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 increase 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.

Helping our customers deliver —

Transformational power projects

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 a developer, finance, engineer, builder, and project manager allows us to 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
- Renewables
- Transmission
- Nuclear Power

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.

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The Bechtel-led BBE Hydro Constructors Limited Partnership is delivering this new 695MW powerhouse. As the centerpiece of the Keeyask Generating Station, seven turbine units will provide enough renewable energy to power 400,000 homes. The project involves massive cast-in-place concrete structures—chiefly a spillway and the powerhouse structure—totaling more than 330,000m².

### Key projects

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

#### 1920s
- **1921** Caribou Water Tunnel, part of the Caribou Power Plant, USA
- **1925** Bowman Dam, USA
- **1926** Hoover Dam, USA

#### 1930s
- **1934** Churchill Falls Hydroelectric Project, Canada

#### 1940s
- **1945** Equipment changes for Southern California Edison, USA
- **1949** First nuclear reactor: Experimental Breeder Reactor-1 (EBR-1), USA
- **1958** Swift Dam, USA
- **1959** Dresden Nuclear Generating Station, USA
- **1960s** San Onofre Nuclear Power Plant, USA

#### 1950s
- **1958** Oghazlan 3-4 Power Plant, Saudi Arabia
- **1959** Coronado 2, USA
- **1960** Ghuzlan 3-4 Power Plant, Saudi Arabia

#### 1960s
- **1968** New Martinsville Hydroelectric Project, USA
- **1969** James Bay Hydroelectric Project, Canada

#### 1970s
- **1974** Chehalis Falls Hydroelectric Project, USA
- **1976** Palo Verde Nuclear Power Plant, USA
- **1978** American Falls Hydroelectric Project, USA
- **1984** Shoubrah El-Kheima 1-4 Power Plant, Egypt
- **1987** Cowitz Falls Hydroelectric Project, USA
- **1990** Limestone Hydroelectric Project, Canada
- **1998** Rocksavage Power Project, UK

#### 1980s
- **1989** Limerick Nuclear Generating Station, USA
- **1994** Cowlitz Falls Hydroelectric Project, USA
- **1995** Indiantown Cogeneration Project, USA
- **1996** Cowlitz Falls Hydroelectric Project, Canada

#### 1990s
- **1996** American Falls Hydroelectric Project, USA
- **2000** Cowlitz Falls Hydroelectric Project, USA

#### 2000s
- **2002** Gezebo Power Plant, Turkey
- **2003** Cottonwood Power Project, USA
- **2004** Rijnmond Energy Center, Netherlands
- **2005** Oak Creek Power Plant, USA
- **2006** Great Yarmouth Power Station, UK
- **2007** Mountainview Power Project, USA

#### 2010s
- **2010** Cricket Valley Energy Center, USA
- **2011** Kemano Completion Hydroelectric Project, Canada
- **2012** Magnolia Energy Project, USA
- **2013** Ivanpah Solar Electric Generating System, USA
- **2014** Panda Combined Cycle Power Projects, USA
- **2015** Iowa Electric Energy Facility, USA
- **2016** Cricket Valley Energy Center, USA
- **2017** Stonewall Energy Center, USA
- **2018** Gaba Power Plant, Turkey

#### 2020s
- **2018 – present** Cricket Valley Energy Center, USA
- **2019** Cricket Valley Energy Center, USA
- **2020** Cricket Valley Energy Center, USA

### Panda Combined Cycle Power Projects, USA

**Role:** Project management, engineering, procurement, construction, start-up
**Customer:** Panda Power Funds

Bechtel, in consortium with Siemens Energy Inc., designed and built five combined cycle power plants in three states for Panda Power Funds: Temple I, Temple II, and Sherman—all in Texas, the Stonewall project in Virginia, and the Hummel station project in Pennsylvania. In total, these projects can generate over 3,050MW of clean energy.

### 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).
While our expertise ensures delivery, ongoing collaboration is critical to long-term success. Since 1898, we have been the trusted partner of industry and government 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.

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