



# Research Reports/Services on Infrastructure Sectors

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# ABOUT US

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- Leading provider of information, analysis and insight on India's infrastructure sectors since 1997
- Focus areas: Energy, Transportation, Urban Infrastructure, Construction, Communications and Infrastructure Finance
- 35+ multi-client studies and market intelligence research reports every year
- Online database tracking 7,500+ key infrastructure projects
- Six leading magazines related to infrastructure – Power Line, Indian Infrastructure, tele.net, Renewable Watch, Smart Utilities and Gujarat Infrastructure
- 80+ conferences a year providing platform for sharing of expertise and exchange of views
- Ten weekly newsletters covering key news and developments
- **ALL ACTIVITIES FOCUSED ON INFRASTRUCTURE**

Our clients include most organisations involved in the infrastructure sectors – multinationals, top Indian corporates, commercial and investment banks, consulting companies, public sector companies, government agencies, multilateral agencies and legal firms.

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# Recent Research Reports/Services

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Road Development in India 2024

Railways in India 2024

Ports in India 2024

Water in India 2024

Airports in India 2024

Urban Rail Market in India 2024

Tunneling in India 2023

Logistics in India 2023

Power Generation in India 2024

Power Transmission in India 2024

Power Distribution in India 2024

Renewable Energy in India 2024

Green Hydrogen in India 2023

City Gas Distribution in India 2023

Pumped Storage Projects in India 2023

Floating Solar Projects in India 2023

Data Centre Market in India 2023

# ROAD DEVELOPMENT IN INDIA 2024

The most comprehensive and up to date analysis of roads sector in India

India Infrastructure Research has released the updated edition of **Road Development in India** research report.

The subscription has five elements:

- Road Development in India 2024 report (updated every quarter)
- Master dataset of 2,500+ projects (updated every quarter)
- India Roads Monitor (<https://indiaroadsmonitor.com/>)
- 12 monthly progress reports
- 52 weekly newsletters

## 1. The Road Development in India report will provide information on:

- ❖ Sector Overview, Trends, Opportunities and Future Outlook
- ❖ Equipment and Material Market Size and Projections
- ❖ Focus on Implementation Models
- ❖ Progress and Opportunities at the State- Level
- ❖ Financing Scenario and Acquisition Trends
- ❖ Key Players Profiles

## 2. Master dataset of 2,500+ projects will provide information on:

- ❖ National Highways
- ❖ Types of Projects (expressways, tunnels, laning, etc.)
- ❖ State Highways
- ❖ Key Status of Projects

## 3. India Roads Monitor provides continuously updated information on:

- ❖ Policy Developments
- ❖ Monthly Progress of the Sector
- ❖ Projects
- ❖ Key Players Profiles
- ❖ Finance
- ❖ Tenders

## 4. Monthly Progress Reports will include:

- ❖ Projects Announced
- ❖ Projects Awarded
- ❖ Projects Bidders
- ❖ Projects Completed

## 5. Weekly Newsletters will include summary updates on:

- ❖ Policy Announcements
- ❖ Update on Key Programmes
- ❖ Government Initiatives
- ❖ Key Financings
- ❖ Project Completions/Awards/Announcements

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Subscription fee (one year): Rs 120,000 plus GST

# RAILWAYS IN INDIA 2024

The most comprehensive and up to date analysis of railways sector in India

India Infrastructure Research has released the updated edition of **Railways in India 2024** research report.

The RailPlus service has five key elements:-

- Railways in India 2024 report (updated every quarter)
- Master dataset of 1,000+ projects (updated every quarter)
- India Rail Monitor ([indiarailmonitor.com](http://indiarailmonitor.com))
- 12 Monthly Progress Reports
- 52 Weekly Newsletters

## 1. The Railways in India report provides information on:

- ❖ Sector Trends, Progress and Key Developments
- ❖ Pipeline of Upcoming, Under Bidding and Ongoing Projects
- ❖ Progress and Opportunities under Mega Programmes
- ❖ Insights across key segments - Rolling Stock, Tracks, S&T, etc
- ❖ Investment Requirements and Key Projections
- ❖ Market Opportunities for Industry Stakeholders

## 2. Master Dataset of 1,000+ projects:

- ❖ New Lines
- ❖ Gauge Conversion
- ❖ Doubling, Tripling and Quadrupling
- ❖ Dedicated Freight Corridor
- ❖ High-speed Rail Corridors
- ❖ Stations Redevelopment

## 3. India Rail Monitor provides continuously updated information on:

- ❖ News & Developments
- ❖ Project Updates
- ❖ Freight Traffic and Earnings
- ❖ Passenger Traffic and Earnings
- ❖ Key Efficiency Indicators
- ❖ Project Pipeline
- ❖ Mega Programmes
- ❖ Tenders

## 4. Monthly Progress Reports will include:

- ❖ Analysis of Traffic and Earnings
- ❖ Performance of Production Units
- ❖ Key Efficiency Indicators
- ❖ Upcoming Tenders

## 5. Weekly Newsletters will include summary updates on:

- ❖ Policy Announcements
- ❖ Government Initiatives
- ❖ Update on Key Programmes
- ❖ Key Financings

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Subscription fee (one year): Rs 120,000 plus GST

# PORTS IN INDIA 2024

The most comprehensive and up to date analysis of ports sector in India

India Infrastructure Research has released the updated edition of **Ports in India 2024** research report.

The PortPlus service has five key elements:-

- Ports in India 2024 report (updated every quarter)
- Master Dataset of 900+ projects (updated every quarter)
- India Ports Monitor ([indiaportsmonitor.com](http://indiaportsmonitor.com))
- 12 Monthly Progress Reports
- 52 Weekly Newsletters

## **Ports in India Research Report will provide information on:**

- ❖ Sector Progress, Trends, Outlook and Projections
- ❖ Project Pipeline Analysis
- ❖ Financing Trends and PPP Experience
- ❖ Progress and Opportunities Under Mega Projects
- ❖ Traffic, Capacity, Commodity Analysis and Key Indicators
- ❖ Inland Waterways, Coastal Shipping, Port Connectivity, Port Modernisation and Digitalisation
- ❖ Operational Port Profiles and Key Player Profiles

## **Master dataset of 900+ projects will provide information on:**

- ❖ Greenfield and Brownfield Projects
- ❖ Port Modernisation, Port Connectivity, Port led Industrialisation, Coastal, Shipping and IWT Projects
- ❖ Announced, Under Bidding, Awarded, Under Construction, Completed Projects
- ❖ EPC, PPP, DBFOT Projects

## **India Ports Monitor provides continuously updated information on:**

- ❖ Policy Updates
- ❖ Daily Project News, Daily Tenders
- ❖ Sector Analysis and Insights

## **Monthly progress reports will include:**

- ❖ Analysis of Traffic at Major Ports (Port-wise, Commodity-wise)
- ❖ Project Updates
- ❖ Update on Jal Marg Vikas Project
- ❖ Upcoming Tenders

## **Weekly newsletters will include summary updates on:**

- ❖ Policy Announcements, Government Initiatives
- ❖ Project Completions/Awards/Announcements
- ❖ Update on Key Programmes, Key Financings, Technology Initiatives

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Subscription fee (one year): Rs 120,000 plus GST

# WATER IN INDIA 2024

The most comprehensive and up to date analysis of water sector in India

India Infrastructure Research has released the updated edition of **Water in India 2024** research report.

The WaterPlus service has five key elements:

- Water in India 2024 report (updated every quarter)
- Master Dataset of 700+ projects (updated every quarter)
- India Water Monitor (indiawatermonitor.com)
- 12 Monthly Progress Reports
- 52 Weekly Newsletters

## 1. The Water in India Report provides information on:

- ❖ Sector Analysis , Opportunities and Outlook
- ❖ Desalination Market
- ❖ Municipal Segment: Current State, Outlook and Opportunities
- ❖ Wastewater Treatment and Reuse
- ❖ Industrial Segment: Current State, Outlook and Opportunities
- ❖ Database of Key Projects

## 2. Master dataset of 700+ projects provide information on:

- ❖ Desalination (includes municipal and industrial projects)
- ❖ Water Supply (includes municipal and industrial projects)
- ❖ Wastewater (includes STP, CETP, ETP projects)

## 3. India Water Monitor provides continuously updated information on:

- ❖ News and Developments
- ❖ Monthly Progress of the Sector
- ❖ Projects
- ❖ Tenders
- ❖ Finance

## 4. Monthly Progress Reports will include:

- ❖ Updates on Key Government Programmes
- ❖ Project Updates: Municipal, Industrial, Desalination
- ❖ City Level Water Management Initiatives
- ❖ Upcoming Tenders
- ❖ Government Plans and Initiatives
- ❖ Key Data and Statistics

## 5. Weekly Newsletters will include summary updates on:

- ❖ Policy Announcements
- ❖ Update on Key Programmes
- ❖ Government Initiatives
- ❖ Project Completions/Awards/Announcements
- ❖ Key Financings

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Subscription fee (one year): Rs 120,000 plus GST

# AIRPORTS IN INDIA 2024

The most comprehensive and up to date analysis of airports sector in India

India Infrastructure Research has released the updated edition of **Airports in India 2024** research report.

The AirportPlus service has four key elements:-

- Airports in India 2024 report (updated every quarter)
- Master Dataset of 200+ projects (updated every quarter)
- 12 Monthly Progress Reports
- 52 Weekly Newsletters

## 1. The Airports in India Report will provide information on:

- ❖ Sector Trends and Developments
- ❖ Financing and Investment Trends
- ❖ Technology Trends at Indian Airports
- ❖ Sustainable Airports
- ❖ Size and Growth of Airlines Industry
- ❖ Sector Projections and Market Opportunities
- ❖ Project Pipeline Analysis
- ❖ Operational and Financial Performance of Key Players
- ❖ Cargo Infrastructure Development
- ❖ Air Traffic Management: Communication, Navigation and Surveillance Maintenance, Repair and Overhaul
- ❖ Key Operational/Completed and Upcoming Airports
- ❖ Progress and Opportunities under Mega Greenfield Airports

## 2. Master Dataset of 200+ projects will provide information on:

- ❖ Project Pipeline of 200+ projects (airports and ancillary infrastructure)
- ❖ Traffic Trends
- ❖ RCS-UDAN routes
- ❖ Financial Deals
- ❖ Key Contracts and Tenders

## 3. Monthly Progress Reports will include:

- ❖ Key Developments
- ❖ Traffic Trends
- ❖ Bidding Updates
- ❖ Project Updates
- ❖ Key Data and Statistics

## 4. Weekly Newsletters will include summary updates on:

- ❖ Policy
- ❖ Airports
- ❖ Airlines
- ❖ Key Financings

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Subscription fee (one year): Rs 120,000 plus GST



# URBAN RAIL MARKET IN INDIA 2024

## Sector Growth, Emerging Trends, Opportunities and Outlook

The **Urban Rail Market in India** report is the most comprehensive and up to date analysis of urban rail sector in India. The subscription includes:

- Urban Rail Market in India 2023 research report
- Master dataset of 200+ project lines/stretchers
- 52 weekly newsletters

**The Urban Rail Market in India 2023 report covers the following:**

- ❖ Market Size, Network Growth and Projections
- ❖ Detailed Profiles of Completed and Upcoming Projects
- ❖ Recent Trends, Developments and Technology Innovations
- ❖ Emerging Modes of Transit and Key Focus Areas
- ❖ Market Opportunities for Developers/Investors, Consultants, and Technology Providers

**The Urban Rail Market in India 2023 report has three sections:**

### **SECTION I: MARKET GROWTH, PROJECTIONS, OUTLOOK AND OPPORTUNITIES**

- ❖ Market Size, Key Trends and Developments
- ❖ Analysis of Network, Ridership & Revenue (Past Five Years)
- ❖ Project Pipeline Assessment and Analysis
- ❖ Metrolite and Metrone
- ❖ Investment and Financing Trends
- ❖ Market Opportunities, Future Outlook and Key Projections
- ❖ New and Emerging Focus Areas

### **SECTION II: SEGMENT ANALYSIS: TRENDS, INNOVATIONS, OUTLOOK AND OPPORTUNITIES ROLLING STOCK**

- ❖ Signaling, Train Control and Telecommunications
- ❖ Fare Collection and Next-Gen Ticketing Systems
- ❖ Construction: Elevated and AT-Grade Structures
- ❖ Construction: Metro Tunnels
- ❖ Traction and E&M
- ❖ Station Infrastructure and Key Components

### **SECTION III: PROJECT FOCUS: DETAILED COVERAGE OF MORE THAN 60 METRO RAIL PROJECTS**

- ❖ Operational and Under Construction Projects
- ❖ Upcoming Projects (Announced, Approved and Under Bidding Projects)

*\*The 2024 edition will be launched in February 2024.*

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Subscription fee (one year): Rs 90,000 plus GST

# TUNNELING IN INDIA 2023

## Sector Trends, Capacity Addition and Investment Opportunities

The **Tunneling in India** report is the most comprehensive and up to date analysis of tunneling sector in India. The subscription includes:

- Tunneling in India 2023 report
- Master dataset of 450+ projects

### **The Tunneling in India 2023 report will provide information on:**

- ❖ Market Overview and Key Trends
- ❖ Project Pipeline Analysis
- ❖ Future Outlook and Opportunities
- ❖ Metro Rail Tunnels Market Size and Upcoming Opportunities
- ❖ Roads and Highways Market Size and Upcoming Opportunities
- ❖ Railway Tunnels Market Size and Upcoming Opportunities
- ❖ Hydro Tunnels Market Size and Upcoming Opportunities
- ❖ Irrigation, Water Supply and Sewerage Tunnels Market Size and Upcoming Opportunities
- ❖ Underground Caverns Market Size and Upcoming Opportunities
- ❖ TBM Market Size and Future Outlook
- ❖ NATM Market Size and Future Outlook
- ❖ DBM Market Size and Future Outlook
- ❖ Micro-tunneling Market Size and Future Outlook
- ❖ Equipment Market Size and Projections
- ❖ Tunnel Safety and MEP Systems

### **Master Dataset of 450+ projects will provide information on:**

- ❖ Sector, State
- ❖ No. of Tunnels, Length, Cost
- ❖ Diameter and Shape of Tunnel
- ❖ Current and Detailed Status
- ❖ Implementing Agency
- ❖ Tunnel Contractor
- ❖ Consultant
- ❖ Expected Date of completion
- ❖ Equipment Supplier
- ❖ Etc.

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Subscription fee: Rs 100,000 plus GST

# LOGISTICS IN INDIA 2023

## Trends, Drivers, Outlook and Projections

India Infrastructure Research has released the 10th edition of the “Logistics in India 2023” Report. This report provides the most comprehensive and insightful analysis of the logistics landscape in India.

### The Logistics in India 2023 Annual Subscription includes:

- Logistics in India research report
- 11 monthly updates weekly newsletters

### SECTION I: MARKET GROWTH, KEY TRENDS AND OPPORTUNITIES

- ❖ Sector Overview: Trends and Developments
- ❖ Investment Trends and Opportunities
- ❖ Key Projections (2023-24 to 2027-28)
- ❖ Future Outlook and Market Opportunities
- ❖ Technology and Automation: Trends and Requirements

### SECTION II: FREIGHT MOVEMENT: KEY TRENDS, INITIATIVES AND TRAFFIC PROJECTIONS

- ❖ Railways
- ❖ Roads
- ❖ Ports, Coastal Shipping and IWT
- ❖ Air Cargo

### SECTION III: WAREHOUSING AND STORAGE: MARKET SIZE, DEVELOPMENTS AND OPPORTUNITIES

- ❖ Agricultural Warehousing
- ❖ Industrial Warehousing
- ❖ Silo Storage
- ❖ Liquid and Gas Storage
- ❖ Cold Chain, Cold Storage and Reefer Containers

### SECTION IV: LOGISTICS INFRASTRUCTURE: GROWTH, PLANS AND OUTLOOK

- ❖ Container Freight Stations (CFSs)/ Inland Container Depots (ICDs)
- ❖ Logistics Parks/Multi-modal Logistics Parks
- ❖ Free Trade Warehousing Zones
- ❖ Container Market

### SECTION V: SUPPLY CHAIN MANAGEMENT: MARKET SIZE, INITIATIVES AND PROJECTIONS

- ❖ 3PL, 4PL and Reverse Logistics
- ❖ Express Logistics
- ❖ Freight Forwarding

### SECTION VI: DEMAND FROM USER INDUSTRIES

Key End User Industries – Food Processing, Healthcare, Pharmaceutical, Automobiles, E-commerce, Electronics, Chemicals, Textiles, Engineering Goods, Brick and Mortar Retail, Cement and Steel. Each of the industries will include size and growth, trends and developments, logistics and warehousing needs and requirements, and industry outlook.

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Subscription fee (one year): Rs 90,000 plus GST

# POWER GENERATION IN INDIA 2024

## Sector Analysis, Recent Developments, Trends and Outlook

The **Power Generation in India** report is the most comprehensive and up to date analysis of power generation sector in India.

The subscription includes:

- Power Generation in India 2024 report (updated every quarter)
- Excel dataset (updated every quarter)

### 1. Overview

- ❖ Market Size and Growth
- ❖ Peak and Energy Demand Trends
- ❖ Growth in All-India Installed Capacity
- ❖ Annual Capacity Addition
- ❖ Changes in Generation mix
- ❖ Trend in Energy Generation
- ❖ Trends in Captive Power-Generation
- ❖ Issues and Challenges
- ❖ Emerging Trends
- ❖ Capacity Projections and Outlook

### 2. Policy and Regulatory Developments

- ❖ Recent policy developments
- ❖ Recent regulatory developments
- ❖ Emerging developments

### 3. Coal

- ❖ Overview
- ❖ Trend in Capacity Additions
- ❖ Trends in Capacity Decommissioned
- ❖ Trends in Coal-based Generation
- ❖ PLF trends
- ❖ Fuel Supply Scenario
- ❖ Key Players
- ❖ Recent Developments impacting Coal-based Power
- ❖ Updates on Emission Norms Progress
- ❖ Costs and Tariffs
- ❖ Challenges
- ❖ Capacity Addition Projections and Forecast

### 4. Renewable Energy

- ❖ Overview
- ❖ Trend in Capacity Additions
- ❖ Trends in Renewable Power Generation
- ❖ Technology-wise Market Size and Growth
- ❖ Key Players

- ❖ Recent Developments
- ❖ Trends in Tariffs
- ❖ Emerging Technologies
- ❖ Challenges
- ❖ Capacity Addition Projections and Forecast

### 5. Gas, Diesel & Other Liquid Fuels

- ❖ Overview
- ❖ Trend in Capacity Additions/ Decommissioned
- ❖ Trends in Generation
- ❖ PLF trends
- ❖ Fuel Supply Scenario
- ❖ Key Players
- ❖ Recent Developments
- ❖ Costs and Tariffs
- ❖ Challenges
- ❖ Capacity Addition Projections and Forecast (2022-23 to 2027-

28)

### 6. Nuclear Power

- ❖ Overview
- ❖ Trends in Capacity Additions
- ❖ Trends in Generation
- ❖ Operating Performance
- ❖ Fuel Supply Scenario
- ❖ Key Players
- ❖ Recent Developments impacting Nuclear-Power
- ❖ Costs and Tariffs
- ❖ Challenges
- ❖ Capacity Addition Projections and Forecast

### 7. Investment Outlook and Projections

- ❖ Growth Drivers
- ❖ Projected Capacity Additions
- ❖ Investment Projections by Segment
- ❖ Issues and Challenges

**Data set (excel)** - Projects in operation or construction or development

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**Subscription fee (one year): Rs 90,000 plus GST**

# POWER TRANSMISSION IN INDIA 2024

## Sector Analysis, Recent Developments, Trends and Outlook

The **Power Transmission in India** report is the most comprehensive and up to date analysis of power transmission sector in India.

The subscription includes:

- Power Transmission in India 2024 report (updated every quarter)
- Excel dataset (updated every quarter)

### 1. Segment Size and Growth

- ❖ Growth in Transmission Line Length
- ❖ Growth in Transmission Transformer Capacity
- ❖ Trends in Substation Additions
- ❖ Growth in Interregional Transfer Capacity
- ❖ Cross-border Power Transfer Capacity
- ❖ System Availability and Reliability

### 2. Key Policy and Regulatory Developments

- ❖ CERC (Indian Electricity Grid Code) Regulations, 2023
- ❖ CERC (DSM and Related Matters) Regulations, 2022
- ❖ Introduction of TRAS Market Segment on all Power Exchanges
- ❖ Grid India's Detailed Procedure for TRAS
- ❖ Connectivity and GNA to the ISTS (First Amendment) Regulations, 2023
- ❖ ISTS waiver for renewable energy projects
- ❖ Draft CERC (Sharing of Inter-State Transmission Charges and Losses) (Second Amendment) Regulations, 2023
- ❖ Draft CERC (Sharing of Inter-State Transmission Charges and Losses) (Third Amendment) Regulations, 2023
- ❖ Approach Paper on Terms and Conditions of Tariff Regulations
- ❖ Amendment in the SBDs - inclusion of provisions of aggregate capital cost w.r.t. HVDC systems
- ❖ CEA's O&M guidelines and standard format for MoU between new and existing TSP
- ❖ Draft Electricity (Amendment) Rules, 2023
- ❖ CEA's draft paper on reconductoring of transmission lines in ISTS
- ❖ Other developments

### 3. Recent Developments

- ❖ Key Commissioned Projects in last 12 months
- ❖ Projects Awarded in last 12 months
- ❖ Key M&A Transactions
- ❖ InvITs-related developments
- ❖ Recent Financings

### 4. TBCB Update

- ❖ Private Participation Trends at Interstate and Intrastate level
- ❖ Trends in Tariffs Discovered
- ❖ Projects Under Construction
- ❖ Projects identified for Bidding
- ❖ Future Project Pipeline

### 5. Transmission System Development for evacuation of 500 GW of RE

- ❖ Overview of RE in India
- ❖ CEA's Plan for Integration of 537 GW RE capacity by 2030
- ❖ Proposed transmission system development for ISTS-connected RE capacity
- ❖ Investment Requirements
- ❖ Planned transmission system for 66.5 GW ISTS connected RE capacity
- ❖ Transmission system for 55.08 GW ISTS connected RE capacity
- ❖ Transmission system for 181.5 GW ISTS connected RE capacity
- ❖ Green Energy Corridors I and II
- ❖ Transmission systems for additional hydro power projects by 2030
- ❖ Off-shore Wind Power Transmission
- ❖ Additional Inter-regional and HVDC corridors
- ❖ Outlook

### 6. Project Pipeline and Investment Outlook

- ❖ Projected Line Length
- ❖ Projected Transformer Capacity
- ❖ Projected Substation Additions
- ❖ Projected Investments (till 2027-28)
- ❖ Project Pipeline (under construction, under bidding, Announced projects etc.)

### 7. STU Network & Operational performance

- ❖ Growth in Intrastate line length
- ❖ Growth in Intrastate transformer capacity
- ❖ Growth in Number of Substations
- ❖ Transmission Loss Performance
- ❖ System Availability Performance

### 8. STU Financial Performance in Last 5 years

- ❖ Revenues
- ❖ Expenditure
- ❖ O&M Costs
- ❖ Net Profit/Loss
- ❖ Capex
- ❖ Transmission Charges and Tariffs
- ❖ Return on Equity

### 9. Future Outlook and Capex Plans

- ❖ Network Addition Plans
- ❖ Projected Capex by Powergrid& STUs
- ❖ Planned Cross-border Regional Interconnections
- ❖ Outlook for Private Participation

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Subscription fee (one year): Rs 90,000 plus GST

# POWER DISTRIBUTION IN INDIA 2024

## Sector Analysis, Recent Developments, Trends and Outlook

The **Power Distribution in India** report is the most comprehensive and up to date analysis of power distribution sector in India.

The subscription includes:

- Power Distribution in India 2024 report (updated every quarter)
- Excel dataset (updated every quarter)

### 1. Segment Size and Growth

- ❖ Overview
- ❖ Power demand and supply trends
- ❖ Network Size and Growth
- ❖ Energy Sales
- ❖ Smart Metering Deployments
- ❖ Prepaid Metering Deployments
- ❖ Challenges and Outlook

### 2. Recent Developments

- ❖ Key Policy & Regulatory developments
  - Electricity (Rights of Consumers) Amendment Rules, 2023
  - Directions to SLDCs under IEGC regulations in special circumstances
  - Expert Panel Report on Development of Electricity Market in India
  - Guidelines for Resource Adequacy Planning
  - Guidelines for Medium and Long-term Power Demand Forecast
  - Electricity (Second Amendment) Rules, 2023
  - Revision in methodology for calculation of AT&C losses
  - Public procurement purchase preference order
- ❖ PPA-related developments
- ❖ Open access
  - Green Energy Open Access Rules, 2023 (Second Amendment)
  - Determination of green tariffs and Compliance with Green Energy Open Access Regulations
- ❖ Discom Privatisation updates

### 3. Update on RDSS

- ❖ Overview
- ❖ Targets and Achievements till date
- ❖ Funds sanctioned/ disbursed
- ❖ Contracts Awarded
- ❖ Expected Impact
- ❖ Issues and Concerns

### 4. Outlook and Key Projections

- ❖ Network Projections
- ❖ Smart metering projections
- ❖ Outlook on Tariffs and Costs
- ❖ Investment Projections

### 5. Inter-discom Performance

- ❖ Consumer Base
- ❖ Energy Sales
- ❖ Line Length
- ❖ Transformer Capacity
- ❖ Smart metering status
- ❖ Discom-wise Hours of Supply
- ❖ DT failure rate

### 6. Operational and Financial Performance

- ❖ Recent discom Operational performance
  - AT&C Losses
  - Billing efficiency
  - Collection efficiency
  - SAIFI and SAIDI
- ❖ Recent discom financial performance
  - Total revenues
  - Net Profits/ Losses
  - ACS-ARR Gap
  - Overdues
  - Total expenditure

### 7. Trends in Power Procurement

- ❖ Short-term power trading market scenario
- ❖ Power procurement from exchanges
- ❖ Procurement trends from DEEP e-auctions
- ❖ Recent developments impacting power trading market
- ❖ Challenges and Outlook

### 8. Capital Expenditure

- ❖ Capex Trends
- ❖ Key Capex Components
- ❖ Planned Capex
- ❖ Proposed Capex Break-up of key discoms

### 9. Costs and Tariffs

- ❖ Power Purchase Costs
- ❖ Source-wise Power Purchase Costs
- ❖ O&M Costs
- ❖ Category-wise tariff trends
- ❖ Cross-subsidies trends

Data set (excel)

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Subscription fee (one year): Rs 90,000 plus GST

# RENEWABLE ENERGY IN INDIA 2024

## Policies, Trends, and Outlook

The **Renewable Energy in India** report is the most comprehensive and up to date analysis of renewable energy sector in India.

The subscription includes:

- Renewable Energy in India 2024 report (updated every quarter)
- Excel dataset (updated every quarter)

### Brief Summary and Insights

#### 1. State of the Sector

- ❖ Market Size and Growth
- ❖ Segment-Wise Growth Trends
- ❖ Share in Capacity Mix
- ❖ Share in Generation Mix
- ❖ Energy Generation Trends
- ❖ State-Wise Deployments Renewable
- ❖ Energy Trading
- ❖ Growth Drivers

#### 2. Policy and Regulatory Highlights

- ❖ Central Level
- ❖ State Level

#### 3. Tender Results and Project Announcements

- ❖ Solar Power
  - Ground-Mounted Solar
  - Rooftop Solar
  - Floating Solar
- ❖ Wind Power
- ❖ Solar-Wind Hybrids and Round-the-Clock Power

#### 4. Recent Developments in Emerging Areas

- ❖ Offshore Wind
  - Offshore Wind Growth Timeline
  - Offshore Wind Bidding Trajectory

#### ❖ Energy Storage

- Recent Projects and Auction Results
- Government Focus and Policies

#### ❖ Green Hydrogen

- Green Hydrogen Policy
- National Green Hydrogen Mission
- State Level Policies
- PSU and Private Sector Projects

#### 5. Financial Highlights

- ❖ Current Funding Sources
- ❖ Mergers & Acquisitions and Equity Deals
- ❖ Debt Financing
- ❖ Green Bonds
- ❖ IPOs

#### 6. Cost and Tariff Analysis

- ❖ Equipment Price Trends: Solar
- ❖ Equipment Price Trends: Wind
- ❖ Impact on Project Costs
- ❖ Recent Tariff Trends
- ❖ Tariff Outlook

#### 7. Challenges and Outlook

- ❖ Key Challenges and Solutions
- ❖ Capacity Projections
  - Short-Term Outlook (till 2032)
  - Long-Term Outlook (2032 and beyond)
- ❖ Investment Outlook

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Subscription fee (one year): Rs 90,000 plus GST

# GREEN HYDROGEN IN INDIA 2023

## Policies, Projects, and Outlook

The **Green Hydrogen in India** report is the most a comprehensive and up-to-date analysis of green hydrogen sector in India.

The subscription includes:

- Green Hydrogen in India 2023 report
- Excel dataset

### Summary and Key Insights

#### 1. Market Size and Growth Drivers

- ❖ Market Overview
- ❖ Hydrogen Demand and Supply Outlook
- ❖ Growth Potential
- ❖ Key Trends
- ❖ Key Areas of Application
- ❖ Potential Business Models
- ❖ Key Growth Drivers

#### 2. Policy and Regulatory Developments and Outlook

- ❖ Green Hydrogen Policy
- ❖ National Green Hydrogen Mission
- ❖ Incentive Scheme for Electrolyser Manufacturing
- ❖ Incentive Scheme for Green Hydrogen Production
- ❖ ISTS Waiver for Green Hydrogen Projects
- ❖ Other Central Level Policy Initiatives
- ❖ State Level Policies and Initiatives
- ❖ Key Alliances and Collaborations
- ❖ Issues and Concerns
- ❖ Policy and Regulatory Outlook

#### 3. Major Players

- ❖ Plans of Key Players
  - Renewable Energy Developers
  - Oil and Gas Companies
  - Automobile Companies
  - Industries
- ❖ Recent Tenders

#### 4. Projects and Case Studies

*This chapter will present 6 case studies of operational green hydrogen projects in India*

#### 5. Technology Trends

- ❖ Current Hydrogen Manufacturing Capacity
- ❖ Domestic Manufacturing Plans and Upcoming Projects
- ❖ Types of Electrolysers
- ❖ Focus on Fuel Cells
- ❖ Storage and Transportation
- ❖ Applicable Standards

#### 6. Cost of Production and Investments

- ❖ Cost of Green Hydrogen Production
- ❖ Key Factors Impacting Cost
- ❖ Emerging Financing Options
- ❖ Cost and Investment Outlook

#### 7. Future Outlook and Projections (Till 2070)

- ❖ Capacity Based on Project Pipeline
- ❖ Capacity Outlook
- ❖ Required Renewable Energy Capacity
- ❖ Key Issues and Challenges

#### 8. Industry Insights

*This will feature perspective of 11 leading developers and policy makers.*

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Subscription fee: Rs 80,000 plus GST



# CITY GAS DISTRIBUTION IN INDIA 2023

## Market Trends, Network Growth and Expansion, and Upcoming Opportunities

India Infrastructure Research has released the 10th edition of “City Gas Distribution in India 2023” research report. The City Gas Distribution in India report is the most comprehensive and up to date analysis of city gas distribution sector in India.

The report has three key elements:

- City Gas Distribution in India 2023 report
- Excel Dataset
- 52 Weekly Newsletters

1. **The City Gas Distribution in India 2023 report includes:**

- ❖ Sector Growth and Key Trends
- ❖ CNG Network: Size and Growth
- ❖ PNG Network: Size and Growth
- ❖ Future Outlook and Opportunities
- ❖ Cost Economics and Competitiveness of CGD Networks
- ❖ Domestic Gas and R-LNG Supply Scenario
- ❖ Update on Gas Pipeline Infrastructure
- ❖ Evolving Digitalisation Landscape
- ❖ Current Metering Practices
- ❖ Detailed Profiles of 24+ Players

2. **Excel Dataset includes:**

- ❖ Snapshot of Licensing Rounds (1-11)
- ❖ CNG Stations Operational
- ❖ PNG Connections Provided
- ❖ Steel and MDPE Pipeline Laid
- ❖ Gas Sales in the Last Three Years
- ❖ Current Gas Requirements and Supply Sources

3. **Weekly Newsletter will be emailed every Thursday and covers:**

- ❖ Policy Initiatives
- ❖ Regulatory Updates
- ❖ Industry Developments
- ❖ Company News and Plans

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Subscription fee: Rs 100,000 plus GST

# PUMPED STORAGE PROJECTS IN INDIA 2023

## Potential, Projects, and Outlook

**Power Line Research** has released its latest report on **Pumped Storage Projects in India 2023**, which comes with a comprehensive project database.

The report has two key elements:

- Annual Research Report
- Excel Dataset

### 1. Summary and Key Insights

### 2. Potential and Key Trends

- ❖ Overview
- ❖ Estimated Potential
- ❖ Identified Sites for PSPs
- ❖ Installed Capacity and Projects
- ❖ Growth Drivers
- ❖ Comparison with Other Storage Systems

### 3. Policy and Regulatory Environment

- ❖ PSP Guidelines
- ❖ Guidelines for formulation of Detailed Project Reports
- ❖ ISTS Waiver for Pumped Storage Projects
- ❖ Financial Incentives
- ❖ Other Central Level Policies
- ❖ State-Level Developments

### 4. Projects and Players

- ❖ Recent Auctions and Tender Announcements
- ❖ Key Upcoming Projects
- ❖ Key Players
- ❖ Interviews and Insights

### 5. Integrated Renewable Energy Storage Projects

- ❖ Key Benefits Envisaged
- ❖ Likely Business Models
- ❖ Case Study
- ❖ Cost Considerations and Viability

### 6. Projections and Outlook

- ❖ Project Pipeline
- ❖ Capacity Projections
- ❖ Investment Projections
- ❖ Key Issues and Challenges
- ❖ The Way Forward

*This report will have a comprehensive PSP dataset with announced and under-implementation projects. Some parameters covered here will include project developer, location, capacity, and status of the project.*

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Subscription fee: Rs 75,000 plus GST

# FLOATING SOLAR PROJECTS IN INDIA 2023

## Trends, Projects, and Outlook

**Power Line Research** has released its latest report on **Floating Solar Projects in India 2023**, which comes with a comprehensive project database.

The report has two key elements:

- Annual Research Report
- Excel Dataset

### 1. Potential and Growth Drivers

- ❖ Global Overview
- ❖ Global Growth Trends
- ❖ Potential in India
- ❖ Growth Drivers

❖ Leading players in floating solar space

- Developers
- Contractors
- Floating platform technology suppliers

### 2. Technology, Design and O&M

- ❖ Technology Overview
- ❖ Floating Solar Platforms
- ❖ Key Design Considerations
- ❖ O&M Considerations

### 5. Case Studies

- ❖ 600 MW floating solar plant at Omkareshwar dam, Madhya Pradesh
- ❖ 100 MW floating solar project at Ramagundam, Telangana
- ❖ 10.765 MWp floating solar project at Tata Steel, Jamshedpur, Jharkhand

### 3. Cost Considerations

- ❖ Typical Cost Components of Floating PV in India
- ❖ Financial Performance of FPV Projects
- ❖ Recent Project Costs and Tariff Trends

### 6. Project Pipeline and Outlook

- ❖ Status of Projects in India
- ❖ Key Challenges and Way Forward

### 4. Key Players and Projects

- ❖ Recent tender announcements
- ❖ Recent auctions

*This report will have a comprehensive floating solar dataset with commissioned, announced and under-implementation projects. Some parameters covered here will include project proponents, location, capacity, and status of the project.*

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Subscription fee: Rs 75,000 plus GST

# DATA CENTRE MARKET IN INDIA 2023

## Market Overview and Future Projections

tele.net has released the report on **Data Centre Market in India 2023**.

### SECTION I: MARKET OVERVIEW, DEMAND DRIVERS, AND GROWTH PROJECTIONS

#### 1. Key Trends and Developments

- ❖ Current Size and Key Growth Drivers
- ❖ Emerging Trends and their Impact
- ❖ Market Composition and Industry Landscape
- ❖ New and Emerging Business Models
- ❖ Adoption Trends by Key User Industries
- ❖ Future Outlook

#### 2. Market Segmentation

- ❖ Market Classification
- ❖ Hyperscale Data Centres and Edge Data Centres
- ❖ Emergence of Data Centre Parks
- ❖ Upcoming Data Centre Hotspots

#### 3. Policy and Regulatory Scenario

- ❖ Draft National Data Centre Policy
- ❖ TRAI Recommendations on Regulating Data Centres
- ❖ Role of National Informatics Centre
- ❖ Data Privacy and Security Initiatives by CERT-IN
- ❖ Policy Gaps and Industry Expectations

#### 4. State Initiatives

- ❖ Current Policy Framework
- ❖ Key Incentives Offered
- ❖ State Data Centres
- ❖ Current and Upcoming Projects

#### 5. Investment Landscape

- ❖ Factors Driving Investments
- ❖ Key Investors and Trends in Investment Inflows
- ❖ Key Risks and Return on Investment
- ❖ Future Investment Scenario and Industry Commitments

#### 6. Demand Projections and Outlook

- ❖ Projected Capacity Addition (till 2028)
- ❖ Region-wise Projections
- ❖ Player-wise Projections
- ❖ Demand from Key End User Industries
- ❖ Investment Projections
- ❖ Market Opportunities for Stakeholders

### SECTION II: FOCUS ON DESIGN, CONSTRUCTION AND ENERGY MANAGEMENT

#### 7. Design and Construction of Data Centres

- ❖ Factors Influencing Design
- ❖ Cost Split for Data Centre Development
- ❖ Current Practices and Industry Experience
- ❖ Focus on Sustainable Design and Construction

#### 8. Energy Management and Optimisation

- ❖ Current Trends in Energy Usage
- ❖ Key Technology Solutions in Use
- ❖ Battery Storage Requirements
- ❖ Adoption of Renewable Energy
- ❖ Industry Initiatives and Net Zero Targets

#### 9. Green Data Centres

- ❖ Factors Driving Sustainability
- ❖ Energy Efficient Solutions in Use
- ❖ Components Determining Sustainability (PUE, WUE, CUE)
- ❖ Progress so Far

### SECTION III: MARKET OVERVIEW, DEMAND DRIVERS, AND GROWTH PROJECTIONS

#### 10. Key Players

- ❖ Profiles of Major Players: Current Capacity and Future Plans

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Subscription fee: Rs 80,000 plus GST

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