

Zero Liquid Discharge Systems Market by System (Conventional, Hybrid), Process (Pretreatment, Filtration, Evaporation & Crystallization), End-Use Industry (Energy & Power, Chemicals & Petrochemicals, Food & Beverages), and Region - Global Forecast to 2027

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Abstracts

The global ZLD systems market size is projected to reach USD 9.9 billion by 2027 from USD 6.7 billion in 2022, at a CAGR of 8.2% during the forecast period. The market is driven by various factors such as growing demand for water re-use, and stringent government mandates towards industrial wastewater treatment. Additionally, the market is expected to be driven by rising industrialization and growing population in emerging economies in Asia Pacific and Middle East & Africa.

“Hybrid segment to be the fastest growing segment amongst systems in the ZLD systems market”

ZLD systems market is segment as commercial & hybrid based on the systems type. Commercial ZLD systems are the majorly commercialized type of water treatment system extensively used in the various end-use industries and hence account for the largest market share in the ZLD systems market as compared to the Hybrid ZLD system. However, cost-effectiveness with high operational efficiency of the system, hybrid ZLD systems is expected to grow at the highest rate, during the forecast period.

“Pre-treatment segment is projected to grow at the highest rate amongst process in the overall ZLD systems market during the forecast period”

ZLD systems market is segmented into pre-treatment, filtration, evaporation & crystallization based on process. The pretreatment process is the initial process carried out in ZLD systems. It eliminates contaminants present in the wastewater prior to its further processing in ZLD systems. This process of eliminating effluents from liquid is adopted in almost industries including energy & power, chemicals & petrochemicals, and textiles. High adoption of this process is thereby boosting its demand in the ZLD systems market.

“Pharmaceuticals is projected to grow at a highest growth rate amongst end-use industry in the overall ZLD systems market”

Based on end-use industry, the ZLD systems market is segmented into energy & power, chemicals & petrochemicals, food & beverages, textiles, pharmaceuticals, semiconductors & electronics, and others which includes pulp & paper, metals & mining, and tanneries. Pharmaceuticals is projected to grow at the highest rate in the ZLD systems market. Rising preference for wastewater re-use and industrial wastewater management generated from the pharmaceuticals industry is driving the demand of ZLD systems.

“Asia Pacific estimated to be the fastest growing region in the ZLD systems market during the forecast period”

Asia Pacific is projected to be the fastest growing region for ZLD systems between 2022 and 2027. This growth is primarily attributed to the presence of various developing countries in the region. Emerging countries such as China and India are witnessing rising industrialization and an increasing awareness about environment and water scarcity, is driving the ZLD systems market in the region. Additionally, stringent government regulations towards industrial wastewater treatment are also expected to boost the ZLD systems market growth in Asia Pacific region.

Breakdown of Primaries

Extensive primary interviews were conducted in the process of determining and verifying sizes of several segments and subsegments of the ZLD systems market gathered through secondary research.

The breakdown of primary interviews has been given below.

By Company Type: Tier 1 – 25%, Tier 2 – 50%, and Tier 3 – 25%

By Designation: C Level Executives – 20%, Director Level – 30%, Others – 50%

By Region: North America – 20%, Asia Pacific – 25%, Europe – 30%, Middle East & Africa – 10%, Latin America – 15%.

The key players in the ZLD systems market include Veolia Water Technologies (France), GEA Group AG (Germany), Praj Industries Ltd. (India), Aquatech International LLC (US), H2O GmbH (Germany), US Water Services (US), Aquarion AG (Switzerland), Saltworks Technologies Inc. (Canada), Petro Sep Corporation (Canada), and SafBon Water Technologies (US) among others.

Research Coverage

This report covers the ZLD systems market and forecasts its market size until 2027. The market has been segmented based on systems, process, technology, end-use industry, and region. The report also provides detailed information on company profiles and competitive strategies adopted by the key players to strengthen their positions in the market. The report also provides insights into the driving and restraining factors in the ZLD systems market, along with opportunities and challenges in the market. It also includes profiles for key manufacturers in the market.

Reasons to Buy the Report

The report is expected to help market leaders/new entrants in the following ways:

1. This report segments the ZLD systems market and provides the closest approximations of overall market size for its segments across different verticals and regions.
2. This report is expected to help stakeholders understand the pulse of the market and provide information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.
3. This report is expected to help stakeholders obtain an in-depth understanding of the competitive landscape of the market and gain insights to improve the position of their businesses. The competitive landscape section includes detailed information on strategies, such as new product launches, investment & expansions, agreement & collaboration, and mergers & acquisitions.

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