. The films cover stories of community resilience in the face of cyclones, floods, drought and forest fires across some of India's most climate-vulnerable states — Kerala, Maharashtra, Odisha, Rajasthan and Uttarakhand. The short films, supported by the India Climate Collaborative and EdelGive Foundation, were released in the lead up to COP27.



Watch the FCR films here

## A PERFORMANCE POETRY VIDEO ON CLIMATE ACTION!

*Portrait of a Silver Lining*, a CEEW-SEI production, showcases a poem written and performed by **SIMAR SINGH**, a young poet from the Global South. The video urges viewers to take bold climate action and pursue accountability to heal our planet. The performance poetry video is the artiste's interpretation of the messages in the CEEW-SEI scientific report, *Stockholm+50: Unlocking a Better Future*.



Watch the performance poetry video here

## GOING LIVE WITH A FARMING INFLUENCER



**~600**  
enquiry calls received by  
Raheja Solar from potential  
customers

**6.5 lakh+**  
views on Facebook

For the Powering Livelihoods (PL) programme, CEEW-Villgro collaborated with **DARSHAN SINGH**, a popular farmer influencer who runs an online channel, *Farming Leader*. The followers of the channel are primarily based in rural India and practice farming along with other allied activities. In the Facebook Live video, Darshan spoke with the PL-supported enterprise Raheja Solar and its end users.



Watch the video here

## CAN YOU GET TO NET-ZERO? A CEEW STRATEGY GAME

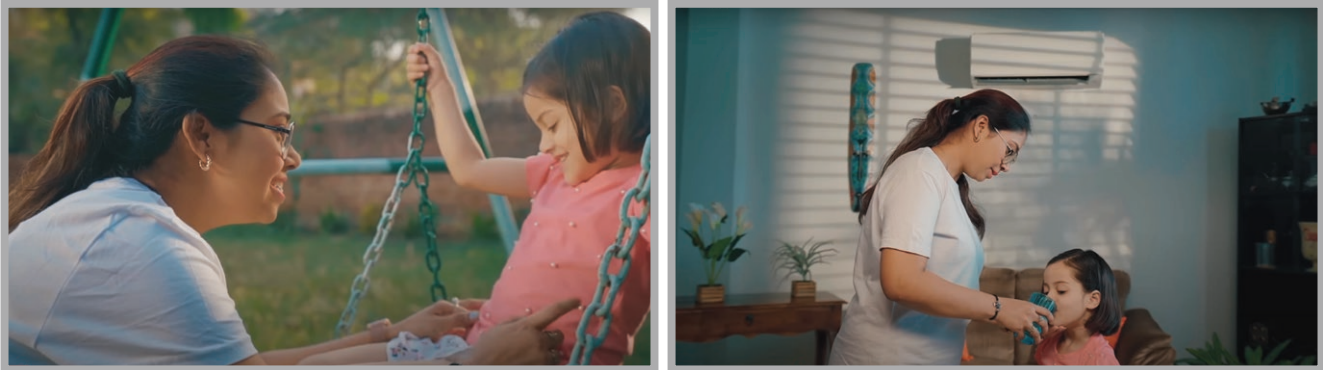


CEEW developed and launched this strategy and simulation game ahead of COP26 to help sectoral experts understand the scale and pace needed for India's energy transition. It allowed users to choose India's net-zero target year by exploring combinations of technology developments available.



Play the game here

## PUBLIC SERVICE AD ON SUSTAINABLE COOLING



CEEW-SHEETAL produced and launched a consumer-focused public service advertisement (PSA), *Take Care*, during the summer of 2022. Promoted on YouTube targeting AC users in Delhi-NCR, it nudges viewers to 'Take Care' of their ACs through good servicing practices, which can optimise their cooling performance and reduce power consumption.

**2.5 lakh+**  
viewers on YouTube in  
less than a fortnight



Watch the ad here





# Research Publications

01 September 2021 to 31 August 2022

## REPORTS/BOOKS

**Mani**, Sunil, Shalu Agrawal, Abhishek Jain, and Karthik Ganesan. 2021. *State of Clean Cooking Energy Access in India: Insights from the India Residential Energy Survey (IRES)* 2020. New Delhi: Council on Energy, Environment and Water.

**Yadav**, Deepak, Ashish Guhan, and Tirtha Biswas. 2021. *Greening Steel: Moving to Clean Steelmaking Using Hydrogen and Renewable Energy*. New Delhi: Council on Energy, Environment and Water.

**Ghosh**, Arunabha and Sanjana Chhabra. 2021. *Speed and Scale for Disruptive Climate Technologies: Case for a Global Green Hydrogen Alliance*. A GCF-CEEW Report. Stockholm: Global Challenges Foundation.

**Sahdev**, Garvit, Shruti Jindal and Abhishek Jain. 2021. *Solar-Powered Silk Spinning and Reeling Machines: How Big is the Opportunity?* New Delhi: Council on Energy, Environment and Water.

**Jain**, Abhishek, Arunabha Ghosh, and Sanjana Chhabra. 2021. *Powering Livelihoods Globally through Clean Energy*. A GCF-CEEW Report. Stockholm: Global Challenges Foundation.

**Ghosh**, Arunabha, and Nandini Harihar. 2021. *Coordinating Global Risk Mitigation for Exponential Climate Finance*. A GCF-CEEW Report. Stockholm: Global Challenges Foundation.

**Malyan**, Ankur and Vaibhav Chaturvedi. 2021. *The Carbon Space Implications of Net Negative Targets*. New Delhi: Council on Energy, Environment and Water.

**Dutt**, Arjun, Pablo Gonzalez, Nikhil Sharma, Lucila Arboleya, and Ruchita Shah. 2021. *Clean Energy investment Trends: Mapping Project-Level Financial Performance Expectations in India*. New Delhi, Paris: Council on Energy, Environment and Water; International Energy Agency.

**Tyagi**, Akanksha, Charu Lata, Jessica Korsh, Ankit Nagarwal, Deepak Rai, Sameer Kwatra, Neeraj Kuldeep, and Praveen Saxena. 2021. *India's Expanding Clean Energy Workforce*. New Delhi: Council on Energy, Environment and Water, Natural Resources Defense Council, and Skill Council for Green Jobs.

**Goel**, Siddharth, Rashmi Murali, Anas Rahman, Prajnashish Swain, Balasubramanian Viswanathan, Shalu Agrawal, Christopher Beaton, Mini Govindan, Abhishek Jain, Debajit Palit. 2021. *Implementing Solar Irrigation Sustainably: A Guidebook for State Policy-makers on Maximizing the Social and Environmental Benefits from Solar Pump Schemes*. Winnipeg: International Institute for Sustainable Development.

**Aggarwal**, Dhruvak and Shalu Agrawal. 2022. *Business Model for Scaling Up Super-Efficient Appliances: A Deep Dive on Ceiling Fans in India*. New Delhi: Council on Energy, Environment and Water.

**Reynolds**, Jesse, Arunabha Ghosh, Nandini Harihar and Prayank Jain. 2022. *Solar Radiation Modification: Governance Gaps and Challenges*. Carnegie Climate Governance Initiative (C2G), New York: www.c2g2.net.

**Malyan**, Ankur, Pallavi Das, Puneet Kamboj, Sweta Jha, Ujjawal, and Vaibhav Chaturvedi. 2022. *India's Vision Towards a Net-Zero Economy: Stakeholder Perspectives*. New Delhi: Council on Energy, Environment and Water.

**Gupta**, Akash Som, Bhawna Tyagi, Neeraj Kuldeep, and Selna Saji. 2022. *Unlocking Demand for Residential Rooftop Solar in India: Learnings from Solarise Delhi Campaigns*. New Delhi: Council on Energy, Environment and Water.

**Aggarwal**, Dhruvak, Nhilce Esquivel, Robin Hocquet, Kristiina Martin, Carol Mungo, Anisha Nazareth, Jaee Nikam, Javan Odenyo, Bhuvan Ravindran, L. S. Kurinji, Zoha Shawoo, and Kohei Yamada. 2022. *Charting a Youth Vision for a Just and Sustainable Future*. Stockholm: Stockholm Environment Institute and Council on Energy, Environment and Water.

**Garg**, Shreyas and Rishabh Jain. 2022. *Making India a Leader in Solar Manufacturing: Ways to Achieve Technology Leadership and Global Competitiveness*. New Delhi: Council on Energy, Environment and Water.

**Dixit**, Himanshu and Shikha Bhasin. 2022. *Technology Gaps in India's Air Conditioning Supply Chain: Enhancing Jobs, Growth and Sustainability*. New Delhi: Council on Energy, Environment and Water.

**SEI & CEEW**. 2022. *Stockholm+50: Unlocking a Better Future*. Stockholm: Stockholm Environment Institute. DOI: 10.51414/sei2022.011

**Aggarwal**, Prateek, Siddharth Goel, Tara Laan, Tarun Mehta, Aditya Pant, Swasti Raizada, Balasubramanian Viswanathan, Anjali Viswamohanam, Christopher Beaton, and Karthik Ganesan. 2022. *Mapping India's Energy Policy 2022: Aligning Support and Revenues with a Net-Zero Future*. Winnipeg: International Institute for Sustainable Development.

**Khalid**, Wase, Abhishek Jain, Shruti Jindal, and Arpan Thacker. 2022. *Mainstreaming Micro Solar Pumps to Improve Incomes of Marginal Farmers*. New Delhi: Council on Energy, Environment and Water.

**Kamboj**, Puneet, Ankur Malyan, Harsimran Kaur, Himani Jain, and Vaibhav Chaturvedi. 2022. *India Transport Energy Outlook*. New Delhi: Council on Energy, Environment and Water.

**Tyagi**, Akanksha, Sharayu Shejale, and Neeraj Kuldeep. 2022. *Upgrading Suryamitra Skill Development Programme: Improving Uptake and Employability of Suryamitras in the Solar Sector*. New Delhi: Council on Energy, Environment and Water.

**Umemiya**, Chisa, Sumit Prasad, and Shikha Bhasin. 2022. *M&E Frameworks for Capacity Building in Climate Transparency: A Comparative Review of Two Quantitative Approaches*. New Delhi: Council on Energy, Environment and Water.

## JOURNAL PAPERS/BOOK CHAPTERS/OTHER PAPERS

**Chaturvedi**, Vaibhav. 2021. 'A Vision for a Net-Zero Energy System for India' in *Energy and Climate Change*, Volume 2, 100056, ISSN 2666-2787, <https://doi.org/10.1016/j.egycc.2021.100056>, (<https://www.sciencedirect.com/science/article/pii/S2666278721000337>)

**Dixit**, Himanshu. 2021. *Implementing Low-GWP Technologies in MVAC Systems: Challenges and Regulatory Approaches*. SAE Technical Paper 2021-28-0143, 2021, doi:10.4271/2021-28-0143.

**Chaturvedi**, Vaibhav, and Ankur Malyan. 2022. 'Implications of a net-zero target for India's sectoral energy transitions and climate policy' in *Oxford Open Climate Change*. Oxford University Press. <https://doi.org/10.1093/oxfclm/kgac001>.

**Aldy**, Joseph E., Tyler Felgenhauer, William A. Pizer, Massimo Tavoni, Mariia Belaia, Mark E. Borsuk, Arunabha Ghosh et al. "Social science research to inform solar geoengineering," in *Science* 374, no. 6569 (2021): 815-818. <https://www.science.org/doi/10.1126/science.abj6157>.

**Kholod**, Nazar, Meredydd Evans, Zarrar Khan, Mohamad Hejazi, and Vaibhav Chaturvedi. 2022. 'Water-Energy-Food Nexus in India: A Critical Review,' in *Energy and Climate Change*, Volume 2. <https://doi.org/10.1016/j.egycc.2021.100060>.

**Nduagu**, Experience I., Deepak Yadav, Nishant Bhardwaj, Sabarish Elango, Tirtha Biswas, Rangan Banerjee, Srinivasan Rajagopalan. 2022. "Comparative life cycle assessment of natural gas and coal-based directly reduced iron (DRI) production: A case study for India," in *Journal of Cleaner Production*, Volume 347. <https://doi.org/10.1016/j.jclepro.2022.131196>.

**Bassi**, Nitin, Saurabh Kumar, M. Dinesh Kumar, Sofie Van Ermen, and Paul Campling. 2022. "Promoting Wastewater Treatment in India: Critical Questions of Economic Viability," in *Water and Environment Journal* 1– 14. <https://doi.org/10.1111/wej.12810>.

**Agrawal**, Shalu, Nipun Batra, Karthik Ganesan, Kavita Vaishanaw, and Sunil Mani. 2022. "Smart Meter Data-Enabled Transition to Energy Efficient Cooling," in: Pillai, R.K., Ghatikar, G., Sonavane, V.L., Singh, B.P. (eds) ISUW 2020. *Lecture Notes in Electrical Engineering*, vol 847. Springer: Singapore.

**Dutt**, Arjun, Arunabha Ghosh and Gagan Sidhu. 2022. *Investment in technologies of today: the need and ways to increase flows of finance into developing countries*. Stockholm+50 background paper series. Stockholm: Stockholm Environment Institute.

**Zhang**, Alice Tianbo, Sasmita Patnaik, Shaily Jha, Shalu Agrawal, Carlos F., Gould and Johannes Urpelainen. 2022. "Evidence of multidimensional gender inequality in energy services from a large-scale household survey in India", in *Nature Energy* 7, 698–707. <https://doi.org/10.1038/s41560-022-01044-3>.

**Mohanty**, Abinash, and Shreya Wadhawan. 2022. "The State of Extreme Events in India". Under exclusive licence to Springer Nature Switzerland AG 2022 R. Brears (ed.), *The Palgrave Encyclopedia of Urban and Regional Futures*. [https://doi.org/10.1007/978-3-030-51812-7\\_314-1](https://doi.org/10.1007/978-3-030-51812-7_314-1).

**Mohanty**, Abinash. 2022. "Adapting to a Changing Climate Through Nature-Based Solutions," in: *The Palgrave Encyclopedia of Urban and Regional Futures*. Palgrave Macmillan, Cham. [https://doi.org/10.1007/978-3-030-51812-7\\_313-1](https://doi.org/10.1007/978-3-030-51812-7_313-1).

## POLICY/ISSUE BRIEFS

**Saji**, Selna, Gandhar G. Ukidve, and Neeraj Kuldeep. 2021. *Feasibility Assessment of Agriculture Solar Micro-Grids: A Case Study of TP-DDL Discom in North Delhi*. New Delhi: Council on Energy, Environment and Water.

**Rahman**, Anas and Abhishek Jain. 2021. *Can Chhatisgarh Further Equity, Prosperity, and Sustainability Through Solar Pumps? Indications from a Beneficiaries' Survey*. New Delhi: Council on Energy, Environment and Water.

**Rahman**, Anas and Abhishek Jain. 2021. *Making Remote Monitoring of Solar Pumps Work for States*. New Delhi: Council on Energy, Environment and Water.

**Rahman**, Anas and Abhishek Jain. 2021. *How is India Using its Solar Pumps for Irrigation? Insights from Solar Pump Remote Monitoring Data in Chhattisgarh*. New Delhi: Council on Energy, Environment and Water.

**Dixit**, Himanshu, Shikha Bhasin, and Deepa Janakiraman. 2021. *Internet of Things and its Impact on India's Air-Conditioning Servicing Landscape*. New Delhi: Council on Energy, Environment and Water.

**Agrawal**, Shalu, Sunil Mani, Abhishek Jain, and Karthik Ganesan. 2021. *Are Indian Homes Ready for Electric Cooking? Insights from the India Residential Energy Survey (IRES) 2020*. New Delhi: Council on Energy, Environment and Water.

**Ganguly**, Tanushree, Adeel Khan and Karthik Ganesan. 2021. *What is Polluting India's Air? The Need for an Official Air Pollution Emissions Database*. New Delhi: Council on Energy, Environment and Water.

**Kurinji**, L. S and Srish Prakash. 2021. *Why Paddy Stubble Continues to be Burnt in Punjab? Meeting Challenges with Solutions*. New Delhi: Council on Energy, Environment and Water.

**Mohanty**, Abinash and Shreya Wadhawan. 2021. *Mapping India's Climate Vulnerability: A District-Level Assessment*. New Delhi: Council on Energy, Environment and Water.

**Dutt**, Arjun. 2021. *Advancing Article 6 Negotiations: A Proposal to Resolve the Certified Emissions Reductions (CERs) Transition Deadlock*. New Delhi: Council on Energy, Environment and Water.

**Singh**, Vaibhav, and Gagan Sidhu. 2021. *Investment Sizing India's 2070 Net-Zero Target*. New Delhi: Council on Energy, Environment and Water.

**Singh**, Vaibhav Pratap, Meghna Nair, and Sangeeth Raja. 2021. *How have India's RE Policies Impacted its Wind and Solar Projects?* New Delhi: Council on Energy, Environment and Water.

**Tyagi**, Akanksha and Neeraj Kuldeep. 2021. *How India can Manage Solar Photovoltaic Module Waste Better: Learnings from Global Best Practices*. New Delhi: Council on Energy, Environment and Water.

**Rahman**, Anas, and Abhishek Jain. 2022. *Community-Based Solar Irrigation in Chhattisgarh: Prospects and Challenges*. New Delhi: Council on Energy, Environment and Water.

**Mohanty**, Abinash and Vidur Mithal. 2022. *Managing Forest Fires in a Changing Climate*. New Delhi: Council on Energy, Environment and Water.

**Nain**, Aarti and Shikha Bhasin. 2022. *Making Sustainable Cooling in India Affordable – A Study of Financing Business Models*. New Delhi: Council on Energy, Environment and Water.

**Aggarwal**, Dhruvak, Harsha V. Rao, and Disha Agarwal. 2022. *How can Discoms Optimise Power Procurement Costs? The Case for Delhi to Exit the Power Purchase Agreement with NTPC Dadri Stage-I*. New Delhi: Council on Energy, Environment and Water.

**Khan**, Adeel, Uday Suryanarayanan, Tanushree Ganguly, and Karthik Ganesan. 2022. *Improving Air Quality Management through Forecasts: A Case Study of Delhi's Air Pollution of Winter 2021*. New Delhi: Council on Energy, Environment and Water.

**Aggarwal**, Jhalak, Shikha Bhasin, and Sumit Prasad. 2022. *Communicating Climate Action Effectively: A Reporting Framework for Nations to Inform the Public*. New Delhi: Council on Energy, Environment and Water.

**Bhasin**, Shikha, Bhuvan Ravindran, and Eleonora Moro. 2022. *Solar Geoengineering and the Montreal Protocol: A Case for Global Governance*. New Delhi: Council on Energy, Environment and Water.

## OTHER PUBLICATIONS

**Shah**, Ruchita, Nikhil Sharma, Meghna Nair, Shreyas Garg. 2021. *CEEW-CEF Market Handbook Q2 2021-22*. New Delhi: Council on Energy, Environment and Water.

**Shah**, Ruchita, Nikhil Sharma, Meghna Nair, Shreyas Garg. 2022. *CEEW-CEF Market Handbook Q3 2021-22*. New Delhi: Council on Energy, Environment and Water.

**Bassi**, Nitin. 2022. "Climate Risk Adaptation and Mitigation in India: Role of Reservoirs and Hydropower." *In Proceedings of the International Conference on Hydropower and Dams Development for Water and Energy Security: Under Changing Climate*, Rishikesh, India, 7-9 April 2022, 1-4.

**Shah**, Ruchita, Nikhil Sharma, Meghna Nair, Shreyas Garg. 2022. *CEEW-CEF Market Handbook 2021-22 Annual Issue*. New Delhi: Council on Energy, Environment and Water.

**Gupta**, Akash Som, Ananya Dhanuka, Bhawna Tyagi, and Neeraj Kuldeep. 2022. *A Rooftop Solar for Every Home in India: Guidebook to Organise Local Solarise Campaigns*. New Delhi: Council on Energy, Environment and Water.

## CEEW-CEF ANALYSIS

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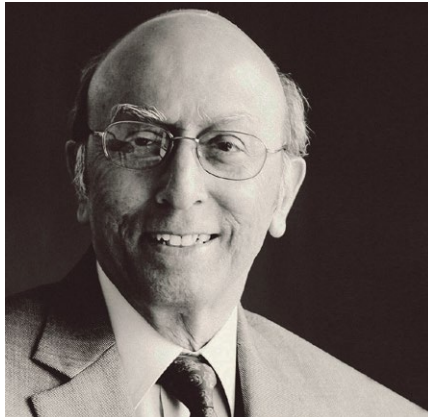
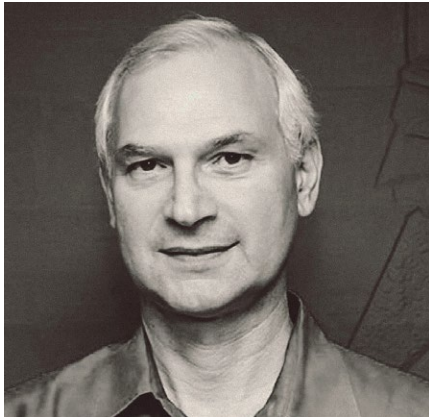
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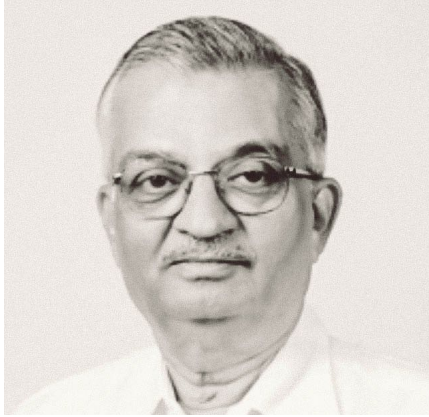




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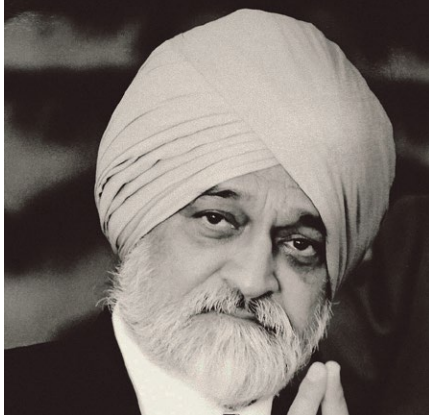


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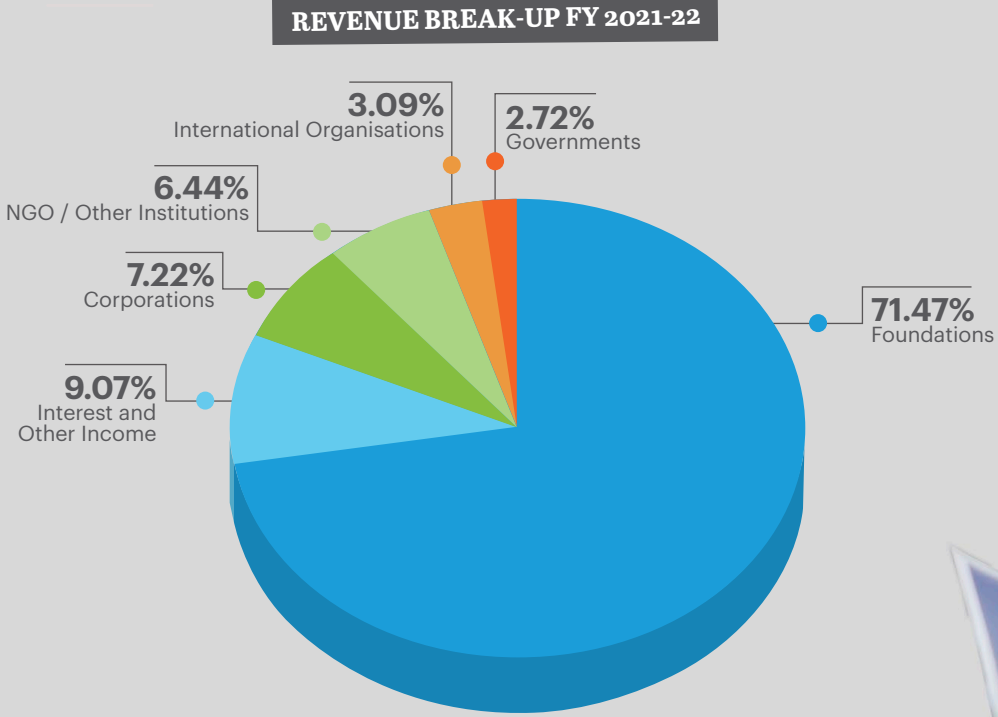
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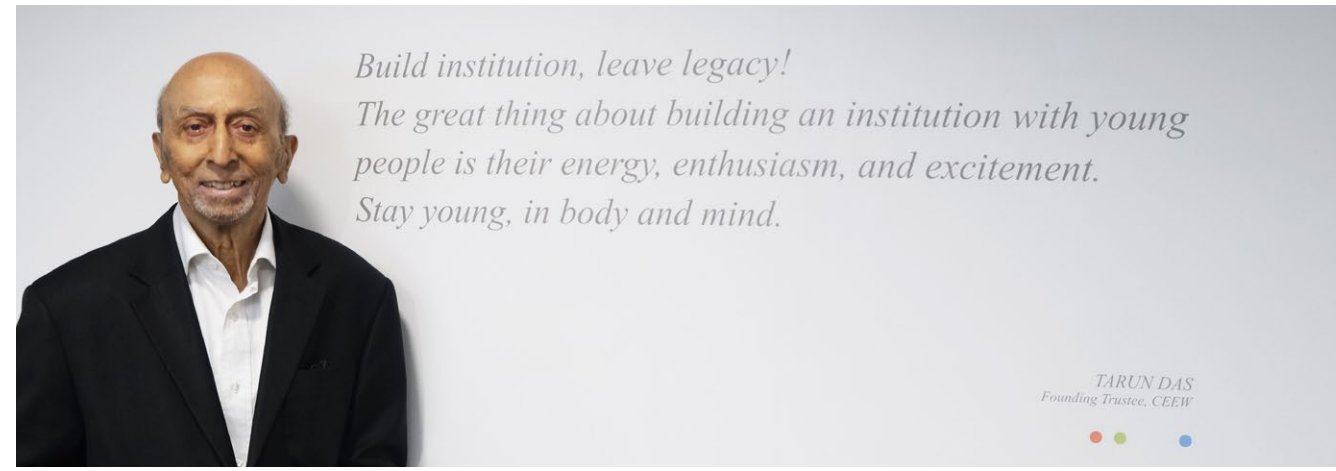




# Life @ CEEW



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**REIMAGINE** is a piece of art depicting a new way of life built on respect for all beings and care for the planet. It was made for CEEW by our creative partners, Aravani Art Project, a trans and ciswomen-led art collective.

Artists: Deepak, Hamsa, Parthana, Purushi, and Shwetha.

**GRATITUDE**

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