



WRI INDIA



## ABOUT WRI INDIA

WRI India, an independent charity legally registered as the India Resources Trust (IRT) has a license from the World Resources Institute (WRI) to use the trademark "WRI India". It provides objective information and practical proposals to foster environmentally sound and socially equitable development.

Through research, analysis and recommendations, WRI India puts big ideas into action to build transformative solutions to protect the earth, promote livelihoods and enhance human well-being. We envision an equitable and prosperous planet driven by the wise management of natural resources. We aspire to create a world where the actions of government, business and communities combine to eliminate poverty and sustain the natural environment for all people.

We are inspired by and associated with the World Resources Institute (WRI), a global research

organization with credible experts and dedicated staff around the world. WRI provides cutting edge analysis to address global environment and development challenges. The mission is to move human society to live in ways that protect the Earth's environment and its capacity to provide for the needs and aspirations of current and future generations.

Founded in 1982, WRI now has country offices in Brazil, China, Colombia, India, Indonesia, Mexico and the United States as well as regional offices in Africa and Europe. In all these locations, WRI works with government, business and society to drive ambitious action based on high-quality data and objective analysis.

WRI India works with the central and state governments across India with offices in Delhi, Mumbai and Bengaluru.

## KEY AREAS OF EXPERTISE



### Sustainable Cities

Through our largest program, we support Indian cities in their journey to be low carbon, resilient and inclusive through our work in 10 practice areas - Integrated Transport, Electric Mobility, Safer Roads, Sustainable Housing, Data-Led Urban Planning, Liveable Neighborhoods, Climate Smart Cities, Clean Air, Water Resilience, and Innovations and Startups.



### Food and Land

We combine advances in knowledge, robust analysis and cutting-edge technology to provide innovative tools and strategies to protect, maintain and restore India's forests, agricultural landscapes and rural livelihoods.



### Energy

We work towards India's transition to clean energy while improving energy access and achieving higher levels of energy efficiency. Access to energy for health, livelihood and education, in predominantly rural regions, is one of our focus areas.



### Climate

We inform businesses in the deployment of low-carbon technologies and practices, simulating and testing possible carbon markets. We also use modeling technologies to inform policymaking and evaluate green technologies in the Indian context.

## LONG-TERM CLIMATE COMPATIBLE GROWTH FOR INDIA

### Long-term Climate Compatible Growth for India: Modeling Low-carbon Pathways and Policies for India's Power, Industry and Transport Sectors

This study is grounded in the concept of carbon budgets and determines India's fair share of the global carbon budget using four budget allocation approaches. Four Indian research groups then use different energy-economy models to distribute these budgets across time and sectors to determine decadal milestones for India's key energy sectors, viz. power, industry and transport.



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### Enabling EV Battery Reuse and Recycling in India

These conference proceedings examine the policies and regulations needed to enable the reuse and recycling of retired electric vehicle (EV) batteries in India. The document summarizes the proceedings of a focused group discussion hosted by WRI India in collaboration with Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) India. The deliberations revolved around the challenges and gaps in the Battery Waste Management Rules 2022, safety concerns regarding lithium-ion batteries (LIBs), battery data management, and the need for reuse and recycling market development.



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### Accelerating the Production and Use of Green Hydrogen

This report emphasizes three key priorities for G20 nations to promote and accelerate green hydrogen adoption. The primary areas include international supply chains (production, transport, storage, and end-use applications), establishing a standardized framework for hydrogen classification, and fostering collaborative research and innovation through multilateral platforms. The report further recommends intergovernmental cooperation and strategic collaboration among G20 nations in these focus areas to achieve scale, standardization and collaborative innovation for advancing green hydrogen technology deployment.



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### Understanding Global Hydrogen Strategies: Strengthening Clean Hydrogen Opportunities

WRI India's webinar series on "Understanding Global Hydrogen Strategies" aimed to facilitate an understanding of the various approaches taken by countries to develop a robust clean hydrogen ecosystem. The two-part webinar series held on August 10, 2022, and October 20, 2022, featured participants from 10 countries around the world. The discussions focused on the importance of expeditious and widespread implementation of hydrogen strategies and roadmaps, supported by decisive and effective legislations, to unlock the immense future potential of clean hydrogen supply and demand.



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### Winds of Change: Learnings for the Indian Offshore Wind Energy Sector

India has 40 GW onshore wind (November 2021) and aims for 70 GW offshore wind off Gujarat and Tamil Nadu. A scalability-focused demo project is under consideration. However, offshore wind inclusion demands swift progress in policy, contracts, financing, manufacturing and infrastructure. Policy and contract assurance are crucial. Lower tariffs need accessible financing and increased volume transparency. A robust local industry requires support, focusing on environmental protection and community trust. To boost offshore wind, India can learn from global models. This paper explores India's journey to 30 GW offshore, analyzing policy, finance, infrastructure, regulations and environmental impacts, drawing insights from accomplished nations.



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### A Spoonful of Solar to Help the Medicine go Down: Exploring Synergies Between Health Care and Energy

This report examines the transformative impact of decentralized solar energy in India's rural health facilities, particularly on underserved populations. Spanning multiple states, it assesses diverse interventions in financing, ownership and operating modes, emphasizing scalability challenges and essential conditions for sustained success. The study, utilizing a robust methodology with literature reviews, interviews, field visits and practical experience, focuses on 22 health facilities powered by decentralized solar energy across Assam, Chhattisgarh, Jharkhand, Karnataka, Meghalaya and Odisha. As part of WRI India's Energy for Development Initiative, the report contributes to ensuring reliable, affordable and sustainable electricity access in rural and underserved areas.

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