



**Cornerstone**  
*Energy Services*

# PAT CONVERY, PE, CENG – PRESIDENT AND CHIEF ENGINEER

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## EXPERIENCE SUMMARY

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Mr. Convery has over 39 years of engineering experience working for major system operators, project developers and engineering firms. He has served in many engineering, and project management roles and has experience in construction, inspection, operations, product development, teaching, engineering management and executive management.

As the Chief Engineer at Cornerstone Energy Services, he is leveraging his deep experience to guide clients through the energy transition.

Pat graduated from Manhattan College and holds graduate degrees from Tufts University and Harvard University. He is a Licensed Professional Engineer in ten States. He is Chartered Engineer and a Member of the Institute of Engineers of Ireland.

## SELECTED GAS PIPELINE PROJECT EXPERIENCE (NO LNG)

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### 1985 Hanover (NJ) Compressor Station, Compression Engineer

New gas turbine mainline gas compressor station, two units, Solar Centaurs, PLC-based remote controlled, low noise

### 1986 Southeast (NY) Compressor Station, Quality Control Manager

New gas turbine mainline gas compressor station, two units, Solar Centaur-H, PLC-based remote controlled, fiber optic plant network, very low noise

### 1987 Gas Aftercooler, Cromwell, CT, Project Manager

After cooler for multi-unit reciprocation mainline compressor station, Honeywell loop controllers, low speed, low noise fans

### 1988 - 89 Dry low-NOx gas turbine retrofit program, Project Manager

Replacement of several Solar Centaur, H, and Taurus units with SoLoNOx technology, controls retrofits, spare parts management

### 1990 Compressor Addition, Southeast (NY), Project Manager

Added one Solar Mars/C601 gas turbine package to an existing station with two small turbines. Remote control, compressor noise reduction, low NOx

### 1991 Compressor Addition, Burrillville, RI, Project Manager

Added two Solar Taurus gas turbine compressors to an existing station with three Clark TLA-8 engines. Common header operation, pulsation analysis and mitigation, measurement systems, PLC- based controls, large volume pressure regulation.

## EDUCATION

BE(EE), Electrical Engineering, Manhattan College

MSEE, Electrical Engineering, Tufts University

ALM, Government, Harvard University

## AREA OF EXPERTISE

Energy Transition

Gas Compressor Stations

Metering/Regulation

LNG Facility Siting & Design

CNG Facility Design

Propane System Design

Economic/Technical Feasibility Studies

Project Development

Gas and Oil System Planning

Instrumentation & Control Systems

## REGISTRATIONS/ AFFILIATIONS

Professional Engineer: MA,ME,VT,CT,RI,NY,NJ,TX,NM,ID, OK, Chartered Engineer, MIEI

Member NFPA, Industrial Fire Protection Section, 59A and 56 Technical Committees

## OFFICE

Worcester, MA, USA

## YEARS OF EXPERIENCE

39

## CONTACT

[PConvery@CornerstoneEnergyInc.com](mailto:PConvery@CornerstoneEnergyInc.com)

**1992 - 94 Chaplain (CT) Compressor Station, Project Manager**

New station including two Solar Taurus units. Very low noise, low impact, low-NOx, condensed footprint, PLC based, remote controlled.

**1994 Providence, RI Algonquin LNG Expansion Project, Project Engineer**

Regional peaking facility concept including 400 MMSCF/d high pressure sendout (remotely heated), 40 MMSCF/D Liquefaction (16,000 Hp electric motor drive), boiloff compressor system. Project designed and permitted by FERC, not constructed due to shift in business environment.

**1997 British Gas, Project Engineer**

Low emissions technology compendium for gas pipeline compressor applications, prepared for BG to assist in system planning.

**1998 Maritime & Northeast Pipeline, Phase II meter stations, Project Manager**

Design of 14 stations to support distribution of new source of gas from Sable Island, includes one- half of the interconnect at Westbrook and the high-volume delivery station at Dracut, MA.

**1998 - 99 Iroquois Eastchester Expansion, Project Engineer**

Early stage development planning and design for large scale pipeline expansion, compressor additions, sub-sea routing, densely populated (NYC) routing, capital planning.

**1998 Londonderry (NH), Combined Cycle Generation Station, Gas Systems Engineer**

Gas fuel metering, regulation, pre-treatment system for new high-efficiency combined cycle plant.

**1999 Devon Meter Station, Project Manager**

Delivery point to power plant, high pressure, high volume.

**2000 Tiverton (RI) Combined Cycle Generating Station, Gas Systems Engineer**

Gas fuel metering, regulation, pre-treatment system for new high-efficiency combined cycle plant.

**2002 NSTAR Marlborough Meter Station, Project Manager**

Electrical design, ExP MC/MI cable system, limited relay logic, back-up generation.

**2003 Huallaga Ethanol Pipeline, Project Engineer**

Feasibility study and rout design for 1000-km ethanol export pipeline from the Huallaga river valley across the Andes to the Pacific coast terminal at Bayovar.

**2003 Bowline (NY) Generating Station, Project Manager**

Design of main fuel gas trim regulators retrofit.

**2004 NSTAR Framingham Meter Station, Project Manager**

EPC contract for new meter/regulator station, compressed site, direct access from highway, ultrasonic metering, multiple regulation systems, remotely heated gas pre-heat, back up generation.

**2004 Keyspan Energy Delivery, Project Manager**

Cape Cod winter preparations program, LNG injection site preparations at Chatham, Eastham, & Orleans, MA.

**2006 ElPaso Energy, Project Manager**

Wright Interchange redesign. 400 MMSCFD high-pressure interchange. Design of new hydronic preheat system, regulator replacement, building replacement.

**2006 Keyspan Energy Delivery, Project Manager**

Everett Interchange, 6 MMSCFH at 22 psig, principle IP feed to Boston. Complete redesign of IP regulator runs.

**2007 CMEEC Wallingford, Project Manager**

Power plant gas fuel delivery system, Design/Build. High pressure inlet pipeline, metering to Spectra specifications, electric preheat, regulation to Yankee Gas specifications, building, site development.

**2007 Spectra Energy, Project Manager**

Sandwich, MA M&R Station, Design/Build. New feed to Keyspan on Cape Cod. 4 MMSCFH, metering to Spectra specifications, preheat and regulation to Keyspan specifications.

**2007 Spectra Energy, Project Manager**

Northeast Gateway Onshore Facilities - Salem Meter Station, Design/Build. Reverse flow direction and add low flow meter run, extend concrete building.

**2013 PB Power/Hess NEC**

Design of a Williams/Transco specification gas meter station in Newark New Jersey. 5.3 MMSCFD, prefabricated skid construction.

**2013 Summit Natural Gas of Maine**

Design of a new gas distribution company in the Augusta area, including a Spectra Energy specification meter station (5 MMSCFH) at Pittston, ME; 60 miles of 1440 PSIG transmission line and seven district regulator stations.

**2013 Daniel O'Connell's Sons/ XNG**

Design of a Spectra specification meter station in Eliot, Maine, 18 MMSCFD.

**2014 Summit Natural Gas of Maine**

Design of a Spectra Energy specification meter station (800 MSCFD), with regulation and preheat for a new gas distribution area in Cumberland/Falmouth/Yarmouth, Maine.

**2014 Direct Energy**

Design and procurement support for an Iroquois-spec meter station (700 MSCFD) in Manheim, NY.

**2014 Engie**

Provide conceptual design, CAPEX estimates, optimization studies and project planning for a gas compression facility to feed a large power generation complex.

**2015 PB Power/Macquarie Infrastructure**

Design of a Spectra specification gas meter station in Bayonne New Jersey. 6.9 MMSCFD, with 7,500 feet of 16" high pressure connecting pipeline to supply a power plant addition at the Bayonne Energy Center.

**2015 Confidential Client**

Conduct desktop and field investigation to quantify structure counts and gas demand in a new potential gas distribution franchise area.

**2015 RH White**

Design of a relocated high-volume service to the central plant at the Mohegan Sun Casino complex in Connecticut to make room for the Earth Hotel development.

**2015 EPCOR**

Provide conceptual gas distribution design options, CAPEX & OPEX estimates, and project planning services for a potential new gas distribution franchise area on the eastern shore of Lake Huron.

**2017 RH White/Liberty Utilities, Fall River**

Provided design and construction support services as part of an EPC Team lead by RH White to replace the sendout system at Fall River, including new shell-and-tube vaporizers, hot water heaters, enhanced boil off system, controls replacement, and new electric service.

**2018 EPCOR, Ontario**

Oversight of a system integrity study including development of digital capacity model, bottleneck identification, capital cost estimating and strategic planning.

**2018 Woodard & Curran/GEO Environmental, Tewksbury, MA**

Design and permitting of an elevated pressure gas service in Massachusetts, materials selection audit, detailed design, testing, MA state permitting.

**2019 XNG, Elliot, ME**

Design of a gas meter station modification to allow reversible flow onto/off the Maritimes & Northeast pipeline in Elliot, Maine.

**2019 Enbridge**

Design if a temporary pipeline pressure regulating station for the Southeast Massachusetts area

**2019 RH White Construction**

Design of an intermediate pressure gas distribution system for a large residential complex. All work was downstream of the utility meter and subject to Massachusetts Plumbing Code.

**2020 Enbridge**

Design of valve site reconfigurations on both sides of the Hudson River in New York State. Steep slopes, environmentally sensitive, one side is inside a nuclear power plant.

**2021 Confidential Client**

Feasibility study for Hydrogen injection into natural gas distribution system, and pipeline compressor fuel system. Supplier identifications, conceptual plant design, CPEX and OPEX, and rate estimation.

**2021 Spindletop Gas Storage**

Conduct site inspection, cold weather vulnerability assessment, and remediation/resilience recommendations. This is a critical gas facility to maintain electric supply in East Texas.

**2023 BRG/ENSTAR GAS**

Options analysis to determine the best course of action to address predicted gas supply shortfall in the Anchorage, AK region due to declining production in Cook Inlet.

# TRAVIS CUSHMAN, PE, MECH ENG – ENGINEER III

## EXPERIENCE SUMMARY

Mr. Cushman has 10 years' experience working with design teams, contractors, facility owners and operators, and utilities in the energy industry. Since the completion of his degree in May of 2013, he has been involved in the conceptual development, design, and construction of a variety of energy related projects including natural gas, LNG, crude oil, biofuel, and solar energy projects across the United States and Canada. With Cornerstone, he has gained significant experience in LNG facility life extension projects, mid-stream and down-stream natural gas projects, and hydraulic modeling. His experience both in the design phase and construction phase of projects brings a valuable perspective to the clients he works with.

## RELEVANT PROJECT EXPERIENCE

### **CNG Decompression Stations, Xpress Natural Gas**

Engineering services and support of Compressed Natural Gas delivery stations for Xpress Natural Gas clients all over the Northeast. Design of both site plans and decompression skids required to handle the heating load required by the client and the extreme pressures and temperatures of the process.

### **Natural Gas Compressor Stations, Xpress Natural Gas**

Engineering services and support including design, construction support, and procurement support for two different natural gas compression facilities in Eliot, ME and in Manheim, NY.

### **RFO Liquid Biofuel Fuel Receiving and Handling System, Memorial Hospital – North Conway, NH**

Engineering services and support including design, construction support, and commissioning of a new fuel receiving and handling facility in North Conway, New Hampshire to store and burn a liquid biomass created from wood pulp.

### **LNG Vaporization Facility, Confidential Client**

Front End Engineering services for a mid-scale LNG vaporization system for a confidential client in New Hampshire. Services include concept development, siting analysis, and preparing CAPEX estimates based on all major equipment for the facility.

### **Natural Gas Regulator Station Replacement, National Grid**

Engineering services for the replacement of several natural gas regulator stations in the Boston, MA and Providence, RI area. Services include drawing package development, material specification, and work sequencing for the hot work involved in the replacement of operating regulator stations.

## EDUCATION

BE(ME), Mechanical Engineering, University of Maine

## AREA OF EXPERTISE

Gas and Oil Pipeline & Facilities Design

LNG Facility Siting & Design

CNG Facility Design

Propane System Siting & Design

Economic/Technical Feasibility Studies

Gas and Oil System Planning

Instrumentation & Control Systems

Natural gas disaster response – Quality Assurance

Hydraulic Modeling – Natural Gas and Crude Oil pipelines and gas distribution systems

Pipeline Documentation Rectification

## REGISTRATIONS/ AFFILIATIONS

Professional Engineer (PE) – ME, RI, MD, NV, NY, MA

INGAA Foundation

American Gas Association

## OFFICE

Portland, ME, USA

## YEARS OF EXPERIENCE

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## CONTACT

[TCushman@CornerstoneEnergyInc.com](mailto:TCushman@CornerstoneEnergyInc.com)

**Natural Gas Distribution Pipeline Replacement, National Grid**

Engineering services for the replacement of several natural gas mains with new steel and plastic pipelines in the Boston, MA and Providence, RI area. Services include drawing package development, material specification, and work sequencing for the hot work involved in the replacement of live regulator stations.

**LNG Liquefaction Expansion, Liberty Utilities – Fall River, MA**

Feasibility study for the expansion of LNG facilities at a peak shaving plant in Fall River, MA. Study included equipment general arrangement, capital cost estimate, and siting evaluation based on zoning bylaws.

**Natural Gas Pipeline and Meter Station, Bayonne Energy Center – Bayonne, NJ**

Engineering services for a Spectra Specification natural gas meter station and pipeline for a client in New Jersey. Services include conceptual design through construction of a one mile 16" natural gas pipeline including 3 HDD's and custody transfer station. Other tasks involved were procurement specification development and equipment submittal review/approval . Field engineering services efforts included material tracking, as-built development, survey, construction support, and job book documentation auditing throughout the construction phase.

**Pipeline Bridge Attachment, Norwich Public Utilities - Preston, CT.**

Engineering services for the design of an 8" natural gas pipeline bridge attachment. Services included drawing package development, capital cost estimate, and work sequencing based on no-shutdown requirement for the line during the two-phase construction of the new bridge the gas line will be attached to.

**Propane Vaporization System Replacement, Kendal at Hanover – Hanover, NH**

Engineering services for the expansion of an existing propane gas facility that serves as central heating source for a retirement home in Hanover, NH. Services included a site visit and siting evaluation report that outlined the feasibility of installing additional underground storage, replacing existing vaporization equipment, and analyzed the existing facilities in terms of code compliance to NFPA 58.

**Pipeline Pig Trap Facilities, Oxy Oil & Gas – Eddy County, NM**

Engineering services for the design of ANSI 150# rated pig launcher and receiver facilities for a 3700ft 12" gas pipeline. Services included the development of a set of complete construction drawings for the traps from P&ID to isometric fabrication drawings.

**Natural Gas Send-out System Upgrade, Liberty Utilities – Fall River, MA**

Engineering services for a multi-million-dollar EPC contract covering the replacement and upgrade of LNG facilities at a plant in Fall River. Scope of project includes the redesign of all send-out pump piping, installation of two shell & tube heat exchangers with remote heat source including two 500hp Johnston boilers, new instrument air system, send-out gas odorant injection system, additional boil-off-gas blower and ambient heaters, boil-off-gas odorant injection system and chromatograph, and upgraded plant controls. Complete engineering services from construction drawing development, equipment specification and procurement, and commissioning support.



### **EPCOR South Bruce Hydraulic Modeling – Ontario, Canada**

Hydraulic modeling and formal report outlining the capabilities of a proposed natural gas distribution system to serve potential customers in the South Bruce region of Ontario, Canada. The new pipeline and new 95# distribution systems for the surrounding towns were modeled and evaluated based on expected conversions over a 10yr period, along with multiple variations of system expansion options.

### **ENGLP Aylmer System Integrity Analysis – Ontario, Canada**

Hydraulic modeling and analyzation of the ENGLP Aylmer gas distribution system. The effort involved the modeling and calibration of the hydraulic model to fit real data records, evaluating the system's reliability to serve existing customers during peak usage times, and the capability of meeting expected increases in gas demand for the coming years. A formal report was developed for the utility's rate filing, outlining the findings of the hydraulic modeling and several capital cost estimates to resolve some of the issues discovered.

### **Natural Gas Disaster Response – Quality Assurance**

Executed and coordinated a quality assurance program that audited the repairs the gas piping and gas-burning appliances to the affected homes in the Columbia Gas of Massachusetts over-pressurization incident that occurred in September of 2013. The 10-week effort involved documenting and evaluating the assessment process, and tracked the progress, quality, and process efficiency of the restoration effort of the disaster response teams.

### **Pipeline Design, Centurion Pipeline – Midland County, TX**

Engineering services for the design of a piggable 8" steel crude oil gathering line in Midland, TX. Scope included design of pig trap facilities on either end of the pipeline. Mr. Cushman's effort included pipeline routing and design, permitting efforts, procurement support, and pigging facilities design.

### **LNG Facility Site Search, Confidential Client – New England Region**

Mr. Cushman lead the effort in developing and executing a two-phase site search effort for a confidential client who is looking to site an LNG liquefaction and gas send-out plant in MA or RI. The project involved setting search boundaries and applying multiple sets of criteria to search for parcels of land which could facilitate the siting of an LNG facility, considering federal regulation requirements. Both GIS-automated and manual screening efforts were used to screen through hundreds of thousands of properties in the search effort.

### **LNG Facility Siting Study, Confidential Client – New England Region**

Mr. Cushman has developed high-level plans for an LNG liquefaction and send-out facility for a client out of Massachusetts. The client identified multiple potential locations for the facility, and Mr. Cushman catered to each siting's conceptual design individually with the goal of minimizing wetlands impacts, maintain proper exclusion zone setbacks per PHMSA requirements, minimize landowner negotiations for the project, and facilitate ideal trucking routes to and from the facility.

### **CNG Decompression Stations, Xpress Natural Gas**

Engineering services and support of the design of a CNG decompression skid located in Moreau, NY. Services included process design, piping specification development, 3D model development and construction drawing package creation including piping isometrics.

**Pipe Stress & Flexibility Analysis, Tonopah Solar Energy**

Mr. Cushman lead the effort of a forensic investigation of the pre-heat and recirculation pumping systems for the steam generation trains at the Crescent Dunes Solar Energy Facility in Tonopah, NV. Documenting structural damage experienced on several structural members supporting the discharge and suction piping, Mr. Cushman analyzed each of the pumps in Caesar II to investigate the cause of the structural damage and frequent pump seal failures.

**NG Transmission Line Modifications, Confidential Client**

Mr. Cushman lead the effort of designing the piping modification for a confidential client requiring modifications to two of their pipelines at river crossings which involve limited demolition and leaving idle, one currently active 24" steel line and the activation of a currently unutilized 24" crossing. Project is slated to begin construction in Q3 of 2021.

**Instrument Air System Design, Bond Brothers**

Mr. Cushman lead the effort of designing the replacement Instrument Air system for National Grid's Greenpoint facility. The system is scheduled to be in service October 2021.

**Documentation Coordinator, Unitol Corporation**

Mr. Cushman was the Documentation Coordinator for Unitol Corporation's Granite State Gas Transmission line in MA, NH, and ME for a front-end TVC documentation effort. The effort involved a substantial amount of documentation gathering and review, both digital and hard-copy historical records. Pertinent documentation was digitized and catalogued for use in the overall MAOP Verification effort the 60mile pipeline is subject to.

**GSEP Gas Main Replacements, Eversource**

Mr. Cushman is the lead engineer for multiple gas main replacement projects in Eversource's distribution systems throughout Massachusetts and Connecticut. Projects involve the development of construction drawing packages, procedure diagrams and written procedures for the installment, activation, and abandonment of gas mains operating up to 99psig.

**Gas Main Replacements, Liberty Utilities**

Mr. Cushman is the lead engineer for multiple gas main replacement projects in Liberty's distribution systems throughout Massachusetts. Projects involve the development of construction drawing packages and written procedures for the installment, activation, and abandonment of gas mains operating up to 80psig.

**Enstar Natural Gas Feasibility Study, BRG**

Mr. Cushman is serving as a technical resource for an ongoing feasibility and options analysis study to determine a best-fit project to meet the natural gas demands of several electric and gas utilities in the Railbelt region of Alaska. The project involves conceptual design, project scope development, project cost estimating, schedule development, and risk assessment of a variety of LNG Import and local infrastructure projects to determine the path forward to secure natural gas for the region through 2050.

**City of Brenham, TX Natural Gas Hydraulic Modeling**

Hydraulic modeling and analyzation of the 30psig Natural Gas Distribution located in Brenham, TX. The effort involved the modeling and calibration of the hydraulic model to fit real data records for a peak day scenario experienced by the system.

**Lincoln M&R Re-Build, Enbridge**

Mr. Cushman is the lead mechanical engineer on the design of Enbridge's Lincoln Meter & Regulator Station re-build project in Lincoln, MA. The project involves the demolition and replacement of all metering & regulating equipment on a very small site with many spatial design limitations and constructability challenges. His role as the lead mechanical engineer includes piping & process design and procurement support for the project's various equipment and skid packages. The project is expected to be constructed Q2 2024.

# YASH SANGHAI, PENG, PMP – SR. PROJECT MANAGER

## EXPERIENCE SUMMARY

Mr. Sanghai works closely with clients, design teams and contractors on oil and gas projects, conception through completion, realizing client design goals while conforming to applicable codes and standards. He is a part of the decision-making process on facility design, material selection, and selecting major equipment for the projects.

## SELECTED PROJECT EXPERIENCE

### 2023 Vanguard Renewables 3-Pod RNG Project

Development engineering services in support of 3 agricultural RNG facilities near Twin Falls, ID. The proposed facility will include a manure receiving system, anaerobic digesters, biogas upgrader as well as a CNG system to compress the RNG and load CNG trailers.

### 2023 Vanguard Renewables Organics RNG Project

Balance of Plant engineering services in support three organics RNG facility in Wisconsin and Ohio. The proposed facility will include a manure receiving system, organics receiving and processing, anaerobic digesters, and biogas upgrader.

### 2022 Vanguard Renewables Funk Dairy RNG Project

Balance of Plant engineering services in support of an agricultural RNG facility in Murtaugh, ID. The proposed facility will include a manure receiving system, anaerobic digesters, biogas upgrader as well as a CNG system to compress the RNG and load CNG trailers.

### 2022 Northeast Renewables RNG Project

Supporting Northeast Renewables to manage a feasibility study for a confidential client to develop a FEED Study including conceptual design, CAPEX and OPEX estimates for a regional RNG facility in Ontario. The proposed facility will include an anaerobic digester for farm and dairy byproducts and an upgrade system for processing biogas to RNG for injection into pipelines.

### 2021 Xpress Natural Gas, FEED study

FEED study in support of two site-specific CNG production and injection facilities.

### 2021 Northeast Midstream Green Hydrogen

Supporting Northeast Midstream to manage a feasibility study for a confidential client to develop a conceptual design, CAPEX and OPEX estimates for two potential new green hydrogen facilities in the New England.

## EDUCATION

B.Sc., Mechanical Engineering,  
Mumbai University, India

M.Sc., Mechanical Engineering,  
University of Massachusetts,  
Amherst

## AREA OF EXPERTISE

Project Development

Project Management

LNG Facility Design

Natural Gas M&R Station  
Design

CNG Facility Design

Propane System Design

Feasibility Studies

Equipment Specification and  
Procurement Support

Commissioning Support

## REGISTRATIONS/ AFFILIATIONS

Professional Engineers Ontario

Project Management  
Professional

## OFFICE

Mississauga, ON

## YEARS OF EXPERIENCE

10

## CONTACT

[YSanghai@CornerstoneEnergyInc.com](mailto:YSanghai@CornerstoneEnergyInc.com)

**2021 National Greenpoint LNG Saltwater Pump House**

Engineering partner of the Bond Civil and Utility Construction, Inc's EPC team to support the addition of a saltwater pump house at National Grid's Greenpoint LNG facility in Brooklyn, NY. Services include engineering and design, procurement support and FDNY permitting support.

**2020 National Greenpoint LNG Truck Station**

Engineering partner of the Bond Civil and Utility Construction, Inc's EPC team to support the addition of an LNG truck station at National Grid's Greenpoint LNG facility in Brooklyn, NY. Services include engineering and design, procurement support and FDNY permitting support.

**2020 ConEd Yonkers CNG Injection**

Contracted by Xpress Natural Gas to support the addition of CNG injection capabilities for peak shaving purposed on the ConEd distribution system in Yonkers, NY. Services include engineering and design, procurement support and planning board support.

**2019 Confidential Client, LNG Facility Siting Study**

Support the site selection process for an LNG facility consisting of a 2 BCF full containment LNG storage tank, a 200,000 gallons per day liquefaction system, a 200,000 Dth/d send out system as well as LNG truck loading capabilities in New England.

**2018 Nipigon LNG Facility and LNG Depots**

Supporting Northeast Midstream to manage the development of an LNG facility in the Township of Ledger and the regasification facilities at industrial locations in Northern Ontario.

**2018 North Shore Distribution System**

Supporting Northeast Midstream to manage the development of a local gas delivery system in each of the communities of Manitouwadge, Marathon, Schreiber, Terrace Bay and Wawa in Northern Ontario.

**2018 South Bruce Transmission and Distribution System Analysis**

Managed the system analysis to support the design as well as the following rate filing effort for EPCOR's proposed transmission and distribution system that would to serve the communities of Chesley, Paisley, Inverhuron, Tiverton, Kincardine, Lurgan Beach, Point Clark, Ripley, Lucknow and the Bruce Energy Centre in Ontario, Canada.

**2018 EPCOR Natural Gas LP System Integrity Study**

Managed the system integrity study to address the integrity issues in the existing local distribution company that distributes natural gas in Southern Ontario to approximately seven thousand customers in the Town of Aylmer and surrounding regions. system.

**2018 Lowell LNG Vaporizer Test Facility**

Managed the engineering and procurement efforts in support of a National Grid LNG Vaporizer Test Facility in Lowell, MA

**2017 Fall River LNG Peak Shaving Facility Send-out system Upgrade**

Life extension efforts at the LNG peak shaving facility in Fall River, MA. Services included engineering and design, procurement support, survey, coordination between suppliers, subcontractors and client for the upgrade of the LNG send-out system including pumps, vaporizers and associated equipment.

**2016 BEC, Natural Gas Custody Transfer Metering and Pipeline Lateral**

Engineering services and support for a 165 MMSCFD custody transfer meter station and 7,500 feet pipeline lateral on the Texas Eastern pipeline feeding a 640 MW powerplant in Bayonne, New Jersey. Services included designing, master scheduling, coordination between consultants, managing sub-contractors, leading the procurement effort for all major equipment including selection of skid fabricators.

**2016 RH White/UII LNG Pump Replacement Project**

Engineering services to support the life extension efforts at the peak shaving facility in Rocky Hill, Connecticut. Services included designing, procurement, coordination between suppliers, subcontractors and client for the replacement of the LNG send-out pumps and associated equipment.

**2015 Centurion Pipeline Midkiff East/West Lateral Expansion Project**

Engineering services and support including designing, scheduling, procurement and field engineering support for approximately 60,000 BPD oil metering facility for Centurion Pipeline LC in Midland County, Texas.