



Going further together

Integrated engineering and environmental solutions
to help you achieve more



There are problem solvers and innovative thinkers behind all developments, including every mine, water dam, or highway. When we take on a project, we see more than an assignment—we find opportunities. Whether it's looking for operational efficiencies or adapting approaches to varied conditions, we find smart ways to support the development of your projects.

At Knight Piésold, we understand that each project is unique. From drilling in permafrost to finding groundwater in the desert, we look for creative ways to overcome challenges. It all begins with ideas that we nurture and transform into innovation—all with you in mind.

Our multidisciplinary specialists work together to provide you with the right solutions tailored specifically for your project. We can support you in all aspects of project development, including:

- Project identification and concept development
- Environmental and social baseline studies
- Environmental and social impact assessments
- Environmental, Social, and Governance (ESG) standards
- Site investigations
- Project planning, scheduling, and cost estimating
- Engineering scoping, pre-feasibility, and feasibility studies
- Closure planning and costing
- Dam breach assessment
- Tailings liquefaction assessment
- Detailed engineering designs and specifications
- Tender documentation and evaluation
- Contract administration and monitoring
- Quality control, quality assurance, and inspections
- Project management and data management
- Due diligence reviews
- Instrumentation and performance monitoring
- Engineer or Record (EOR) services
- Project audits

Mining

The mining industry is constantly evolving and adapting in response to societal needs and advances in technology.

For decades, our mining expertise has been applied to hundreds of surface and underground mining projects in a variety of climatic and seismic conditions, in every major mining district in the world. From deserts to arctic tundras, our integrated engineering and environmental team provides a comprehensive range of services through all stages of mine development, from evaluation and permitting through to design, construction, and closure.

- Tailings and mine waste management
- Mine water management
- Rock mechanics
- Geotechnics for mining
- Heap leach pad design
- Mine geochemistry
- Pipelines and pump stations for mining
- Environmental and permitting support for mining
- Mine closure and reclamation
- Power supply, transmission, and renewable energy integration for mines

Power

Access to low-cost, reliable power is a key driver to progress and eliminating energy poverty around the world.

We have been assisting clients in identifying and developing clean energy projects since 1925 and have grown our capabilities throughout the years to become a world leader in identifying and engineering cost-effective energy solutions for private and public sector clients throughout the world.

- Hydropower (run-of-river, water storage, pumped storage)
- Renewable energy
- Thermal power
- Hybrid systems
- Transmission lines, substations, and interconnection studies
- Environmental studies for power



Water Resources

Water is the world's most valuable resource, and its allocation and management are key considerations in all infrastructure and resource development activities.

From site wide water management for mining projects to designing hydroelectric schemes, we provide a full spectrum of services that support the development, utilization, and protection of surface water and groundwater resources.

- Hydrology
- Hydrogeology
- Climatology
- Fluvial geomorphology
- Dam engineering
- Water conveyance
- Wastewater treatment design

Environmental

Resource projects today can face a number of challenges from regulatory bodies, communities, and stakeholder groups.

We work with our clients to reduce project risks and integrate project design to enhance acceptability to regulators, communities, and lenders while integrating with the Environmental, Social, and Governance (ESG) standards of the projects we serve.

- Environmental and social impact assessments
- Environmental baseline studies
- Social studies and community engagement
- Environmental analysis and modelling
- Environmental management plans and monitoring
- Environmental auditing and due diligence
- Permitting

Infrastructure

Infrastructure is fundamental to the success of our communities.

From initial feasibility and cost studies, to detailed design, specification, and construction supervision, we provide specialized geotechnical and structural engineering and environmental services to a wide variety of infrastructure projects.

- Transportation
- Water infrastructure
- Pipelines



Knight Piésold is an employee-owned, global consulting firm providing specialist services to the mining, power, water resources, and infrastructure industries. We are engineers, environmental scientists, geoscientists, and technologists, focusing on what we do best to create value for our clients at every stage of a project.

Founded in 1921, we have an over 1,400-strong team operating from 29 offices across 16 countries. Our globally integrated team, together with our industry expertise and regional understanding, allows us to support clients in identifying and mitigating risk, navigating challenges, and achieving long-term success in today's complex business environment.

We work collaboratively, harnessing professional excellence and innovation, to deliver a multidisciplinary, fit-for-purpose approach for each project and to help clients realize their goals. We have led numerous award-winning projects to completion and have fostered many long-term client relationships that hold strong today.