## The **Bechtel** Report 2009



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## To our customers, employees, partners, suppliers, and friends

For years, our diversified business portfolio has enabled us to weather cyclical industry swings and economic fluctuations. Never has that been more true than now, as we confront the worst economic slide in decades.

It was a testament to the strength and stability of Bechtel and its 44,000 employees that when the credit crunch hit in 2008, key customers, suppliers, contractors, and banks still saw us as a good partner. To meet the steadily increasing demand for energy, customers turned to us for new gas processing plants, pipelines, and refineries. When existing facilities needed more capacity, owners asked us to expand them. When the U.S. government wanted a company it could count on to manage complex national defense work, it once again called on us.

As a result, last year we posted records for both total revenue and new work booked—an achievement that stood out in a recession which hurt many other large companies. We completed a number of major projects and won important new jobs in all of our businesses. In addition, we maintained a healthy backlog of work heading into 2009.

Kley P.Becutel

Riley P. Bechtel Chairman & Chief Executive Officer

Last year we tightened our focus on quality, underscoring our commitment to customer satisfaction. We enhanced project execution through 24/7 engineering and launched an innovative Internet portal for sharing information among project teams. We also realized more savings for our customers from our Six Sigma quality-improvement program, now in its ninth year at Bechtel.

In 2008, our overall safety performance slipped slightly, although our safety record continued to surpass the average for our industry. We are responding by challenging our people to renew their commitment to safety and our zero accidents philosophy on every project and in every office.

We also continue to focus on sustainability. Last year, we provided job training for hundreds of local workers on big projects, and we helped customers meet their goals to protect communities and the environment.

Looking ahead, it is impossible to say when the current economic slump will end. Bechtel has survived other downturns since its founding more than a century ago, and we fully expect to ride out the current difficulties and remain a premier engineer-constructor.

Bill Dudley President & Chief Operating Officer

Adrian Zaccaria Vice Chairman

## **Business Review**

Despite worldwide economic turmoil, Bechtel

The strong performance across our diverse, Image of the second ers meet growing worldwide demand for energy. As a result, our 110th anniversary year was an overall success.

With our Oil, Gas & Chemicals unit setting the pace, we posted record financial results. Total revenue climbed to \$31.4 billion from \$27 billion in 2007, while the value of new work booked in 2008 rose to \$35 billion from \$34.1 billion. The results gave us six straight years of record total revenue, and three straight years of record bookings. Operations in North America, where we are strong in energy, power, and government services, generated about 40 percent of revenue and more than two-thirds of bookings.

Oil, Gas & Chemicals dominated the year with a broad range of major projects. We continued to stand out in the liquefied natural gas industry, completing a receiving terminal in Louisiana and beginning a new processing facility in Angola. Our work also included oil refinery expansions in Canada, India, and the United States; gas development projects in the Middle East; and pipeline projects, including one that will dramatically increase natural gas production in India, and another that will transport crude oil from Canada's oil sands to U.S. refineries in the Midwest and South.

Last year Bechtel National maintained its role as a top service provider to the U.S. government. We helped cut costs and increase efficiency at Los Alamos National Laboratory in New Mexico and Lawrence Livermore



National Laboratory in California, which are managed by teams led by Bechtel and the University of California. We are working to eliminate chemical weapons stockpiles at defense sites in Colorado and Kentucky. We made progress on a massive facility to treat hazardous waste at a former nuclear site in Washington state. In September, we won contracts to operate atomic laboratories in New York and Pennsylvania.

Our Civil unit had another solid year, highlighted by the completion of major work on the West Coast Route Modernization project in the UK. In December, expanded service added 60,000 seats per day on the busy line, which stretches from London to Glasgow. We also are renovating three historic lines of the London Underground in a project that has met all its milestones so far. Construction progressed on important highway projects in Albania and Romania aimed at boosting economic growth and tourism.

### **Business Review**

In Qatar, a new airport is taking shape that will be a transportation hub for the region. In the United States, we are developing a much-needed rail extension in the Washington, D.C., area.

In 2008, we settled state and federal legal claims related to the Central Artery/Tunnel project in Boston. Completed in 2006, the massive highway renovation has dramatically eased traffic in what was one of the most congested cities in the United States.

Rising demand for copper and other industrial metals drove strong performance by our Mining & Metals unit in 2008. Important projects included several copper mine expansions in the Chilean Andes: our fourth project in a decade at Los Pelambres; a job to double capacity at Los Bronces; and expansion of an underground concentrator at Andina. We also remained strong in the aluminum industry, completing a major smelter in Oman and expanding an alumina refinery that we originally built, in Australia.

Our Power business unit concentrated on a number of U.S. projects. A coal-fired plant now under construction in Illinois will be among the cleanest in the United States. We also signed a contract for a new plant in Indiana designed with clean-coal technology that dramatically reduces emissions. On the nuclear side, we continued to help utilities extend the lives of existing plants by replacing aging components, and we are leading a project to complete a reactor at Watts Bar Nuclear Plant in Tennessee, more than 20 years after initial construction was halted. Last year we also launched an initiative to explore emerging opportunities in alternative energy, including wind and solar power.

We won an important new communications project in a tough market last year when Cox Communications asked us to provide services in the development and deployment of its new wireless service for business and consumers. We also continued to work on a nationwide upgrade of wireless voice and data services for AT&T. In the UK, we are helping a major communications infrastructure company make the transition from analog to digital broadcasting.

In the following pages you'll read about projects in 2008 that exemplified our distinguished customers, our work for them, and us.



With projects in some 50 countries, we are a global choice for engineering and construction.

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| Our Work |



Bechtel comprises global business units that together cover most major industries. Bechtel National provides services to the U.S. government for defense, space, demilitarization, energy management, and environmental work. The Civil unit—which traces its work to the company's beginning in 1898—builds rail systems, roads, bridges, airports, and ports. Mining & Metals works for customers in ferrous, nonferrous, precious, and light metals, as well as industrial materials. Oil, Gas & Chemicals builds oil, gas, petrochemical, LNG, and industrial facilities, and pipelines. Power has more than half a century of experience in electric generation using fossil and nuclear fuels, and services for existing plants. Power also manages our communications business, which designs and builds wireless and other communications infrastructure.

#### Texas

#### **Port Arthur Refinery Expansion**

More than 100 years after the first U.S. oil boom, one of the original refineries from that era is undergoing a major expansion to help meet the energy needs of a new century. In Port Arthur on the Texas Gulf Coast, a joint venture of Bechtel and Jacobs Engineering Group is more than doubling the capacity of the refinery opened by Texaco in 1903 and currently owned by Motiva Enterprises LLC.

Set for completion in 2010, the expansion will increase capacity of the refinery from 275,000 barrels per day to more than 600,000 barrels— making it the largest refinery in the United States. The project is truly gigantic, requiring 1,800 pieces of equipment, including a crude column 87 meters high and 9 meters in diameter weighing more than 900 metric tons empty. Also needed: nearly 49,000 metric tons of structural steel, enough to build an aircraft carrier, and nearly 200,000 cubic meters of concrete, enough to cover a football field to a height of 45 meters. Not surprisingly, the expansion of Motiva's Port Arthur refinery is the largest private capital investment in Texas history.

#### Chile

#### Los Pelambres Copper Mine Expansion

Starting in the late 1990s, Bechtel undertook several large-scale mining projects in South America, at remote locations high in the Andes of Chile and Peru. One such project was the Los Pelambres copper mine north of Santiago, Chile, which the company built between 1996 and 1999. In a textbook case of good work leading to more work, the customer asked Bechtel to return for three expansion projects.

Last year, work began on the latest project at Los Pelambres, an expansion

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Our Work

A pair of Piccadilly line trains rest in Acton Town station, part of the project to renovate three historic lines of the London Underground.

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designed to increase the output of the mine's copper concentrator by an additional 20 percent. There are two work sites: the mine area and primary crusher at an elevation of over 3,000 meters, and the concentrator at 1,600 meters. A high-speed conveyor in a 14-kilometer tunnel transports ore from the crusher to the concentrator. The mountainous terrain and high altitude present interesting challenges. For instance, finding enough level ground to store all the equipment and material needed for the project. The answer: create "laydown" areas up to 14 kilometers away from the mine, and arrange everything in sequence according to when it will be needed.

#### Canada/United States

#### **Keystone** Pipeline

Pipelines are in Bechtel's DNA. Early pipeline projects in the Middle East, Canada, and the United States helped define Bechtel's ability to work in some of the world's most remote locations. In recent years, pipeline work in the marshes of Thailand and the Sahara reinforced our reputation. So it was no surprise when TransCanada and ConocoPhillips chose Bechtel to help build an ambitious pipeline system to bring crude oil from Canada to the United States.

The system will comprise the Keystone Pipeline, which will carry oil from Hardisty, Alberta, to refineries in Illinois and Oklahoma, and an expansion that will add capacity to the first pipeline and extend it to refineries on the Texas Gulf Coast. When the entire project is complete in 2012, the first 3,457-kilometer pipeline and the 2,742-kilometer expansion will have the ability to transport more than 1 million barrels per



day of crude oil. With additional pumping facilities, the system could be further expanded to transport 1.5 million barrels per day.

#### California

#### Lawrence Livermore National Laboratory

Bechtel and the University of California lead teams that manage and operate two of the nation's premier research institutions: Los Alamos National Laboratory in New Mexico and Lawrence Livermore National Laboratory in California. In addition to defense work, the labs engage in a wide range of scientific study. One of the most exciting developments is the National Ignition Facility at Livermore (NIF).

When it goes into full operation in 2009, the NIF will be the world's largest laser. By focusing 192 intense beams on a target of hydrogen fuel the size of a small pea, it will fuse the hydrogen atoms' nuclei, producing conditions found only in the cores of stars and nuclear weapons. The facility will help maintain the U.S. nuclear stockpile. It also could open the door to self-sustaining fusion, in which more energy is released than is needed

to initiate the fusion reaction. A fusion power plant would produce no greenhouse gas emissions, operate continuously to meet demand, and produce shorter-lived and less-hazardous radioactive byproducts than current fission-based nuclear plants.

#### United Kingdom

#### London Underground Modernization

When a Bechtel consortium teamed with London Underground in 2002 to upgrade and maintain the Jubilee, Northern, and Piccadilly lines, it was one of the biggest publicprivate partnerships ever undertaken. It also has been one of the most successful. Six years into a 30-year contract, the Tube Lines consortium has delivered every major milestone on schedule.

As of December 2008, achievements included upgrading 60 stations, renovating more than 130 escalators, and replacing or refurbishing nearly 100 kilometers of track. In addition to new finishes, the stations now have more closed-circuit TV cameras and improved public address systems for passenger safety, additional information boards, and increased seating. All Jubilee line trains are now fitted with new signaling equipment as part of a challenging upgrade that will make travel faster and safer. Just as remarkable, although much less noticeable, is the way Tube Lines has carried out sensitive maintenance without disrupting service—by doing most of the work between 12:30 a.m. and 4 a.m., when trains aren't running. The commitment to maintaining a first-rate system has resulted in trains that are grafitti-free, and ridership has increased substantially.



Our Work

Deputy Project Manager Doug Omichinski checks construction progress at the Pueblo Chemical Agent-Destruction project.

#### Tennessee

#### Watts Bar Unit 2 Completion

Unit 2 of Watts Bar Nuclear Plant in Tennessee was about two-thirds complete in 1988 when construction was halted because of a projected drop in electricity demand. Nearly two decades later in 2007, with demand again on the rise, TVA announced plans to complete the facility. To lead the work, it chose Bechtel, which had just finished its role in the successful restart of TVA's Browns Ferry Unit 1 in Alabama.

When completed in 2012, Watts Bar Unit 2 will add about 1,200 megawatts of power to the TVA system, enough to serve 650,000 homes. The project will meet all current engineering and safety standards. Unit 2 will be completed as originally designed, while incorporating modifications made to Watts Bar's Unit 1 reactor, which has been operating since 1996. The new project continues Bechtel's history of leadership in commercial nuclear power stretching back over half a century. We have provided engineering, construction, and/or management services at 88 of the 104 operating U.S. nuclear units and on more than 150 units worldwide.

#### Oman

#### **Sohar Aluminum Smelter**

Bechtel strengthened its leadership in the aluminum industry with a number of major smelter projects in the first years of the new century. Coming off its successful completion of the Alba Line 5 aluminum smelter in Bahrain, the company was asked to build a large smelter from the ground up in nearby Oman, where the government is intent on diversifying its economy.

Sohar was completed on time and within budget, producing its first hot metal in June 2008. Boasting the world's longest pot line—with 360



pots—the smelter can produce 350,000 metric tons of aluminum per year. The project also included construction of a carbon plant, a metal casting facility, and port facilities for storage and shipping. However, what gave everyone involved the most pride was the program that trained some 750 Omanis for work on the project as electricians, carpenters, and other skilled craftspeople. Trainees also learned to use computers and studied English, helping them prepare for future careers. Such training has become a staple of Bechtel's sustainability effort on projects like Sohar.

#### Illinois

#### **Prairie State Energy Campus**

Bechtel is performing engineering, procurement, and construction for a major coalfired power plant in southern Illinois. Prairie State Generating Company, LLC, the owner, wanted the new Prairie State Energy Campus to generate power as efficiently and cleanly as possible. And it will: The 1,600-megawatt, supercritical plant, now under

Our Work

construction, will be the cleanest coal plant in the state, and one of the cleanest in the country.

Powered by Illinois coal from an on-site mine, Prairie State represents a new generation of cleaner coal plants. It will combine highly efficient pulverized coal and supercritical technologies with advanced emission controls to minimize air pollution. Two advanced particulate removal systems will eliminate 99.9 percent of particulates, scrubbers will remove 98 percent of the flue gas's sulfur dioxide, and a selective catalytic reduction system will reduce nitrous oxides to state-of-the-art levels. When Prairie State comes online, its emission rates will be approximately onefifth those of other coal plants. Its carbon dioxide emission rate will be approximately 15 percent lower than the typical U.S. coal plant.

#### India

#### Jamnagar Refinery Complex Expansion

In 2000, on India's northwest coast, Bechtel completed construction of the largest refinery and petrochemicals complex ever built from the ground up. That was just the beginning. Subsequently, Jamnagar's capacity was increased from 450,000 barrels per day to 650,000, and in 2005, work began on a second refinery adjacent to the first, with Bechtel providing project management and consulting.

Scheduled for completion early in 2009, the second refinery effectively doubles Jamnagar's capacity to 1.2 million barrels per day, making it the largest oil-refining operation in the world. The project itself is huge: Jamnagar now covers an area larger than London, and at peak construction had 70,000 workers. To keep such a complex undertaking on schedule,



Our Work

New pipe awaits installation in North Dakota on the Keystone Pipeline project.

| Our Work |

Bechtel created a "virtual company," with 2,800 professionals spread across 19 offices in five countries. An advanced network used the Internet to link engineers in multiple locations, letting them collaborate on designs in real time. The virtual organization also was instrumental in procuring goods and services from far-flung suppliers at the best possible prices.

#### Colorado

#### Pueblo Chemical Agent-Destruction Pilot Plant

Several of Bechtel's most notable projects for the U.S. government in recent years have involved the elimination of chemical weapons at defense sites—weapons that were manufactured during and after World War II but never used. Today, we are working on projects to destroy stockpiles in Kentucky and Colorado.

The Pueblo Chemical Depot in Colorado stores 2,369 metric tons of mustard agent in projectiles and cartridges. In 2002, the Department of Defense chose a Bechtel-led team to design, construct, systemize, pilot test, operate, and close the Pueblo Chemical Agent-Destruction Pilot Plant. Destroying live weapons, even if they are half a century old, is a complex process. First, robots remove the explosives from the weapons. Then the mustard agent is washed out with high-pressure water. The mustard agent is neutralized with caustic solution and hot water, and the byproduct of that process, hydrolysate, is treated with microbes that turn it into harmless biosludge which is sent to a disposal facility. Not surprisingly, workers on the project receive extraordinary training to keep the project and its people safe.



Our Work

## United States Wireless Network Deployment

For more than three decades, Bechtel has helped leading carriers around the world establish and build out wired and wireless networks. So it was no surprise when multiservice broadband giant Cox Communications enlisted us to help deploy its wireless network.

As part of a first wave of deployment, Bechtel will provide project management services for all aspects of network design, site acquisition, construction, and network equipment installation in selected U.S. markets. Cox and Bechtel together will ensure that vendors, suppliers, and contractors support the goals of the wireless program. The rollout will start with 3G technology and migrate to 4G for even faster data transfer speeds—enabling consumers to enjoy and share multimedia and making it easier for business users to access information and conduct complex transactions. Atlanta-based Cox is the third-largest U.S. cable company, with more than 6 million residential and business customers, including 3.8 million Internet customers and 2.5 million telephone customers in two dozen markets nationwide.

#### Albania

#### **Albanian Motorway**

Following the end of the Cold War, newly independent countries in Eastern Europe faced the daunting task of modernizing their infrastructure after years of neglect. Roads in much of the region were poor, making commerce difficult and discouraging tourism. That's changing, however. A Bechtel-built motorway has boosted the economy of Croatia, and we are constructing new highways in Romania and Albania.



In Albania, we are nearing completion of a 57-kilometer four-lane highway that will stretch from the town of Rreshen, in the heart of the country, up to the northeastern village of Kalimash. The project, in a rocky, mountainous region, includes 27 bridges and a 5.7-kilometer twinbore tunnel—one of the longest in the Balkans. It will be the central leg of a 170-kilometer highway traversing the country from the Adriatic Sea up to the northeastern border with Kosovo. Designed to handle traffic at 120 kilometers per hour, it will cut travel time across the route from six to two hours, boosting coastal trade and northeast tourism.

## Global Highlights

Roll cursor over title or map dot to see information about the project

- Albanian Motorway
- Analog-to-Digital Transition
- Angola LNG Plant
- Chemical Weapons Elimination
- Elm Road Power Plant
- Guinea Alumina Refinery
- Hanford Waste Treatment Plant
- Jamnagar Refinery
- Jubail
- KGD6 Gas Development
- Khursaniyah Gas Plant

- Kwajalein Test Range
- Lawrence Livermore National Laboratory
- London Underground
- Los Alamos National Laboratory
- Los Bronces Mine
- Los Pelambres Mine
- Metrorail Extension
- Missile Defense System
- Motiva Refinery
- Naval Nuclear Propulsion

- New Doha International Airport
- Oak Ridge
- OGD III and AGD II Gas Processing
- Olympic Dam Expansion
- Pascagoula Refinery
- PGESCO Power Program
- Port Waratah Coal Terminal
- Prairie State Power Plant
- Romanian Motorway
- Sabine Pass LNG Terminal
- Sammis Power Plant

#### Sakhalin Gas Processing

- Scotford Upgrader
- Sohar Smelter
- SonaHess Gas Development
- Thai Oil Paraxylene
- Watts Bar Completion
- West Coast Route Modernization
- Wireless Deployment
- Worsley Refinery Expansion
- Yarwun 2 Refinery
- Yucca Mountain Repository





Our 44,000 employees are committed to quality, safety, sustainability, innovation, and leadership.



Our Way |



esigning and constructing a large project seems straightforward enough. You need good engineers and competent builders, plus the right equipment and materials. If only it were that easy. Delivering multibillion-dollar projects worldwide on schedule and within budget requires global resources, skill, knowledge, and experience that only a company like Bechtel has. We combine these attributes with an assurance of quality, safety, sustainability, innovation, and unmatched commitment to our customers. It's the way we do business.

> | Our Way | **2**

#### QUALITY

Getting It Right the First Time

We define quality as meeting customer expectations by efficiently delivering all requirements the first time. This is important because if something isn't designed or built correctly, the rework to correct it can increase costs and put a project behind schedule. So we put a premium on making sure that every aspect of a project is done right, from early engineering and ground works through construction and startup.

In 2008, Bechtel became an organizational member of the American Society for Quality (ASQ), reaffirming our long-standing commitment to quality and making a wealth of information available to all Bechtel employees. As a nonprofit organization dedicated to making quality a global priority, an organizational imperative, and a personal ethic, ASQ is a resource for quality concepts, technology, and tools.

We also continued to refine our approach to Six Sigma, incorporating value-driven "lean" practices to become even more efficient in our projects and our core business practices.

#### SAFETY

#### **Always the Top Priority**

Working safely adds value to a project, minimizing time lost because of accidents and lowering insurance costs. Safety is more than just a business imperative at Bechtel. Our most important assets are our people—from project managers to craft workers and support personnel—and keeping



Our Way | **3** 

them safe is our highest priority. At every Bechtel project, workers get training to familiarize themselves with Bechtel's safety policies and practices, the proper user of personal safety equipment, and how to spot safety hazards before they become problems. Workers are empowered to look after the safety of colleagues, and anyone on a job site can stop work to resolve a safety issue.

Our goal is zero accidents, and while we are not there yet, nearly 90 percent of our projects in 2008 finished the year without a lost-time accident. Moreover, 55 of our projects each achieved more than 1 million safe work hours.

#### SUSTAINABILITY

**Doing Our Part** 

Bechtel helps customers meet increasingly sophisticated sustainability goals, and we are incorporating our vision of sustainability throughout our business. In 2008, we continued our efforts to enhance the skills and capabilities of local people and companies so they can benefit both on and beyond our projects. For example, we began a program to train and hire 3,500 local workers on a liquefied natural gas project in Angola, and we initiated an apprentice program to fast-track indigenous workers on Rio Tinto Alcan's Yarwun 2 alumina project in Australia.

We support customers in reducing emissions that contribute to global warming by implementing state-of-the-art technology at new power plants, refineries, and other industrial projects, and through sustainable



design and construction. In addition, we are doing our part by working to minimize our own carbon footprint, reducing emissions at our offices and adopting hybrid vehicles for driving-intensive work.

#### INNOVATION

#### **Keys to the Future**

Although Bechtel does not own much process technology, we are a technology company, and we know how to use innovation to benefit our customers. Our Web-based auctions have become an industry model for global procurement, and last year we launched a new Internet portal that makes it easier to share information with other companies involved in building a big project.

We also have incorporated advanced technology into our engineering, with computer simulations that enable us to see what a project will look like before it is built. Not only does this give customers a view into their projects, it also helps us fine-tune designs to avoid errors and costly rework.

Our Way



Bechtel is a leader in round-the-clock engineering, which helps speed design work on major projects. We have engineering offices on five continents, all networked so that engineers in one office can hand off work at the end of the day to someone else where the sun is rising. For Bechtel, the 24/7 approach to engineering is becoming a routine way of managing workflow on major projects.

#### LEADERSHIP

Changing Model for a Changing World

Bechtel's leaders have always been a key to our success. Our customers, partners, and employees see leadership as a differentiator for our company.

Under Chairman and Chief Executive Officer Riley Bechtel, we have moved away from the hierarchical leadership of the past to become a more participative-based organization—one that engages employees and values their experience and perspectives.

Today, Bechtel leaders guide the most internationally diverse workforce in the company's history. To meet that challenge, we have developed a new Bechtel Leadership Model, which puts a premium on character, knowledge, and action, and encourages leaders to rely less on formal authority and more on influence gained through earned respect.

We also continue to put a premium on teamwork. Stephen Bechtel Jr. was one of the first business leaders to recognize the value of taking a team approach to large and complex projects, and that philosophy still works for us today.

## **Our Vision + Values**

WITH MORE THAN A CENTURY OF EXPERIENCE, WE KNOW WHAT IT TAKES TO BE A RESPONSIBLE COMPANY.

#### **Our Vision**

To be the world's premier engineering, construction, and project management company.

**Customers and partners will see us as integral to their success.** We will anticipate their needs and deliver on every commitment we make.

**People will be proud to work at Bechtel.** We will create opportunities to achieve the extraordinary, and we will reward success.

**Communities will regard us as responsible—and responsive.** We will integrate global and local perspectives, promote sound management of resources, and contribute to a better quality of life.

#### **Our Values**

Building on a family heritage that spans more than 100 years, we will continue to be privately owned by active management and guided by firmly held values.

**Ethics.** Uncompromising integrity, honesty, and fairness are the heart of our company.

**Excellence.** We set high standards. We apply advanced technology, and we continually innovate and improve. We thrive on challenge and accomplishment.

**Fair return.** We earn a return that fairly rewards the value we deliver.

**Mutual Respect.** We work by our Bechtel Covenants, which encourage openness, teamwork, and trust. We value an inclusive culture based on diverse backgrounds, experience, and views.

**Safety.** Zero accidents is our unwavering goal—people's lives depend on it.

**Sustainability.** We plan and act for the future—for the long-term good of our company, our customers, and our world.

Cradled in the Chilean Andes, the Los Pelambres copper expansion is one of several mining projects in South America.

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| Our Vision + Values | **2** 

## **Our Leadership**

**Riley Bechtel** CHAIRMAN & CHIEF EXECUTIVE OFFICER

**Bill Dudley** PRESIDENT & CHIEF OPERATING OFFICER

Adrian Zaccaria VICE CHAIRMAN

Peter Dawson CHIEF FINANCIAL OFFICER

Judith Miller GENERAL COUNSEL

#### **Business Units**

BECHTEL SYSTEMS & INFRASTRUCTURE, INC.

Scott Ogilvie PRESIDENT

David Walker BECHTEL NATIONAL

CIVIL

Mike Adams PRESIDENT

Michael Bailey

Tom McCarthy RAIL

Carl Strock

MINING & METALS

Andy Greig PRESIDENT

OIL, GAS & CHEMICALS

Jim Jackson PRESIDENT

Amos Avidan

**Jim Illich** DOWNSTREAM & PIPELINE

POWER

Jack Futcher PRESIDENT

Ian Copeland NEW TECHNOLOGY & COMMUNICATIONS

Lee Lushbaugh FOSSIL POWER

Carl Rau NUCLEAR POWER

#### **EPC Functional Management**

John MacDonald ENGINEERING, PROCUREMENT & CONSTRUCTION FUNCTIONS

**Don Armstrong** PROJECT CONTROLS

Rick Astleford

Kevin Berg ENVIRONMENTAL, SAFETY & HEALTH SERVICES

Tony Indico STARTUP

Walker Kimball CONSTRUCTION

Dick McIlhattan PROJECT MANAGEMENT

Tom Patterson ENGINEERING

Eli Smith CONTRACTS & PROCUREMENT

#### **Other Management**

Jock Covey CORPORATE AFFAIRS

Eric Grenfell BECHTEL ENTERPRISES

Susan Kubanis SUSTAINABILITY SERVICES

John MacDonald HUMAN RESOURCES

Lorne Parker RISK MANAGEMENT

Geir Ramleth INFORMATION SYSTEMS & TECHNOLOGY

Anette Sparks CONTROLLER & BUSINESS SERVICES Board Of Directors, Bechtel Group, Inc.

Mike Adams PRESIDENT, CIVIL

Riley Bechtel CHAIRMAN & CHIEF EXECUTIVE OFFICER

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Peter Dawson CHIEF FINANCIAL OFFICER

Bill Dudley PRESIDENT & CHIEF OPERATING OFFICER

Bill Haynes SENIOR COUNSELOR

Jude Laspa DIRECTOR

Judith Miller GENERAL COUNSEL

Nick Moore SENIOR COUNSELOR

Scott Ogilvie PRESIDENT, BECHTEL SYSTEMS & INFRASTRUCTURE, INC.

Adrian Zaccaria VICE CHAIRMAN



Major offices in

BRISBANE

CALGARY

FREDERICK, MD.

HOUSTON

LONDON

MONTREAL

NEW DELHI

SAN FRANCISCO

SANTIAGO

SHANGHAI

TAIPEI

Partial list as of March 2009