

INDUSTRY ANALYSIS REPORT

WATER INFRATECH



TOP SME PICK

Enabling **Viksit Bharat 2047**

"Viksit Bharat 2047 is the big picture. SMEs are the missing piece. Here is one powerful piece - Water Infratech."

WATER: THE BACKBONE OF INDIA'S GROWTH STORY

Powering Growth. Ensuring Sustainability. Securing Tomorrow.

INDIA'S NEXT STRATEGIC IMPERATIVE

As India advances towards becoming a developed nation, water is emerging as the country's next strategic infrastructure imperative.

Rapid industrialisation, urbanisation, and manufacturing led growth are driving the need for resilient water, wastewater, recycling, and reuse systems.

The sector stands at the heart of India's growth agenda, enabling **economic expansion**, strengthening **resource security**, and supporting a **sustainable future**.

-  WATER SUPPLY
-  WASTEWATER TREATMENT
-  WATER RECYCLING & REUSE
-  INDUSTRIAL WATER MANAGEMENT



WHY IT MATTERS



SUPPORTS
ECONOMIC GROWTH



ENABLES
SMART CITIES



STRENGTHENS
SUSTAINABILITY



ENHANCES
WATER SECURITY

ENABLING A SUSTAINABLE & RESILIENT FUTURE



RESILIENT
WATER SYSTEMS



EFFICIENT
TREATMENT



RECYCLING
& REUSE



INDUSTRIAL
RESILIENCE



SUSTAINABLE
FUTURE



STRONGER WATER SYSTEMS.
STRONGER INDIA. STRONGER FUTURE.

TABLE OF CONTENTS

A clear roadmap to navigate the complete report.

1		EXECUTIVE SUMMARY		INDUSTRY OVERVIEW	6
2		MARKET SIZE & GROWTH		REGULATORY & POLICY LANDSCAPE	7
3		TECHNOLOGY LANDSCAPE		COMPETITIVE LANDSCAPE	8
4		GEOGRAPHY ANALYSIS		INVESTMENT & FUNDING TRENDS	9
5		CHALLENGES & PAIN POINTS		OPPORTUNITIES & FUTURE OUTLOOK	10



ENABLING **RESILIENT**
WATER SYSTEMS.



DRIVING
SUSTAINABLE GROWTH.



SECURING A
BETTER TOMORROW.

INTRODUCTION

India's Water Challenge is Creating a Multi-Decade Opportunity

Water scarcity, rising demand, and policy support are accelerating the shift toward water reuse and recycling.

THE CHALLENGE



PER CAPITA
WATER AVAILABILITY

1,545 m³

Below water-stress
threshold of 1,700 m³



WATER DEMAND
RISING

843 BCM → 1,180 BCM
(2025) (2050)



INDUSTRIALISATION &
URBANISATION

Accelerating
resource pressure



THE OPPORTUNITY



WASTEWATER REUSE

Turning wastewater
into a valuable
resource



INDUSTRIAL RECYCLING

Power, manufacturing
& utilities driving
reuse demand



ADVANCED TREATMENT
TECHNOLOGIES

RO | MBR | ZLD
and beyond



STRONG POLICY SUPPORT

National frameworks &
regulations enabling
widespread adoption



ANNUAL WATER
RESOURCES

3,880 BCM



UTILISABLE
WATER

1,139 BCM
(~30%)



WATER DEMAND
2050

1,180 BCM



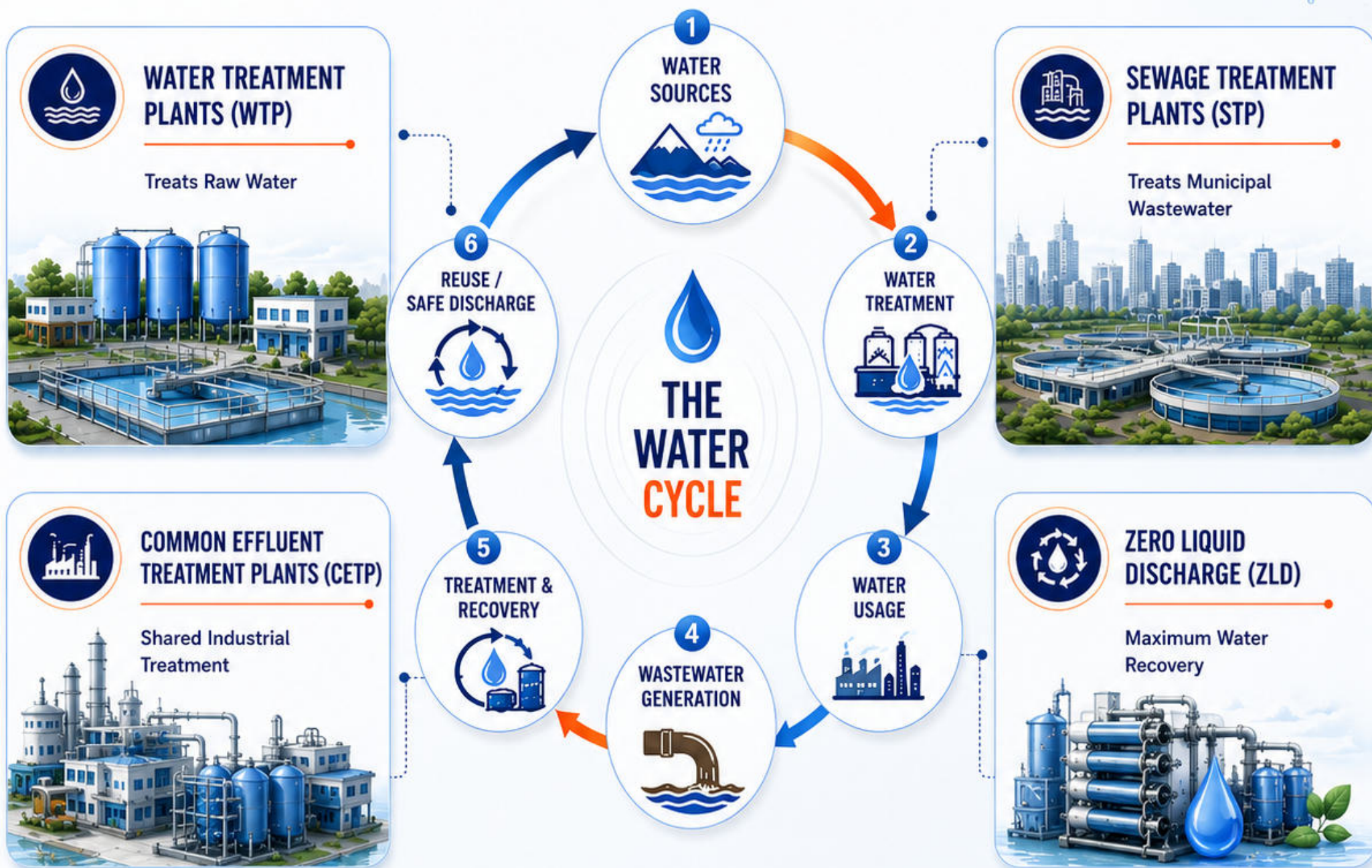
REUSE OPPORTUNITY

**HIGH GROWTH
SECTOR**

WASTEWATER IS SHIFTING FROM A
COMPLIANCE REQUIREMENT TO A
STRATEGIC INFRASTRUCTURE ASSET.



India's wastewater management ecosystem spans the entire water cycle — from sourcing and treatment to recycling, reuse, and safe discharge across **WTP, STP, CETP, and ZLD**.



KEY DRIVERS OF GROWTH



INDUSTRIAL
EXPANSION



URBANISATION &
INFRASTRUCTURE
GROWTH



STRICT
ENVIRONMENTAL
REGULATIONS



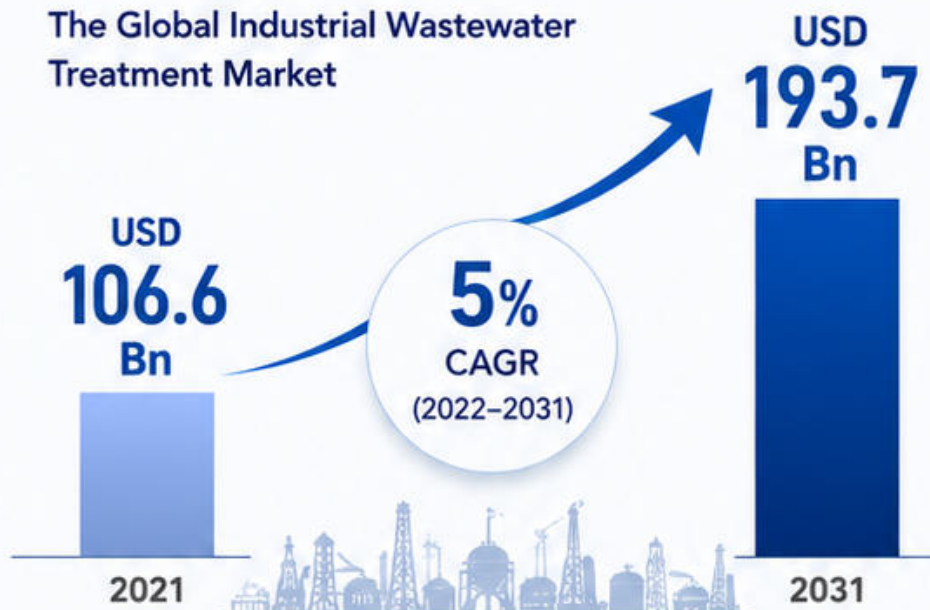
WASTEWATER
INFRASTRUCTURE
GROWTH

A rapidly expanding market driven by industrialisation, water scarcity, and environmental compliance.



GLOBAL MARKET

The Global Industrial Wastewater Treatment Market

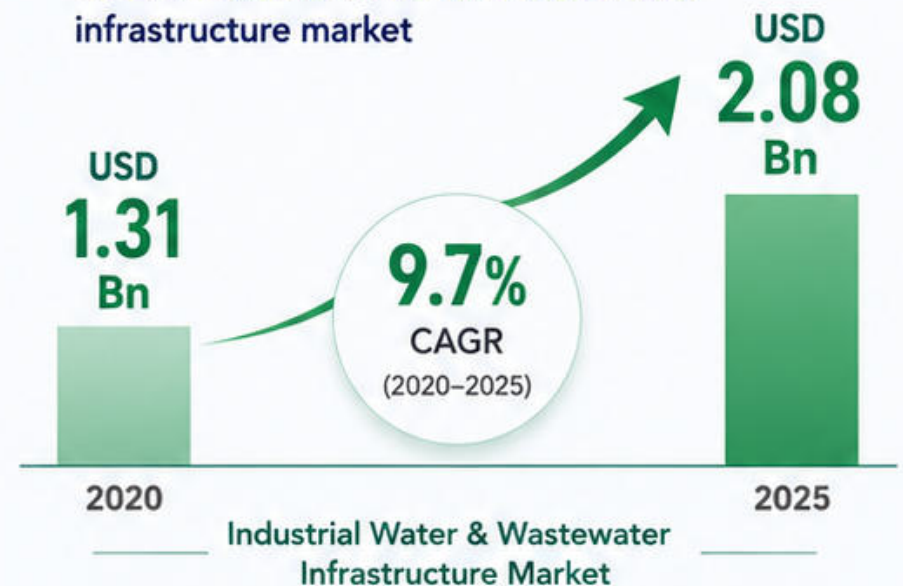


Global wastewater treatment demand continues to rise across industrial and municipal applications.



INDIA MARKET

India's industrial water and wastewater infrastructure market



8.3% CAGR
over 2024-2030



GLOBAL CAGR
5.0%

VS

INDIA CAGR
8.3%



India Growing Faster Than Global Markets

KEY DEMAND DRIVERS



Power



Chemicals



Pharmaceuticals



Textiles



Food &
Beverage



Metallurgy



Refineries



INVESTMENT THESIS

“ Water scarcity, industrial expansion, and tightening environmental regulations are accelerating investments in wastewater infrastructure across India. ”

REGULATORY & POLICY LANDSCAPE

Strong policy support has been the backbone of India's water and wastewater infrastructure growth.

INDIA'S POLICY EVOLUTION



POLICY PRIORITIES



FLAGSHIP GOVERNMENT PROGRAMS

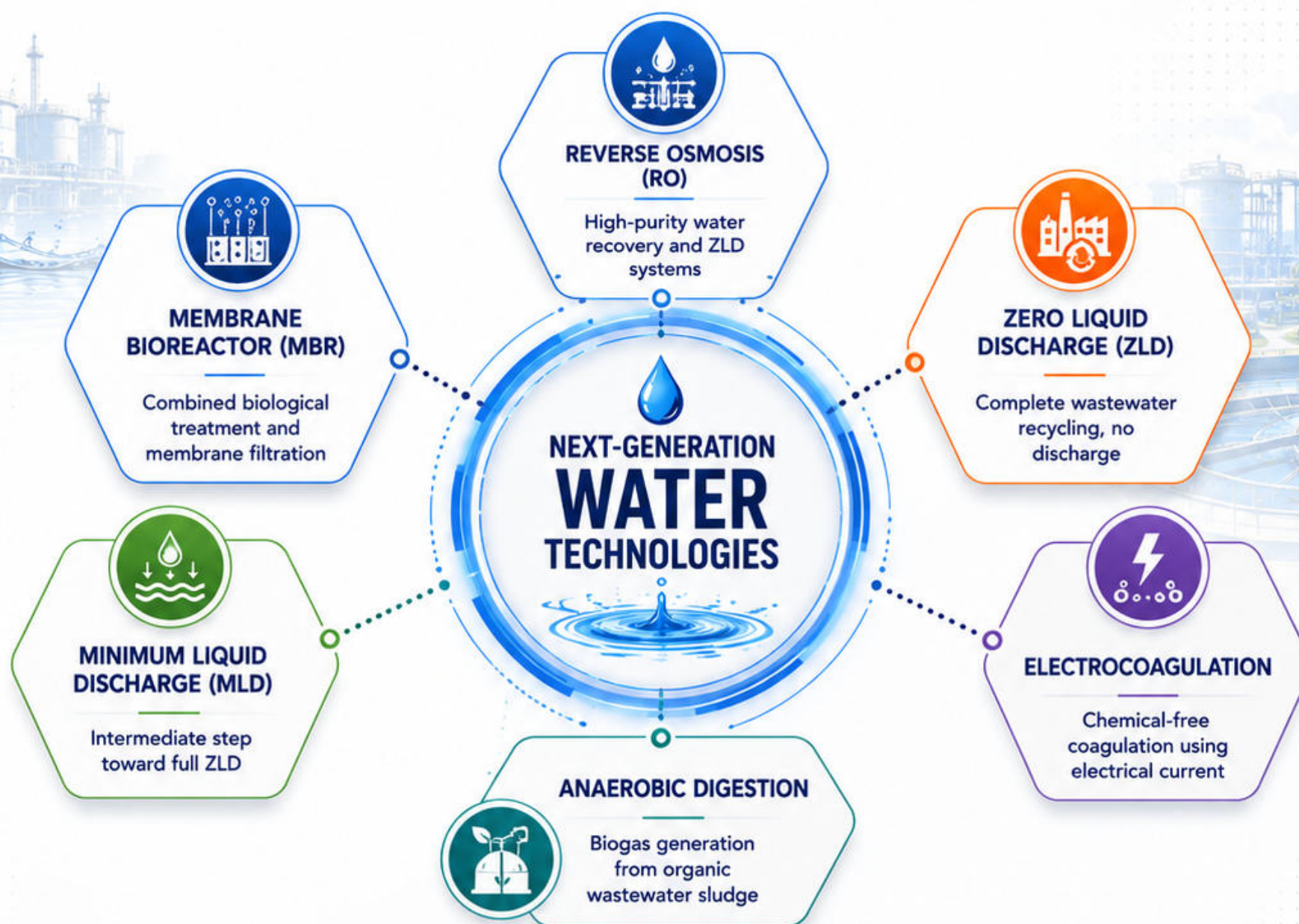


WHY IT MATTERS

 Strong **policy support**, stricter environmental compliance, and rising **infrastructure investments** are accelerating demand for water treatment, recycling, reuse, and **water security** solutions across India.



The sector is shifting from conventional treatment to advanced recovery, recycling, and resource-efficiency technologies.



KEY INDUSTRY SHIFT



Advanced technologies enable **higher recovery, lower discharge, reduced OPEX, energy generation,** and long-term resource security across municipal and industrial ecosystems.





INTEGRATED VALUE CHAIN



WATER SOURCE
Raw Water Intake



TREATMENT
WTP | STP | CETP



DISTRIBUTION
Pipelines & Pumps



RECYCLING
RO | MBR | ZLD



SAFE REUSE
Industrial | Municipal

GROWTH DRIVERS



WATER REUSE



SMART TREATMENT



DECENTRALIZED PLANTS



TIER II & III EXPANSION

INDUSTRY STRUCTURE



50+
MAJOR PLAYERS



EPC
DOMINATED MARKET STRUCTURE



TOP 20
~35% REVENUE SHARE

ECOSYSTEM PARTICIPANTS



SMEs ARE EMERGING AS **KEY ENABLERS** OF INDIA'S WATER INFRASTRUCTURE GROWTH



REGIONAL MARKET OVERVIEW



India's wastewater treatment investment is geographically diverse, with distinct demand drivers across states and regions. In 2025, southern and western states accounted for a significant share of investments, driven by industrial corridors mandating ZLD compliance and municipal corporations accessing ESG-linked debt.

RAJASTHAN & HARYANA



Rising reuse of treated wastewater in thermal power plants is boosting tertiary treatment demand.

GUJARAT



Semiconductor and industrial clusters are driving demand for advanced water treatment systems.

KARNATAKA



Water scarcity and green hydrogen projects are increasing desalination investments.

High Opportunity Regions

Emerging Growth Regions

Developing Markets

ASSAM & MEGHALAYA



Jal Jeevan Mission projects are increasing demand for compact treatment solutions.

ODISHA & WEST BENGAL



Steel and mineral industries are supporting industrial wastewater retrofit opportunities.

ANDHRA PRADESH & TAMIL NADU



Coastal desalination projects are gaining momentum due to climate resilience needs.

KEY INVESTMENT DRIVERS



INDUSTRIAL
CORRIDORS



WATER
SCARCITY



ZLD
COMPLIANCE



MUNICIPAL
INFRASTRUCTURE



ESG-LINKED
FUNDING



WASTEWATER
INVESTMENT GROWTH



KEY INSIGHT

Southern and Western India account for a significant share of wastewater investments, supported by **industrial expansion**, **stricter environmental regulations**, and growing adoption of **water reuse technologies**.



CHALLENGES & PAIN POINTS

KEY CHALLENGES FACING INDIA'S WASTEWATER TREATMENT INDUSTRY



India's wastewater treatment sector faces multiple challenges that impact compliance, project execution, cost efficiency, and infrastructure effectiveness.



01

REGULATORY ENFORCEMENT



Environmental regulations are not uniformly enforced across states.



Many ETPs and CETPs fail to consistently meet prescribed discharge standards.



Compliance gaps undermine market development and public health outcomes.



02

CAPITAL COSTS



ZLD and advanced treatment systems require significant upfront investment.



MSMEs and small industrial units frequently struggle to fund treatment infrastructure.



Creates a persistent implementation gap in the sector.



03

DELAYED PROJECT EXECUTION



CETP implementation and large-scale wastewater infrastructure projects face long execution timelines.



Land acquisition challenges and bureaucratic processes cause delays.



Multi-stakeholder coordination further slows project progress.



04

AGING INFRASTRUCTURE



Existing treatment plants—particularly in mid-sized and older industrial zones—require significant upgrades.



Aging civil, mechanical, and electrical infrastructure increases O&M costs.



Limits treatment efficacy and impacts long-term operational performance.



THE WAY FORWARD



Stronger regulatory enforcement and monitoring



Financial support and incentives for MSMEs and industries



Streamlined approvals and faster project execution



Infrastructure upgradation and adoption of advanced technologies



Strong policy support, technological innovation, and regional demand drivers are creating significant opportunities for investment and sustainable growth in India's wastewater sector.



01 WATER REUSE & CIRCULAR ECONOMY

- National Framework for Safe Reuse targets 60% reuse by 2030 and 85% by 2050–51 for key water intensive sectors
- Industrial wastewater reuse creating cost-savings and circular economy opportunities
- Biogas-to-bio-CNG conversion from wastewater sludge is an emerging revenue stream for STPs



02 SMART WATER SYSTEMS

- AI/ML platforms and digital twins enabling predictive maintenance and operational optimization
- SCADA and IoT-based monitoring improving regulatory compliance and real-time visibility
- Advanced analytics detecting failure early and ensure plans what performance procurement



03 EMERGING MARKET POTENTIAL

- Odisha – Industrial corridors & solar park driving wastewater capacity investments
- Coastal States (Andhra Pradesh, Tamil Nadu) – Coastal desalination plants creating momentum for zero-liquid-discharge (ZLD) industrial hubs
- Uttar Pradesh – Sewage treatment capacity expansion in Tier-II & III cities
- Rajasthan & Haryana – Treated effluent reuse in thermal power cooling systems



Rajasthan & Haryana
Treated effluent reuse
in thermal power
cooling systems

- Northern Region Opportunities
- Eastern Region Opportunities
- Coastal Region Opportunities



Uttar Pradesh
Sewage treatment
capacity expansion
across tier-II and
tier-III cities



Odisha
Industrial corridors
& solar park driving
wastewater capacity
investments



Coastal States
(Andhra Pradesh,
Tamil Nadu)
Coastal desalination
plants gaining
momentum

THE ROAD AHEAD



Policy push and
regulatory reforms
to accelerate
investments and
adoption.



Advanced
technologies and
digitalization to
improve efficiency
and enable O&M.



Water reuse and
circular economy
models to enhance
new revenue
streams.



Private participation,
innovative financing,
and PPPs-backed
funding will drive
capital mobilization.



Regional focus with
tailored solutions
will ensure sustainable
long-term impact.



With strong tailwinds across policy, technology, and demand — the future of India's wastewater sector is **resilient, sustainable, and full of opportunity.**

BUILDING INDIA'S CIRCULAR WATER ECONOMY

THE GROWTH JOURNEY



SECTOR OUTLOOK THROUGH 2030+



Strong policy support + rising water stress + technological innovation =
a **multi-decade growth opportunity** for India's wastewater infrastructure sector.





RYSA Infratech Limited



Equibeeipo™

— Your Vision, Our Expertise —

Water resilience is becoming a critical business priority for India's industrial future.



— Promoter, RYSA Group



Water
Security



Wastewater
Recycling



Industrial
Resilience



ZLD
Solutions



SCAN TO KNOW
EQUIBEE



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As India continues its industrial and economic growth, water security is emerging as a critical business priority.

— — —
The future of the sector lies in **advanced wastewater recycling** and **Zero Liquid Discharge** solutions that reduce freshwater dependence, strengthen industrial resilience, and support sustainable growth.

— **Aryaman Dosajh**



SCAN TO KNOW
EQUIBEE



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