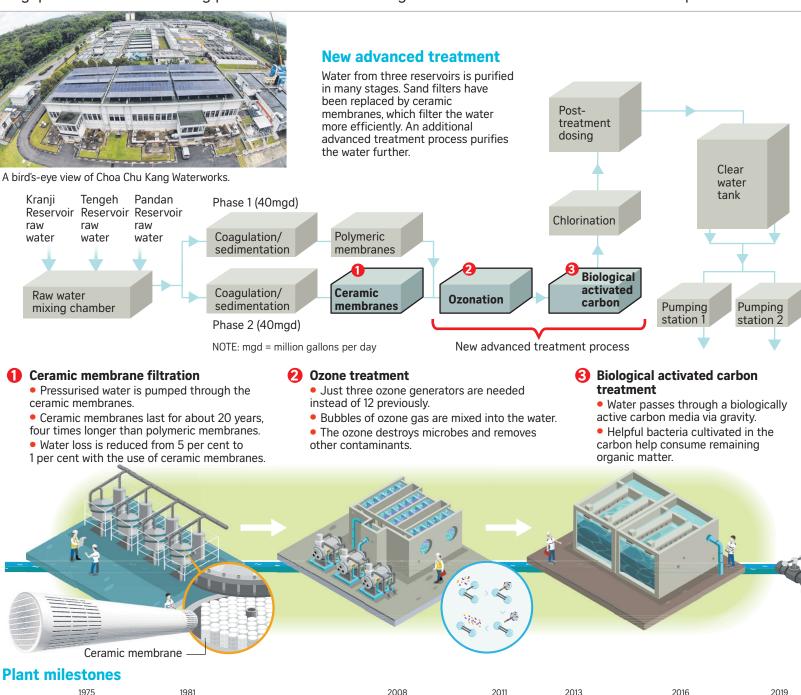
State-of-the-art upgrade for Choa Chu Kang Waterworks

One of Singapore's oldest water treatment plants has been given a \$162 million revamp. The new ceramic membranes and advanced treatment process at the plant will allow Singapore to better tackle the impact of climate change, such as increased algae growth at reservoirs. Similar ceramic membrane systems are also used at water treatment facilities in the Netherlands and Britain, but the one at the Choa Chu Kang plant is the first for Singapore. The Choa Chu Kang plant is now the world's largest ceramic membrane water treatment plant.



plant is completed. It is fed with raw water from Kranji and Pandan reservoirs, uses sand filters, and has a capacity of 40mgd.

Phase 1 of the Choa Chu Kang

Phase 2 is completed. It is fed with water from Tengeh, also uses sand filters, and doubles the plant's overall capacity to 80mgd, or 145 Olympic-size swimming pools.

The first 40mgd facility is upgraded. Sand filters are replaced with new polymeric membranes.

Ceramic membranes are tested.

Ceramic membranes are implemented on a full scale at the Choa Chu Kang plant.