

## Unconventional Energy Markets and Tank Cars Presentation to NGFA

March 2012

Unless otherwise noted, GATX is the source for data provided





#### Forward-Looking Statements

This document contains statements that may constitute forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 and are subject to the safe harbor provisions of those sections and the Private Securities Litigation Reform Act of 1995. Some of these statements may be identified by words like "anticipate," "believe," "estimate," "expect," "intend," "plan," "predict," "project" or other similar words. Investors are cautioned that any such forward-looking statements are not guarantees of future performance and involve risks and uncertainties, including those described in GATX's Annual Report on Form 10-K for the year ended December 31, 2011 and other filings with the SEC, and that actual results or developments may differ materially from those in the forward-looking statements.

Specific factors that might cause actual results to differ from expectations include, but are not limited to, (1) general economic, market, regulatory and political conditions affecting the rail, marine and other industries served by GATX and its customers; (2) competitive factors in GATX's primary markets, including lease pricing and asset availability; (3) lease rates, utilization levels and operating costs in GATX's primary operating segments; (4) conditions in the capital markets or changes in GATX's credit ratings and financing costs; (5) risks related to compliance with, or changes to, laws, rules and regulations applicable to GATX and its rail, marine and other assets; (6) costs associated with maintenance initiatives; (7) operational and financial risks associated with long-term railcar purchase commitments; (8) changes in loss provision levels within GATX's portfolio; (9) conditions affecting certain assets, customers or regions where GATX has a large investment; (10) impaired asset charges that may result from changing market conditions or portfolio management decisions implemented by GATX; (11) opportunities for remarketing income; (12) labor relations with unions representing GATX employees; and (13) the outcome of pending or threatened litigation.

Given these risks and uncertainties, readers are cautioned not to place undue reliance on these forward-looking statements, which reflect management's analysis, judgment, belief or expectation only as of the date hereof. GATX has based these forward-looking statements on information currently available and disclaims any intention or obligation to update or revise these forward-looking statements to reflect subsequent events or circumstances.



- Rail-served markets are interconnected
- Developments in "unconventional" energy markets have changed supply and demand for tank cars
- This presentation will:
  - –Help NGFA members to understand how unconventional energy markets have affected – and will continue to affect – the pricing and availability of tank cars
  - Suggest what NGFA members can do to ensure reasonable access to tank cars during challenging markets

#### GATX Worldwide Railcar Fleet





wholly-owned railcars as of 12/31/11 Based on 2011 Rail revenues approximately \$966 million

Which unconventional energy markets rely most on tank cars?



- Shale plays
  - -Outbound crude
  - -Outbound condensate and NGLs
- Canadian oil sands
  - -Inbound condensate
  - -Outbound crude
- Biofuels
  - -Outbound ethanol
  - -Outbound biodiesel



- Large non-insulated GS tanks for light crude, ethanol, and condensate
- Large insulated GS tanks for heavier crude and biodiesel
- Large pressure cars for NGLs and condensate
- Niche car types
- All tank car types are affected by high demand and longer backlogs
- Many of these cars are used by NGFA member companies



# Long-Term US Energy Production and Consumption



#### Total energy production and consumption, 1980-2035 (quadrillion Btu)



U.S. dependency on imported energy will decline over time

Source: EIA

#### Shale Drilling Rigs





Source: Bentek Energy

Note: Active rig count: Feb. 24, 2012 / Change in rig count from Feb. 25, 2011



### **U.S. NGL Production Forecast**



STRENGTH

PERFORMANCE

OPPORTUNITIES





#### **Forecasting Williston Basin Oil Production, BOPD**



Source: North Dakota Pipeline Authority

#### Alberta Oil Sands





- Total oil reserve is currently estimated at 1.8 trillion barrels
- Current recoverable oil reserve at 169.3 billion barrels in oil sand and 1.5 billion barrels in conventional crude oil
- Third largest oil reserve in the world behind Saudi Arabia and Venezuela

Source: Canadian Association of Petroleum Producers

Page | 12|

#### Western Canadian Sedimentary Basin Production



million b/d	2010	2015	2020	2025
Conventional	1.08	1.10	0.99	0.86
(including condensate)				
Oil Sands	1.47	2.16	3.00	3.73
Growth Case	2.55	3.26	3.99	4.59

- In 2010, Western Canadian Sedimentary Basin, which includes most of Alberta, parts of Saskatchewan, British Columbia, Manitoba and the Northwest Territories produced 2.55 million barrels/day
  - Alberta's production alone is 1.6 million barrels/day

#### **Crude Pipelines**



Source: Canadian Association of Petroleum Producers

STRENGTH

OPPORTUNITIES

PERFORMANCE

#### Keystone XL





- Transport crude from Keystone Hardisty Terminal in Alberta to Houston
- Estimated to go in service in 2015 with a total capacity of 1.1 million barrels/day
- Decided to build southern leg from Cushing to Gulf of Mexico with estimated in service date in mid 2013 carrying 700,000 barrels/day

Source: TransCanada



**November 2011 Estimates** 

Source: North Dakota Pipeline Authority





- Crude unit trains typically range from 95-118 cars
- Aggregate unit-train capacity is between 65,000 and 85,000 barrels of crude
- Cycle times vary depending destinations, but 14 day round-trips to the Gulf Coast region appear to be the norm
  - This implies very high mileage---up to 100,000 miles per year vs. ~30,000 for a typical generalservice tank car.

Source: Reuters

#### Williston Basin Outbound Trains



Outbound Rail Expansions							
Company	Rail Facility Location	Expected Completion	Additional Capacity				
Bakken Oil Express	Dickinson, ND	In-Service	60,000				
Savage	Trenton, ND	2Q 2012	60,000				
Hess	Tioga, ND	1Q 2012	54,000				
Enbridge	Berthold, ND	3Q 2012; 1Q 2013	10,000 in 3Q2012; 70,000 in 1Q2013				
Rangeland	Epping, ND	2Q 2012	80,000				
Musket Corp	Dore, ND	1Q 2012	70,000				
Total			404,000				

Source: Bentek Energy





Source: EIA and AAR

#### **Bakken Forecast**

PERFORMANCE

OPPORTUNITIES

STRENGTH



Source: BNSF

# Existing & Planned Rail Locations in ND





Source: North Dakota Pipeline Authority In 1/24/2012 presentation North Dakota Rail Transportation Forecast Capacity



Source: North Dakota Pipeline Authority

STRENGTH

PERFORMANCE

OPPORTUNITIES

### **Brent-WTI Spread**



**Annual Brent-WTI Spread since 1987** 



- Bottleneck in Cushing set back WTI price
- CME forecasts the Brent-WTI spread will return to \$2-\$4 by 2015 due to increased capacity of pipelines relieving the bottleneck in Cushing, OK

Source: Reuters

#### Key questions:



Project Name	Primary Owner	Location	Destination, if applicable	Estimated In- service Date	Capacity					
St. James Terminal	U.S. Development Group	Louisiana		10/21/2011	65,000					
Eunice & Riverside Facilities	Crosstex	Louisiana		12/31/2011	6,000					
Rangeland Rail Facility	Rangeland (Tesoro lease)	Williams County, ND	Anacortes, WA	3/1/2012	28,000					
Permian Basin	Flint Hills/Koch Supply	Odessa, TX	Texas Gulf Coast	3/1/2012	20,000					
St James Terminal	EOG Resources/NuStar	Louisiana		4/1/2012	50,000					
OmniPort	GT Logistics	Port Arthur, TX		5/1/2012	100,000					
Port Arthur Crude Terminal	Savage Industries	Port Arthur, TX		7/1/2012	50,000					
Eunice & Riverside Facilities	Crosstex	Louisiana		9/1/2012	8,000					
St James Terminal	EOG Resources/NuStar	Louisiana		12/1/2012	50,000					
Eunice & Riverside Facilities	Crosstex	Louisiana		9/1/2013	50,000					
Bakken Oil Express	Lario Logistics	Dickinson, ND	St. James, LA	11/1/2013	60,000					
Various Permian, phase 1	Various	Permian Basin	Texas Gulf Coast	12/1/2012	30,000					
Various Permian, phase 2	Various	Permian Basin	Texas Gulf Coast	6/1/2012	30,000					
Total					547,000					
Resulting Volumes Not Going to Cushing-linked Markets										

Facilities Displacing Cushing-Bound

- How many light crude cars do we need:
  - -Today?
  - If pipeline infrastructure gets built out fully?
  - -If the Brent-WTI spread narrows over the longer term?

And let's not forget ethanol...



#### Rail Carload of Ethanol vs Ethanol Production (Index Year=2000)



- Domestic market saturated
- Current U.S. fuel mandate remains at E-10 with no current expectation to increase
- Ethanol exports main force for short-term demand

Source: RFA, IHS Global Insight and GATX Page | 25



- Recent derailments caused regulatory scrutiny of tank cars carrying flammable liquids in unit-train service
- AAR approved new designs
- FRA rulemaking process is underway
- Uncertainty on what the final rule will be (NTSB Report)
- GATX and others actively engaged in dialogue with regulators



## North American Rail Market



- North American rail market continues to improve
  - Rail traffic recovered from the low point, but has not achieved prior peak levels

STRENGTH

PERFORMANCE

OPPORTUNITIES

- Industry-wide idle railcar inventory has declined
- New car backlogs have lengthened substantially

<sup>\*</sup>Source: Railway Supply Institute





- Energy prices/demand
- Energy subsidies/mandates
- Environmental pressures
- Railcar design/regulatory questions
- Unit-train efficiencies
- Competing modes (pipeline)
- Macroeconomic issues (continued recovery or return to recession)



- Near-term tankcar demand is robust, and market
  is extremely tight
- Risk factors abound in both directions
- Shippers urged to act in advance to secure car supply
  - -LPG, larger tanks (EC/I and NC/NI)
  - -All tanks affected by backlog
- Mission-critical car needs should not be left to chance