

San Diego Basin Study

Adaptation Concept Definitions:

Adaptation Concept	Narrative Concept Description
Conveyance Improvement	Improve local and regional conveyance systems to increase supply reliability, increase operational flexibility, and reduce GHG emissions by utilizing existing conveyance facilities and natural water courses and constructing or modifying existing pump stations, pipelines, interties and bypasses.
Drought Restriction/Allocation	Implement temporary restrictions in water use to decrease demand or shift to other supply sources during periods of drought. Restrictions or allocations may be imposed at the local, regional, or State levels, and may include restrictions or allocations by water purveyors such as MWD.
Firm Water Supply Agreements	Provide water supply by forming agreements for firm water supply volumes to be provided from external sources, such as the Quantification Settlement Agreement.
Gray Water Use	Offset potable water usage by encouraging, supporting and/or providing incentives for gray water system installation by residential customers.
Groundwater	Provide water supply by extracting and treating and/or desalinating groundwater from local freshwater and brackish aquifers and maintain sustainable groundwater supplies through implementation of projects to recharge groundwater basins with injected or infiltrated rainfall, recycled water, imported water, or a combination thereof.
Imported Water Purchases	Provide water supply by purchasing treated or untreated water from a water wholesaler outside of the region, such as the Metropolitan Water District of Southern California.
Local Surface Water Reservoirs	Provide water supply by capturing, storing, and treating surface water runoff in lakes or reservoirs
Potable Reuse	Provide water supply by producing advanced treated water from wastewater for direct or indirect (e.g. reservoir or groundwater augmentation) potable use.
Recycled Water	Offset potable water use by providing non-potable recycled water use for landscape irrigation, industrial purposes or to recharge groundwater.
Renewable Energy	Supply energy for extracting, treating and conveying water supply with renewable energy sources such as in-line hydroelectric power generation, pumped storage, wind, solar, or geothermal.
Seawater Desalination	Provide water supply by utilizing or expanding existing facilities or constructing new facilities to remove salts from seawater.
Stormwater BMPs	Reduce adverse water quality impacts of stormwater through implementation of stormwater Best Management Practices (BMPs). BMPs are structural, vegetative or management practices used to treat, prevent or reduce stormwater runoff and pollution.



RECLAMATION

Managing Water in the West

Stormwater Capture	Provide water supply by capturing stormwater through both centralized projects and regional decentralized efforts and treating it for both potable and non-potable uses.
Traditional Energy Sources	Supply energy for extracting, treating, and conveying water supply with traditional energy sources such as coal and natural gas generation
Urban and Agricultural Water Use Efficiency	Increase water use efficiency by encouraging long-term behavioral change and implementing water use efficiency programs (e.g. rain barrel rebates, turf replacement credits, rebates for more efficient irrigation or plumbing fixtures, graywater system rebates).
Watershed and Ecosystem Management	Promote sustainable, high quality local water supplies through practices that support healthy ecosystems and improve or restore the condition of landscapes and biological communities. Such practices may include invasive species removal, restoration of native ecosystems, land acquisition for protection or enhancement, brush/forest management for wildfire risk reduction, remediation of aquifer and reservoir water quality through engineered or biological controls, management of non-point and point source pollution, and low impact development.

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