

# WASTE TO ENERGY 2018

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SEGMENT ANALYSIS, TRENDS AND OUTLOOK

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## 1. Executive Summary

### SECTION A: MARKET OVERVIEW, TRENDS AND OUTLOOK

#### 2. Current Scenario

- ❖ Waste Generation Potential in India
- ❖ Size and Growth of Waste to Energy
- ❖ Leading Cities in Waste to Energy Development
- ❖ Current Industry Structure
- ❖ Waste Treatment and Processing Practices
- ❖ New Technology Advancements
- ❖ Market for Waste Residues/Byproducts
- ❖ Key Issues and Challenges
- ❖ Future Outlook

#### 3. Enabling Policy Framework

- ❖ Swachh Bharat Mission
- ❖ Smart Cities Mission
- ❖ Government Schemes for Waste-based Projects
- ❖ National Tariff Policy, 2016
- ❖ Solid Waste Management Rules, 2016
- ❖ Environmental Norms for WtE Projects
- ❖ GST for WtE Projects
- ❖ WtE Tariffs Determined by CERC and SERCs
- ❖ State-wise WtE Policies and Regulations

#### 4. Future Outlook and Market Opportunities

- ❖ MNRE's Targets
- ❖ Key Growth Drivers
- ❖ Capacity Addition Outlook
- ❖ Investment Projections
- ❖ City-wise Potential and Opportunities
- ❖ Market Opportunities
- ❖ The Way Forward

#### 5. Analysis of Operational Projects

- ❖ City-wise Analysis of Waste to Energy Capacity
- ❖ Technology-wise Analysis
- ❖ Segment-wise Analysis
  - MSW Power Plants
  - Grid Power Projects in Industries
  - Captive off-grid Projects
  - Biogas for Captive Thermal
  - Bio-CNG Projects

#### 6. Economics and Financing

- ❖ Cost Economics
- ❖ Key Financiers
- ❖ Year-wise CFA and Sanctions
- ❖ New Financing Tools and Instruments
- ❖ Emerging Business Models for Project Development
- ❖ Key Risks and Concerns
- ❖ Project IRRs

### SECTION B: SEGMENT ANALYSIS

#### 7. MSW-based Power Projects

- ❖ Size and Growth
- ❖ MSW Generation in Major Cities of India
- ❖ Growth Drivers
- ❖ Upcoming Projects
- ❖ Key Issues and Challenges
- ❖ Future Outlook
- ❖ Key Project Case Studies
  - Key Features
  - Waste Collection System
  - Waste Management Practices
  - Performance Trends
  - Critical Success Factors

#### 8. Industrial Waste-based Power Projects (Including captive off-grid)

- ❖ Size and Growth
- ❖ Industry-wise Potential
- ❖ Growth Drivers
- ❖ Upcoming Projects
- ❖ Key Issues and Challenges
- ❖ Future Outlook
- ❖ Key Project Case Studies
  - Key Features
  - Waste Collection System
  - Waste Management Practices
  - Critical Success Factors

#### 9. Biogas Projects

- ❖ Size and Growth
- ❖ Market Potential
- ❖ Growth Drivers
- ❖ Upcoming Projects
- ❖ Key Issues and Challenges
- ❖ Future Outlook
- ❖ Key Project Case Studies
  - Key Features
  - Waste Collection System
  - Waste Management Practices
  - Critical Success Factors

#### 10. Bio-CNG Projects

- ❖ Size and Growth
- ❖ Market Potential
- ❖ Growth Drivers
- ❖ Upcoming Projects
- ❖ Key Issues and Challenges
- ❖ Future Outlook
- ❖ Key Project Case Studies
  - Key Features
  - Waste Collection System
  - Waste Management Practices
  - Critical Success Factors

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