



Carlsbad Desalination Plant CARLSBAD, CA

Project Type:	Water
Agency Owner Name:	San Diego County Water Authority
Financial Close:	May 2007
Delivery Structure and Term:	30 year Concession
Cost to Design and Construct:	\$900 million

THE CHALLENGE: With a growing population and consistently dry conditions, the scarcity of drinking water in the area needed to be addressed.

CASE STUDY: CARLSBAD DESALINATION PLANT

THE SOLUTION: Carlsbad's reverse osmosis seawater desalination plant is designed to process 54 million gallons per day. Located next to the Encina Power Station, it is the nation's largest seawater desalination plant, producing an average flow of 50 million gallons per day (MGD) of drinking water from seawater through a reverse osmosis process that results in a brine waste approximately twice the salinity of the ocean. Seawater for the plant will be drawn from the cooling water discharge of the power station, and wastewater will be returned into the ocean using the power station's existing discharge canal.

THE OUTCOME:

Design to construction completion timeline: N/A

How was the project financed/paid for? Senior Secured Private Placement Debt

PROJECT TEAM:

Equity Provider: Poseiden, Stonepeak

Design-Build Contractor: Kiewit, Shea

Lead Design Firm: N/A

O&M Contractor: IDE Technologies

Additional Key Team Member: N/A

POLITICAL CONTEXT:

Recent Mayors: Jerry Sanders 2005-2012

Was there a city election prior to the project's completion? No

Was a new mayor elected prior to the project's completion? No

Does the state have P3 enabling statute? Yes

Did the city have certified P3 procurement staff? No

WHAT MAKES THIS A P3?



Risk Transfer



Performance Based



Long Term O&M



Public Ground Ownership



Private Financing



Public Purpose



THE UNITED STATES
CONFERENCE OF MAYORS

AIAI
Association for the Improvement
of American Infrastructure