

# Seawater and Brackish Water Desalination

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## Abstracts

### Report Scope:

There are five sources of water for the desalination industry: brackish, seawater, brine, river, and pure water. This report covers only seawater and brackish water, which together account for more than 85% of the desalination industry. Brackish water and seawater are both types of salt water, but these sources differ by total dissolved solids (TDS). Each type of water requires different treatment methods. Brackish water is a blend of freshwater and seawater, characterized by a lower salt concentration than seawater. Seawater refers to the saline water naturally occurring in the ocean with a higher salt content.

Desalination plants range from small to large industrial or municipal facilities. This study discusses the status of global water resources and the growing gap between freshwater resources and demand for water from all sectors. The specific growth drivers for and the challenges related to the evolution of the desalination equipment market are presented.

A technical overview of the primary desalination technologies is provided on the basis of membrane and thermal-based technologies, as well as an overview of novel desalination methods. This updated version includes a study of the industrial segment, including the oil and gas, chemical, dairy, food and beverage, paper and pulp, pharmaceutical, semiconductor, and power industry and refinery sectors. The report presents the hypothetical unit cost of water as produced by the primary technologies as well as the sensitivity of that cost to variations in economic parameters.

The report also features a chapter highlighting the sustainability perspective of the seawater and brackish water desalination market at the global level. The chapter covers companies' performance in terms of ESG parameters.

The market size and estimates are provided in terms of value (\$ millions), with 2022 serving as the base year and market forecasts given for the period 2023 to 2028. Regional-level market sizes, with respect to technology and application, are also provided.

#### Report Includes:

37 data tables and 52 additional tables

An overview of the global market for seawater and brackish water desalination

Estimates of the market size and analyses of global market trends with data from 2022 and 2023, and projections of compound annual growth rates (CAGRs) through 2028

An examination of the current and future market potential, and breakdowns of the market by water source, technology, application, and geographic region

Descriptions of the primary desalination technologies and methods, and an assessment of the global seawater and brackish water desalination plant industry, from both market and application perspectives

In-depth information (facts and figures) pertaining to the major factors influencing the market, including emerging technologies and recent M&A activity

Insight into the industry structure, current competitive landscape, R&D activities, and regulatory and legislative issues

Analysis of relevant patents

Profiles of companies in the desalination industry, including Veolia Environnement, Acciona, LG Chem, and DuPont

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