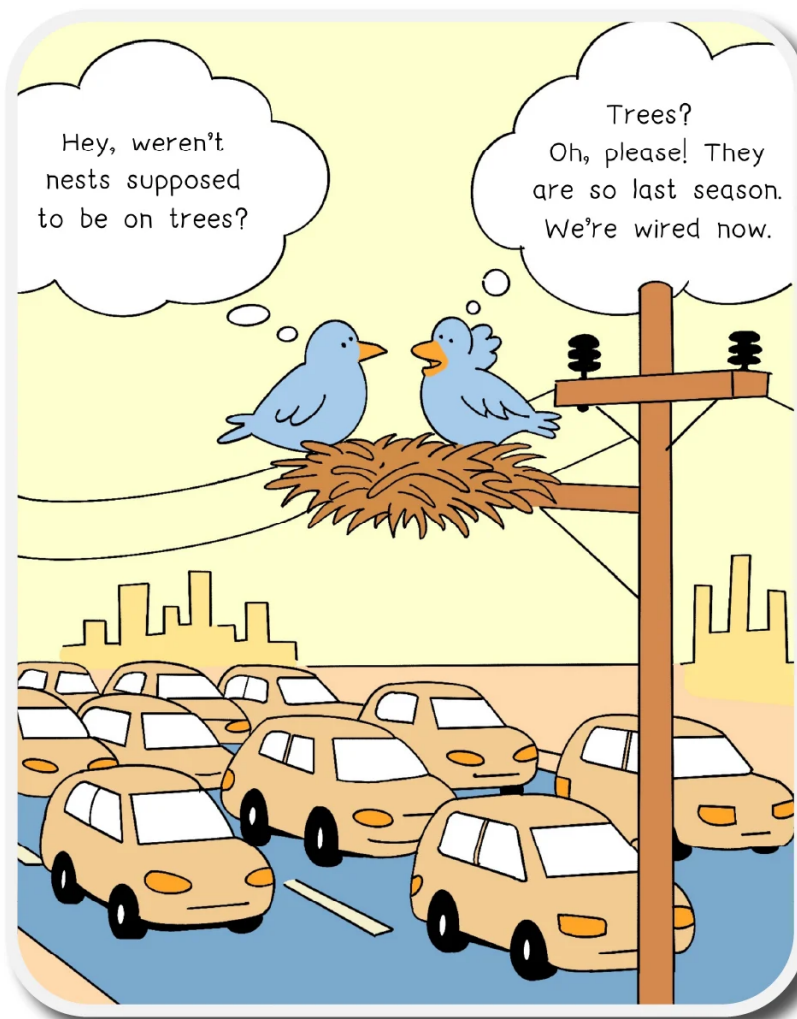




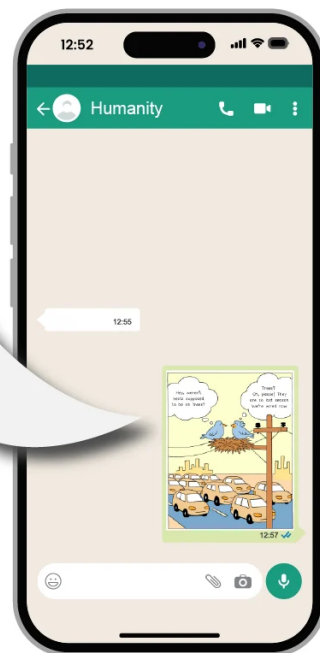
Policy Matters

From our desk to yours

November 2025



Earth on read ✓





From Declarations to Design

COP30



All Eyes on COP

As COP30 takes shape in Brazil, CSTEP has been exploring what meaningful climate implementation looks like through the lens of India's unique experiences. Under the theme '[From Declarations to Design: Learning from India's Climate Journey](#)', our researchers have been sharing insights across platforms and media based on our work in over 15 Indian states.

In an interview with [Deccan Herald](#), Executive Director Dr Jai Asundi emphasised the need to integrate climate and health data for informed policymaking. Ramya Natarajan, Group Head – Mitigation, was quoted in [The Associated Press](#) on the complexities of India's biofuel transition.

Dr Indu Murthy, Sector Head – Climate, Environment and Sustainability, writing in [The Hindu](#), reflected on what to expect from COP30, often called the 'implementation COP'. Continuing this dialogue, our latest [podcast episode](#), 'The Fine Print of Adaptation', delves into what climate adaptation looks like on the ground and what effective implementation means for COP30 and beyond.

Annual Report 2024-25

Science and Technology for
Sustainable Solutions

20 Years of
CSTEP

Gritty at 20

In our Annual Report 2024–25, we **celebrate** 20 years of learning, growing, and working together.

Over these two decades, CSTEP has helped India take meaningful steps toward cleaner energy and better climate solutions. We have shared ideas, conducted research, and collaborated with partners to make a real difference — across towns, states, and even countries.

This **report** captures some of our most inspiring stories and shows how our work is helping leaders make smarter, data-driven choices for a greener future. We are proud of how far we have come and excited for what lies ahead.



Modelling for the Future

The [**India Clean Air Summit \(ICAS\)**](#) 2025, held from 20–22 August, focused on one mission: finding smart, science-based ways to fight air pollution.

This year's theme, 'Towards Clean Air for All: Modelling the Solutions to Pollution', highlighted how models can help tackle air quality challenges.

Why does this matter? Because effective clean air policies need evidence, not guesswork.

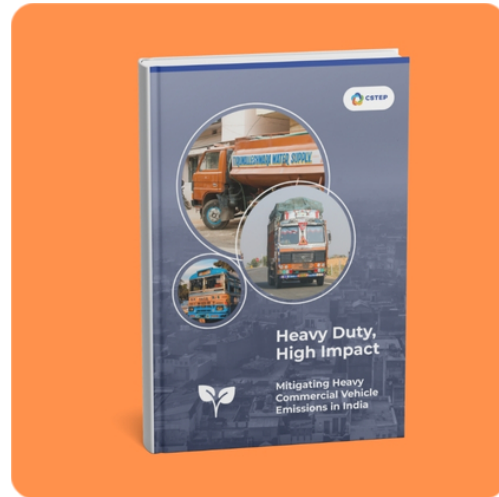
At ICAS, policymakers, researchers, industry leaders, and citizen groups came together to explore key questions such as which solutions will work best for India's cities or how can technology guide smarter policies? To spark action, CSTEP released two major reports packed with insights and strategies that can help turn ideas into real change.



Switch On, Smoke Off

The report looks at smart ways to move away from using diesel generators for backup power, with cleaner, tech-enabled alternatives that do not harm the planet.

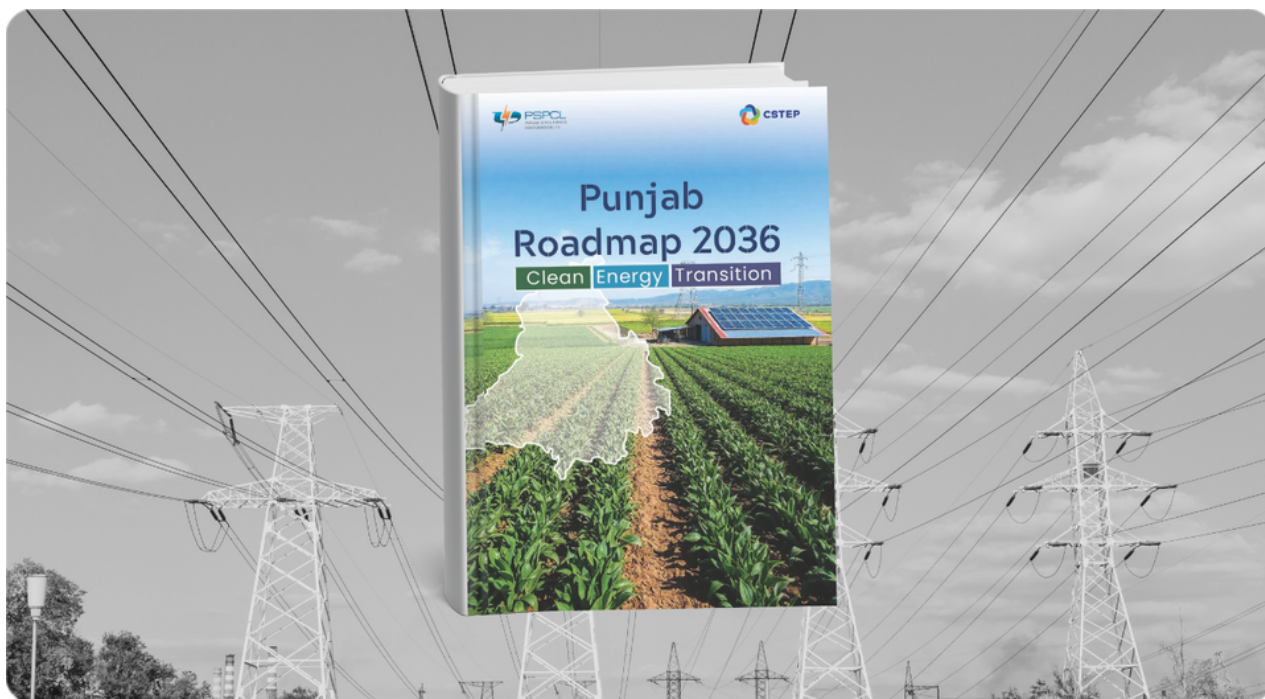
[Click here](#)



Heavy Duty, High Impact

The study maps out emissions from heavy commercial vehicles, reviews current policies, and suggests practical strategies to cut harmful exhaust fumes.

[Click here](#)



Powering Punjab

Punjab's energy needs are rising rapidly, driven by its busy factories, extensive farmlands, and growing households. This makes it harder for the state to stick to its clean energy goals. Yes, Punjab has added more renewable power, especially solar, but a full clean energy shift needs a stronger and more balanced power system.

To help with this, CSTEP designed the [**Punjab Roadmap 2036: Clean Energy Transition**](#). This report lays out clear steps to cut dependence on thermal sources and move towards a mix of clean energy sources. It explains how Punjab can deal with its lower solar and wind potential, build a stronger grid, and stay on track with India's big goals—net-zero emissions and 500 GW of renewable power by 2030.

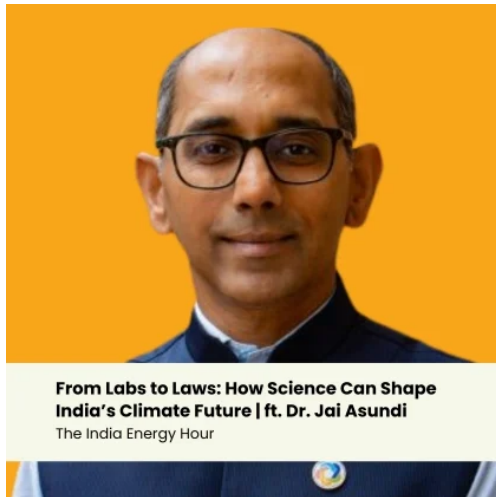


Championing Climate Education

In a big step towards connecting research with learning, a special module on CSTEP's Sustainable Alternative Futures for India (SAFARI) model is now part of the MSc in Climate Change and Sustainability programme at Azim Premji University.

Students are diving into the [SAFARI tool](#) to understand how data and scenarios can shape climate action. [Hear](#) their reflections on what they have learned, how the tool works, and why it could be a game-changer for building a sustainable future.

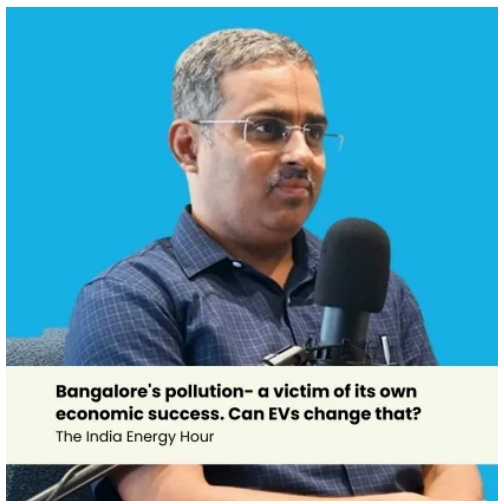
Tune In



On [The India Energy Hour](#) podcast, Dr Jai Asundi, Executive Director at CSTEP, talked about how rigorous, data-driven research shapes India's energy and climate policies, making the shift to a low-carbon economy fair and sustainable.

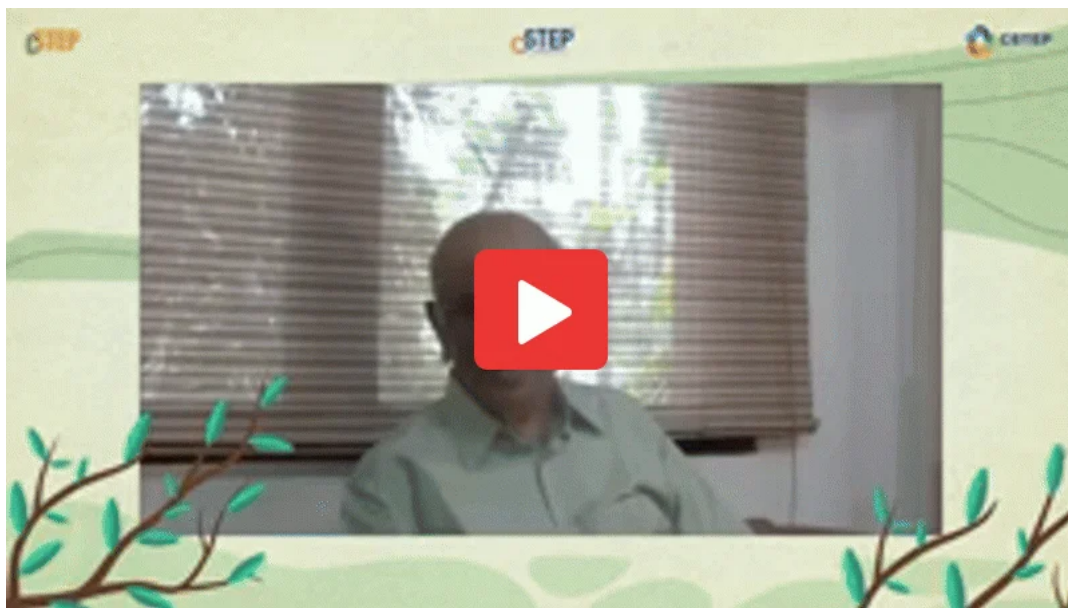
On [The Climate Conundrum Podcast](#), Dr Indu Murthy, Sector Head for Climate, Environment, and Sustainability, unpacked insights from our sea level rise report—explaining the science behind global mean sea level (GMSL) rise, what it means for India's coastal cities, and its impact on vulnerable communities and ecosystems.





On the [Energizing India Podcast](#), Thirumalai N C, Sector Head for Strategic Studies, explored Bengaluru's urban challenges and its electric mobility future.

Video Highlights



As we celebrate 20 years, we look back on our journey—from Padma Bhushan Dr V S Arunachalam's founding vision to the work we do today in climate, energy, air quality, artificial intelligence, and beyond. Marking two decades of impact, CSTEP continues to push boundaries in research and innovation, shaping solutions for a sustainable future.



As part of the Odisha Climate-Smart Agriculture Alliance, CSTEP has created a three-part scoping study series. These studies provide district-level data on emissions, resource use, and climate risks in agriculture, helping design targeted, data-driven strategies for climate-smart farming.



Beneficiaries from Madhya Pradesh share their first-hand experience with the *Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan* (PM-KUSUM) scheme, highlighting how solar energy is transforming their livelihoods. CSTEP, in collaboration with the Government of Madhya Pradesh, is proud to support the effective rollout of PM-KUSUM in the state.

CSTEP

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