

## PRESS RELEASE

# India's green economy could attract USD 4.1 trillion in investments by 2047, create 48 million FTE jobs: CEEW

- ♦ India could unlock a USD 1.1 trillion worth of green market in 2047
- ♦ CEEW study maps 36 green value chains across renewables, circular and bio-economies

**New Delhi, 26 November 2025:** India could attract USD 4.1 trillion (INR 360 lakh crore) in cumulative green investments and create 48 million (4.8 crore) full-time equivalent (FTE) jobs according to a new, independent study launched today by the Council on Energy, Environment and Water (CEEW). The analysis further projects that India could unlock a USD 1.1 trillion (INR 97.7 lakh crore) annual green market by 2047. This first-of-its-kind national assessment identifies 36 green value chains across energy transition, circular economy, and bio-economy and nature-based solutions that together represent a defining green economic opportunity for India's journey towards *Viksit Bharat*.

A green economy is often viewed narrowly as solar panels and electric vehicles. However, the study highlights a far broader opportunity that extends to bio-based materials, agroforestry, green construction, sustainable tourism, circular manufacturing, waste-to-value industries and nature-based livelihoods, each of which could scale into billion-dollar sectors over the next two decades while strengthening resource security and resilience. The dialogue also saw the launch of the Green Economy Council (GEC), a group chaired by Shri Amitabh Kant and including other eminent Indian leaders, such as Mr Nithin Kamath (Zerodha), Mr Deep Kalra (Makemytrip), Ms Ruchi Kalra (Oxyzo Financial Services, OfBusiness), Ms Shruti Shibulal (Tamara Leisure Experiences), Mr Vineet Rai (Aavishkaar Group), Mr Ishpreet Singh Gandhi (Stride Ventures), Prof. Ashok Jhunjhunwala (IIT Madras), Dr Srivardhini K. Jha (NSRCEL, IIM Bangalore), and Dr Arunabha Ghosh (CEO, CEEW and Special Envoy for COP30 representing South Asia) to help India recognise and realise emerging green economic opportunities.

**Shri Jayant Sinha, President, Everstone Group & Eversource Capital, and Former Union Minister of State, GoI, said,** “India's green transition is fundamentally net positive: it can create millions of jobs, accelerate growth, improve public health and strengthen national security by shifting to domestic energy sources. The value chains identified in this CEEW study point to where this trillion dollar opportunity lies. Policy stability addressing bottlenecks like land, and usage of blended finance tools is now needed to de-risk investment. With a whole-of-government approach, India can mobilise the capital required to drive a green frontier development model.”

**Speaking at the launch, Shri Amitabh Kant, former G20 Sherpa, former CEO, NITI Aayog, and Chairman, GEC, said,** “As India moves beyond a USD 3 trillion economy, we cannot follow the development models of the West. With much of our infrastructure yet to be built, we have a unique chance to design cities, industries and supply chains around circularity, clean energy and the bioeconomy. Just as digital public infrastructure enabled India to leapfrog technologically—achieving in seven years what would have taken decades—we must now pole-vault into a green economy. While much of the world remains locked into legacy systems, a *Viksit Bharat* built on circular and resource-efficient value chains can define a new development pathway and set a global benchmark for green growth.”

**Abhishek Jain, Director, Green Economy and Impact Innovations, CEEW, added,** “Pursuing a green economy will not just create jobs and economic prosperity for India, it will also help us secure the fuels and resources of the future, making us *Atmanirbhar*. India today imports 87 per cent of its crude, which can be reduced to zero with electric vehicles, solar energy and next-generation bioethanol and biodiesel. We import 100 per cent of our lithium, nickel and cobalt, and even 93 per cent of copper ore—all of which can become zero-import with a circular economy. We are heavily dependent on fertiliser imports—all of our potash is imported, and 88 per cent of urea is directly or indirectly import-dependent. With bio-inputs for

agriculture and the bioeconomy at large, we can secure our food and material needs. For India, green is not a choice: it is an imperative.”

Many of the sectors identified in these value chains are no longer niche: engineered bamboo is already being deployed in flooring and building materials, seaweed is emerging as a feedstock for bio-stimulants and biopolymers, and agroforestry is being integrated into state-level land-use planning. India now needs to leverage these maturing opportunities at scale.

According to CEEW analysis:

- **Energy transition** alone could generate 16.6 million FTE jobs and attract USD 3.79 trillion in investments across renewables, storage, distributed energy and clean mobility manufacturing. Electric mobility would be the single largest employer within the green economy, driving over 57 per cent of all energy-transition jobs.
- **Bio-economy and nature-based solutions**, anchored in India’s rural and peri-urban landscapes, could create 23 million jobs and unlock USD 415 billion in market value. The top job-generating value chains within this segment include chemical-free agriculture and bio-inputs (7.2 million FTE jobs), agroforestry and sustainable forest management (4.7 million FTE jobs), and wetland management (3.7 million FTE jobs).
- **Circular economy** could generate USD 132 billion in annual economic output and create 8.4 million FTE jobs across waste collection, recycling, repair, refurbishment and material recovery. Of these, 7.6 million FTE jobs would arise from waste-related activities, including roles in collection, sorting, aggregation, recycling operations, and last-mile resource recovery—sectors that could see improved wages and working conditions as systems formalise.

Together, these opportunities represent one of India’s largest untapped economic opportunities, with deep linkages to micro, small and medium enterprises (MSMEs), cooperatives and community enterprises.

Most of these represent net new green jobs, particularly in the bio-economy and rural nature-based sectors, while the energy-transition and circular-economy value chains combine new opportunities with transition roles from existing industries.

The CEEW study also lists significant challenges: lowering capital costs for early-stage sectors, improving supply chains for raw and recycled materials, strengthening R&D and innovation, building a technically skilled workforce, and establishing trusted product standards for emerging green technologies. Coordinated action across ministries, state governments, industries, finance and local institutions will be essential to integrate green value chains into mainstream economic planning.

The analysis emphasises that women’s participation is pivotal to India’s green economic transformation, and recommends gender-responsive skilling, safer mobility for remote worksites, improved wage structures and dedicated financial instruments for women-led green enterprises.

States are already beginning to act on building a green economy. Odisha, for instance, has constituted its own GEC and a committee of 16 state secretaries to embed green value chains into economic planning and drive green-led diversification, demonstrating how mission-oriented governance at the state level can accelerate India’s green economy transition.

Green economy has the potential to create  
48 million jobs by 2047



Source: Building a Green Economy for Viksit Bharat(2025)

The Green Economy Council



**Shri Amitabh Kant**  
GEC Chair,  
Former G20 Sherpa  
Former CEO, NITI Aayog



**Deep Kalra**  
Founder  
Make My Trip



**Ruchi Kalra**  
CEO, Oxyzo Financial  
& Co-founder, OfBusiness



**Dr Arunabha Ghosh**  
CEO, CEEW  
Special Envoy for COP30  
representing South Asia



**Nitin Komath**  
CEO  
Zerodha



**Vineet Rai**  
Founder  
Avishkaar Group



**Prof. Srivardhini K. Jha**  
Chairperson  
NSRCEL, IIM Bangalore



**Prof. Ashok Jhunjhunwala**  
Professor, IIT Madras  
and Padma Shri



**Shruti Shibu**  
Exec. Vice Chair  
& Director, Tamara



**Ishpreet Singh Gandhi**  
Founder & Managing  
Partner, Stride Ventures

Read the full study, **Building a Green Economy for Viksit Bharat: New Opportunities for Jobs, Growth and Sustainability**, by Abhishek Jain, Gunjan Jhunjhunwala, et al. [here](#).

For media queries and interviews, contact:

Tulshe Agnihotri – [tulshe.agnihotri@ceew.in](mailto:tulshe.agnihotri@ceew.in)

#### About CEEW

The Council on Energy, Environment and Water (CEEW) — a homegrown institution with headquarters in New Delhi — is among the **world's leading climate think tanks**. The Council is also often ranked among the **world's best-managed and independent think tanks**. It uses data, integrated analysis, and strategic outreach to explain — and change — the use, reuse, and misuse of resources. It prides itself on the independence of its high-quality research and strives to **impact sustainable development at scale** in India and the Global South. In over 14 years of operation, CEEW has impacted over 400 million lives and engaged with over 20 state governments. Follow us on X (formerly Twitter) [@CEEWIndia](#) or on LinkedIn for the latest updates.