Connecting Crude Oil Production to Markets

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Enbridge Overview
North American Leader in Energy Transportation
• ~ 4.5 million bbls per day of potential growth in North America
• Light oil growth set to outpace heavy oil growth
Potential North American Crude Oil Supply Balance

Crude Oil Supply Source

- Domestic production growth provides opportunity to displace foreign sourced crude oil
Crude Oil Disposition By Market

- **PADD V (2188)**: 1158 (US Domestic Supply), 866 (Non-Canadian), 0 (Canadian Supply)
- **PADD IV (529)**: 233 (US Domestic Supply), 296 (Non-Canadian), 0 (Canadian Supply)
- **Cushing, TX Panhandle (966)**: 546 (US Domestic Supply), 411 (Non-Canadian), 0 (Canadian Supply)
- **PII NW, Chicago (1174)**: 379 (US Domestic Supply), 795 (Non-Canadian), 0 (Canadian Supply)
- **Eastern PADD II (816)**: 229 (US Domestic Supply), 587 (Non-Canadian), 0 (Canadian Supply)
- **South of Chicago (462)**: 278 (US Domestic Supply), 184 (Non-Canadian), 0 (Canadian Supply)
- **Permian Basin (266)**: 257 (US Domestic Supply), 8 (Non-Canadian), 0 (Canadian Supply)
- **West USGC (3771)**: 2890 (US Domestic Supply), 0 (Non-Canadian), 0 (Canadian Supply)
- **East USGC (3241)**: 1923 (US Domestic Supply), 0 (Non-Canadian), 0 (Canadian Supply)
- **US East Coast (1000)**: 833 (US Domestic Supply), 0 (Non-Canadian), 0 (Canadian Supply)
- **Atlantic Canada (431)**: 343 (US Domestic Supply), 0 (Non-Canadian), 88 (Canadian Supply)
- **Ontario, Warren (427)**: 41 (US Domestic Supply), 285 (Non-Canadian), 0 (Canadian Supply)
- **Quebec (334)**: 155 (US Domestic Supply), 12 (Non-Canadian), 0 (Canadian Supply)

*Source: EIA/StatsCan/NEB/Enbridge estimates*
Price Signals For Infrastructure Development

Note: Pricing reflects 2012 year to date averages
• Enbridge system continues to provide the broadest market access
Alberta Regional Infrastructure

- Total Secured Capital = $3.4 B

1. Expand Waupisoo Pipeline to 580 kbpd (2012/2013)
2. Expand Athabasca Pipeline to 600 kbpd (2012/2013)
5. Construct Norealis Pipeline (2013)
7. Construct additional facilities for Suncor (2013)

- Total Potential Capital = $4+ B

- Woodland Pipeline Extension (Permitted)
- Additional Cheecham-Edmonton pipeline
- Diluent import pipeline
- New oilsands projects infrastructure
Bakken Regional Infrastructure

- Total Secured Capital = $0.8 B

1 Bakken Expansion Project (2013)
   - 145 kbdp

2 Bakken Access Program (2013)
   - 100 kbdp

3 Berthold Rail (2013)
   - 80 kbdp

Total Potential Capital = $2.5+ B

- Sandpiper Pipeline (to Superior)
- Other rail terminal assets
# 1. Seaway Pipeline Acquisition + Reversal ($1.4B)
- Enbridge Inc. and Enterprise JV
- Reversed Service Started May 2012
- Initial capacity 150 kbdp, up to 400 kbdp by Q1 ‘13
- Connectivity to ECHO Terminal in 2013 (65 miles)

# 2. Seaway Pipeline Twin + Lateral ($1.0B)
- Enbridge Inc. and Enterprise JV
- Twin Seaway Pipeline (515 miles)
- Initial capacity 450 kbdp, In-service mid-2014
- Connectivity to Port Arthur (85 miles)

# 3. Flanagan South Pipeline ($2.8B)
- Enbridge Inc. 100%
- Twin Spearhead Pipeline (36-inch pipeline, 591 miles)
- Initial capacity 585 kbdp, expandable to 800 kbdp
- In-service mid-2014

• Total Secured Capital = $5.2 B
Eastern Access

- Total Secured Capital = $2.7 B

1. **Line 5 Expansion (2013)**
   - 50 kbpd capacity increase into Sarnia (540 kbpd total)

   - 240 kbpd reversal to access refineries in Ontario and Quebec

3. **Toledo Pipeline Partial Twin (2013)**
   - +100 kbpd access to Michigan and Ohio refineries (180 kbpd total)

4. **Spearhead North Expansion (2014)**
   - +105 kbpd capacity increase into Chicago (235 kbpd total)

5. **Line 6B Replacement (2013/2014)**
   - +260 kbpd capacity expansion into Sarnia (500 kbpd total)
Potential Future Market Access

Total Potential Capital = $2.5+ B

- Line 9 Expansion
- PADD 1 Rail Access
- Southern Access Extension to Patoka
- Eastern USGC Access

Hardisty
Cushing
Patoka
Montreal
Eastern PADD II
Eastern USGC
US East Coast
Quebec
Sarnia
Westover
Chicago
Toledo
Montreal
Patoka
Eastern USGC
Mainline Expansion Projects

1. Alberta Clipper Canada Expansion
   - 120 kbd increased capacity to 570 kbd
2. Alberta Clipper U.S. Expansion
   - 120 kbd increased capacity to 570 kbd
3. Southern Access Expansion
   - 160 kbd increased capacity to 560 kbd

Total Secured Capital = $0.6 B

Total Potential Capital = $5+ B

- Expand Edmonton – Hardisty
- Expand Alberta Clipper to 800 kbd
- Expand Southern Access to 1,200 kbd
- Expand Chicago Connectivity (line 62)
- Expand East of Chicago (line 6B)
- Expand Cromer – Clearbrook (line 65)
Enbridge Expanded Market Access

1. **US Gulf Coast Access:**
   - Seaway: 2012
   - Seaway Twin: 2014
   - Flanagan South: 2014
   - Patoka South / Eastern Gulf

2. **Eastern Access:**
   - Toledo spur expansion: 2013
   - Line 9 reversal to MTL: 2014
   - Line 6B expansion: 2013
   - Mainline expansion: 2013

3. **Western Access:**
   - Northern Gateway Pipeline
   - In Service 2018
   - 500 kbd crude line
   - 180 kbd condensate line
   - Potential ~$6.5 Billion
Northern Gateway Pipeline

- Critically important to Canada, Alberta, and Energy Industry
- Significant economic spin-offs, jobs and community benefits
- Targeting 2018 in-service on terms, and with environmental protection measures, acceptable to all stakeholders
Conclusion

✓ Investing in infrastructure to get production to market

✓ Providing Bakken producers with access to premium light sweet markets

✓ Providing Canadian heavy oil producer with access to premium heavy markets

✓ Developing projects to access more markets and provide greater optionality