



# Water

Bechtel has been solving the world's most difficult water scarcity and contamination challenges for more than 50 years and has built a reputation as an industry leader in desalination, nuclear, and industrial water treatment.

Bechtel's integrated EPC approach, from concept through to completion, enables customers to reduce risk and improve operational performance by developing facilities that are optimized to meet specific performance requirements.



## Technology neutral

We select the best suited and most effective technologies for project requirements.

## Desalination

### Alleviating water scarcity for industry and communities

Working closely with all major desalination technology suppliers, we have experience with all process stages and technologies. We offer customers a single point of accountability for delivering entire water delivery systems, including marine works, pre-treatment and reverse osmosis, pipelines, and pump stations.

## Industrial

### Integrating advanced raw water and wastewater treatment facilities

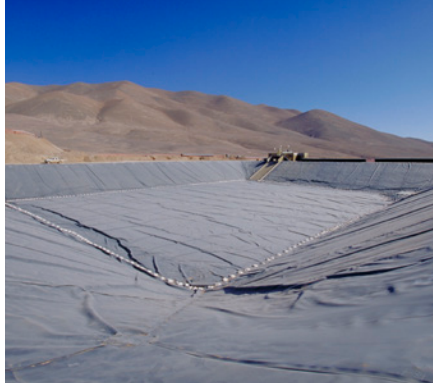
When designing treatment processes, we review all available technologies in the market. Through early engagement with the selected technology providers, we ensure the industrial feed and wastewater solutions meet project requirements.

## Nuclear

### Safely and effectively treating the world's most challenging liquid waste

Bechtel has been involved in the treatment of radionuclide-contaminated water for over 50 years. During this time, we have held various contracts leading the cleanup missions at all major U.S. Department of Energy (DOE) sites as well as cleanup efforts following the Three Mile Island and Chernobyl nuclear disasters. Our breadth of experience brings the knowledge and know-how to safely deal with the most complex nuclear liquid waste challenges on the planet.

# Reference projects



## Desalination

### Escondida Water Supply, Chile, 2016

The Escondida Water Supply Project has enabled BHP to minimize their reliance on local fresh water resources at their mine site by developing an alternative water supply for mining operations. This was achieved by constructing a water delivery system that desalinated water from the Pacific Ocean and delivered it via twin 112 mile (180 km) pipelines to the Escondida mine site at an altitude of 10,500 feet (3,200m) in the Andes. With a capacity of 216,000m<sup>3</sup>/day, it's the largest desalination plant in the Americas.



## Industrial

### Reliance Industries Jamnagar Export Refinery Wastewater Treatment, India, 2008

Bechtel completed the engineering of the Reliance grass-roots refinery, the largest refinery in the world. Working with Reliance, Bechtel developed a massive wastewater treatment facility, allowing Reliance not only to meet the effluent discharge standards, but also to reuse the treated wastewater in other refinery process units such as the cooling tower systems. In addition to the wastewater treatment facilities, the refinery included a 160,000m<sup>3</sup>/day thermal desalination facility.

## Customer focus

We support our customers by helping them solve their business challenges and achieve their goals in an environmentally and socially responsible manner.



## Nuclear

### Waste Treatment & Immobilization Plant (WTP), USA, In Progress

When complete, WTP will provide treatment and stabilization of 56 million gallons of the most complex heterogeneous waste of any U.S. cleanup site. WTP facilities have numerous water treatment processes, including pre-treatment, evaporation of secondary waste, reverse osmosis, air stripping, and ultimately treatment and stabilization by vitrification in a series of high-level and low-level waste melters.



## About Bechtel

Bechtel is one of the most respected global engineering, construction, and project management companies. Together with our customers, we deliver landmark projects that foster long-term progress and economic growth. Since 1898, we've completed more than **25,000** extraordinary projects across **160** countries on all seven continents.