

Zero Liquid Discharge System Market Size, Share & Trends Analysis Report By Type (Conventional ZLD, Hybrid ZLD), By Technology (Thermal Based, Membrane Based), By End Use, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

The global zero liquid discharge system market size was estimated at USD 8,045.0 million in 2024 and is projected to reach USD 14,847.8 million by 2033, growing at a CAGR of 7.1% from 2025 to 2033. The industry is primarily driven as industries worldwide prioritize sustainable wastewater management and stricter environmental regulations come into force.

Increasing industrialization and the need to minimize water pollution are driving the adoption of zero liquid discharge (ZLD) technologies that recover and recycle water while eliminating liquid waste discharge. Sectors such as power generation, chemicals, and pharmaceuticals are increasingly implementing these systems to reduce environmental impact and ensure regulatory compliance.

In addition, advancements in membrane filtration, evaporation, and crystallization technologies are improving system efficiency and lowering operational costs, making ZLD solutions more feasible for a broader range of industries. Growing awareness of water scarcity and the economic benefits of water reuse further support market expansion. As governments and industries emphasize circular water management and sustainability, the demand for reliable, cost-effective ZLD systems is projected to continue increasing globally.

Global Zero Liquid Discharge System Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global zero liquid discharge system market report based on type, technology, end use, and region:

Type Outlook (Revenue, USD Million, 2021 - 2033)

Conventional ZLD

Hybrid ZLD

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Thermal Based

Membrane Based

End use Outlook (Revenue, USD Million, 2021 - 2033)

Power

Metallurgy & Mining

Chemicals & Petrochemicals

Oil & Gas

Pharmaceuticals

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

Spain

UK

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Argentina

Middle East and Africa

Saudi Arabia

UAE

South Africa

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