

# India Desalination Plant Market By Technology (Membrane, Thermal and Hybrid), By End-Use Sector (Municipal, Industry, Power, Others), By Region, Competition Forecast and Opportunities, 2028

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## Abstracts

India Desalination Plant Market is anticipated to register a high CAGR in the forecast period of 2024-2028. Desalination plants are used to convert seawater or brackish water into freshwater suitable for human consumption and other uses. The main reason for building desalination plants is to address water scarcity and provide a reliable source of freshwater in areas where access to clean water is limited. Desalination plants are becoming increasingly important in India as the country faces growing water scarcity and increasing demand for fresh water. In recent years, the Indian government has taken steps to promote the development of desalination technology and increase the number of desalination plants in the country. Some of the largest desalination plants in India are in the states of Gujarat and Tamil Nadu, and they use a variety of technologies membrane, thermal and hybrid. Despite the growth of the desalination industry in India, the high cost and energy requirements of these plants remain a challenge, and the government is continuing to invest in research and development to make desalination more efficient and affordable.

Some of the key reasons for building desalination plants are:

**Drought:** In areas prone to drought, desalination plants provide a reliable source of freshwater, reducing the reliance on rainfall and other natural sources.

**Population growth:** As the population grows, the demand for freshwater increases. Desalination plants help to meet this growing demand for freshwater.

**Saltwater intrusion:** In coastal areas, over-extraction of groundwater can cause saltwater intrusion into freshwater aquifers, making the water unsuitable for human consumption. Desalination plants can help provide a source of freshwater in these areas.

**Industrial and agricultural use:** Industries and agriculture also require large amounts of water, and desalination plants can provide a reliable source of freshwater for these uses.

### Increasing government regulations

The Indian government has taken several initiatives to support the growth of desalination plants in the country. Some of these include such as financial support from the Indian government to private companies and public sector units to set up desalination plants, particularly in coastal regions. Another initiative is public-private partnerships which means the government has encouraged public-private partnerships to set up desalination plants, with private companies providing the technical expertise and government providing the infrastructure support. Moreover, the government is continuously supporting research and development in desalination technology through grants and funding to universities and research institutions.

These initiatives are aimed at promoting the development of sustainable and cost-effective desalination technologies, which can help address the water scarcity problem in the country.

### The municipal industry contributes to a high CAGR

The municipal industry has a high CAGR contribution in the water desalination plant. Due to urbanization and the expansion of infrastructure, the demand for resources like water and electricity has increased and the municipal segment is anticipated to experience a strong revenue growth rate over the forecast period. Water that is fit for human consumption is provided to the urban population by the municipal sector. In addition, it is anticipated that the municipal sector will experience an increase in demand for water desalination plants due to the falling cost of desalinated water and the rising cost of surface water in urban areas.

### The High Cost Required for Setting Up Treatment Plants

High costs are required for setting up the water desalination plant. Water desalination plant requires excessive sludge production, large energy, and high operational costs. Moreover, it demands specialized knowledge and abilities. Before the desalination process, chemicals like hydrogen peroxide, chlorine, and hydrochloric acid were used as byproducts. When these chemicals are discarded after they no longer have their intended purposes this leads to environmental pollution. Large amounts of brine are flushed into the ocean or sea from saline water desalination plants. This brine contains chemicals like anti-scaling agents from pre and post treatment in addition to concentrated salt. As a result, brine disposal is an issue that could slow the adoption rate of all desalination processes. A water desalination plant installation is expensive and energy-intensive, making small-scale installations impractical. These are critical factors that could challenge market growth.

### Market Segmentation

India Desalination Plant Market can be segmented into technology, end-use sector, and region. Based on technology, the market can be segmented into membrane, thermal and hybrid. By end-use sector, the market can be segmented into, industrial, municipal, power, and others.

### Market Players

Major market players in the India Desalination Plant market are VA Tech Wabag Ltd., Thermax India Limited, Ion Exchange India Limited, Doshion Veolia Water Solutions Pvt. Ltd., IDE Technologies India Pvt. Ltd., Suez Water Technologies & Solutions, Aquatech Systems Asia Pvt. Ltd., Hitachi Plant Technologies India Pvt. Ltd., National Institute of Ocean Technology, Hyflux Engineering (India) Private Limited, among others.

### Report Scope:

In this report, India Desalination Plant Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

#### India Desalination Plant Market, By Technology:

Membrane Desalination

Thermal Desalination

Hybrid

India Desalination Plant Market, By End-Use Industry:

Municipal

Industry

Power

Others

India Desalination Plant Market, By Region:

East India

West India

North India

South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in India Desalination Plant Market

Available Customizations:

Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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