Major Projects

Byron Neiles
Senior Vice President, Major Projects
Key Messages

• 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
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 billion 1 Green Energy
- $0.3 billion 2 Offshore
- $1.2 billion 3 Gas
- $24.9 billion 21 Liquids

$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
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 kbpsd in-service target 2015-2016 (phases)
- DoS SEIS in progress

Cost: $1.8B

Scope: Alberta Clipper (ABC) expansion 450 - 800 kbpsd (2 phases); Southern Access (SA) expansion 400 - 1200 kbpsd (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 kbdp
Program: Eastern Market Access
Sandpiper

- 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

Cost: $2.6B
Scope: 610 mile pipeline from North Dakota to Wisconsin
Program: Light Oil Market Access
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

- 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

Executed Projects
$20 billion
39 projects
33 of 39 projects under/on schedule

Projects in Execution
$27 billion
27 projects
23 of 27 projects under/on schedule
Q&A

Byron Neiles
Senior Vice President, Major Projects