

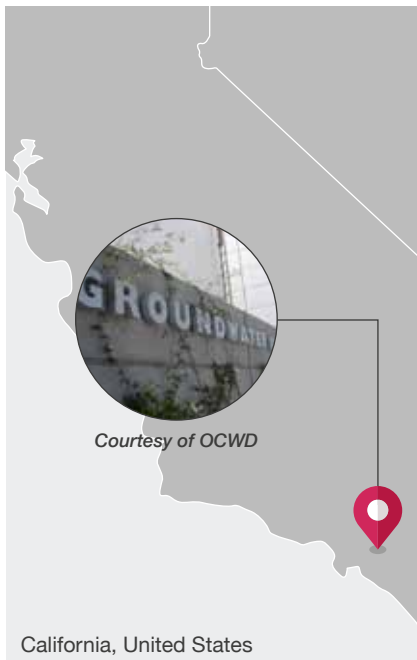
## LG Chem Permeates into Municipal Wastewater Reclamation after Establishing Leadership in Seawater Desalination

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

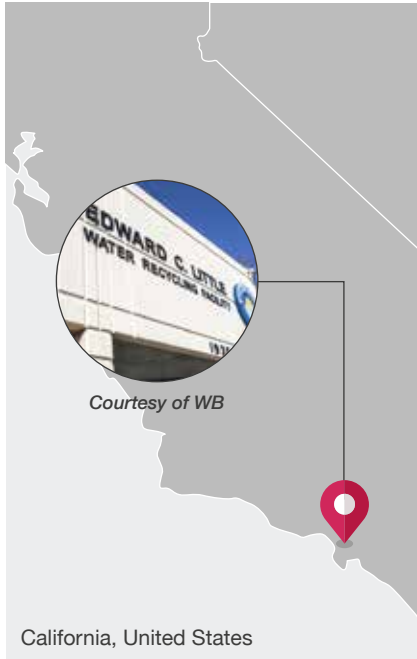
LG Chem supplies energy-saving LG BWRO membranes at the Groundwater Replenishment System in California, the world's largest water purification system for indirect potable reuse.



<b>Operated By</b>	Orange County Water District
<b>Start-Up Date</b>	2018
<b>Feed Water Intake</b>	Municipal wastewater plant secondary effluent
<b>Application</b>	Groundwater recharge for indirect potable reuse and injection for seawater intrusion barrier
<b>Configuration</b>	Three-stage, 3 RO units, 150 pressure vessels per train, with 7 elements per pressure vessel
<b>Recovery</b>	85%
<b>Total Project Capacity</b>	15 MGD (56.8 MLD)
<b>Total Number of LG Chem NanoH<sub>2</sub>O™ Elements</b>	3,150
<b>LG Chem NanoH<sub>2</sub>O™ Membrane Model</b>	LG BW 400 ES
<b>Feed Temperature Range</b>	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.



<b>Operated By</b>	West Basin Municipal Water District
<b>Start-Up Date</b>	2019
<b>Feed Water Intake</b>	Wastewater treatment plant secondary effluent, ozonated
<b>Application</b>	Groundwater recharge for indirect potable reuse and injection for seawater intrusion barrier
<b>Configuration</b>	Three 3-stage trains, various configurations
<b>Recovery</b>	85%
<b>Total Project Capacity</b>	8 MGD (30.3 MLD)
<b>Total Number of LG Chem NanoH<sub>2</sub>O™ Elements</b>	1,806
<b>LG Chem NanoH<sub>2</sub>O™ Membrane Model</b>	LG BW 400 AFR
<b>Feed Temperature Range</b>	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.



<b>Operated By</b>	Santa Clara Valley Water District
<b>Start-Up Date</b>	2019
<b>Feed Water Intake</b>	Municipal wastewater facility secondary effluent
<b>Application</b>	Groundwater recharge for indirect potable reuse
<b>Configuration</b>	Two-stage, 3 RO trains, 80 pressure vessels per train, with 7 elements per pressure vessel
<b>Recovery</b>	80 - 85%
<b>Total Project Capacity</b>	8 MGD (30.3 MLD)
<b>Total Number of LG Chem NanoH<sub>2</sub>O™ Elements</b>	1,680
<b>LG Chem NanoH<sub>2</sub>O™ Membrane Model</b>	LG BW 400 ES
<b>Feed Temperature Range</b>	16 - 28°C (61 - 82°F)