

# **UV Disinfection System (Wastewater Treatment) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032**

<https://marketpublishers.com/r/UC647258B086EN.html>

Date: November 2024

Pages: 230

Price: US\$ 4,850.00 (Single User License)

ID: UC647258B086EN

## **Abstracts**

The Global UV Disinfection System (Wastewater Treatment) Market reached USD 1.78 billion in 2023 and is projected to grow at a CAGR of 10.1% from 2024 to 2032. Rising regulatory standards for water quality are crucial in market expansion, particularly within water and wastewater treatment. Governments and regulatory bodies worldwide enforce stricter guidelines to ensure safer drinking water and improved wastewater management, fostering increased adoption of UV disinfection systems.

The component segment is expected to witness robust growth at a CAGR of 10.6%, reaching USD 1.62 billion by 2032. This growth is fueled by the growing demand for UV lamps in water and wastewater applications. A clear transition toward LED UV lamps is evident, driven by their superior energy efficiency, extended lifespan, and environmentally friendly attributes. These advancements result in reduced maintenance requirements and lower operational expenses, making them attractive for both municipal and industrial users. Regulatory pressures to adopt mercury-free technologies and develop sustainable solutions further accelerate the shift toward LED-based UV systems.

Municipal water and wastewater authorities accounted for 53.6% of the UV disinfection system market share in 2023. The adoption of these systems by municipalities is propelled by the demand for chemical-free, eco-friendly treatment methods. Governments are increasingly investing in water infrastructure and promoting cost-effective, sustainable technologies, boosting the implementation of UV systems in large-scale treatment facilities.

United States UV disinfection system market is forecasted to reach USD 747.2 million

by 2032. The U.S. dominates the North American market due to advancements in UV technology, stringent environmental regulations, and substantial infrastructure investments. Companies in the region are focusing on developing innovative UV systems that enhance energy efficiency, durability, and treatment performance. Supportive regulations, such as those enforced by the Environmental Protection Agency (EPA), drive the adoption of sustainable and chemical-free disinfection technologies, solidifying UV systems as a key component in water treatment strategies.

This growing emphasis on environmentally conscious and efficient solutions positions the UV disinfection system market for substantial growth, with evolving technology and regulatory frameworks paving the way for widespread adoption.

## Contents

### Report Content

#### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid sources
    - 1.4.2.2 Public sources

#### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Industry synopsis, 2021-2032

#### **CHAPTER 3 INDUSTRY INSIGHTS**

- 3.1 Industry ecosystem analysis
  - 3.1.1 Factor affecting the value chain
  - 3.1.2 Profit margin analysis
  - 3.1.3 Disruptions
  - 3.1.4 Future outlook
  - 3.1.5 Manufacturers
  - 3.1.6 Distributors
- 3.2 Supplier Landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
  - 3.6.1 Growth drivers
    - 3.6.1.1 Increasing regulatory pressure on water quality
    - 3.6.1.2 Rising environmental concerns and demand for sustainable solutions
  - 3.6.2 Industry pitfalls & challenges
    - 3.6.2.1 High initial capital investment
- 3.7 Growth potential analysis

3.8 Technological overview

3.9 Porter's analysis

3.10 PESTEL analysis

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2023**

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

## **CHAPTER 5 MARKET ESTIMATES & FORECAST, BY COMPONENT, 2021-2032 (USD MILLION) (THOUSAND UNITS)**

5.1 Key trends

5.2 UV lamps

5.3 Ballasts/Drivers

5.4 Quartz sleeves

5.5 Control systems

5.6 Others

## **CHAPTER 6 MARKET ESTIMATES & FORECAST, BY FLOW RATE, 2021-2032 (USD MILLION) (THOUSAND UNITS)**

6.1 Key trends

6.2 Small (50,000 m<sup>3</sup>/day)

## **CHAPTER 7 MARKET ESTIMATES & FORECAST, BY TECHNOLOGY, 2021-2032 (USD MILLION) (THOUSAND UNITS)**

7.1 Key trends

7.2 Low pressure UV

7.3 Medium pressure UV

7.4 Pulsed UV

7.5 UV LED

## **CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE, 2021-2032 (USD MILLION) (THOUSAND UNITS)**

- 8.1 Key trends
- 8.2 Municipal water & wastewater authorities
- 8.3 Industrial manufacturers
- 8.4 Commercial facilities (e.g., hotels, malls)
- 8.5 Residential/Point-of-Use

## **CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2032 (USD MILLION) (THOUSAND UNITS)**

- 9.1 Key trends
- 9.2 North America
  - 9.2.1 U.S.
  - 9.2.2 Canada
- 9.3 Europe
  - 9.3.1 UK
  - 9.3.2 Germany
  - 9.3.3 France
  - 9.3.4 Italy
  - 9.3.5 Spain
  - 9.3.6 Russia
- 9.4 Asia Pacific
  - 9.4.1 China
  - 9.4.2 India
  - 9.4.3 Japan
  - 9.4.4 South Korea
  - 9.4.5 Australia
  - 9.4.6 Malaysia
  - 9.4.7 Indonesia
- 9.5 Latin America
  - 9.5.1 Brazil
  - 9.5.2 Mexico
- 9.6 MEA
  - 9.6.1 South Africa
  - 9.6.2 Saudi Arabia
  - 9.6.3 UAE

## **CHAPTER 10 COMPANY PROFILES**

- 10.1 Advanced UV Inc.

- 10.2 Alfa Laval
- 10.3 Atlantic Ultraviolet Corporation
- 10.4 Atlantium Technologies Ltd.
- 10.5 Aquafine Corporation
- 10.6 Clean Water Technology
- 10.7 Evoqua Water Technologies
- 10.8 ERMA FIRST ESK Engineering SA
- 10.9 Heraeus Noblelight
- 10.10 Industrie De Nora SPA
- 10.11 LIT UV Technologies
- 10.12 Pentair (Aquionics)
- 10.13 Severn Trent Services
- 10.14 Trojan Technologies Group
- 10.15 Xylem Inc.

## I would like to order

Product name: UV Disinfection System (Wastewater Treatment) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

Product link: <https://marketpublishers.com/r/UC647258B086EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/UC647258B086EN.html>