India Infrastructure Report 2024

Sustainable Energy Transition

A Way Forward for India's Power Sector









India Infrastructure Report Series

India Infrastructure Reports (IIRs) stand as a beacon of collaborative efforts, embodying a commitment to foster an environment of open dialogue and innovative problem-solving in the realm of infrastructure development. Since its inception in 2001 by IDFC Foundation, the IIR series has consistently shed light on critical issues within the infrastructure landscape while advocating for fresh perspectives and pragmatic solutions.

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India Infrastructure Report 2024

A Must-Read for Policymakers, Industry Leaders, and Academics

India is at a turning point in its energy journey. The need for a reliable, affordable, and sustainable power sector to fuel India's ambitions for a 5 trillion economy and Viksit Bharat has never been greater. IIR 2024 is a deep dive into the critical role of India's power sector in the nation's energy transition. With a unique blend of academic rigour, industry insights, and policy perspectives, this report is an essential resource for decision–makers, researchers, and businesses shaping India's energy future.

This year's report explores the key drivers of the transition, from power generation and transmission to markets, finance, and governance. It addresses challenges like grid modernisation, financing sustainable energy, emerging technologies, and India's path to a just low-carbon future while ensuring energy security and affordability.

IIR 2024 covers everything from institutional reforms and power markets to decarbonisation strategies and innovative solutions. It also brings in global experiences, actionable insights, and future-ready recommendations for policymakers and industry leaders.

Whether you are in government, business, or academia, IIR 2024 is your guide to understanding and navigating India's energy transition.

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iDeCK focusses on catalysing well-planned, sustainable infrastructure projects, especially through public-private participation.

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Power Foundation of India is a think tank and a policy advocacy body, under the aegis of Ministry of Power, Gol, supported by twelve leading power sector CPSUs.



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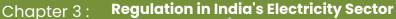


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Section III: Utilities

- Chapter 6: Power Generation: Transitioning towards Low Carbon
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- Chapter 10: Ensuring Critical Resources Availability for India's Energy Transition
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 - Udit Mathur (General Manager, ReNew)
- Chapter 11: Just Transition: A People-Centric Low Carbon Pathway for India
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- Chapter 12: Distributed Renewable Energy for Setting up Energy Efficient Rural **Network**
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- Chapter 13: Transitioning to a Circular Economy: Managing Waste from India's Green **Power Systems**
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- Chapter 15: Looking Ahead: Managing Environmental, Health and Safety Hazards of Batteries in India's Low Carbon Transition
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Mobility Growth and Decarbonisation Pathways in India: Barriers and

Chapter 18 : Opportunities

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Section VI: Finance

Chapter 19: Financing the Energy Transition: The Role of Carbon Markets in the Power Sector

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Chapter 20: Investment and Financing: Development of High Efficiency and Low Emission Power Sector

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