



Poseidon Resources, a company that develops and finances environmentally-responsible water projects throughout North America, is proposing to build a seawater desalination facility in Orange County's Huntington Beach. Co-located with the AES Power Plant on Pacific Coast Highway, Poseidon would use the power plant's existing infrastructure to access the seawater needed and purify 50 million gallons per day (50 MGD) of high quality drinking water for Orange County residents and businesses.

This seawater desalination project would provide Orange County with a new water source to offset imported water supplies lost to drought and regulatory restrictions. The facility will diversify Orange County's water portfolio making its water supply more reliable in times of drought.

Project Information:

Need for Desalinated Water

- More than fifty percent of Orange County's water (and more than ninety percent of South Orange County's water) is imported from the Delta and Colorado River
 - Availability of water from the Delta and Colorado River has been reduced significantly over the past few years due to environmental demands, drought and other competing interests such as agriculture
- Orange County is expected to grow by about 500,000 people by 2020
- The Orange County groundwater basin is overdrafted by more than 100 billion gallons

Water Production

- 50-million-gallon-per-day (50 MGD) seawater desalination facility
 - Approximately eight percent of Orange County's water supply
- 56,000 acre-feet of water per year
 - Enough water for 300,000 Orange County residents
- Water produced exclusively for Orange County

Water Quality

- Uses the same reverse osmosis process that is used to purify bottled water
- This state-of-the-art process has been approved by the California Department of Health Services
- Removes not only salts, but all impurities from the seawater so only water molecules remain
- Higher purity than Orange County's imported water supply

Economic Benefits

- Provides nearly \$2 million annually to the City of Huntington Beach in tax revenue
- Creates 2,000 construction jobs, 322 indirect jobs and 18 permanent jobs

Construction Costs

- Planning and construction costs are approximately \$350 million
 - Privately funded by Poseidon Resources
 - No cost or risk to taxpayers

Water Cost

- Cost competitive with imported water
- Current imported water cost is approximately \$750 per acre foot

