

Oil & Gas Services



Delivering safe, innovation, and effective solutions across Canada

Lifecycle services for the oil and gas industry

As one of the largest design and environmental firms in North America, Tetra Tech has been providing the oil and gas industry with reliable technical solutions for more than 50 years. With a strong commitment to safety and environmental stewardship, Tetra Tech works closely with clients by identifying and implementing cost-effective solutions to maximize productivity within their existing capital assets and operations. In a complex world with competing demands for limited resources, Tetra Tech offers clear solutions by using sound science, understanding, innovation, and industry-leading approaches.



We focus on safety and quality to complete our projects on time, while delivering the highest value product for our clients.

Tetra Tech builds long-term relationships with its clients, and its Canadian oil and gas experts provide a full range of responsible and resourceful engineering and construction solutions for the oil and gas market sectors. Our work spans the entire hydrocarbon value chain, from upstream exploration and production to the midstream and downstream sectors.

Upstream

- Freshwater impoundments
- Heavy oil and bitumen upgrader facilities
- Oil batteries
- Oil sands mines and in-situ production facilities
- Off-site and utility systems
- Shale and tight oil and gas production facilities
- Well pads and well sites

Midstream

- Marketing and distribution
- Gas distribution and transmission pipelines
- Liquid pipelines and terminals
- Liquefied natural gas (LNG) terminals
- Pump and compressor stations

Downstream

- Clean fuels production facilities
- Gas processing and production plants and facilities
- Hydrotreaters, hydrocrackers, and catalytic crackers
- Hydrogen plants
- Oil and petroleum refining facilities
- Oil production plants and facilities
- Wastewater and water treatment facilities
- Oilfield waste treatment plants
- Used oil refineries
- Chemical and petrochemicals plants



Fully integrated oil and gas solutions

Tetra Tech has extensive experience in the upstream, midstream, and downstream sectors servicing clients across Canada. We support the entire oil and gas project life cycle to effectively plan, design, implement, commission, and operate projects for storage, transmission and distribution systems, and associated network infrastructure.

Our engineers have the expertise and broad experience to address any challenge our clients might have and deliver sustainable solutions with flexible, customized approaches.

Services and capabilities

Planning, Environment, and Permitting

- Impact assessment
- Liability management in accordance with ERCB directives
- Regulatory permitting, approvals, and agency negotiations
- Stakeholder management
- Compliance auditing and EMS
- Biological studies
- Hydrogeology
- Pipeline routing, permitting, and construction inspection
- Contaminated site assessment and remediation
- Soil science and land reclamation
- GHG management and lifecycle assessment
- Waste management

Engineering Design

- Geotechnical
- Civil and structural
- Mechanical and piping
- Electrical, instrumentation, and control
- Gas, chemicals, and petrochemicals processing
- Procurement, estimation, and planning
- Facility planning and engineering
- Artic and cold climate
- Cost estimation
- Project controls
- HAZOP studies
- SCADA systems
- Heavy foundations

Construction Management

- EPC, EPCM, and turnkey services
- Upgrades, revamps, retrofit, reversal, and conversion
- Pipeline construction
- Civil construction
- Facility construction
- Steel building fabrication and erection
- Concrete foundations
- Metering
- Excavation and rock crushing
- Directional boring
- Crane services
- Process piping and fabrication
- Project and program management
- Procurement
- Cost estimating
- Scheduling
- Subcontractor management

Operations and Maintenance

- In-plant services
- Modifications and expansions
- Commissioning and startup
- Closure and decommissioning
- Debottlenecking
- Process optimization
- Auditing
- Process safety management
- Risk-based inspection programs
- Emergency response plans
- Integrity programs
- Asset integrity management
- Shutdowns and turnarounds



TETRA TECH

oilandgas@tetrattech.com | tetrattech.com



Tetra Tech's innovative, sustainable solutions help our clients address their water, environment, infrastructure, resource management, energy, and international development challenges. We are proud to be home to leading technical experts in every sector and to use that expertise throughout the project life cycle. Our commitment to safety is ingrained in our culture and at the forefront of every project. We combine the resources of a global, multibillion dollar company with local, client-focused delivery. [tetrattech.com](https://www.tetrattech.com)