



Hiram W. Wadsworth

Pumping/Hydro-generating Facility

... at a glance



Overview

Located on the west end of Diamond Valley Lake near the city of Hemet, the Hiram W. Wadsworth pumping/hydro-generation facility is a major control structure and renewable energy producer for water coming from the State Water Project through DVL.

Before arriving at Wadsworth, the water in DVL has flowed south from the State Water Project into the 810,000-acre-foot reservoir via the Inland Feeder and the Eastside Pipeline. The water is eventually released to other areas of the conveyance system. DVL's Inlet/Outlet Tower

has valves at nine different depths, providing operators with the flexibility to select the best quality water.

Water flows through a 2,300-foot-long pressure tunnel to Wadsworth, where it is sent through as many as nine electrical generators that produce up to 3.3 megawatts each. From there, water is released to the San Diego Canal, through which it flows to Metropolitan's Lake Skinner and Robert A. Skinner Water Treatment Plant, and other water facilities in southwestern Riverside and San Diego Counties.

What is produced by the Wadsworth generator units -- 30 million kilowatt-hours on average in 2010-2014 -- can be sold by Metropolitan as renewable energy.

Forebay

- 500 acre-foot capacity
- Serves as regulating reservoir when generating power

Pumping

- Pumping capacity of 1,575 cubic feet per second
- Nine pumps - 6,000 horsepower each

Generating

- Nine generators - 3.3 megawatts each
- Generating capacity - 29.7 megawatts of renewable energy

Pressure Control Facility

- Houses seven, 66-inch-by 42-inch pressure control valves used to discharge water when generators are offline or out of service
- Discharged water re-enters forebay

Tunnel

- 16 feet in diameter by 2,300 feet long, steel lined
- Connects inlet/outlet tower with the pump/generation plant

Inlet/Outlet Tower

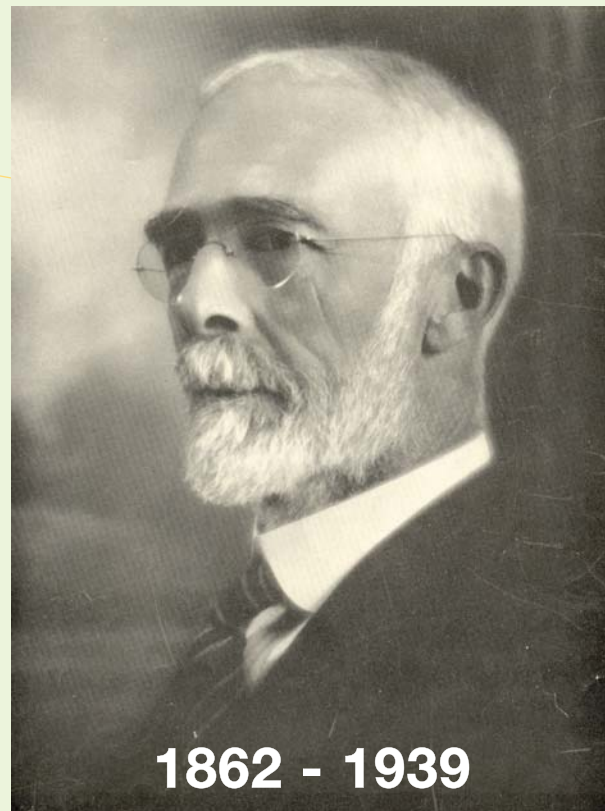
- 270 feet high
- Nine tiers each with dual 84-inch valves

Inland Feeder/Eastside Pipeline

- Allows water to be delivered by gravity to DVL directly from the State Water Project
- Can also deliver water from DVL to the Colorado River Aqueduct and the Henry J. Mills Treatment Plant

Dedicated

March 18, 2000, to the memory of Hiram W. Wadsworth, president of the Colorado River Aqueduct Association and former mayor of the city of Pasadena



Hiram W. Wadsworth, former Pasadena mayor and father of Metropolitan.

In 1924, as vice president of the Boulder Dam Association, Pasadena Mayor Hiram W. Wadsworth led the call for regional cooperation of municipalities to bring water to Southern California. Wadsworth then initiated the Colorado River Aqueduct Association and was elected president of the group at a meeting in Pasadena on September 18, 1924.

From 1924-1929, Wadsworth directed the campaign that led to the establishment of the Metropolitan Water District of Southern California. He personally picked the executive committee that developed the action plan and established the legal committee that drafted the MWD Act. Wadsworth led the legislative campaign for authorization of the MWD Act (1925-27) and solicited the involvement of cities in the new district.

On December 29, 1928, he saw his dream come true when he hosted the luncheon that preceded the first meeting of the MWD board of directors at the Huntington Hotel in Pasadena.

For his accomplishments, Hiram Wadsworth was known as the father of MWD. Pasadena awarded him the 1928 Arthur Noble Award for his great achievement of bringing into being MWD, thereby assuring much-needed water for Pasadena and other Southern California cities from the Colorado River.

About Metropolitan

The Metropolitan Water District of Southern California is a consortium of 26 member agencies—cities and public water agencies—that serve about 19 million people in six counties. Metropolitan 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.

Mission Statement

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

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