I would try to build a company providing every kind of engineering service in every corner of the world.

Dr. Louis Berger
Founder

+60
YEARS OF EXPERIENCE

1953
FOUNDED IN

6000
PROFESSIONALS

$1B
BILLION ANNUAL REVENUE

TOP 20
ENGINEERING NEWS-RECORD

6
PRESENCE ON SIX CONTINENTS
Louis Berger

Louis Berger is a multidisciplinary corporation ranked among the top 20 professional services firms in the world. Founded in 1953, Louis Berger operates on every continent and has permanent offices in more than 50 countries, representing nearly 6,000 engineers, economists, environmental specialists, planners, managers and technicians.

Louis Berger helps clients solve their most complex challenges by uniquely adapting to local situations. The company has become a trusted partner for national, state and local government agencies; multilateral institutions; and public and private clients worldwide. Louis Berger has designed hundreds of thousands of kilometers of roads, railways and bridges, as well as numerous airports, ports, buildings, dams, water supply systems and other infrastructure in more than 140 countries.

We focus on client needs to deliver quality, safe, financially successful projects with integrity and in alignment with our company promise to provide Solutions for a better world.
**MEXICO**

- Expertise developing value engineering solutions for design-build and public private partnership projects
- Renewable energy experience includes +700 MW solar and wind farms
- Successful delivery of traffic studies and transportation planning services

**PANAMA**

- First project completed in 1961
- Headquarters established in 2005
- +100 professionals
- Extensive experience in transportation, water and wastewater
- World’s only engineering company to have worked on all three bridges crossing the Panama Canal

**PERU**

- Permanent office in Lima since 1994
- Leading capabilities in transportation and in the design and construction of water systems
- Significant mining sector expertise

**CHILE**

- Strategic hub opened in 2004
- +150 engineers and specialists
- Expertise in transportation engineering, including highways and bridges
- Recognized engineering design and construction supervision services leader
- Provided technical support for Chacao Bridge, Latin America’s longest suspension bridge
COLOMBIA

- First project completed in 1995
- Permanent office in Bogota
- Experience in most critical infrastructure, water and sanitation programs
- Included in Unique Register of Proponents of the Bogota Chamber of Commerce
Louis Berger’s longstanding presence and roster of projects in Latin America have established the company as a leading infrastructure and development firm in the region. Louis Berger leverages the know-how of its engineers, architects, scientists and planners to deliver complex projects on time and on budget in the following markets:

- Transportation
- Water
- Environment
- Economic and Institutional Development
- Agriculture
- Buildings and Facilities
- Power and Energy
- Mining and Minerals
- Defense and Security
MARKETS AND SERVICES

Louis Berger offers a single source in Latin America for a range of services required for successful program and project delivery, including design, program and construction management.

Backed by capabilities in cost-schedule controls, finance and budget management, cost estimating and information management (IT/MIS), the company operates across 10 major technical service and sub-service areas, including:

- Architecture
- Capacity Building and Technical Assistance
- Heritage Resource Management
- Economics and Financial Services
- Emergency and Disaster Management
- Engineering
- Environmental Services
- Operations and Maintenance
- Planning
- Program and Construction Management
1960s
Louis Berger wins its first projects in Argentina, Nicaragua, Honduras, the Dominican Republic and Guyana.

1970s
Louis Berger expands across the region, delivering engineering services for the transportation, water and environmental market sectors.

1980s
Louis Berger undertakes a wider range of large scale infrastructure projects, including critical infrastructure programs in developing countries.
**1990s**
Louis Berger’s market sectors expand to include renewable energy, mining and institutional and economic development

**2000s**
Louis Berger establishes regional headquarters in Panama and opens strategic hubs in Chile, Mexico, Colombia and Peru, with representatives and local offices in other countries where ongoing projects

**2010s**
Louis Berger is ranked by clients and industry influencers as one of Latin America’s leading infrastructure and development firms
Latin America & Caribbean

Louis Berger has worked in Latin America since 1960, beginning with projects in Panama, Brazil, Chile, Mexico, Colombia, Peru, the Dominican Republic, Nicaragua, Honduras, Guyana and Argentina. Since then, the company has successfully completed more than 700 projects, working in every independent country in the region.

Louis Berger’s Latin America and Caribbean operations are headquartered in Panama, with permanent offices in Chile, Colombia, Mexico and Peru. In addition, the company has representatives and maintains local offices in countries where projects are underway.

Our long-established presence in the region, along with the significant number of projects, have made Louis Berger a leading engineering, services and consulting firm in Latin America.

A sample of our signature projects in the region include the design and construction supervision of the third bridge over the Panama Canal; the rehabilitation of the international port in Port-au-Prince, Haiti; management of the Panama City Metro Line 2; design and consulting for the longest suspension bridge in Latin America; technical support for the Chacao Bridge in Chile; and construction supervision for the new international airport in Quito, Ecuador.
Louis Berger developed its first project in Panama in 1981 and established its regional headquarters there in 2005 due to the country’s strategic location. Today, more than 100 engineers and experts develop infrastructure solutions for government and commercial clients across all our major markets.
Louis Berger has a long history of partnering with the Panamanian government to develop the country’s transportation network. The company has provided utilities relocation engineering, surveys and mapping, project management and construction supervision services for the first and second lines of the Panama metro system. Moreover, Louis Berger is the only engineering company in the world to have worked on all three bridges crossing the Panama Canal — the Atlantic Bridge, the Bridge of the Americas and the Centennial Bridge — delivering design, construction supervision, inspection, technical assistance and advisory services.

Louis Berger has also partnered with private sector companies on major infrastructure development projects. To ease congestion and refresh Panama City’s image, the company provided concept, design and quality control services for the $345 million Cinta Costera 3 project, winner of Engineering News-Record’s 2015 Global Best Project in Roads and Highways award. Louis Berger also was responsible for the final design, traffic studies and land survey for the Santiago-Vigui road and the engineering design services for the Cincuentenario Avenue.

Louis Berger is the leading water and wastewater engineering company in Panama. The company has participated in the country’s most ambitious water programs, including the Water Supply Works-Group 2 Eastern Main and the water and sanitation works in David, Chiriqui and Santiago de Veraguas. In addition, for the national water agency’s investment program and the Bay of Panama sanitation program, Louis Berger provided program management, construction supervision and technical assistance services.

Louis Berger also has significant capabilities in the ports and maritime facilities sector. In 2002, the company helped the Panama Ports Company develop a design-build program to accelerate terminal development at the Port of Balboa.

Finally, the company has had notable successes developing projects in the power and energy sector, completing an environmental impact assessment, feasibility study and resettlement plan for the Changuinola II hydroelectric plant.
Due to the region’s expansive growth, Louis Berger opened offices in leading Latin American countries like Chile, where the company inaugurated its first office in Santiago in 2004.
CHILE

With a team of more than 120 engineers and experts, Louis Berger is staffed to address Chile’s major engineering, institutional and economic development, and renewable energy needs now and into the future. Louis Berger’s client roster includes the Ministries of Public Works; Housing and Urban Development; Planning and Economy, Development and Reconstruction and the Secretary of Transportation. The company also is a trusted engineering consultant to the country’s top firms and other private sector actors.

Registered in the superior first categories, Louis Berger is approved by the Ministry of Public Works to design and deliver construction supervision services for roads, bridges and airports as well as tunnels, water and environment.

In 2009, an 8.8-magnitude earthquake triggered a tsunami that devastated several coastal towns in south-central Chile and damaged the Talcahuano port. Chile’s State Railways Company tasked Louis Berger with reconstruction design and construction supervision of several critical infrastructure projects.

Beyond reconstruction in Chile, Louis Berger’s project roster includes the design of the Temuco and Isla Teja Bridges and the Chacao Viaduct, the longest suspension bridge in Latin America. The company also has earned a reputation in alternative project delivery, especially design-build and public-private partnerships, focused on critical infrastructure, such as the Americo Vespucio Oriente Highway for the Ministry of Public Works and the Quilicura Major Interchange for Autopista Central.

The company’s other engineering projects span aviation, such as the Arturo Merino Benitez International Airport, as well as water and environment, and renewable energy, including the design and construction supervision of the Monte Redondo Wind Farm.
In 2010, Louis Berger started civil engineering and renewable energy projects from its Mexico City office. Since then, the company has opened offices in Puebla and Guadalajara to respond to additional growth opportunities.
In Mexico, Louis Berger is a trusted engineering consultant to public and private sector clients, including the General Directorate of Highways and Banobras.

The company, long recognized in Mexico for its dependable and affordable alternative energy solutions, is responsible for more than 20 major projects worldwide. Collectively, these projects generate 1,300 megawatts of power and include wind farms throughout Latin America. In Mexico alone, Louis Berger has developed three 365 megawatt wind farms located in southeast Puebla, a 100 megawatt wind farm in Chiapas and the 400 megawatt Istmeño wind farm, among others.

In the civil engineering field, Louis Berger has successfully managed projects in the transportation and building and facilities sectors. The company’s portfolio includes advisory and supervision services for the Guadalajara-Colima Highway, engineering services for the Urban North Highway and technical supervision services for the Veracruz tower.

In transportation planning, the company has completed traffic and demand studies for the continued development of the Aunorte and Supervia Poniente Highways located within the Mexico City urban network, one of the most congested and complex existing networks.

Finally, Louis Berger has earned a solid reputation for engineering services in the ports and maritime market sector, where its projects have spanned the Puerta de Lazaro Cardenas Roll-on/Roll-off Terminal, Berths 12 and 13 Pile Repairs, Manzanillo Wharf and Container Yard Repairs, Manzanillo Berth 12 Cathodic Protection and Manzanillo Container Terminal Improvements.
In 1995, Louis Berger started its first project in Colombia. From there, the company has become a trusted infrastructure and development partner to public sector, private sector and multilateral institutions working in the country.
COLOMBIA

Louis Berger has successfully managed dozens of projects in Colombia, collectively valued at over 60 million dollars, across numerous sectors, including transportation, airports, water and environment, agriculture, mining, industry, energy and economic and institutional development. The company's service offering in the country spans engineering, capacity building and technical assistance, economic and financial services, management of emergencies and natural disasters, environmental services, planning, advisory services and program and construction management.

With a permanent office in Bogota housing a team of engineers and technical specialists, Louis Berger has participated in 13 Colombian projects, including technical, legal and financial consultant for the first metro line in Bogota. In addition, the company has provided engineering design services for the Coal Export port in Barranquilla, has completed studies and final design work for the Rio Magdalena 2 Expressway, has performed design review for the Lebrija-Barranca highway and has completed an environmental impact study for La Montana highway.

The firm’s project roster also includes the Neiva water and sanitation master plan, the structuring and implementation of the concession for the Alfonso Bonilla Aragon Airport in Palmira and the program management review for the El Dorado International Airport expansion project, among others.

Recently, the company was awarded the contract to develop the final design, perform an environmental impact assessment and deliver technical support during the construction phase of the Cundinamarca Corridor public-private partnership project in Bogota. The project is part of the Colombian National Infrastructure Agency’s “Fourth Generation of Concessions,” an initiative to help the country develop rapidly, become more competitive to meet global trade challenges, create more jobs and equip Colombia with more high quality roads.

Louis Berger is registered in the Unique Register of Proponents of the Chamber of Commerce of Bogota accrediting its experience and expertise in all areas of engineering and development.
Louis Berger’s presence in Peru dates back to 1994 when the Ministry of Transportation awarded the firm a maintenance supervision contract for the Panamerican highway.
PERU

Louis Berger has successfully managed transportation, airport, water and environment, agriculture, mining, energy and economic and institutional development market sectors. The company’s service offering in the country spans engineering, capacity building and technical assistance, economic and financial services, management of emergencies and natural disasters, environmental services, planning, advisory services and program and construction management.

Louis Berger has developed engineering solutions for Peru’s most challenging infrastructure projects. The company supervised the rehabilitation of the Cuzco-Juliaca-Desaguadero highway, provided advisory services for the Southern Interoceanic corridor and completed final studies for the rehabilitation of El Nino-affected roads and an integral transportation study for the interconnection between Lima and Callao.

Through projects developed for PRONASAR (National Program of Urban Sanitation) and the private-public agency SEDAPAL (Lima’s Potable Water and Sewerage Services), Louis Berger has contributed to public health and quality of life through the design and construction of new water and sewer systems as well as quality improvements to existing services.

Louis Berger also has contributed to the proper use of water and sustainable sanitation, adoption of better hygiene practices, improvements in the capabilities of communities and other organizations to manage, operate and maintain the systems, and implementation of necessary institutional framework and mechanisms for sustainability.

Louis Berger manages mining projects with a focus on waste management and environmental stewardship. When preparing closure plans for the Antamina Mine in Peru, Louis Berger assessed physical and geochemical stability for the open pit, waste dumps, tailings and low- and marginal-grade stockpiles areas.
THIRD PANAMA CANAL BRIDGE
PANAMA

Two bridges in Panama span the canal, but expansion of the world-renowned waterway involved the construction of a third bridge by 2016. The new bridge in Panama will link the key seaport of Colon to communities to the west of the canal.

Louis Berger, which participated in the design of the two existing Panama Canal bridges, was chosen to design the third bridge and access routes. The firm is working with the China Communications Construction Company/Highway Planning and Design Institute.

The new bridge will span the Atlantic Ocean entrance to the canal. It features a 1,050-meter dual carriageway, cable-stayed span. The 530-meter main span will be the longest concrete four-lane cable-stayed structure in the world. The east and west approach roads and viaducts will measure 2,031 meters in length. By linking the two regions of Panama, the new bridge is expected to boost tourism, stimulate the local economy and help generate future development.

PANAMA METRO LINE 1 AND 2
PANAMA

Louis Berger was appointed to provide engineering services for the first two lines. After developing the engineering design, surveys and cadaster services of Line 1. Louis Berger also was selected to supervise construction of Line 2.

The new 21-kilometer line is the second of four lines in the government’s plan to provide efficient, sustainable transport in metropolitan Panama City, an area of 1.2 million residents. The line also includes 16 stations along an elevated track alignment from an interchange with Line 1 at San Miguelito serving the districts of December 24, among others.

Once completed, the Panama Metro will have three lines in service, which will encircle Panama City. A commuter train will link the districts of Arraijan and Chorrera to downtown and a tram will run through the Coastal Beltway to the Old Town, improving the public transport system and quality of life for citizens.
PORT OF BALBOA
PANAMA

The Port of Balboa is situated at the Pacific entrance of the Panama Canal. The Panama Ports Company (PPC) operates the port, handling general and bulk cargo as well as container cargo transshipments. The OOC undertook an ambitious expansion program to transform the port into a major hub serving Pacific trade routes.

The PPC hired Louis Berger to craft an innovative design-build program to accelerate terminal development. The project included a new 450-meter-long berthing wharf and 35-hectare container yard. The development project required dredging, dyke construction, excavation of channels, civil works, as well as design and supervision of the associated power infrastructure.

Upon completion, the PPC more than doubled its throughput capacity. The port can now accommodate multiple post-Panamax ships at the dock and has 1,700 meters of quay, 22 super post-Panamax cranes, 57 rubber tired gantry cranes and a container capacity of over 4 million twenty-foot equivalent units annually.

COASTAL BELTWAY
PANAMA

Although a critical part of Panama’s urban road network, the Coastal Beltway has few points of access, amenities and green areas. Improving access to Panama City from the Bridge of the Americas would stimulate coastal development and allow residents in the neighborhoods of San Felipe, Santa Ana and El Chorrillo enjoy the city’s amenities.

The Coastal Beltway project consisted of two parts. The first was a marine viaduct around the Old Town that forms a narrow band suspended above the water. This part was installed to lessen congestion in central districts, by making it easier to head westwards out of Panama City. The second was a series of roundabouts and traffic-friendly improvements to the multi-lane road leading to Casco Viejo.

Louis Berger provided design, technical advice and quality control services for the $345 million project, which has helped transform the city by improving major axes and road infrastructure in urban areas.

In 2015, the project was awarded Engineering News-Record’s Global Best Project in Roads and Highways award.
IDAAN’S WATER PROGRAM
PANAMA

The Institute of Aqueducts and Sewers (IDAAN) developed an ambitious, environmentally-friendly water and wastewater management program that aimed to improve community health and welfare in Panama.

IDAAN selected Louis Berger to conduct a study prioritizing water and sanitation investments in small and medium-sized cities. The firm performed feasibility studies and final designs for the rehabilitation, improvement and expansion of drinking water transmission and distribution systems in the districts of La Chorrera and Arraiján.

The project provided 500,000 people with access to potable water and sewerage services, and involved the construction of almost 100 kilometers of pipelines and significant improvements to the system’s operations.

PANAMA BAY PROJECT
PANAMA

Less than 25 percent of the population in the western areas of Panama City is connected to the local sewerage system, which represents a threat to public health, local rivers and Panama Bay due to risk of contamination from untreated sewage.

The Project Coordination Unit within the Panamanian government has hired Louis Berger to provide project management, construction supervision and technical assistance services for the Panama Bay and City Sanitation Project—one of the most advanced and ambitious sanitation initiatives in Latin America.

Louis Berger is tasked with implementing plans for the collection and treatment of wastewater from Panama City, including proper waste disposal and wastewater management; promoting the responsible use of drinking water; and construction management at river easements. The company has been involved in every major stage of the sanitation initiative—completing basic studies, developing conceptual design alternatives and pre-sizing, and preparing budget, technical specifications and charge sheets for the final design and construction of the sanitation system.

Once complete, the project will result in a cleaner, healthier Panama City and Panama Bay.
TEMUCO BRIDGE
CHILE
As the communities of Temuco and Padre Las Casas have grown, their infrastructure has failed to keep pace, contributing to high levels of traffic congestion and increasingly long commute times between the two cities.
Louis Berger provided concept design, detailed design and construction supervision for a third bridge connecting Temuco and Padre Las Casas. The bridge is designed as an asymmetric cable-stayed structure that symbolizes the Mapuche legend about the Earth’s formation.
The bridge was part of a larger infrastructure development initiative that will substantially improve vehicular traffic between the two cities with 15 kilometers of new roads, two railway bridges, five roadway bridges, two urban parks and nine kilometers of cycle routes.
Beyond its promise to improve the quality of life for families traveling daily between Temuco and Padre Las Casas, the new bridge will also be a prominent local landmark.

CHANGUINOLA II HYDROELECTRIC DAM
PANAMA
Panama’s National Energy Agency and other relevant actors proposed the Changuinola II Hydroelectric dam to increase energy independence, promote sustainability and meet Panama’s rapidly growing energy needs.
Louis Berger has been selected to conduct a feasibility study and environmental impact assessment for the dam. The firm conducted topographic surveys; geological, geotechnical, hydraulic and hydrologic studies; economic and financial analyses for construction and operation; layouts for site infrastructure, including access roads, transmission lines and construction camps; and public outreach to affected communities.
The 166-meter-high dam will create a 19-square-kilometer reservoir to produce power for 90 consecutive days with an installed capacity of 214 megawatts.
Upon completion, the project will account for 15 percent of Panama’s hydropower capacity and nine percent of the country’s total electricity capacity. It will reduce Panama’s oil consumption by 1.5 million barrels annually and carbon dioxide emissions by 600,000 cubic tons per year.
CHILÓÉ BRIDGE
CHILE

The Chacao Channel bridge will link the island of Chiloé with mainland Chile across the Chacao Channel. Currently, the only way to reach Chiloé from the mainland is by ferry, which takes about 25 to 45 minutes. The bridge, also known as the Chiloé Bicentennial Bridge, is one of several projects intended to commemorate Chile's bicentennial.

Designed as a three-tower suspension bridge with two main spans, one 1,055 meters long and the other at 1,100 meters, the total length of the structure designed is 2.7 kilometers. The project is located in an earthquake prone area which constitutes a considerable technical challenge. Louis Berger was selected to provide technical advisory services to the Chilean Ministry of Public Works during the tender phase, including, seismic and aerodynamic analysis and evaluation.

Once completed, travel time to Chiloé will be reduced to less than three minutes. The suspension bridge will be the largest one of its kind in South America.

AMERICO VESPUCIO ORIENTE HIGHWAY
CHILE

The Americo Vespucio Oriente Highway from Av. El Salto to Príncipe de Gales in the Santiago metropolitan region is part of a dynamic program spearheaded by the Chilean government to improve the urban transport system in areas with heavy traffic, long travel times and poor safety record.

Louis Berger developed the tender project and the final design of this new 9.3-kilometer road that will reduce the travel time to and from the eastern sector of Santiago and alleviate traffic congestion. The project is divided into two parts:

The first includes the design of two express routes with three lanes in each direction. One leverages the existing platform of the current Pyramid decline, which runs on the surface, and the other is designed as a cut-and-cover tunnel. The second sector runs underground in a trench on two levels, both with three lanes in each direction.

The Americo Vespucio Oriente Highway will improve social conditions in surrounding communities, reduce travel time and environmental impacts, enhance safety and add new green areas.
CUNDINAMARCA CORRIDOR
COLOMBIA

To address urgent transportation needs, the Colombian government initiated the “Fourth Generation of Road Concessions” (4G) initiative to enhance mobility around the country. As part of 4G, the Cundinamarca corridor will provide an alternative route around Bogota.

Louis Berger was selected to provide final designs, an environmental impact assessment and technical support during the project’s construction phase.

Services included civil design works (alignment, utilities, traffic, drainage, lighting, irrigation, bridges, landscape, toll plazas, weight control stations and others) and pavement structural design for road construction.

This new corridor provides a north-south perimeter highway to the east of Bogota that will alleviate traffic congestion within Colombia’s capital city. The new corridor will not only increase mobility and reduce travel time between the cities located to the north and south of Bogota, but also between Bogota and Los Llanos, thereby contributing to the region’s tourism and agricultural potential. The routes included in the project are 154 kilometers in length and cross the department of Cundinamarca.

MONTE REDONDO WIND FARM
CHILE

Enhol, a large private energy provider in Chile, required a partner to manage the turnkey delivery and operations for a wind park along the coastal zone of Limari province. After the completion of detailed financial and engineering feasibility studies demonstrating the project’s viability, Enhol required a partner to oversee design, construction and overall operations of the facilities.

Enhol hired Louis Berger to oversee a feasibility assessment, design, construction and operation of the 48 MW, 24 wind turbine farm. The project scope included preparation and building of platforms and foundations; installation of wind turbines and an electric substation and underground trenches; installation, assembly of equipment and testing; and construction of an electric substation and a control center.

As a result of the project, 74,000 homes are now connected to the Interconnected Central System (ICS) and will be powered by non-conventional renewable energy. In addition, 88,000 cubic tons of carbon dioxide will be reduced per year, the equivalent of taking 15,000 vehicles out of circulation.
WATER AND SANITATION MASTER PLAN OF NEIVA
COLOMBIA

Neiva, the capital of the Huila Department, is a small community where agriculture is the main source of economic activity. The Colombian government executed a water and sanitation sector reform plan with the goal of improving sanitary conditions in the area.

Louis Berger was responsible for supervising development of a water and sanitation master plan for Neiva, which involved the analysis of all the studies and designs associated with the master plan. Louis Berger also assisted the client with the subsequent implementation of the master plan by monitoring all administrative, legal and financial activities, and investments, and supervising construction.

The sanitation master plan included the detailed design and construction supervision of the aqueduct, the sewage system and a 260,000 million/m³ reservoir; design of a 1.5m³/s wastewater treatment plant; an odor control and partial nutrient removal system, and design and implementation of an operational control unit to optimize the management of drinking water production and distribution.

The plan improved the well-being of a community, provided technical assistance and financial support for infrastructure and management of water services, and promoted sustainable development in the area.

RÍO MAGDALENA 2 EXPRESSWAY
COLOMBIA

The Río Magdalena 2 Expressway public-private partnership (P3) project is part of an ambitious government program to improve Colombia’s transport system. The program will become one of the most important routes in Colombia by connecting the country’s southwestern and central regions with the ports of Cartagena and Barranquilla, as well as the Ruta del Sol 2 Expressway Concession through Berrio Port.

Louis Berger is responsible for the design of the road’s two carriageways with two lanes of traffic in both directions as well as the design of numerous structures and tunnels, such as a new cantilever bridge over the Magdalena River.

Once completed, the expressway will allow travel of up to 80 kilometers per hour, improving mobility for passengers and cargo and reducing travel times. It also will generate demand for goods and services associated with road development, and increase tourism and transport of heavy cargo from the center of Colombia to its ports. It is estimated that the project will generate nearly 7,000 jobs during the construction phase.
WESTERN SUPERHIGHWAY
MEXICO

The Western Superhighway is an expressway concession in the Mexico City area. It has a total length of approximately 7 kilometers, three of which are composed of tunnels and viaducts. An elevated final section will join the South Urban Highway, with 100 percent automated tolls. Real data on traffic flow on the superhighway is needed to fairly evaluate the cost of the infrastructure improvements and how to pay for them.

OHL Mexico hired Louis Berger to conduct a detailed traffic study. Insights from data analysis and modeling will serve as a basis to negotiate appropriate tolls on the Western Superhighway and will be used to make realistic projections of future traffic loads.

The Western Superhighway will form the axis of the proposed western urban toll road linking the Toluca, Cuernavaca and Querétaro highways.

ANTAMINA MINE
PERU

The Antamina Mine is located in north-central Peru. The main facilities consist of an open pit copper-zinc mine with rock waste dumps, a processing concentrator, and a tailings impoundment.

Louis Berger developed a progressive reclamation program as well as environmental management plans following closure. The firm designed and constructed an engineered wetland at a 4,000 meter elevation as well as sediment and water treatment ponds for runoff from the mine waste rock dumps. Cost estimates and closure schedules also were developed for progressive reclamation, closure works, engineering, inspections and permits, as well as long term operations and maintenance.

Louis Berger was responsible for the environmental management plans that were submitted along with the environmental impact assessment to the Peruvian Ministry of Energy and Mines. The Antamina expansion project was successfully permitted based on Louis Berger’s work. The company also developed the mine-wide water balance and constructed a complex water quality model to predict water quality 20 years following mine closure.