



# Major Projects

**Byron Neiles**

**Senior Vice President, Major Projects**

# Key Messages

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- **Significant expansion milestones completed in second half 2014**
- **Proven technical know-how and execution competence**
- **Effectively navigating permitting and legal challenges**
- **\$20B track record positions Enbridge for repeatable performance**

# Experienced Execution

Our competencies have enabled the successful delivery of our past and current portfolio

## Executed Projects

**\$20**  
billion

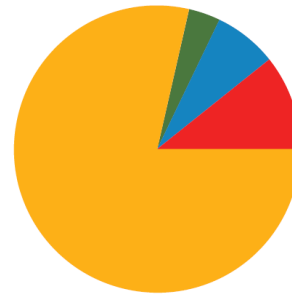
**39**  
projects

33 of 39 projects under or on schedule

Completed at <5% under budget

2008 – Q3 2014

## Projects in Execution\*



\$0.2	1	Green Energy
\$0.3	2	Offshore
\$1.2	3	Gas
\$24.9	21	Liquids

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**\$27**  
billion

**27**  
projects

\*Excludes \$1B under execution by third parties

# Projects Under Management

**\$27B** - MP Portfolio up from \$20B

**\$11B** - 5 new projects announced

- Line 3 Replacement - \$7.5B
- Keechi Wind - \$0.2B
- Wood Buffalo Extension - \$1.6B
- Norlite - \$1.4B
- Sunday Creek Terminal - \$0.2B

**\$4B** - 10 projects put into service

- Mainline Enhancement - \$0.6B
- Eastern Access - \$2.8B
- Green Energy - \$0.3B
- Oil Sands - \$0.7B
- Rail - \$0.1 B

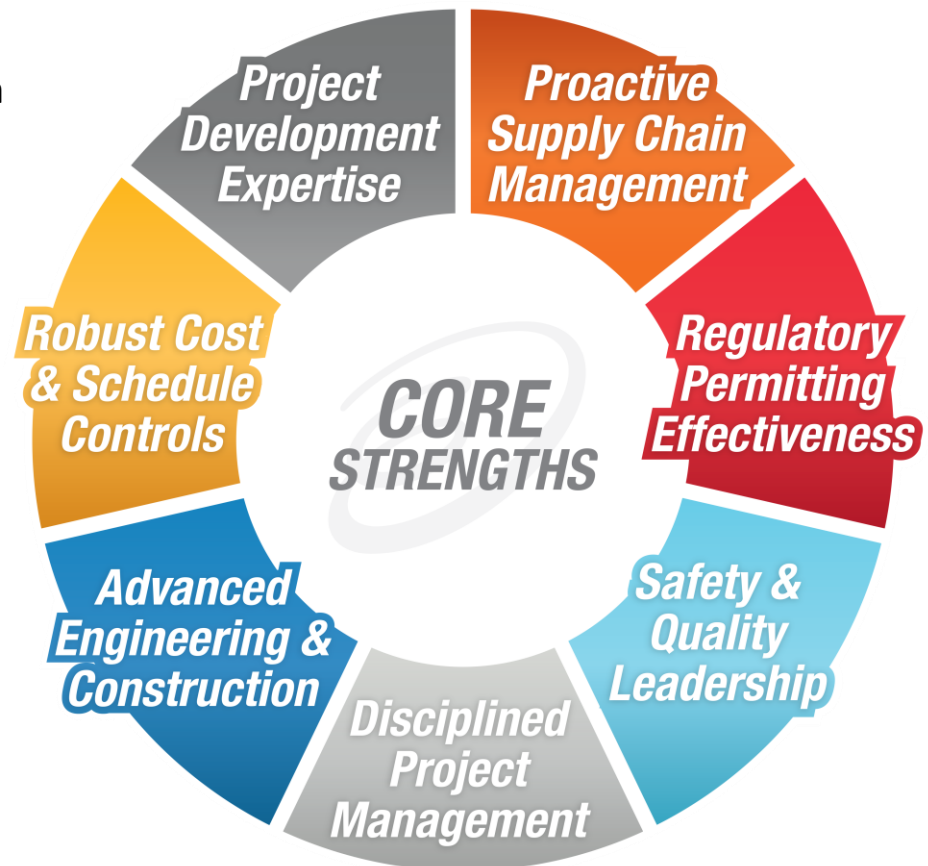




# Industry Challenges

Challenges effectively managed through the application of our core strengths

- **Securing Regulatory Approval**
  - Aggressive & well-funded opposition
  - Increasing ENGO litigation
- **Securing Supply**
  - Industry demand
  - Regional tightness
- **Cost Escalation**
  - Longer regulatory cycles
  - Competition
- **“Path to Zero”**
  - 20+ million field hours
  - 10,000+ field labor



# Canadian Mainline Expansion



- **Phase I complete**
  - 450 to 570 kbpd
- **Phase II stations underway**
  - 570 to 800 kbpd
- **Leveraged existing footprint**
- **Managed costs through standardized design**
- **Frame agreements in place to secure station supply**

**Cost:** \$0.7B

**Scope:** Alberta Clipper expansion; 450 - 800 kbpd (2 phases)

**Program:** Western USGC Access

# Lakehead System Mainline Expansion



- **Phases complete**
  - ABC Phase I - September 2014
  - SA Phase I - July 2014
- **ABC Phase II Minnesota approval received August 28**
- **SA to 1200 kbpd in-service target 2015-2016 (phases)**
- **DoS SEIS in progress**

**Cost:** \$1.8B

**Scope:** Alberta Clipper (ABC) expansion 450 - 800 kbpd (2 phases);  
Southern Access (SA) expansion 400 - 1200 kbpd (2 phases)

**Program:** Western USGC Access / Light Oil Market Access

# Line 6B Replacement & Eastern Access Ph I & II



- **New Line 6B in-service**
  - Line 6B 75 mile - 2013 to March 2014
  - EA Phase I - April 2014
  - EA Phase II - September 2014
- **Restore and expand capacity to US and Canadian refiners**
- **Performed under public scrutiny**

**Cost:** \$2.8B

**Scope:** Line 6B replaced from Griffith to St. Clair

**Program:** Eastern Market Access



# Eastern Access Line 9 Reversal & Expansion



- Addressing public confidence and regulatory demands
- Committed to ongoing public dialogue and education
- Consulted with
  - 2600+ stakeholders;
  - 60+ municipalities;
  - 6+ conservation authorities
- In-service: November

**Cost:** \$0.7B

**Scope:** Reversal and Expansion from 240 – 300 kbps

**Program:** Eastern Market Access

# Sandpiper



**Cost:** \$2.6B

**Scope:** 610 mile pipeline from North Dakota to Wisconsin

**Program:** Light Oil Market Access

- 90% of ROW acquired
- Multi-jurisdictional regulation
- North Dakota approvals secured June 2014
- Lengthened Minnesota two-step regulatory process
  - Certificate of Need
  - Route review
- In-service: 2017

# Line 3 Replacement



- **Building off recent experience**
  - Existing stakeholder relationships
  - Comprehensive project data
- **Applying successful project formula**
  - Experienced project teams
  - Longstanding Enbridge corridor
- **Securing supply through CAD and US frame agreements**
- **In-service: 2017**

**Cost:** \$7.5B

**Scope:** Replace & restore capacity on existing Line 3; Hardisty to Superior

**Program:** Line 3 Replacement

# Flanagan South



- **Completed September 21; line fill in November**
- **World's longest 36" river crossing**
- **Industry leading weld quality**
- **Overcame regulatory delays**

“ Enbridge has gone out of its way to make sure it has addressed all of its obligations. ”  
- US District Court

**Cost:** \$2.8B

**Scope:** 593 mile pipeline from Flanagan to Cushing; 585 kbpd

**Program:** Western US Gulf Coast Access



# Flanagan South: Securing Regulatory Approval

4

## States

109 Municipalities

711 Civil Permits

4

## Federal Agencies

15 Authorizations

9

## State Agencies

33 Authorizations

9

## Municipal Agencies

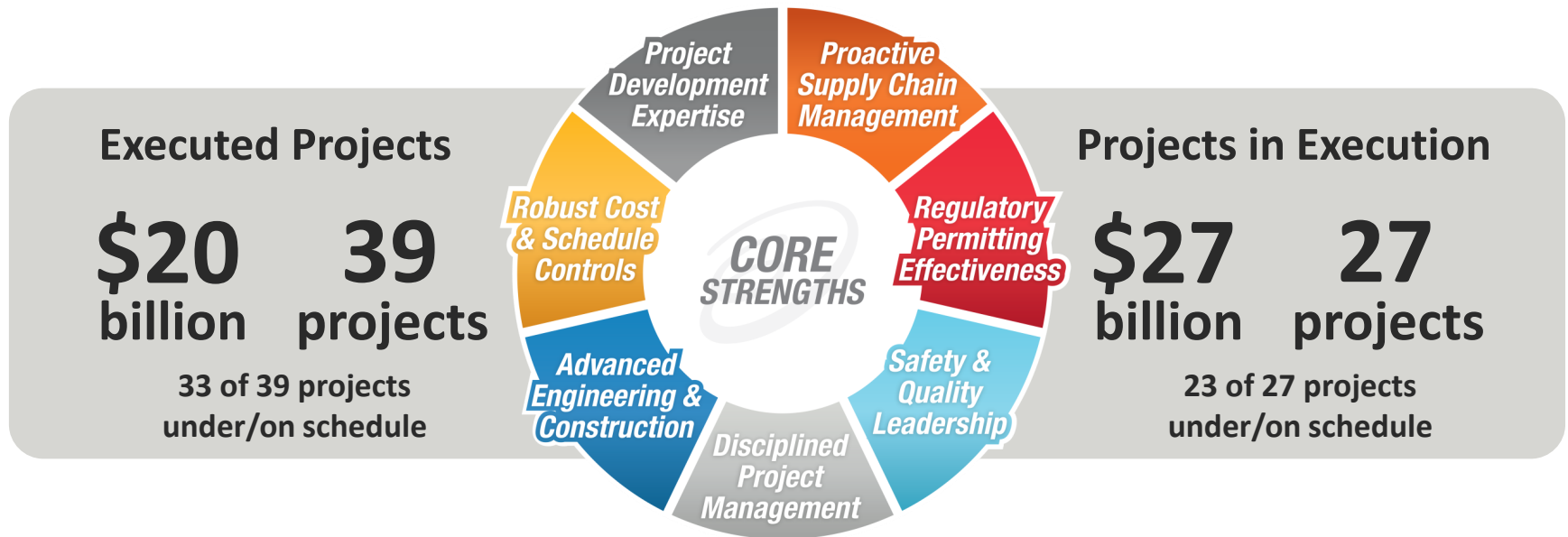
9 Authorizations

- Multiple permits from multiple agencies
- Forecast receipt of all permits by Q3 2013
  - Received approvals for 97% of the pipeline by August 2013 and began construction
  - BIA and river crossing approvals outstanding
- ENGOs sued US Government August 2013
  - ENGO motion for injunction denied November 2013; Lawsuit dismissed August 2014
  - All remaining approvals received by July 2014; Construction completed September 2014
- Due diligence emphasized by US District Court
  - Established credibility with agencies



# Executing with Confidence

Proven competencies enable repeatable performance





## Q&A

**Byron Neiles**  
**Senior Vice President, Major Projects**