# Lg chem muscat

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SEOUL, South Korea, July 15, 2024 /PRNewswire/ -- LG Water Solutions is set to enhance the Sultanate of Oman"s water infrastructure by delivering over 23,000 units of its SW 440 GR G2 seawater reverse osmosis (SWRO) membranes for the Ghubrah III Desalination Plant. Once commissioned in the first quarter of 2027, this plant will be the largest desalination facility in Oman.

LG Water Solutions boasts an outstanding history of supplying RO membrane elements to several desalination projects in Oman. Once the Ghubrah III plant becomes operational, LG Water Solutions" breakthrough NanoH2O(TM) RO membranes will treat over 50% of Oman"s desalination capacity.

Since 2016, LG Water Solutions has planted its presence in Oman by playing a pivotal role in developing a new desalination plant in Sohar, which commenced operations with a capacity of 250,000 m?/day.

In 2021, LG Water Solutions also secured the supply of SWRO membrane elements to the Barka V Desalination Plant in the densely populated Muscat and the Batinah region. The plant has a production capacity of 100,000 m?/day.

The outstanding performance of LG Water Solutions" products and engineering support will enable the Ghubrah III plant to operate more efficiently at reduced feed pressures, resulting in significant energy savings and lower operational costs.

LG Water Solutions is at the forefront of this ambitious project, providing cutting-edge desalination technologies and expertise that underscore the company"s dedication to realizing environmental sustainability and technological innovation. The Ghubrah III plant not only enhances water security for Oman but also sets a benchmark for desalination projects worldwide.

Dr. Hoon Hyung, Head of LG Water Solutions and Vice President of LG Chem, stated, "LG Water Solutions obtains a long-standing track record in the Sultanate of Oman from the beginning of its RO membrane business. We are very grateful for GS Inima"s decision to appoint LG Water Solutions as the membrane supplier for the Ghubrah III project. We are extremely honored to be given this opportunity to serve the significant local water demand for the region."

LG Water Solutions, a business unit of LG Chem, manufactures NanoH2O(TM) seawater and brackish water reverse osmosis (RO) membrane elements based on its groundbreaking Thin-Film Nanocomposite (TFN) technology.TFN technology improves membrane performance by embedding benign nanomaterials on the

membrane surface, increasing flux without compromising salt rejection. For more information, please visit

LG Chem announced on July 15 that it will supply over 20,000 reverse osmosis (RO) membranes to Oman’s largest desalination plant. Once the plant becomes operational, it is expected that half of the desalinated water produced in Oman will be processed using LG Chem’s RO membranes.

LG Chem disclosed that it will provide 23,000 RO membranes to GS Inima, the engineering, procurement, and construction (EPC) contractor for the Ghubrah Phase 3 desalination project. These membranes will be capable of desalinating 100 million tons of seawater annually (300,000 tons per day), supplying clean water to 2.5 million residents in the Muscat metropolitan area.

The Ghubrah Phase 3 project is a seawater desalination plant located in the coastal region of Muscat, utilizing reverse osmosis technology. When it begins operation in the first quarter of 2027, it will become the largest desalination facility in Oman. Reverse osmosis involves separating two solutions with differing concentrations using a semipermeable membrane and applying pressure to the higher concentration side, allowing only water molecules to pass through.

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