

SHUQAIQ 3 DESALINATION PLANT



PLANT TYPE
Desalination Plant



CLIENT
Saudi Water Partnership Co.



SECTOR
Municipal



COUNTRY
Saudi Arabia



CAPACITY
450,000 m³/day



TECHNOLOGY
Reverse Osmosis



PARTICIPATION IN THE SPV
30%



TYPE OF PROJECT
25-year contract under IWP scheme
(BOT)



INVESTMENT
US\$ 610 million



STATUS
In operation



The Shuqaiq 3 desalination plant, located on the coast of the Red Sea in Saudi Arabia, is one of the world's largest reverse osmosis desalination plants. With a nominal production capacity of 450,000 m³/day, equivalent to 180 Olympic-size swimming pools, the plant supplies both the population and the agricultural and industrial activities of the provinces of Asir and Jizan, which are home to nearly 4 million people.

The Shuqaiq 3 plant has more than 7,000 reverse osmosis pressure tubes. When placed end to end would measure almost 54 kilometers long, with more than 53,000 membranes working simultaneously to produce more than 18 million liters of pure water per hour. For the water intake, three pipes, 2 meters in diameter and 1.5 km long.

