



Comprehensive
Oil & Gas
Engineering
Solutions



1144 – 29 Ave NE Calgary, AB T2E 7P1
www.cornerstoneeng.ca

Corporate Introduction



Full service engineering, procurement, and construction management company (EPCM) advanced, innovative, cost-effective solutions that enable clients to get their product to market, reach their ESG goals, while lowering costs both initially and long-term.

Multi-disciplinary - expertise in all areas and under one roof. Ability to reduce costs, compress schedules, eliminate change orders, incremental reporting, performance measurement and all under one roof.

Privately owned and operated by shareholders with producer experience that have first hand knowledge of producer needs. Our owners actively lead and mentor teams across the company. Currently in our 15th year of operations, with over 100 team members.

Guided by our vision – helping our clients get their product to market through timely, cost-effective, quality engineering solutions.



Executive Team

Rick Jacobsen

President & Chief Executive Officer

Ron Grover

Executive Vice President

Garry Wohlberg, C.E.T.

Senior Project Manager & Shareholder

Mike Braun, P.Eng.

Senior Project Manager & Shareholder

Michael Fedoruk, P.Eng., PMP

Senior Project Manager & Shareholder

Christine Lang

Project Design Manager & Shareholder

Derek Rupprecht, P.Eng.

Electrical Engineering Manager & Shareholder

Cornerstone's shareholders are actively involved in managing teams and projects to ensure clients' needs are prioritized. Their expertise is diversified across Cornerstone's disciplines, guiding teams to a unified vision of helping the client get their product to market.

Prior to founding Cornerstone in 2008, the founding shareholders each had 15+ years of experience in engineering, fabricating, and producing companies. Their experience has granted them a first-hand understanding of the priorities of oil and gas companies when undertaking a project. This insight has shaped Cornerstone's focus on excellent communication and customer service throughout each project's execution.

Exceptional Value Adds

➤ Estimating Accuracy

- Project engineering estimates are consistently within 2% of budget
- Cost control with transparency and without higher cost lump sum models

➤ Project Controls and Procurement/Vendor Management

- We manage relationships that are built on consistency, reliability and project success

➤ Turn-Key Solutions

- Multi-disciplinary expertise
- One-stop engineering services
- Ability to compress schedules with in-house services
- Vendor Management – procurement, shop inspection and expediting to delivery

➤ Experience & Expertise

- Ownership – Mentorship Program
- Employee retention over 80%
- Consistency in quality
- Proven to lower project costs

➤ Innovation & Technology Leaders

- Industry leading design
- Visionary project experience
- Best in class facilities

➤ Quality Management

- Eliminates the causes of errors
- Prevents problems or errors rather than reacting to them
- Regularly attended training courses for the staff
- Key Learnings with a comprehensive list tracked throughout the project.

➤ Safety

- Safety is part of our culture, processes, training, and project performance

➤ Engineering Readiness

- Completed, quality engineering packages allow construction to start on time and have the ability to compress construction schedules and reduce change orders or RFI's

➤ Trust & Reliability

- From the initial meeting to project completion, our clients boast about our ability to deliver trusted results that go beyond expectations

➤ Consistency

- Cornerstone has built an industry leading reputation for the ability to execute projects flawlessly for over 13 years
- We develop trust immediately with full transparency, experience and knowledge

➤ Relationship Management

- Schedule driven
- Cross Team collaboration
- Continuous communication
- Transparency
- Exceptional client retention strategy
- Commitment to excellence and outperforming KPI's

Capabilities



Our deliverables span the full cycle of the project and include Pre-FEED, FEED, Detailed Design, Procurement, Project Controls, Expediting, Shop Inspection, 3D Scanning, Construction Management, and Commissioning support.

- Gas Plants
- Oil Batteries
- Pipeline Gathering Systems
- Pump Facilities
- Sour Oil and Gas Projects, Amine sweetening, Acid Gas Injection
- Water treatment facilities
- Compression facilities
- Dehydration facilities
- Wellsite facilities
- Optimization & Debottlenecking
- Studies and utilities
- 2D & 3D CAD Drafting
- 3D Scanning Services

Multi-Disciplinary Expertise



- ✓ Early Construction Involvement
- ✓ Mechanical Engineering
- ✓ Project Engineering
- ✓ Process Engineering
- ✓ Civil/Structural Engineering
- ✓ Construction Management
- ✓ Safety Services

- ✓ Electrical Engineering & Instrumentation
- ✓ Automation & Programming
- ✓ Drafting Design
- ✓ Project Management
- ✓ Project Controls
- ✓ Regulatory
- ✓ Inspection Services
- ✓ Procurement & Logistics
- ✓ Quality Management Services

Electrical & Instrumentation



Experienced team of 25+ personnel

EICA Manager is a Cornerstone Shareholder

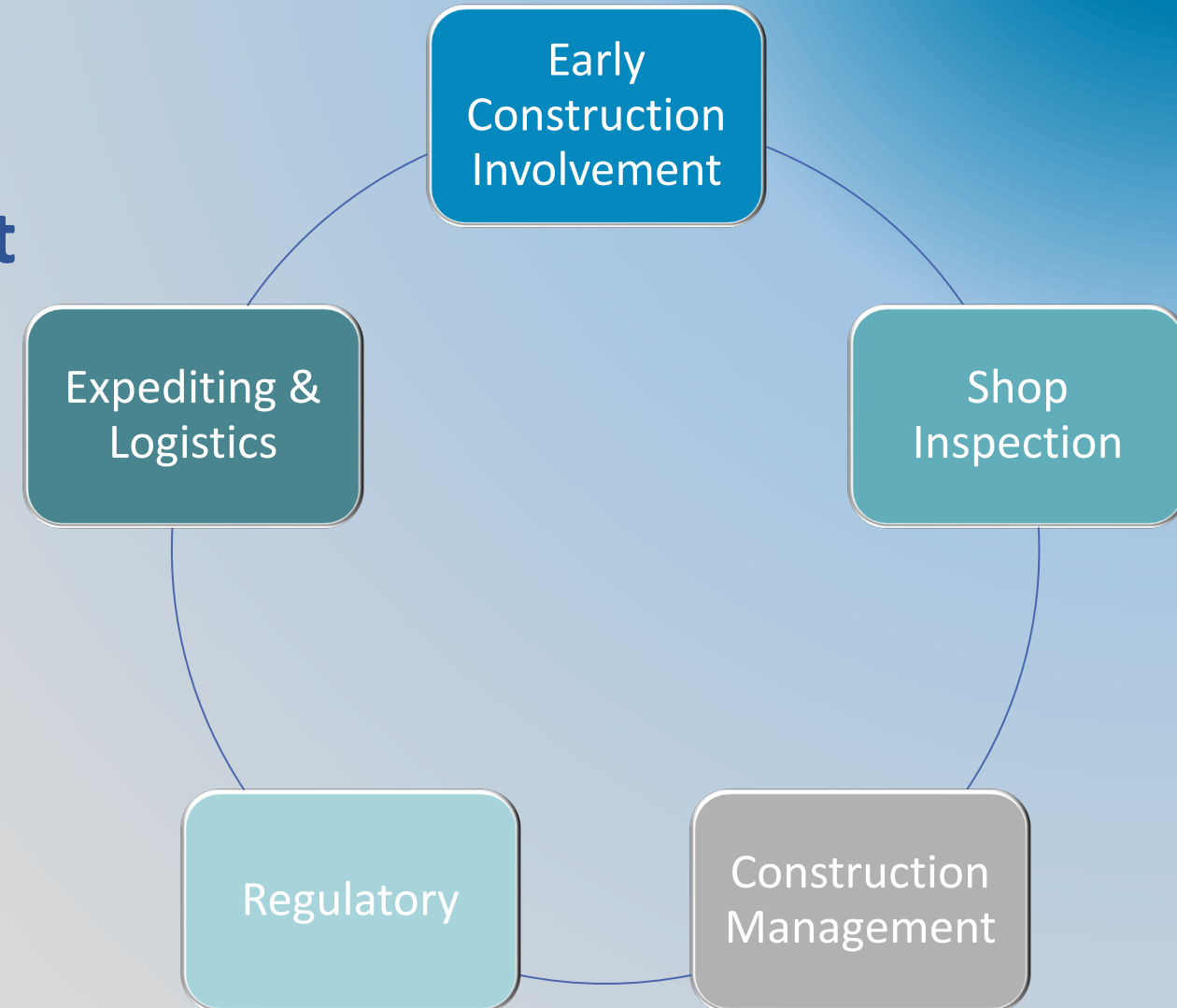
- Power System Analysis and Arc Flash Studies** (via industry standard software ETAP)
- Hazardous Area Classification Design**
- Lighting Studies and Specification**
- Motor Controls Specification and Design**
 - MCCs
 - VFDs
 - Soft Starters
- Heat Trace Specifications and Design**
- Conduit & Cable Tray System Design**
- Process Controls Systems Design**
 - Shutdown Keys
 - Control Philosophies/Narratives
 - Network and Communications Architecture
 - Programming and commissioning for facility PLC, DCS and SCADA systems (Allen Bradley, Siemens, Delta V, Floboss, ScadaPack)
 - HMI Development
- Instrument Specification and Design**
- Equipment/Contractor Bid and Evaluations**
- Electrical Inspections**

- Automation Platforms**
 - Rockwell FactoryTalk View
 - DeltaV
 - RSView32
 - FactoryLink ECS
 - DeltaV DCS, SIS
 - Intellution iFix
 - ABB SCADA Vantage
 - RSLogix 5, 500, 5000
 - Studio 5000 V32
 - VTScada Allen-Bradley Hardware
 - AB Controllogix
 - AB SLC500
 - AB PLC 5
 - Prosoft MVI cards
 - ScadaPack
 - Fisher ROC RTU's
 - GE Fanuc
 - GEO Scada
- Power Generation Specification**
 - Reciprocating Gas Engine Driven
 - Turbines
 - Combined Heat and Power Cogeneration
 - Utility Interconnection
 - Solar Systems
 - Micro Generation
 - Emergency or Standby Systems
 - Temporary Power Solutions
- Power Distribution and Grounding Design**
 - Low & Medium voltage
 - Uninterruptible Power Supply Systems
 - Emergency Transfer
 - Utility Supply

Additional Turn-Key Services



- **Early Construction Involvement**
- **Shop Inspection Services**
- **Construction Management**
- **Regulatory**
- **Expediting & Logistics**



Greenhouse Gas Reduction / ESG Projects

- Currently in the preliminary design phase of adding a Carbon Capture Plant and CO₂ Acid Gas Compressor to Existing NEBC Gas Plant
- CO₂ captured from utility heat medium packages, compressed, and injected into nearby injection well.
- Expected to capture 90% of CO₂ from the flue gas streams (162 metric tonnes per day)



Greenhouse Gas Reduction / ESG Projects

- Electrical power generated for NEBC Plant by electric turbines equipped with Waste Heat Recovery systems
- The WHRU reduce emissions by 78,000 tonnes of CO₂ equivalent per year
- The WHRU consists of:
 - heat recovery exchangers
 - process and utility heat medium circulation pumps
 - back-up utility heat medium heater
- Vapour Recovery Units (VRU) conserve gas from multiple process and utility streams
- Conversion of gas-driven compressors to electric drive
- Installed EFOY hybrid fuel cells to off-grid well pads (converts methanol into electricity)

