Catalogue of Research Reports on Infrastructure Sectors

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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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- AT&C Losses and Targets
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# 2. OVERALL TRENDS IN KEY OPERATIONAL PARAMETERS
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# 3. OVERALL TRENDS IN KEY FINANCIAL PARAMETERS
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- Recent Developments Impacting Tariffs
- Trends in Cross-subsidy Surcharges

The report will be available in a PDF format.
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1. CURRENT STATE OF THE SECTOR
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   - State-wise Installed Solar Capacity
   - Solar Power Generation Trends
   - Emerging Energy Mix
   - Growth Drivers
   - New Industry Landscape
   - Solar RPO Targets and Achievements
   - Annual Capacity Addition Targets
   - Key Issues and Concerns

2. RECENT DEVELOPMENTS
   - Impact of COVID-19; Provisions under Budget 2020; PPA Crisis ;
     Regulations Developments; Competitive bidding guidelines;
     Safeguard Duties; Development-linked Manufacturing; Market
     Consolidation; GST; Changing Technology Mix; Tariffs Determined in
     Recent Auctions Policy and Regulatory Outlook

3. STATE-WISE ANALYSIS
   - Andhra Pradesh; Gujarat; Haryana; Karnataka; Maharashtra; Madhya
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    - Project Development Models: Solar Parks; Individual Set-ups
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11. COMMERCIAL AND INDUSTRIAL PV
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    - Capacity Trends
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12. RESIDENTIAL PV
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13. SOLAR PLUS STORAGE
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    - Benefits
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    - State Level Developments
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    - Future Outlook

14. SOLAR OPEN ACCESS MARKET
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    - Impact of COVID-19 on Project Pipeline
    - Total Capacity Requirement Projections
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16. INVESTMENT AND IRR PROJECTIONS
    - Tariff Projections
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    - Utility-scale
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    - Investment Projections
    - Financing Requirements

The report is available in a PDF format.
EXECUTIVE SUMMARY

SECTION I: MARKET INSIGHTS, DEVELOPMENTS, FUTURE OUTLOOK AND OPPORTUNITIES

1. SMALL-SCALE LNG MARKET OVERVIEW
   - Growth Drivers; SSLNG Value Chain; Existing Facilities; Notable Trends; Demand from Key Gas Consumers Segments (CGD, off-grid power; and industrial consumers); Mode of Supply (Truck, Rail, Ship); Major Players/Industry Structure and Stakeholders; Recent Developments; Investment Outlook; Issues and Challenges

2. REGULATORY LANDSCAPE FOR SSLNG
   - Current Regulatory Regime; Key Regulatory Authorities (PESO, PNGRB, OISD, etc.); Technical and Safety Standards; Issues and Challenges; Regulatory Outlook

3. FUTURE POTENTIAL AND MARKET OPPORTUNITIES
   - Key Upcoming Facilities; Demand Outlook; Investment Outlook; Regulatory Outlook; Market Opportunities

4. COST ECONOMICS & VIABILITY
   - Commercial Viability and Business Models; Capex Requirements; Opex Requirements; Cost Competitiveness vis-à-vis Other Fuels; Cost Competitiveness vis-à-vis Pipeline Transportation

5. POTENTIAL DEMAND FROM KEY GAS CONSUMERS
   - Growth in Gas Demand in the Past Five Years; Sourcing Options; Demand-Supply Gap; Pipeline Connectivity; Gas Costs and Tariffs; Potential Demand for SSLNG; Upcoming Plans and Projects; Issues and Challenges

6. GLOBAL EXPERIENCE & CASE STUDIES
   - Global SSLNG Market Size & Growth; Trends and Advancements; Select Case Studies (Infrastructure & Capacity, Key Consumers, Mode of Supply, Pricing, etc.); Key Lessons and Takeaways

SECTION II: LNG MARKET TRENDS, SUPPLY OUTLOOK & INFRASTRUCTURE

7. LNG MARKET TRENDS AND OUTLOOK
   - Gas Demand Supply Scenario; LNG Import Trends; Sourcing Options; Long-term Contracts; Supply Outlook; Projected LNG Demand

8. PRICING TRENDS AND FORECASTS
   - Global LNG Pricing Trends; Spot LNG Price Analysis; Long-term Contract Pricing; LNG Price Forecasts

9. EXISTING LNG TERMINALS
   - Existing Capacity; Utilisation Levels; Pipeline Connectivity; Key Players; Future Expansion Plans

10. PLANNED LNG TERMINALS AND CAPACITIES
    - Under Construction LNG Terminals, FSRUs and Storage Tanks (Mundra LNG Terminal, Jaigarh LNG Terminal, Chhara LNG Terminal, Dhamra LNG Terminal, Jafarabad LNG Terminal); Proposed/Announced LNG Terminals, FSRUs and Storage Tanks (Kakinada LNG Terminal, Krishnapatnam LNG Terminal, Karaikal LNG Terminal, Kukrahati LNG Terminal, Haldia Dock Complex LNG Terminal)

    Each terminal’s profile will cover project scope, capacity, investment, pipeline connectivity, developer, current status, expected completion timelines, etc.

SECTION III: STORAGE, TRANSPORTATION & DISTRIBUTION OF SSLNG

11. LNG TRUCK LOADING FACILITY
    - Existing Infrastructure/Noteworthy Projects; Capex and Opex Requirements; New Trends and Advancements; Key Upcoming Projects; Investment Requirements; Key Issues and Challenges

12. STORAGE CAPACITY AND FACILITIES
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    - Upcoming Capacity
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    - Issues and Challenges

13. LNG SATELLITE STATIONS
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    - Key Upcoming Projects
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14. L-CNG STATIONS
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    - Capex and Opex Requirements
    - New Trends and Advancements
    - Key Upcoming Projects
    - Investment Requirements
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The report is available in a PDF format.
SECTION A: SOLAR PROJECTS MARKET OVERVIEW

1. SOLAR PROJECT MARKET ANALYSIS
   - Biggest Solar Projects of 2019 (completed and awarded)
   - Project Analysis (completed projects)
     ● By Country and Region
     ● By Segment (utility-scale, rooftop, microgrids, etc.)
     ● By Year (2015-19)
     ● By Technology
     - Top Players in the Market

2. SOLAR PROJECT COST TRENDS
   - Country-wise Solar Tariffs
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     ● Rooftop
   - Yearly Trends (2015-19)
   - Cost-comparison by Technology

3. EMERGING POLICY AND REGULATORY REGIME
   - Country-wise Policy Analysis
   - Project Allocation Mechanisms
   - Country-wise Regulatory Analysis
   - Financial Incentives

4. CAPACITY OUTLOOK AND PROJECTIONS (2020-24)
   - Future Growth Drivers
   - Mega Projects Under Construction
   - Upcoming and Planned Tenders
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   - Future Solar Project Market Analysis (MW)
     ● By Country and Region
     ● By Segment (utility-scale, rooftop, microgrids, etc.)
     ● By Year
     ● By Technology

5. PROJECT PIPELINE AND MARKET OPPORTUNITIES
   - Overall Project Pipeline
     ● By Country
     ● By Type (utility-scale, Rooftop, etc.)
     ● By Technology (PV/ CSP)
     ● By Stage of Implementation (recently awarded/approved/announced)
   - Top 50 Upcoming Projects
   - Market Opportunities
     ● Developers
     ● Contractors
     ● Financiers/Long-term Investors
     ● Technology and Equipment Providers
     ● Other Stakeholders
   - Future Outlook

6. INVESTMENT RISKS AND REQUIREMENTS (2020-24)
   - Past Investment Trends
   - Key Investment Risks
   - Future Investment Requirements

SECTION B: COUNTRY PROFILES
This section will have chapters pertaining to the solar power project pipeline, investment requirements and capacity outlook for 25-30 African countries like Algeria, Angola, Botswana, Cameroon, Democratic Republic of the Congo, Egypt, Ethiopia, Ghana, Guinea, Kenya, Libya, Madagascar, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Seychelles, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Tunisia, Uganda, Zambia and Zimbabwe. Each country profile chapter will provide information on:
- Solar Power Potential
- Growth of Solar Power Capacity
- Key Growth Drivers
- Evolving Policy and Regulatory Scenario
- Project Allocation Mechanisms (FiT, competitive bidding, government schemes, etc.)
- Key Projects Awarded Recently
- Upcoming Tenders and Projects
- Cost and Tariff Trends
- Key Developers and Plans
- Contractor Landscape
- Risks and Challenges
- Future Capacity Targets and Demand Outlook
- Investment Requirements

The report is available in a PDF format.
EXECUTIVE SUMMARY

SECTION I: MARKET TRENDS AND DEVELOPMENTS

1. SECTOR SIZE AND GROWTH

2. RECENT DEVELOPMENTS
   - Key Commissioned Projects, TBCB Projects Secured in the Past Year, M&A Deals in the Operator, EPC and Supplier Space, Changing Dynamics in Transmission Segment, Key Loans and Financing Deals, Update on Smart Grid Projects, Technology Advancements, Grid Integration with Neighboring Countries, Telecom Opportunities for Transmission Operators, Status of India’s First Offshore Wind and Grid Integration Project, COVID-19 Impact on System Operations, Others

3. POLICY AND REGULATORY INITIATIVES
   - Draft Indian Electricity Grid Code, Reconstitution of National Committee on Transmission, Early Regulatory Approval to Transmission Schemes, National Open Access Registry, CERC Tariff Regulations for 2019-24, CERC Order on AGC Implementation, CERC’s DSM (Fifth Amendment) Regulations, CERC’s Power System Development Fund Regulations, CERC’s Sharing of Inter-State Transmission Charges and Losses Regulations, CERC’s (Sharing of Revenue Derived from Utilisation of Transmission Assets for Other business) Regulations, SAMAST Implementation, Draft Competitive Bidding Guidelines, Draft Guidelines on Availability of Spares and Inventories for Power Transmission System, EV Charging Infrastructure-related Policy Updates

4. NETWORK GROWTH AND INVESTMENTS
   - Growth Drivers, Projected Line Length, Projected Transformer Capacity, Projected Substation Additions, Expansion in Interregional Transfer Capacity, Investment Projections, TBCB Opportunities, Issues and Concerns

5. PROJECT PIPELINE
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   - Intra-state Projects: Line Length, Transformer Capacity

6. FORECASTED EQUIPMENT DEMAND (TILL 2024-25)
   - Technology Trends, Projected Requirements, Conductors, Towers, Transformers, Switchgear, Reactive Power Equipment

7. PRIVATE SECTOR EXPERIENCE
   - Private Participation Experience So Far, TBCB Update, Status of TBCB Projects, Analysis of Recent Bids, Projects Under Bidding, New Projects Identified for Bidding, Projects Developed under JVs, New and Emerging Players, Financing Models for Project Development and Operation, Update on InViTis, Issues and Concerns

8. ANALYSIS OF TRANSMISSION TARIFFS
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9. GROWTH IN NETWORK AND OPERATIONAL PERFORMANCE

10. FINANCIAL PERFORMANCE

11. GRID MODERNISATION INITIATIVES AND PROGRAMMES
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17. PRIVATE UTILITY PROFILES

The report is available in a PDF format.
SECTION I: TRENDS, DEVELOPMENTS, OUTLOOK AND PROJECTIONS

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2. RECENT POLICY AND REGULATORY DEVELOPMENTS

3. OTHER RECENT DEVELOPMENTS
   - Key Developments under Government Schemes (IPDS, DDUGJY, NSGM), Updates under Smart Metering National Programme, PPA-related Updates, Tariff Hikes, Developments Impacting Discom Tariffs, Discom Rankings, Distribution Franchises, Digital Mapping of Feeders

4. INTER-DISCOM COMPARISON - PUBLIC

5. INTER-DISCOM COMPARISON - PRIVATE
   - Consumer Base, Energy Sales, Line Length, Transformer Capacity, T&D Losses, Power Purchase Costs, System Reliability

6. FUTURE OUTLOOK FOR NETWORK GROWTH
   - Projected Line Length Additions, Projected Substation Additions, Projected Distribution Transformer Capacity Additions, Projected Metering Requirements, Charging infrastructure for EVs

7. FUTURE OUTLOOK FOR COSTS, TARIFFS AND FINANCES
   - Outlook for Power Purchase Costs, Tariff Outlook, Outlook on Discom Finances and Losses, Outlook for UDAY

8. UPCOMING POLICIES & EXPECTED IMPACT
   - Union Budget 2020-21 - Key Highlights, UDHY 2.0, Five-year Vision Plan, Electricity (Amendment) Act, New Tariff Policy, Private Participation in Distribution, DBT for Subsidies, Others (Distribution Perspective Plan)

9. PROJECTED EQUIPMENT REQUIREMENTS
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10. UJJWAL DISCOM ASSURANCE YOJANA (UDAY)

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12. DDUGJY
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13. NATIONAL SMART GRID MISSION
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19. POWER PURCHASE COSTS
    - Aggregate Power Purchase Cost Trend, Per Unit Power Purchase Cost Trend, Impact of Recent Developments on Power Purchase Costs, Source-wise Power Purchase Costs Trends, Long-term Power Procurement Trends, Short-term Power Trading Trends

20. TARIFF TRENDS
    - Category-wise Tariff Trends (Agricultural, Domestic, Industrial HT & LT, Commercial), State and Utility-wise Trends in Tariffs, Tariff Revisions, Recent Developments Impacting Tariffs, Trends in Cross-subsidy Surcharges

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22. SMART METERING INITIATIVES
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      - Policy Drivers
      - Central and State Government Initiatives
      - EESL’s Smart Metering Plans
      - Recent and Upcoming Smart Metering Tenders
      - Stakeholder-wise Opportunities
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23. TRENDS IN DISCOM POWER PROCUREMENT
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      - Experience Under Aggregate Power Procurement Scheme
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24. APPENDIX
    - The report is available in a PDF format.
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   - EV Ecosystem in India
   - Segment-wise EV Growth: Two wheelers, Three wheelers, Four wheelers
   - Market Dynamics: Drivers, Restraints, Opportunities
   - Future Addressable Market

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   - Demand Creation Initiatives: EESL, PSUs, States, City Administrations and Discoms, Private Players
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The report is available in a PDF format.
1. MARKET OVERVIEW, KEY TRENDS AND RECENT DEVELOPMENTS

There is a rising popularity among developers, especially renewable energy players, to go for third-party direct sale agreements. States of Karnataka, Tamil Nadu, Andhra Pradesh and Telangana in the southern region of India and Rajasthan, Punjab and Haryana in the northern region of the country are fast catching up with open access transactions. But there are significant challenges in the growth of this segment, especially those pertaining to discoms’ resistance to let go of their high-end consumers.

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Energy banking will play a key role in the success of solar and wind power-based open access projects. Banking is presently allowed by SERCs upon the levy of a banking charge, which differs in magnitude across states. Rules around energy banking are specified in different types of documents in various states. Additionally, various attributes of the energy banking framework also differ across states.

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Over 2 GW of green power is being sold to big corporates through direct agreements and the trend is northbound as more and more corporates and industries are joining in the race. The business case for renewable energy-based open access is getting stronger with the decreasing cost of green power and increasing cost of thermal power.

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EXPERT OPINION

The report will feature 5-8 interviews of senior representatives at regulatory commissions, large open access consumers and key open access project developers, and experienced industry consultants.

The report is available in a PDF format.
EXECUTIVE SUMMARY
With the growing demand for power in urban areas and industries, underground cable systems are becoming an increasingly indispensable part of power transmission and distribution systems. With improved technologies and increased reliability, the cost differential between underground cables and overhead power lines is narrowing and utilities are acknowledging the benefits associated with underground cabling. This report will attempt to take a look at the key trends in the deployment of underground cables so far; analyse the plans and proposal of T&D utilities; examine new and evolving technology improvements and solutions being offered by the industry; as well as assess the key issues and challenges.

1. T&D INDUSTRY OVERVIEW
The T&D industry has been growing steadily with investments being made in system strengthening and capacity additions. This chapter gives an overview of the T&D industry and will focus on:
- Growth and Size of Existing T&D Networks
- Recent T&D Network Additions
- Projected T&D Network Additions
- Projected Capex (till 2022-23)
- Future Outlook
- Issues and Challenges

2. MARKET SIZE AND GROWTH FOR UNDERGROUND CABLES
Most of India’s T&D network continues to be strung overhead across the country; however, concerns about reliability and quality of supply are making utilities gradually replace their networks with underground lines. This chapter gives an overview on the new and emerging utility requirements in the underground cabling segment and will cover the following:
- Experience so far in T&D Networks
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  - Transmission
  - Distribution
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3. RECENT TRENDS AND ADVANCES
Well-designed and well-installed underground cable systems are expected to have a service life of 30-40 years. Utility providers, transmission companies and cable manufacturers are hence, looking for new technologies and solutions to respond to new grid challenges. This chapter looks at the new and promising technologies, designs and solutions for underground cable networks.
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- Market Trends and Developments (JVs/Acquisitions/Partnership Deals)
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4. OPPORTUNITIES UNDER KEY CENTRAL/STATE GOVERNMENT PROGRAMMES
Underground cables are an important part of several central government initiatives for improving T&D networks under IPDS. This chapter provides the details of plans and targets of works proposed to be taken up under various schemes.
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- Funding Availability for UG Cabling Projects
- Issues and Concerns

5. OPPORTUNITIES UNDER SMART CITIES MISSION
The Smart Cities Mission offers significant opportunities for underground cabling in key cities. Some cities such as Indore, Belagavi, Dharaneshwara, Lucknow, Kanpur and Tirupati are implementing projects for setting up underground cabling network for utilities such as electric wires, water pipelines, stormwater drains, sewers and telecommunication cables. This chapter provides the details of plans and targets of works proposed to be taken up under various schemes.
- Snapshot of the Mission
- Physical Targets for UG Cabling Works
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- Proposed Projects
- Issues and concerns

6. OUTLOOK AND PROJECTIONS (TILL 2022)
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- Expected Demand for UG Cables
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- Budgeted Capital Expenditures on UG Cabling
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7. LEADING PLAYERS
This chapter primarily focuses on the profiles of key vendors and technology providers for underground cabling. Each profile covers the following information:
- Brief Company Overview
- Key Product Offerings
- Existing Manufacturing Capacity
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- Future Plans

The report is available in a PDF format.
1. EXECUTIVE SUMMARY

Solar plants are built to last 20-25 years. After the engineering procurement and construction period is completed, developers need to ensure that the operations and maintenance (O&M) activities are seamless for sustained energy generation over the project lifetime. The report will highlight the emerging opportunities in this space and the growing role of new technologies like automation and artificial intelligence.

2. MARKET OVERVIEW

In the initial years of solar power development in India, O&M was often coupled with EPC and performed by the same vendors, but of late, solar O&M has emerged as a separate market with its own landscape, trends and dynamics. This chapter will cover the following areas:
- Current size of the solar O&M market
- Market size by segment
  - Utility-scale, Rooftop, Canal-top & floating solar
- Key growth trends and drivers
- O&M Evolution - Reactive to Predictive Analysis
- Applications in solar O&M
- Cost and time savings
- Emerging Role of Energy Storage
- Key issues and concerns

3. COST TRENDS

The cost of O&M services has been declining over the past few years and the downward trend is expected to continue. The cost composition itself is changing due to greater automation and use of advanced tools. This chapter will cover the following areas:
- Solar O&M cost trajectory (2012-18)
- Cost breakup analysis
  - Vehicles and logistics, Equipment and tools, Overheads, Personnel/
    Manpower, Digital, Others
- Cost projections (2019-24)
  - Business model evolution, Key cost considerations, Impact of scale, Impact of energy storage, Future cost estimates

4. EMERGING O&M BUSINESS MODELS

Globally, there has been a rise of third party solar O&M service providers. As more sophisticated and structured approach emerges in the solar O&M market, third party providers are able to deliver more value to solar investors and owners. This chapter will cover the following areas:
- Capex-based
- Profit-sharing
- Fixed cost
- O&M extensions
- Others

5. TERMS OF O&M CONTRACTS

It is important for both developers and O&M service providers to clarify and list out their expectations and accordingly draw up a long-term contract. An effective contract will result in higher plant efficiencies. This chapter will cover the following areas:
- Time periods
- Product warranties
- Performance guarantees/SLAs
- Penalties
- Ownership
- Legal terms

6. GRID MANAGEMENT BY O&M PLAYERS

As the government becomes stricter in its implementation of forecasting, scheduling and deviation settlement mechanism regulations, grid management will become a key component of O&M players. Integration of energy storage on to existing plants will lead to a greater O&M play. This chapter will cover the following areas:
- Forecasting and scheduling
- Deviation settlement management
- Integration of energy storage into existing plants
- Cost implications
- Experience so far

7. O&M COMPANY PROFILES

A large number of O&M focused players are coming up, some as hive-offs from existing EPC companies and others as independent specialists. This chapter will have 5-8 profiles of key O&M players in India covering the following:
- Project portfolio
- Service offerings
- Technology tie-ups
- On-ground experience
- In-pipeline capacity
- Etc.

8. DIGITALISATION AND AUTOMATION AT PLANT LEVEL

Digitalisation and automation will play a key role in providing efficient O&M services, thereby changing the current O&M cost composition, which is currently dominated by manpower expenses. New technologies are being adopted for improving asset lifecycle management, predictive maintenance, remote sensing and control, cloud computing, and use of drones for visual imaging. A number of companies have already started using robotics for cleaning modules. This chapter will cover the following areas:
- Emerging role, applications and use case for the following
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- Growing role of artificial intelligence
  - Machine learning applications, AI field assistants and predictive analytics, Existing use cases
- Key technology providers
- Industry Perspective
  - (Views of key personnel from the solar O&M industry and technology providers on the growing role of AI, robotics and data analytics)

9. KEY CHALLENGES, BEST PRACTICES AND CASE STUDIES

The lack of attention given to O&M practices is one of the primary challenges that the segment is facing. If the plant is not maintained properly, developers can lose up to 15 per cent of the returns. This chapter will cover the following areas:
- O&M challenges matrix
- Best practices (Globally and in India)
- Case studies
  - (This will cover successes and failures of various technologies, business models and strategies adopted by O&M players)

10. PROJECTED O&M MARKET SIZE (FROM 2019-20 TO 2024-25)

The total addressable market for solar PV O&M is expected to reach 30 GW in 2018-19. It is likely to be more than triple by 2022 to exceed 100 GW. In fact, going forward, as the installed base gets larger, O&M revenue may even exceed the development and construction revenue. This chapter will cover the following areas:
- Impact factors
- Emerging O&M industry structure
- Short-term projections
- Medium-term projections
- Long-term projections

The report is available in a PDF format.
# Waste to Energy 2018 (May 2018)

Segment Analysis, Trends and Outlook

No. of slides: 140   Price: Rs 50,000 (USD 1,180)

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The report is available in a PDF format.
# Competitive Bidding for Wind Projects

## Key Trends, Risks, Alternatives and Outlook

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The report is available in a PDF format.
Renewable Energy Development in Africa (April 2018)

Price: Rs 200,000 (USD 3,200)

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This section has 30 chapters pertaining to the renewable energy scenario and outlook for 30 African countries. These includes Algeria, Angola, Botswana, Cameroon, Democratic Republic of the Congo, Egypt, Ethiopia, Ghana, Guinea, Kenya, Libya, Madagascar, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Seychelles, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Tunisia, Uganda, Zambia and Zimbabwe.

Each country profile provides information on:
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    - Each profile provides an overview of the airport, traffic projections, ownership structure, expected capacity, future timelines, recent contracts; expansion, etc.

The report is available in a PDF format
Urban Rail in India 2020 (March 2020)

Sector Analysis, Investment Opportunities, Emerging Trends and New Opportunities

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Each profile covers the project scope (network length, alignment details, number of stations, rolling stock, fare system, signalling and telecommunications, traction, etc.), ownership details, implementing agency, cost estimates, key consultants, key contractors, key milestones, funding pattern, actual/expected ridership, recent contracts, upcoming tenders, and the detailed current status.

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The report is available in a PDF format.
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*The report is available in a PDF format.*
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The report is available in a PDF format.
# Dredging in India (October 2018)

Market Analysis, New Opportunities and Outlook

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A comprehensive database of key dredging projects with information on quantity dredged, contractor, location, contract value, type of dredged deployed, etc. The database would include projects being undertaken at the major ports, non-major ports, national waterways, oil and gas fields, rivers, beaches, etc. It would also cover the ongoing and upcoming projects under the central government programmes.

The report is available in a PDF format.
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The report is available in a PDF format.
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*The report is available in a PDF format.*
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The report is available in a PDF format.
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A comprehensive database of key tunneling projects across the metro, railway, roads and highways, water supply and sewage, irrigation and oil and gas sectors. Each project will provide information on tunnel length, no. of tunnels, location, implementing agency, project cost, contractor, current status, tunneling method, expected date of completion, etc. Each profile will cover information on company operations, existing fleet, geographical coverage, financial performance, future plans, etc.

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*Each project provides information on the scope of work, location, cost, capacity, mode of implementation, implementing agency, developer/contractor, current status, expected date of completion, etc.*
# Wastewater Treatment and Reuse Market in India

## (April 2020)

Price: Rs 50,000 (USD 1,180)

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The database will be a compilation of upcoming projects (ongoing and planned) in the sector including sewage treatment facilities (WWTPs), sewage pumping stations, sewage pipelines, recycle and reuse facilities, and effluent treatment plants with details on scope, location, cost, capacity, funding sources, implementing agency, contractor (wherever available), current status, expected date of completion, etc.

The report is available in a PDF format.
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    - Pradhan Mantri Awas Yojana - Gramin: Scope and Objectives, Progress So Far - Physical and Financial, Completed and Ongoing Projects, Targets and Timeline, Investment Requirements
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    (Each state profile will give an overview of the housing scenario, role of key agencies and housing boards, state policy on affordable housing, new initiatives and incentives, and ongoing and upcoming housing schemes/projects.)

The report is available in a PDF format.
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SECTION IV: DATABASE OF KEY PROJECTS

The database will provide a detailed list of completed, ongoing and
announced/planned/proposed projects in the sector including door-to-door collection and transportation projects, treatment and processing facilities. WTE plants, biomedical waste treatment facility, landfill development and disposal facilities with details on scope, location, cost, capacity, funding sources, implementing agency, contractor (wherever available), current status, expected date of completion, etc.

The report will be available in a PDF format.
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SECTION IV: DATABASE OF KEY PROJECTS

The report will also provide a comprehensive Excel-based database of ongoing and upcoming projects across the water supply, sewerage, waste, energy, mobility, buildings, roads, safety and security, e-governance, parking, and healthcare segments.

Each project will provide information on:
- Scope; Project Cost; Type of Project (Area-based or Pan-City);
- Mode of Implementation; Implementing Agency; Contractor/Developer/Technology Vendor (wherever available); Current Status; Expected Date of Completion Etc.

The report is available in a PDF format
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(Each player profile will give an overview of the company’s operations, focus areas, current production capacity, manufacturing facilities, key projects and tenders, financial performance, capex and expansion plans)

The report is available in a PDF format
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OPINION AND INSIGHTS
- Niraj Didwania, Head, Corporate Development and Investor Relations, Healthcare Global Enterprises
- Nitin Nag, Regional Director (South), Cloudnine Group of Hospitals
- Dr. Nitiraj Gandhi, Senior Manager, Business Advisory Services, EY
- Dr. Kirti Chadha, Senior Vice President - GRL Operations and Medical Affairs, Cloudnine
- Dr. Manjiri Bakre, CEO and Founder, OncoStem Diagnostics
- Nitin Sisodia, Founder and CEO, Sohum Innovation Lab
- Arun Agarwal, Founder, Janitri Innovations

The report is available in a PDF format.
Investment and Market Opportunities in African Infrastructure

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- Mining
- Oil and Gas
- Roads
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- ICT
- Water and Sanitation

Each of the sectors covers:
- Size and Growth, Emerging Trends and Recent Developments,
  Proposed Investments, Upcoming Projects, Market Opportunities,
  Issues and Challenges, Future Outlook

The report is available in a PDF format.
Irrigation in India (July 2020)
State Profiles, Upcoming Projects, Investments and Opportunities

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For each of the programmes we will cover project scope, investment requirements, financing sources, current status, key completed and ongoing projects, upcoming tenders, targets and completion timelines, etc.

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    Each profile will give information on the following:
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The report is available in a PDF format
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Each country profile covers the economic scenario; sector-wise global competitiveness rankings; current state of infrastructure, sector-wise size and growth, snapshot of project pipeline and trends in budgetary allocations.

The report is available in a PDF format.
Opportunities in Indian Defence Market 2019 (January 2019)

Market Analysis, Potential for Offsets and Future Outlook

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Each profile gives an overview of the company’s operations, key contracts, recent collaborations, joint ventures, and future plans and strategies.

The report is available in a PDF format.
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2. BANKING TECHNOLOGY OVERVIEW

SECTION II: TOP TECHNOLOGY TRENDS FOR THE FUTURE

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4. ISSUES, OUTLOOK AND PROSPECTS

5. BLOCKCHAIN

6. ARTIFICIAL INTELLIGENCE, DATA ANALYTICS AND ROBOTICS

7. APIS AND OPEN BANKING SYSTEMS

The report is available in a PDF format.
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<td>Opportunities in the Indian Healthcare Market (November 2019)</td>
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<td>Investment and Market Opportunities in African Infrastructure (November 2018)</td>
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<td>Irrigation in India (July 2020)</td>
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<td>Investment and Market Opportunities in Southeast Asian Infrastructure (August 2019)</td>
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<td>Opportunities in Indian Defence Market 2019 (January 2019)</td>
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<td>Banking Technology in India (September 2018)</td>
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**Total**

**INR** **USD**
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- Oil & Gas News
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#### Annual Package

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<td>All 8</td>
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