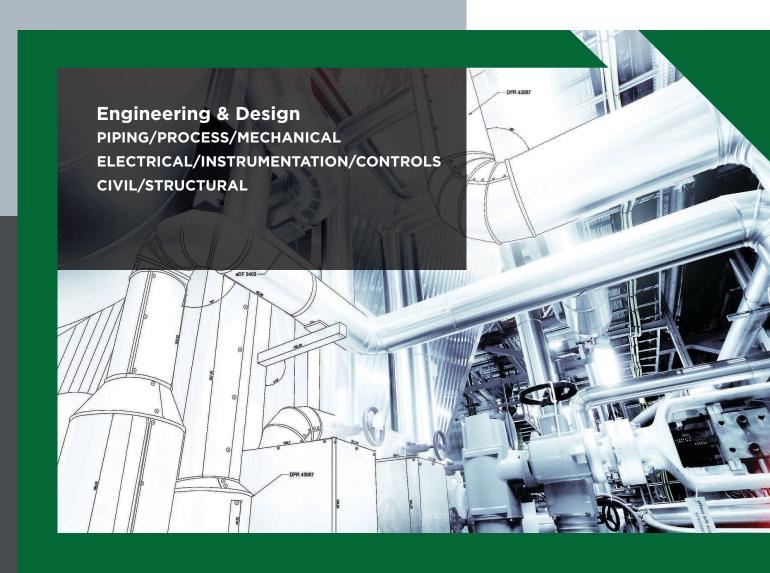
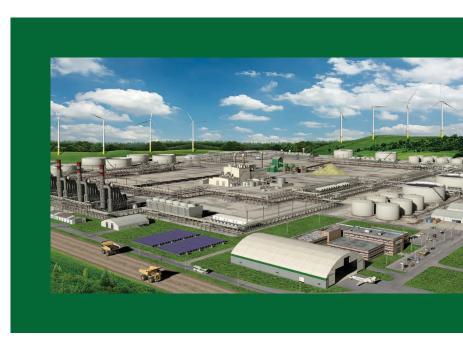
ONEC





CONTENT



TRUST IT

IN OUR HANDS

ONEC's diverse and talented staff will bring your project to life safely, efficiently, on budget, and on time.



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Our Projects - Piping/Process/Mechanical

OUR PRIORITY IS SAFETY

ALWAYS

A successful project is first a safe project.

ONEC is committed to protecting the health and well-being of our employees and partners. We provide each of our employees with comprehensive safety training throughout their careers. Our proactive approach to safety is promoted through employee participation, at all levels.

We believe a safe working environment is about much more than ticking boxes – it's about identifying and mitigating hazards and creating a productive and happy workplace that enables us to serve you better.



... SO FAR

ONEC is a mid-sized project delivery company providing exceptional services for over 20 years. We provide our clients with multidisciplinary engineering & design and project management.

Our combined multidiscipline engineering expertise and knowledge of construction practices reduces the potential for error and ensures our clients' projects are completed efficiently and cost-effectively.

Because of our company's size, clients get to know our team and always work with the same people, resulting in stronger working relationships and efficiency. We are agile in our approach to project delivery Consistently delivering value and facilitating because we are able to pivot quickly and adjust our standard processes to deliver seamless, innovative solutions to any project's unique challenges.

Once the design phase of your project is complete, we strive to make the next step in your project's lifecycle simple. From our database of trusted partners, we evaluate expertise, past performance, reliability, geographical proximity, and capacity to handle the project, and connect you with those best suited to your unique needs.

successful collaborations is just part of our commitment to ensuring your EPC projects are completed efficiently, on time, and within budget.



OUR MARKETS

We offer clients in various markets a broad range of engineering and project management services to complete their industrial, capital, and maintenance projects.

Power & Utilities

Oil/Gas

Commercial, Industrial, Mining & Metals

Renewables, Agriculture, & Chemicals

OUR PEOPLE ARE OUR SUCCESS

WHO WE ARE

ONEC's highly qualified leadership team applies an entrepreneurial and hands-on approach to everything we do. We combine decades of experience in industrial projects with extensive engineering prowess to deliver results that surpass expectations.



OUR

RANGE

ONEC has multiple locations to better meet the needs of clients.

Relationships matter. At ONEC, we believe in local leadership and Indigenous involvement, and we engage top talent from the communities we work in. We understand that local knowledge and presence are key to not only our overall business success but the economic success of the regions we work in. Our objective is to succeed along with the communities in which we work by offering Indigenous and local individuals the opportunity to envisage a career path within ONEC. It's all part of our commitment to shared success.

OUR LOCATIONS



Q Edmonton, AB



At ONEC, we listen to our clients and take the time to really understand their project needs and requirements. We'll provide customized solutions to help you successfully achieve your project goals in a way that is both timely and cost-effective.

When it comes to your complex industrial project, we know that time is precious — which is why responsiveness is a core part of our overall service offering. We'll never leave you waiting for answers. Our dedicated team of professionals are always on hand to respond to any questions or concerns you have along the way.

OUR

SERVICES

ONEC offers a diverse range of engineering & design services. What's more, we ensure each and every design is compliant, practical, and buildable.





Piping/Process/Mechanical Engineering

Our team provides complete mechanical engineering and piping design and analysis services for the development of mechanical components and process systems.



Electrical/Instrumentation/Controls Engineering

We offer complete and cost-effective electrical, instrumentation, and controls engineering services.



Civil/Structural Engineering

Our highly skilled civil and structural engineers and designers are knowledgeable in all aspects of design and implementation. We provide preliminary and detailed engineering expertise, as well as site development services for both operating and new facilities.

PIPING/PROCESS/ MECHANICAL **ENGINEERING**

Our diverse mechanical engineers are experienced working in an EPC+M environment on brownfield maintenance and capital projects in all market sectors. They use only the best analysis tools to validate designs and ensure safety, functionality, and longevity.



We're dedicated to producing reliable designs.



Mechanical/Piping Engineering

- Green & brownfield construction
- Equipment (vessels, tanks, etc.) design sizing &
- Vessel/fitting design (ASME, ABSA, API, etc.)
- Piping design & analysis (2D & 3D)
- Finite Element Analysis
- Piping system design and stress analysis
- Hydraulic analysis
- As-building and site verification
- Construction support
- Multidiscipline project management
- Commercial and infrastructure mechanical engineering
- Custody transfer metering and proving
- Pipe rack and steel structures
- Integrated module and skid design
- Industrial fire protection design
- Industrial building and shelter layouts
- Material requisitions, procurement support, and
- Construction management support

Process Engineering

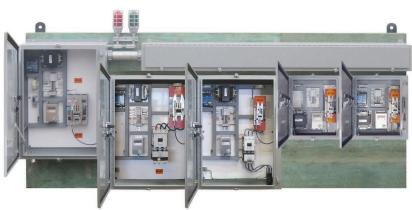
- Process design and optimization
- Feasibility and FEED studies
- Computer process simulation
- Process Flow Diagrams (PFDs)
- Piping and Instrumentation Diagrams (P&IDs)
- Municipal and industrial water and wastewater
- Natural gas processing, scrubbing, cracking, upgrading, refining, and distillation processes
- SAGD processes
- Boiler design review and chemistry optimization
- Cooling tower design and optimization
- Stormwater management
- Secondary containment design
- Tank and tank foundation design
- Steady-state hydraulic modeling Booster and mainline pumps
- Transient hydraulic modeling

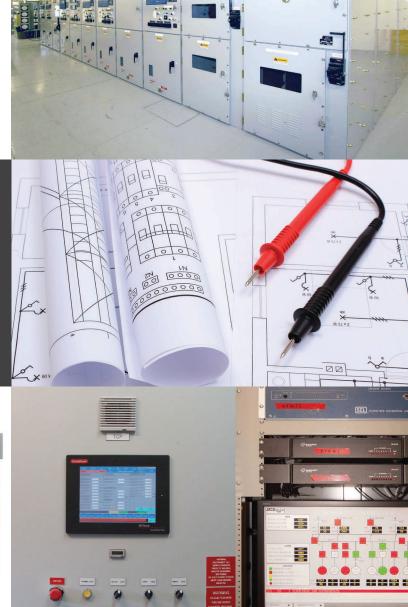
ELECTRICAL/ INSTRUMENTATION/ CONTROLS ENGINEERING

Our team knows how important the successful operation of your project is to you. Our experienced electrical engineers work with you to deliver custom design solutions that meet your specific needs.



Designed specifically for you.





Electrical Engineering

- Electrical equipment specification and selection for low & medium (38kV) voltage
- Power distribution design
- Load flow, short circuit & arc flash studies, grounding, protective device coordination
- Electrical systems detailed design
- Hazardous area classification & equipment selection
- MCC, motor & VFD controls, grounding design, lighting design, panel design
- Electric heat tracing design
- UPS & emergency generator systems
- Field support (commissioning, testing, startup, etc.)

Instrumentation Engineering

- P&ID development
- Instrument selection & specification
- Valve sizing & specification
- Control panel/cabinet design
- CEMS, gas detection & analyzer system design
- Intools instrumentation database
- Installation & calibration
- Commissioning, testing, & start-up support
- Shutdown support
- Training
- Quality assurance/control, code compliance, & inspections
- Maintenance

Controls Engineering

- Control & communication architecture
- System design and equipment specification
- Logic development, control narratives, & programming
- Network systems design
- Cabinat lavout
- Testing (FAT, SA
- OEM equipment integration
- Commissioning & start-up support
- DCS/PLC & SCADA/HMI system design
- Combustion & boiler control
- Burner management systems
- Safety instrumented systems
- Custody transfer flow & analysis system

TOOLS & SOFTWARE

ONEC has a broad range of experience across various platforms and uses only the best in industry tools and software, including:

- AutoCAD
- Plant 3D
- SolidWorks
- MicroStation
- Caesar II Pipe Stress
- CodeCalc Vessel Analysis
- Algor FE.
- AFT Arrow/Fathom
- Allen Bradley
- Schneider
- Siom
- Wonderware

CIVIL/STRUCTURAL **ENGINEERING**



We're there for you.





ONEC's seasoned structural and civil engineers and design technicians can help ensure you are protected. We're committed to producing designs and providing field services that keep your employees safe, your equipment reliable, and limit future repair costs.

Structural Engineering

- Lift designs, lifting device design, & load rating
- Structural assessments
- Turnaround engineering support
- Materials handling equipment
- Specialty equipment & tools
- Temporary shoring & supports
- Substructures

- Equipment supports

- Conveyor galleries & supports
- Ducting & breeching

- Below the hook lifting devices

- Silos & bins
- Buildings, foundations, platforms, & shelters

Civil Engineering

- Utility right of way

ENHANCED 3D MODELING & PROJECT INTEGRATION

It's more than just a pretty picture. There are countless benefits to ONEC's unique approach to 3D modeling and project integration. The focus is to represent reality and create an immersive experience for our clients. Our approach and methods are tried, tested, and proven to be effective.

- Life-like 3D modeling and rendering augments project
- 3D laser scanning integration promotes unparalleled
- Increased FEED and detailed design accuracy
- Augmented clash detection using true parametric data
- Ability to generate integrated project scheduling
- Project constructability assurance through model reviews • Integrated graphics for Construction Work Packages
- Model availability for site personnel to reference

Drainage and containments

Underground services

OUR PROJECTS

PIPING/PROCESS/MECHANICAL









01 COAL-TO-GAS **CONVERSION**

02 GALORYL SYSTEM UPGRADE 03 EAST/WEST **PIPERACKS**

04 TANK FARM **EXPANSION**

ONEC performed a coal-to-gas conversion involving a new natural gas supply, installation of main gas elevation, ignitor, and burner valve skids, new fuel gas and vent piping, and other related equipment required to add capability for the boiler to operate on natural gas. ONEC provided demolition, design, installation, modifications, fabrication, determination & retermination, and commissioning support services.

ONEC provided detailed mechanical and piping engineering, structural engineering, electrical engineering, and instrumentation/controls engineering for a replacement galoryl application system. The system ONEC designed was more effective and reliable than the previous operation. Process enhancements of the new system eliminated deficiencies and alleviated downstream stockpiling hazards.

In order to increase the incoming shipper capacity to a terminal, the client installed a new piperack to a meter bank. This pipe rack was for a tank farm expansion at a pharmaceutical facility in Edmonton. The intended to convey new delivery lines from various facilities with an ultimate build-out for two additional rack tiers and structural capacity for numerous future incoming shipper pipelines. ONEC provided FEED, detailed engineering, procurement support, construction support, and completed as-builts.

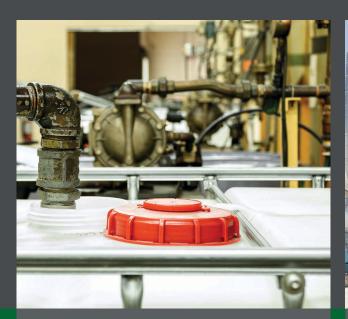
ONEC provided full engineering, procurement, and construction services client initially came to ONEC for a study as we had designed and installed the previous tank farm expansion at the site. This project included four 50,000L, 316SS solvent tanks, loading/unloading facilities, pumps, metering, feed vessels, and filtering systems. Our team produced all engineering deliverables, procured equipment and bulk materials/tanks, and performed the construction.

OUR PROJECTS

ELECTRICAL/INSTRUMENTATION/CONTROLS









O5 GENERATING STATION

06 SOLAR PLANTS

07 API TANK
FARM AND
TRANSLOAD
SKID

08 HVAC UPGRADES 2019

ONEC provided EPCM services for 6 new switchgear buildings for a client's generating station. These were installed and commissioned over a 3-year project.

ONEC completed detailed design as the engineers of record for two large scale solar plants (22 MW & 26 MW). ONEC supplied electrical design, arc flash and ground fault studies, coordination with the electrical utilities (Fortis and the AESO), structural design, pile design and review, complete SCADA design including fabrication of SCADA cabinets, weather station design and fabrication, site surveys, design, and fabrication of MCU racks.

The scope of the project included the design of a crude oil storage tank, pump station, electrical, and instrumentation updates, and full commissioning of the facility.

ONEC was engaged to provide engineering services related to HVAC upgrades. The scope of work included detailed engineering for the process, mechanical, structural, electrical, and building systems. ONEC also prepared Construction Work Packages (CWP) and provided construction support for the project.

OUR PROJECTS

CIVIL/STRUCTURAL









09 ENVIRONMENTAL **OPERATIONS FUZZY FILTER** INSTALL

EDUCATION CENTRE SOLAR

PIG LAUNCHER ADDITION

12 AERATION HALL STRUCTURAL **ASSESSMENT**

ONEC provided the detailed design for civil/structural, mechanical/piping, installation for a replacement fuzzy filter install.

ONEC provided a turnkey roof mount solar array for a education centre and electrical/instrumentation/controls, procurement, demolition, and registered under the Micro Generation Regulation. Solar engineering, structural engineering, and construction services were provided by ONEC.

ONEC provided design, engineering, and construction services for the addition of a new permanent pig sending trap and kicker line for a client's iso-octane pipeline to provide additional safety when conducting pigging operations. The work included the design of piles and structural steel, a flare line extension, and the fabrication and installation of the design.

ONEC was engaged to perform a structural assessment of an aeration hall building. Following a thorough assessment, ONEC prepared a structural assessment report with observations and recommendations, as well as a cost estimate for the engineering repair scope(s) as required. ONEC also advised the client of any issues requiring immediate repair work during the inspection stage of the project.





HAVE A PROJECT IN MIND?

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