

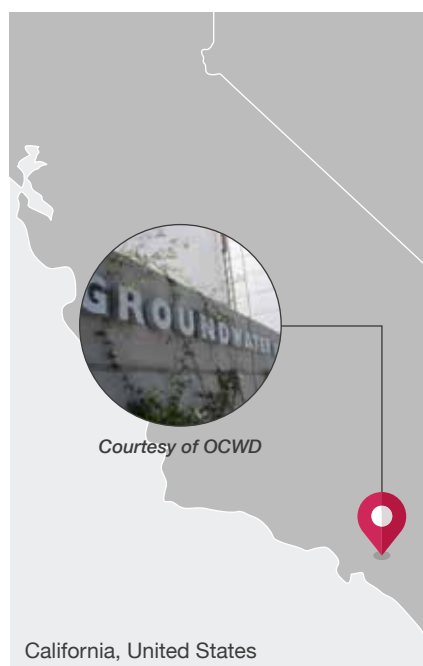
LG Chem Permeates into Municipal Wastewater Reclamation after Establishing Leadership in Seawater Desalination

LG Chem has been awarded three BWRO contracts for major utilities in the U.S.: Silicon Valley Advanced Water Purification Center in Santa Clara Valley Water District, Groundwater Replenishment System in Orange County Water District and Edward C. Little Water Recycling Facility in West Basin Municipal Water District. LG Chem has secured the projects after extensive testing at each facilities, satisfying the tight municipality standards for product performance and quality.



Orange County Water District

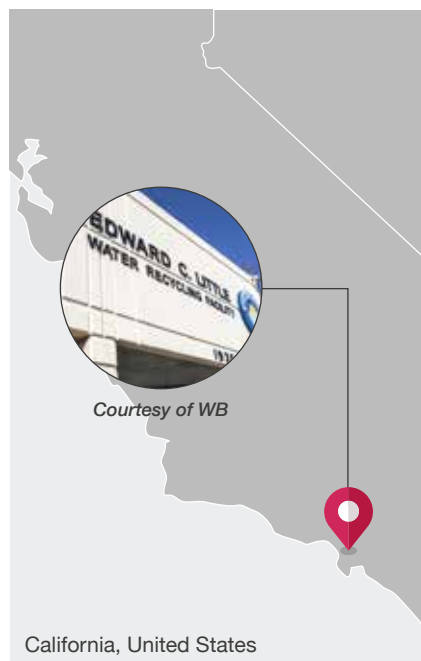
LG Chem supplies energy-saving LG BWRO membranes at the Groundwater Replenishment System in California, the world's largest water purification system for indirect potable reuse.



Operated By	Orange County Water District
Start-Up Date	2018
Feed Water Intake	Municipal wastewater plant secondary effluent
Application	Groundwater recharge for indirect potable reuse and injection for seawater intrusion barrier
Configuration	Three-stage, 3 RO units, 150 pressure vessels per train, with 7 elements per pressure vessel
Recovery	85%
Total Project Capacity	15 MGD (56.8 MLD)
Total Number of LG Chem NanoH₂O™ Elements	3,150
LG Chem NanoH₂O™ Membrane Model	LG BW 400 ES
Feed Temperature Range	26 - 29°C (79 - 84°F)

West Basin Municipal Water District

LG Chem was awarded the membrane replacement contract to install anti-fouling BWRO membranes at Edward C. Little Water Recycling Facility.



Operated By	West Basin Municipal Water District
Start-Up Date	2019
Feed Water Intake	Wastewater treatment plant secondary effluent, ozonated
Application	Groundwater recharge for indirect potable reuse and injection for seawater intrusion barrier
Configuration	Three 3-stage trains, various configurations
Recovery	85%
Total Project Capacity	8 MGD (30.3 MLD)
Total Number of LG Chem NanoH₂O™ Elements	1,806
LG Chem NanoH₂O™ Membrane Model	LG BW 400 AFR
Feed Temperature Range	27°C (81°F)

Santa Clara Valley Water District

LG Chem supplies energy-saving BWRO membranes at the Silicon Valley Advanced Water Purification Center, the largest plant of its kind in northern California and the focal point of the Santa Clara Valley Water District's recycled water expansion.



Operated By	Santa Clara Valley Water District
Start-Up Date	2019
Feed Water Intake	Municipal wastewater facility secondary effluent
Application	Groundwater recharge for indirect potable reuse
Configuration	Two-stage, 3 RO trains, 80 pressure vessels per train, with 7 elements per pressure vessel
Recovery	80 - 85%
Total Project Capacity	8 MGD (30.3 MLD)
Total Number of LG Chem NanoH₂O™ Elements	1,680
LG Chem NanoH₂O™ Membrane Model	LG BW 400 ES
Feed Temperature Range	16 - 28°C (61 - 82°F)