



The Metropolitan Water District of Southern California

NEWS RELEASE

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**METROPOLITAN BOARD AWARDS \$13.9 MILLION CONTRACT
TO CONSTRUCT RECYCLED WATER DEMONSTRATION FACILITY
Plant will generate information needed for potential
large-scale regional recycled water program**

The Metropolitan Water District of Southern California has taken a significant step toward the potential development of what would be one of the world's largest [water recycling programs](#).

The district's Board of Directors voted Tuesday (July 11) to award a \$13.9 million contract for the construction of an advanced water treatment demonstration facility that will take treated wastewater and purify it through various advanced processes to produce a safe, high-quality water source to replenish the region's groundwater basins.

The 500,000-gallon-per-day demonstration facility will be operated for at least one year to generate information needed for the potential construction of a full-scale recycled water plant that has been proposed by Metropolitan and the Sanitation Districts of Los Angeles County.

"This is a great opportunity for Metropolitan to develop a new source of local water," Metropolitan board Chairman Randy Record said. "Though last winter brought record rain and snow to many parts of California, our water supply challenges remain. We face a future that will bring more drought years, compounded by uncertainties from climate change and variability of imported water supplies. Recycled water would provide us a reliable, drought-proof, climate-resilient, local supply to recharge groundwater basins and supply the needs of the region's growing economy, even in dry years."

Through the Regional Recycled Water Program, Metropolitan would take wastewater treated at the Sanitation Districts' Joint Water Pollution Control Plant in Carson—water that is currently treated and discharged into the ocean—and purify it using reverse osmosis and other processes. These advanced treatment technologies have been used for decades in California and across the globe, and produce high-quality water that meets all state and federal standards.

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“We are excited about this important first step toward the potential full-scale Regional Recycled Water Program,” said Grace Hyde, chief engineer and general manager of the Sanitation Districts. “The program would enable cost-effective recycling of our largest untapped source of treated wastewater and let us play a bigger role in helping the region’s communities to reliably meet their future water needs.”

While the treatment process would be based on proven technologies, Metropolitan is also studying a way to increase efficiency using membrane bioreactor processes. The demonstration plant will help refine this innovative treatment process and assist with the regulatory approval for a full-scale plant.

The demonstration facility, costing an estimated \$17 million including design costs, also will be used to confirm treatment costs, allow for further assessment of the economic viability of a full-scale program, provide opportunities for public outreach and produce other data that can be used in the decision-making process for the future design, operation and optimization of a full-scale program.

“This facility will be key to demonstrating the effectiveness of a state-of-the-art optimized treatment process and generate valuable information to ensure the success of any full-scale program,” Metropolitan General Manager Jeffrey Kightlinger said.

Under a full-scale program, which would take about 11 years to design and build, the purified water would be pumped from the Carson treatment facility through a new regional pipeline network to four groundwater basins in Los Angeles and Orange counties, allowing for additional natural filtration and storage. Those basins, which provide water for 7.2 million people, are currently recharged with local rainwater, water imported from the Colorado River and Northern California and, in some cases, recycled water.

The full-scale program, as envisioned, would produce and distribute up to 150 million gallons of purified water per day to groundwater basins, enough water to serve more than 335,000 homes. Feasibility studies completed in late-2016 estimate the full program would cost approximately \$2.7 billion to build. Annual operations and maintenance costs for this program are estimated at about \$129 million. Based on those estimates, water produced by the program would cost about \$1,600 an acre-foot, which is comparable to other new local supplies.

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The Metropolitan Water District of Southern California is a state-established cooperative of 26 cities and water agencies serving nearly 19 million people in six counties. The district imports water from the Colorado River and Northern California to supplement local supplies, and helps its members to develop increased water conservation, recycling, storage and other resource-management programs.