Power

31°5'54"N | 97°20'37"W

Panda Temple I, TX, USA
The global influence of rapid urbanization, population growth, and extreme weather all drive up worldwide demand for high-performance infrastructure. This means that cities, local and regional bodies, and national governments are pursuing diverse initiatives that range from replacing legacy systems to building new urban areas from the ground up.

Whether it involves the unique challenges of an airport and the innovation to drive the renewables revolution, or the infrastructure behind a new or modernized railway, communications network, or civil undertaking, Bechtel can tackle the entire project lifecycle. From planning, design, procurement, and construction through to delivery, operations, and maintenance, we deliver the highest value for all stakeholders.

In particular, we champion innovative value-based procurement to address risk and encourage investment in the smart infrastructure on which successful global economies depend.

All sectors. All services.

By aligning our capabilities to our customers’ objectives, we help them achieve operational and performance excellence.

Optimizing project delivery
Lifecycle experience enables us to approach our projects from a holistic perspective.

Managing complexity
Our experience as an developer, financier, engineer, builder, and project manager allows us deliver the full spectrum of power projects under differing contracting models.

Applying technical expertise
To solve our customers’ toughest challenges, we turn to the best. Our people have been trusted partners of industry and governments since 1898, providing much-needed advice and solutions.

Ensuring a lasting positive legacy
We partner with clients, empower the supply chain, and work closely with communities to drive the best local outcomes on our projects.

Core capabilities
Thermal Renewable Transmission Nuclear Power

Constantly innovating
Our unique expertise in engineering, procurement, and construction, combined with a global reach, help us anticipate, create, pilot, and quickly implement new, better ways of working.

Looking to the future
Innovation
We believe the key to innovation is to learn safe, learn fast, and learn forward. We follow a six-step process to test assumptions, integrate solutions, and ensure a steady stream of ideas. We created the Future Fund—an incubator for ideas within Bechtel—and finance those ideas that most improve engineering, construction, quality, and safety.

Diversity & Inclusion
At Bechtel, diversity refers to the presence of many distinctive individuals in the workplace, marketplace, and community. We embrace the diversity in gender, race, nationality, culture, ethnicity, thinking, life experiences, and all other attributes that make each of us unique. Today, we have people from 73 countries working on projects worldwide.

Sustainability
Bechtel sets long-term goals to increase the company’s contributions to global sustainability. Through our 2030 target to use sustainable alternatives and reduce our environmental footprint on 100% of key projects, we are challenging ourselves to drive innovation and cost efficiencies to bring greater value to customers.

STEM
The next generation of science, technology, engineering, and math (STEM) professionals are vital to progress; they will be delivering the next 100 years of engineering, technological innovation, and invention. We are working to equip students with the tools, education, and mentorship to succeed in STEM.
The Bechtel-led BBE Hydro Constructors Limited Partnership is delivering this new 695MW powerhouse. As the centerpiece of the Keeyask Generation and Infrastructure Project, its seven turbine units will provide enough renewable energy to power 400,000 homes.

Customer: Keeyask Generating Station, Canada
Role: Project management, construction

The project involves massive cast-in-place concrete structures—totaling more than 330,000m³, chiefly a spillway and the powerhouse structure—totaling more than 330,000 m³. The Bechtel-led BBE Hydro Constructors Limited Partnership is delivering this new 695MW powerhouse. As the centerpiece of the Keeyask Generation and Infrastructure Project, its seven turbine units will provide enough renewable energy to power 400,000 homes.

Customer: Keeyask Generating Station, Canada
Role: Project management, construction, startup

The project involves massive cast-in-place concrete structures—chiefly a spillway and the powerhouse structure—totaling more than 330,000 m³. The Bechtel-led BBE Hydro Constructors Limited Partnership is delivering this new 695MW powerhouse. As the centerpiece of the Keeyask Generation and Infrastructure Project, its seven turbine units will provide enough renewable energy to power 400,000 homes.

Customer: Keeyask Generating Station, Canada
Role: Project management, construction, startup

Hanna Region Transmission Development, Canada
Role: Project and construction management
Customer: ATCO Electric
This extensive project involved constructing nearly 354km of new transmission lines, which included 246km of 240kV lines and lattice structures (both single and double circuit), 111km of new 144kV transmission lines, wood pole, lattice tower, and steel monopole structures (both single and double circuit), six new substations, and modifications to 12 existing substations. The project helped ATCO meet forecasted load growth (demand was expected to double).

Customer: Hanna Region Transmission Development, Canada
Role: Project and construction management

The timeline below presents a snapshot of our projects in the early 20th century and over the past 50 years.

1921 Caribou Water Tunnel, part of the Caribou Power Plant, USA
1925 Bowman Dam, USA
1936 Hoover Dam, USA
1945 Equipment changes for Southern California Edison, USA
1949 First nuclear reactor: Experimental Breeder Reactor-I (EBR-I), USA
1958 Swift Dam, USA
1959 Dresden Nuclear Generating Station, USA
1968 Palo Verde Nuclear Power Plant, USA
1974 Churchill Falls Hydroelectric Project, Canada
1978 American Falls Hydroelectric Project, USA
1984 Sultan River Hydroelectric Project, USA
1984 Cowitz Falls Hydroelectric Project, USA
1987 Shoubrah El-Ahmeim 1-4 Power Plant, Egypt
1994 Cowlitz Falls Hydroelectric Project, USA
1998 Rockisavage Power Project, UK
2002 Gezebo Power Plant, Turkey
2013 Hanna Region Transmission Development, Canada
2018 – present Huwmel Combined Cycle Power Plant, USA
2010 Oak Creek Power Plant, USA
2011 Great Yarmouth Energy Center, Netherlands
2014 – present Keeyask Generation and Infrastructure Project, Canada
2015 Kemano Completion Hydroelectric Project, Canada
2016 Springerville Generating Station Unit 3, USA
2017 – present Cricket Valley Energy Center, USA
2018 Huwmel Combined Cycle Power Plant, USA
2017 Stonewall Energy Center, USA
2018 Carroll County Energy Facility, USA
2020

Key projects

The timeline below presents a snapshot of our projects in the early 20th century and over the past 50 years.
While our expertise ensures delivery, ongoing collaboration is critical to long-term success. Since 1898, we have been the trusted partner of industry and governments worldwide. Differentiated by our people and our relentless drive to deliver successful outcomes, we have helped our customers complete more than 25,000 projects in 160 countries on all 7 continents.

We serve the Infrastructure, Nuclear, Security & Environmental, Oil, Gas & Chemicals, and Mining & Metals markets. Our services span from initial planning and investment, through start-up and operations.

Core to Bechtel are our values – ethics, safety, quality, people, culture, relationships, innovation and sustainability, and our covenants – integrity, respect, collaboration, trust, and delivery. They are what we believe, what customers can expect, and how we deliver.

Above: Hummel Combined Cycle Power Plant, PA, USA

Who is Bechtel

Our customers’ projects are an investment in the future. They create jobs and economies; improve the resiliency of the world’s infrastructure; increase access to energy, resources, and vital services; and make the world a safer, cleaner place.