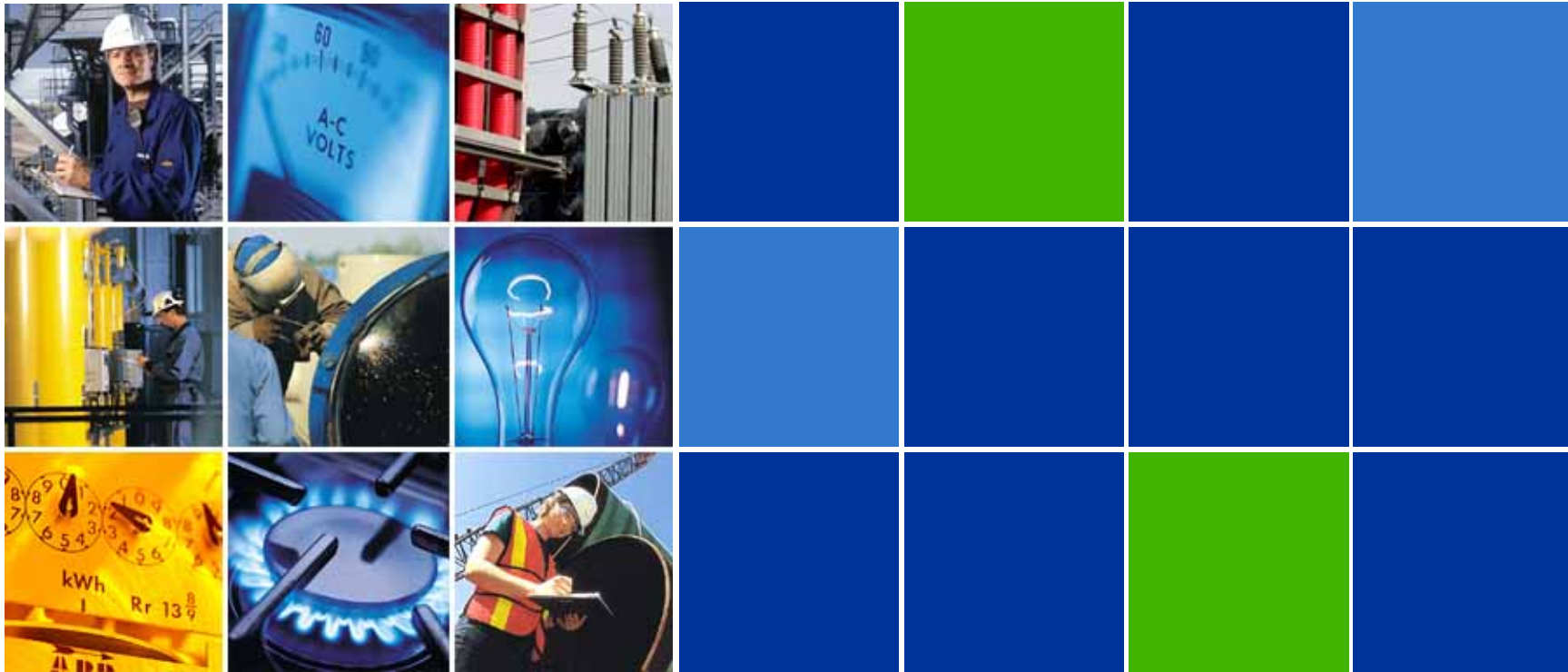


# Northern Border Pipeline Company Customer Meeting

*Scottsdale, Arizona  
April 9-10, 2008*



Welcome

Bill Fonda  
*Manager, Marketing*

# Business Meeting Agenda – April 10, 2008



*Welcome & Opening Comments*

Bill Fonda 8:00 – 8:10 a.m.

*Bison*

Dick Shepherd 8:10 – 8:30

*Pathfinder Gas Pipeline*

Todd Johnson 8:30 - 8:45  
Director, US Pipeline Development  
TransCanada

*Break*

8:45 – 9:00

*Available Capacity*

Jeff Nielsen 9:00 – 9:15

*Operational Update*

Scott Coburn 9:15 – 9:30

*Update on Alaska and Mackenzie Projects;  
Climate Change Legislation & Impact on  
Natural Gas Demand*

Bill Langford 9:30 - 10:00  
Vice President, Pipeline Strategy  
TransCanada



## Bison Discussion

Dick Shepherd

Account Director, Marketing & Optimization

# Agenda

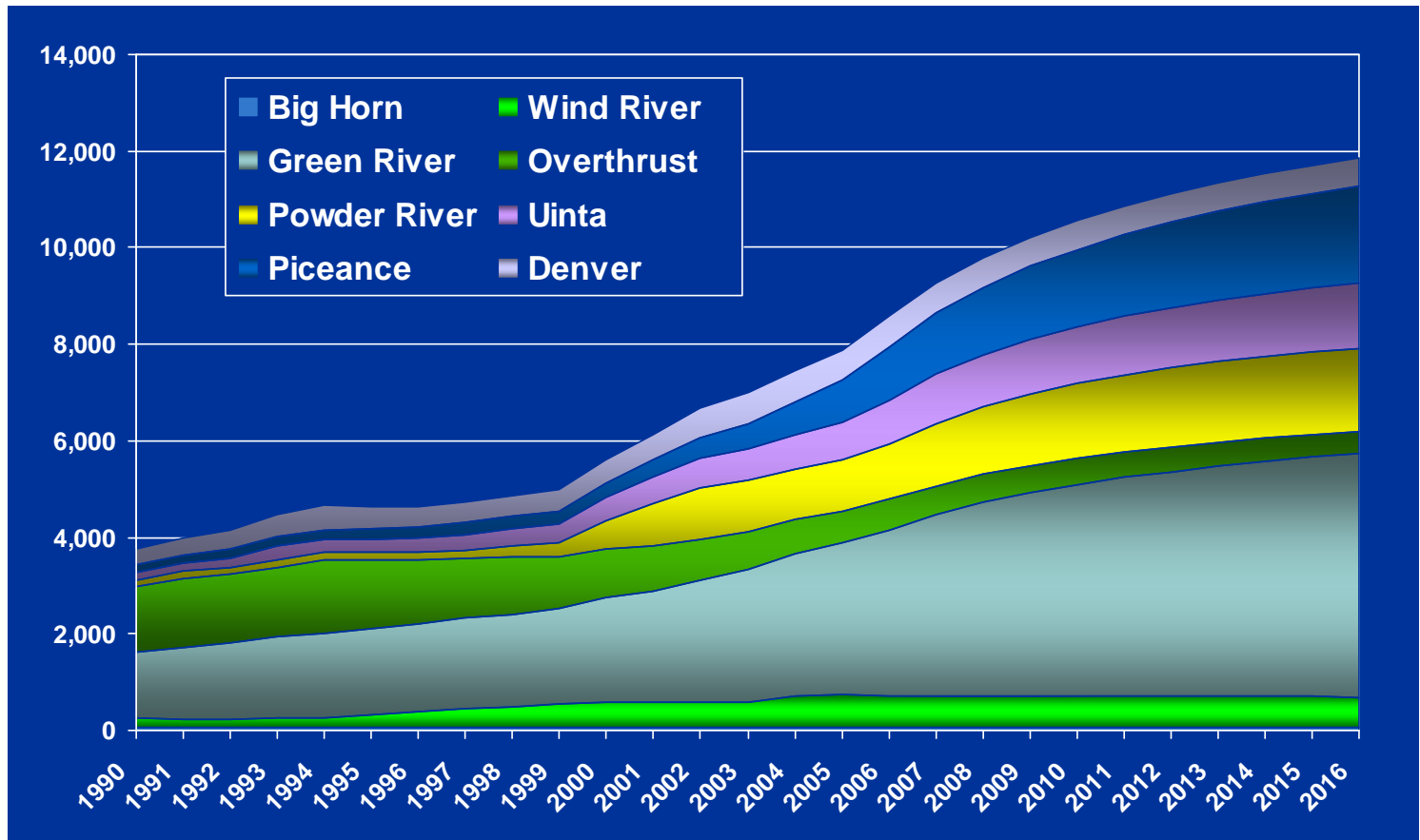


- Rockies Production
- Bison
  - Status Update
  - Open Season & Overview
  - Assumption & Terms
  - Netback Comparison
  - Milestones & Timeline
  - Cheyenne Backhaul
- Summary

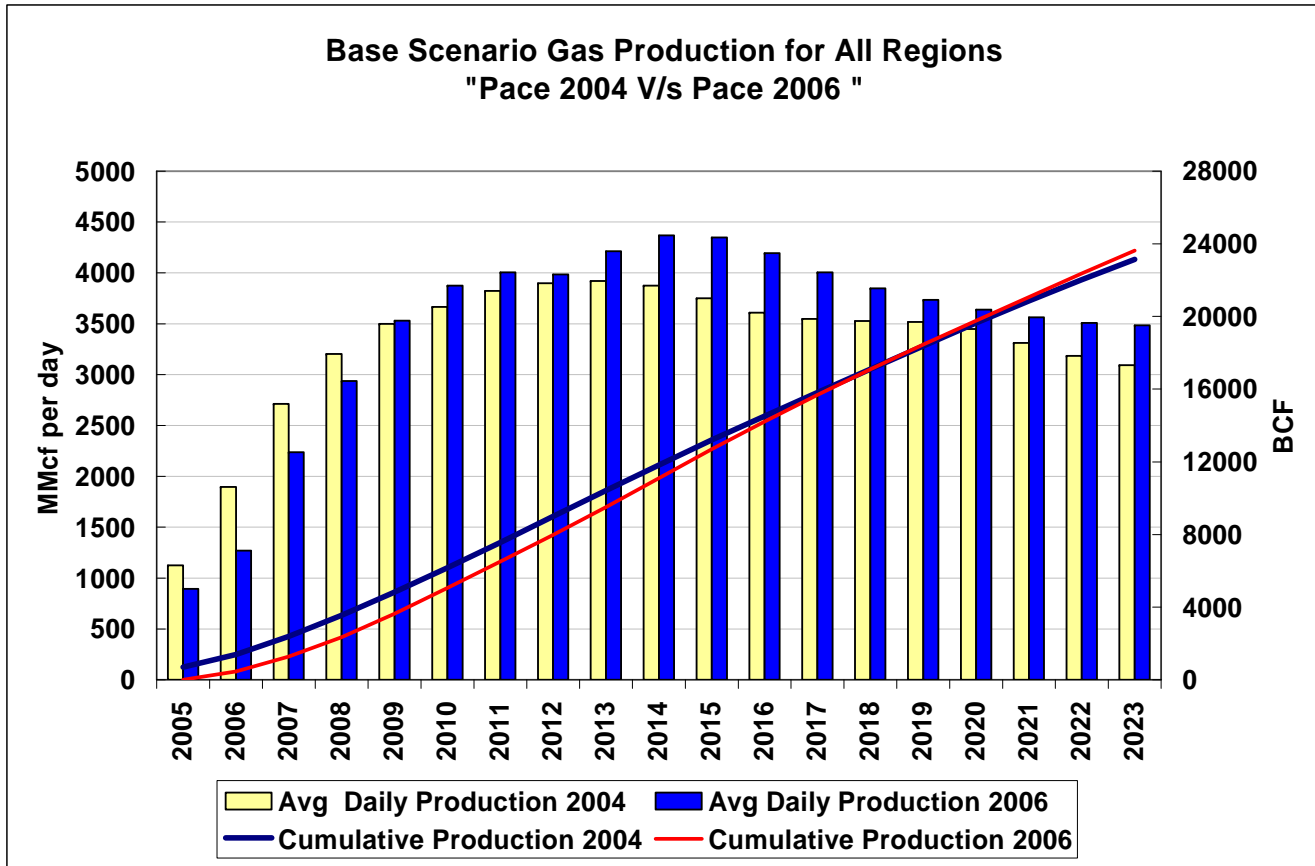
# Rocky Mountain Production by Basin



(Volumes are Wellhead – Measured in MMcfd)

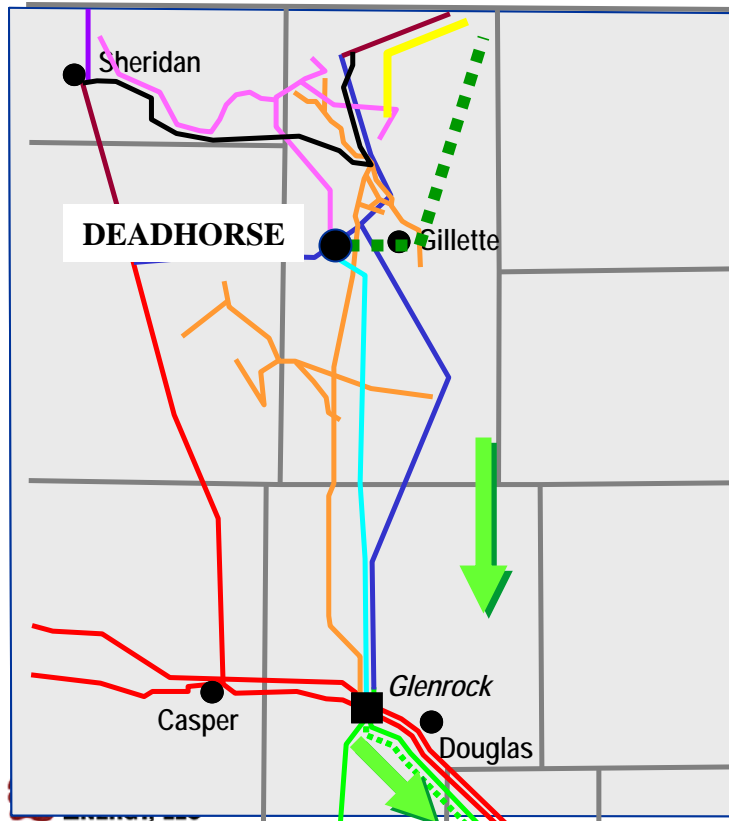


# Powder River Basin Gas Production



Source: PACE Global Energy Services  
WPA – 10/24/2006

# Powder River Basin Pipelines



LEGEND	
	KNI 245 MMCFD
	CIG 212 MMCFD
	MIGC 130 MMCFD
	WBI 96 MMCFD
	TCGS 450 MCFD
	FUGG 1.2 BCFD (2008)
	Redstone 20 MMCFD
	BHGG 250 MMCFD
	WBI BC 150 MMCFD
	WIC MB 1.08 BCFD
	Grasslands 80-200 MMCFD
	Bison up to 660 MMCFD



# Status Update



- Comprehensive negotiations nearing completion with Foundation Shipper
- Advanced negotiations with Anchor Shippers
- Bison, coupled with Northern Border transportation, continues to offer superior netbacks

# Bison Open Season & Overview

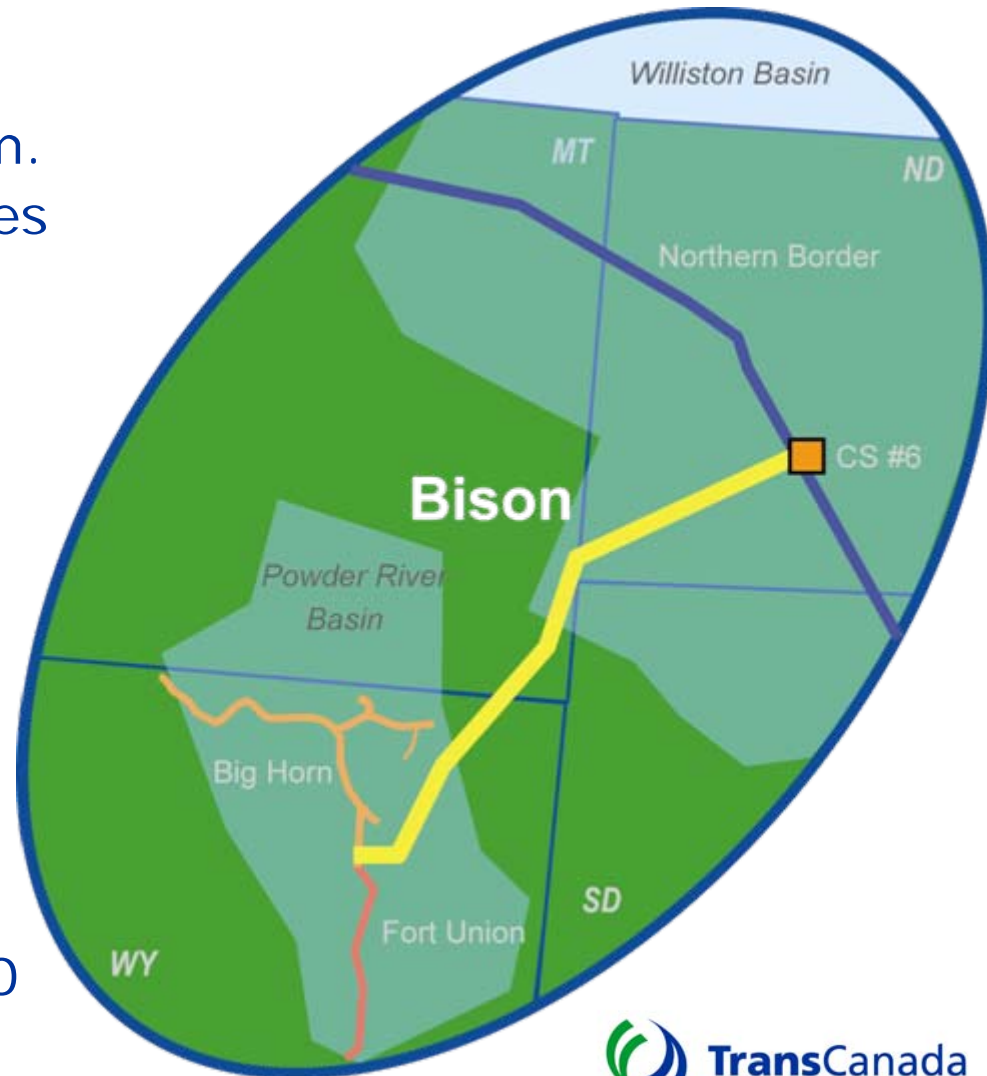


## Open Season

- Commenced 4/4/08
- Closes 5/16/08 @ 12:00 p.m.
- Deadline for bid contingencies 5/30/08 @ 12:00 p.m.
- [www.northernborder.com](http://www.northernborder.com)

## Overview

- 289 Miles
- 24" Pipeline
- Capacity 406 MMcf/d
  - 13,000 HP
  - Fuel .62%
  - Capital \$498 Million
- Max. Capacity 660 MMcf/d
- In-Service date: 11/15/2010



# Bison Assumptions & Terms



- Rate Summary
  - Bison
    - \$.55 reservation rate – Deadhorse to CS6
    - Reservation rate subject to 10% rate cap based on final costs
    - Fuel estimated at .62%
    - Receipt Pressure 1400 psig
  - Northern Border Pipeline
    - \$.23 reservation rate – POM to Ventura
    - Fuel Average CS6 to Ventura at 1.29%
  - 10-Year Term

# Bison Netback Comparison to Deadhorse, WY

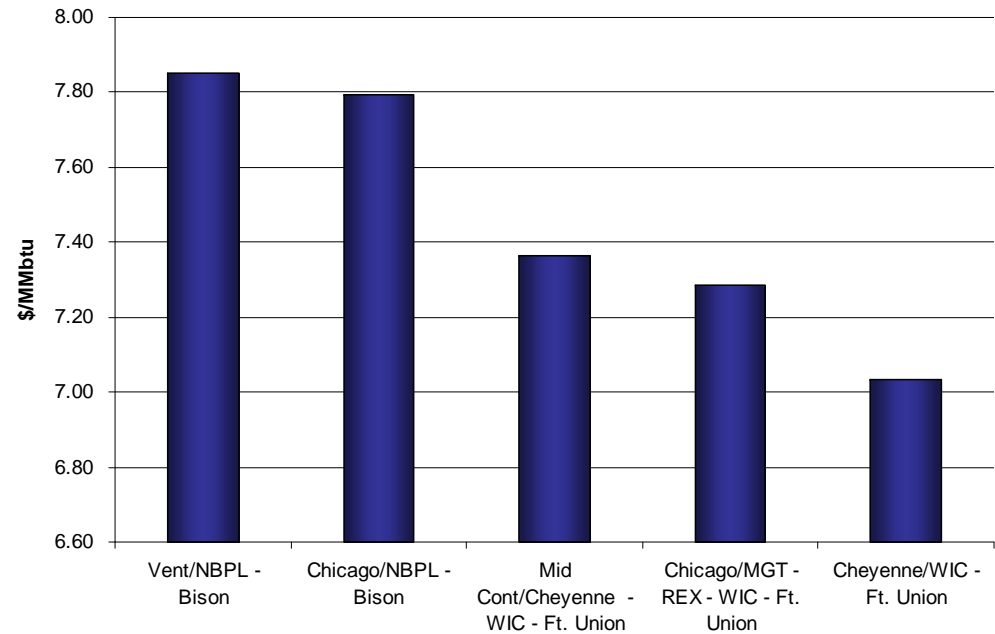
March 31, 2008



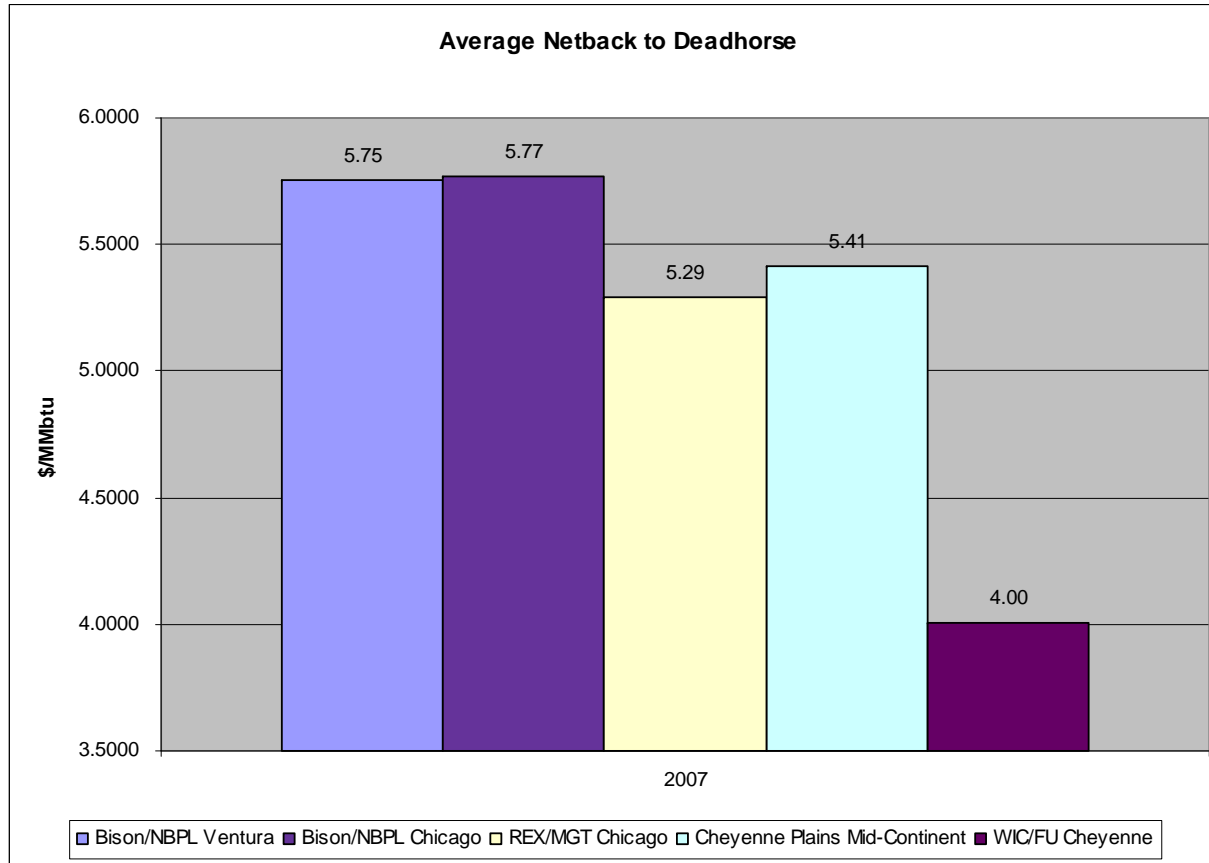
<i>Path</i>	<i>*</i>
Vent/NBPL – Bison	7.85
Chicago/NBPL – Bison	7.79
Mid Cont/Cheyenne Plains – WIC – Ft. Union	7.36
Chicago/MGT – REX – WIC – Ft. Union	7.29
Cheyenne/WIC – Ft. Union	7.03

\*FW 2011 Netback to Deadhorse

FW 2011 Netback to PRB



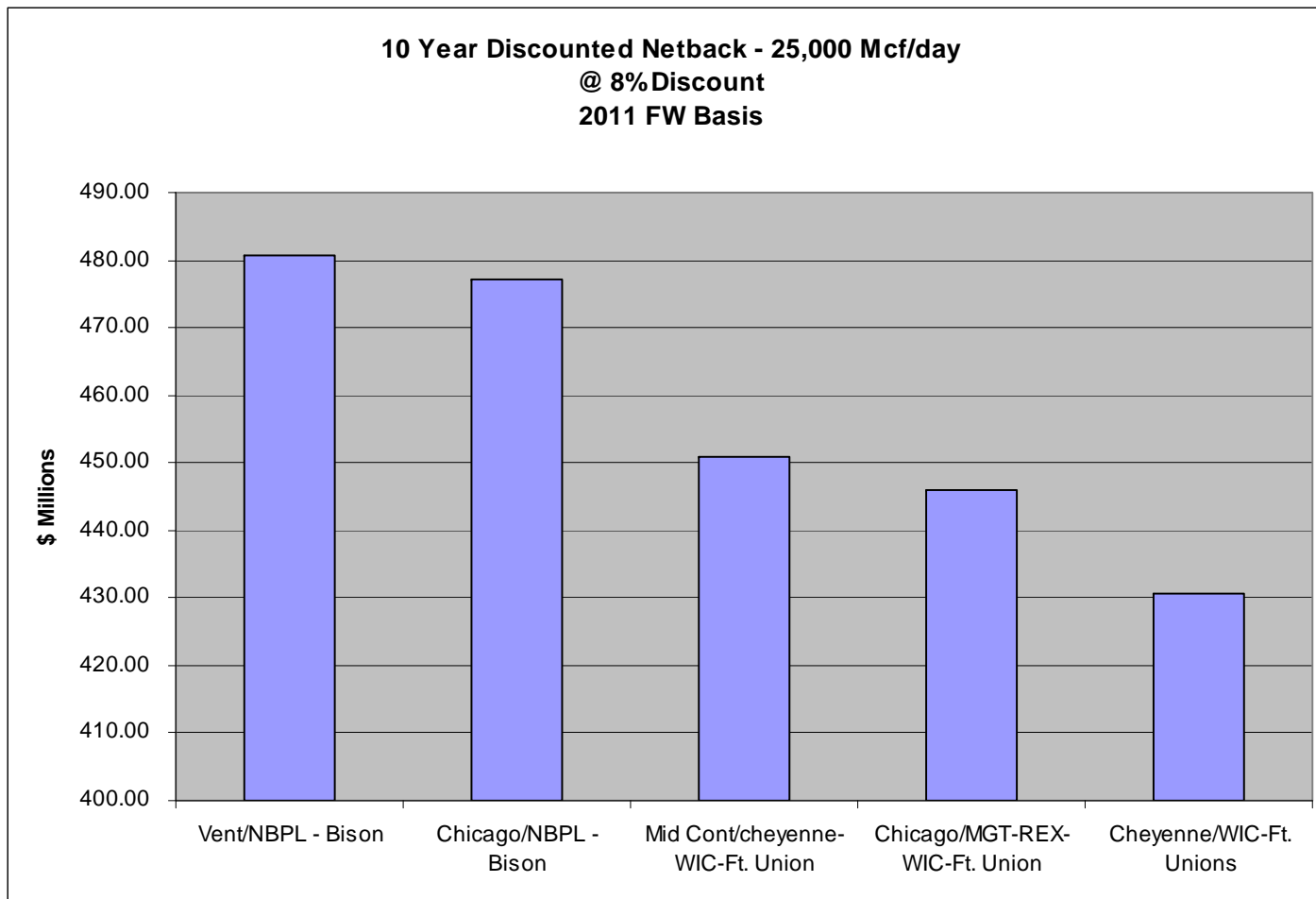
# Bison Netback Comparison to Deadhorse, WY *Historical 2007*



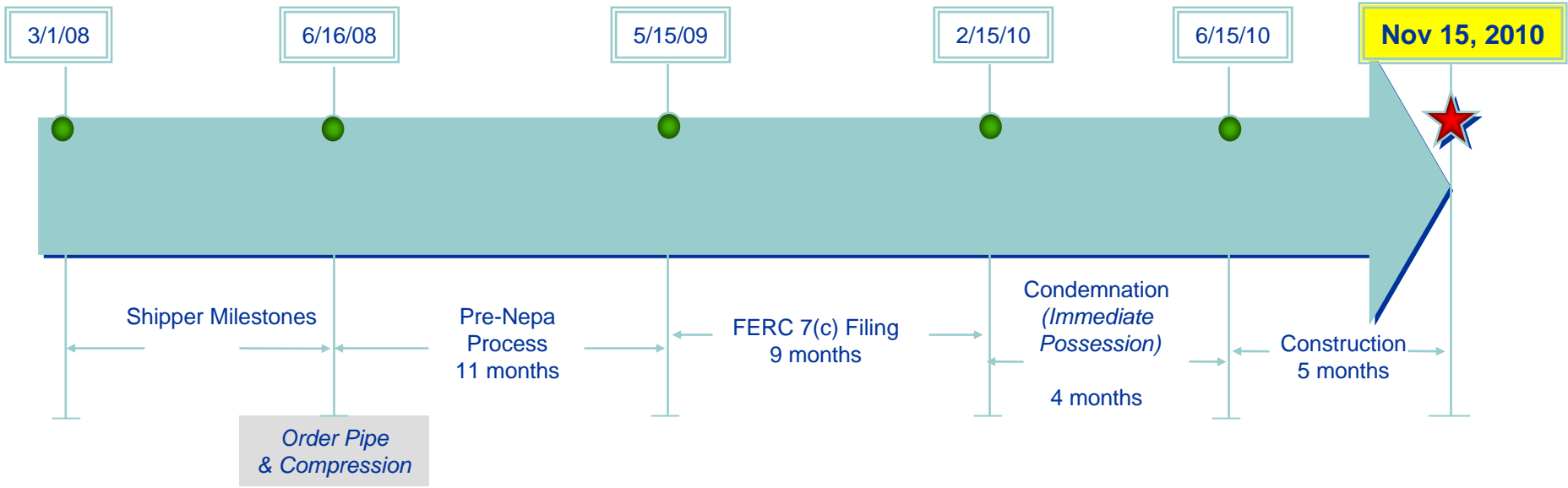
Source: *Platts Gas Daily prices and internal analysis*

# Bison Netback Comparison

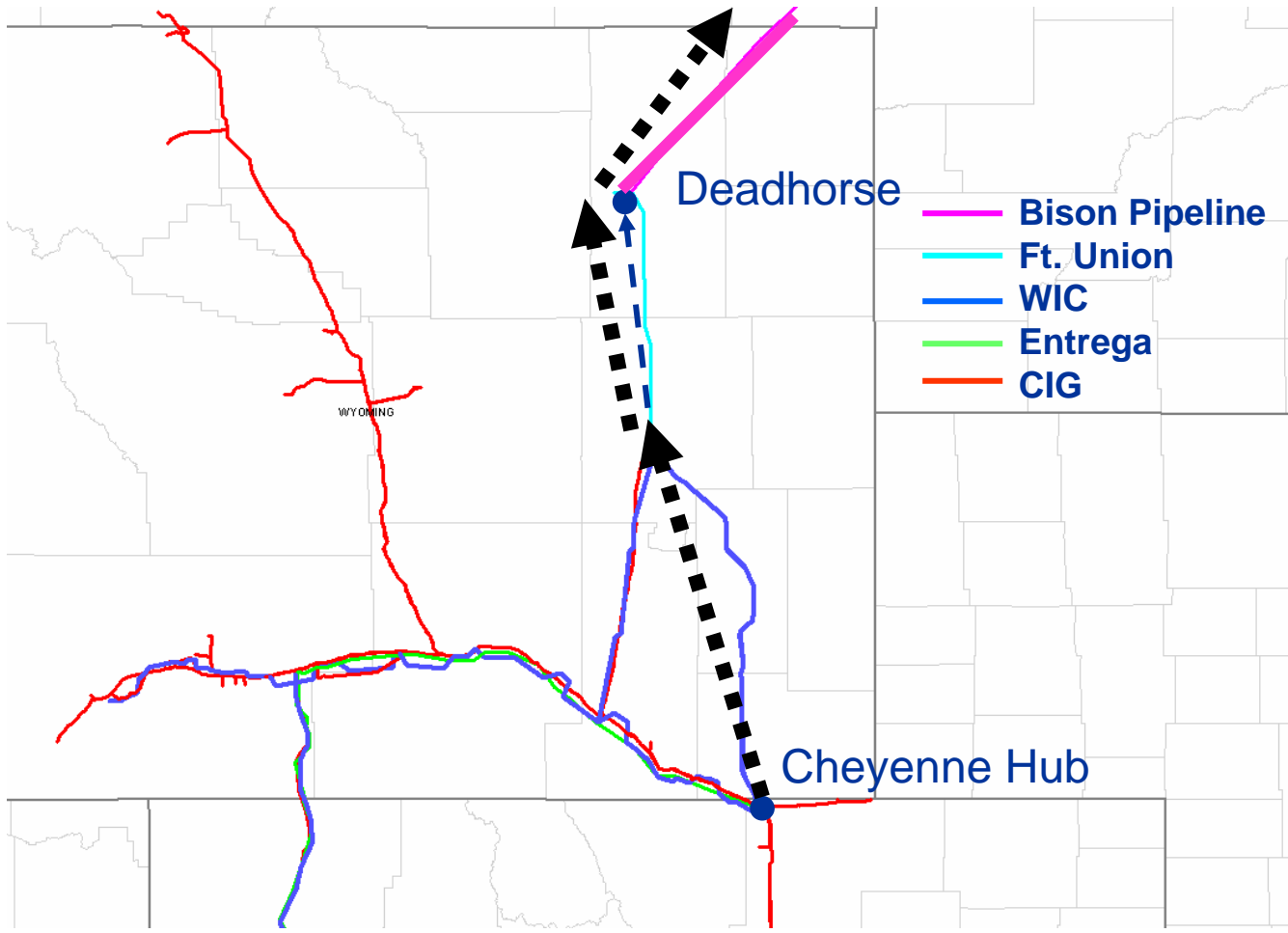
## 10 Year



# Bison Milestones & Timeline

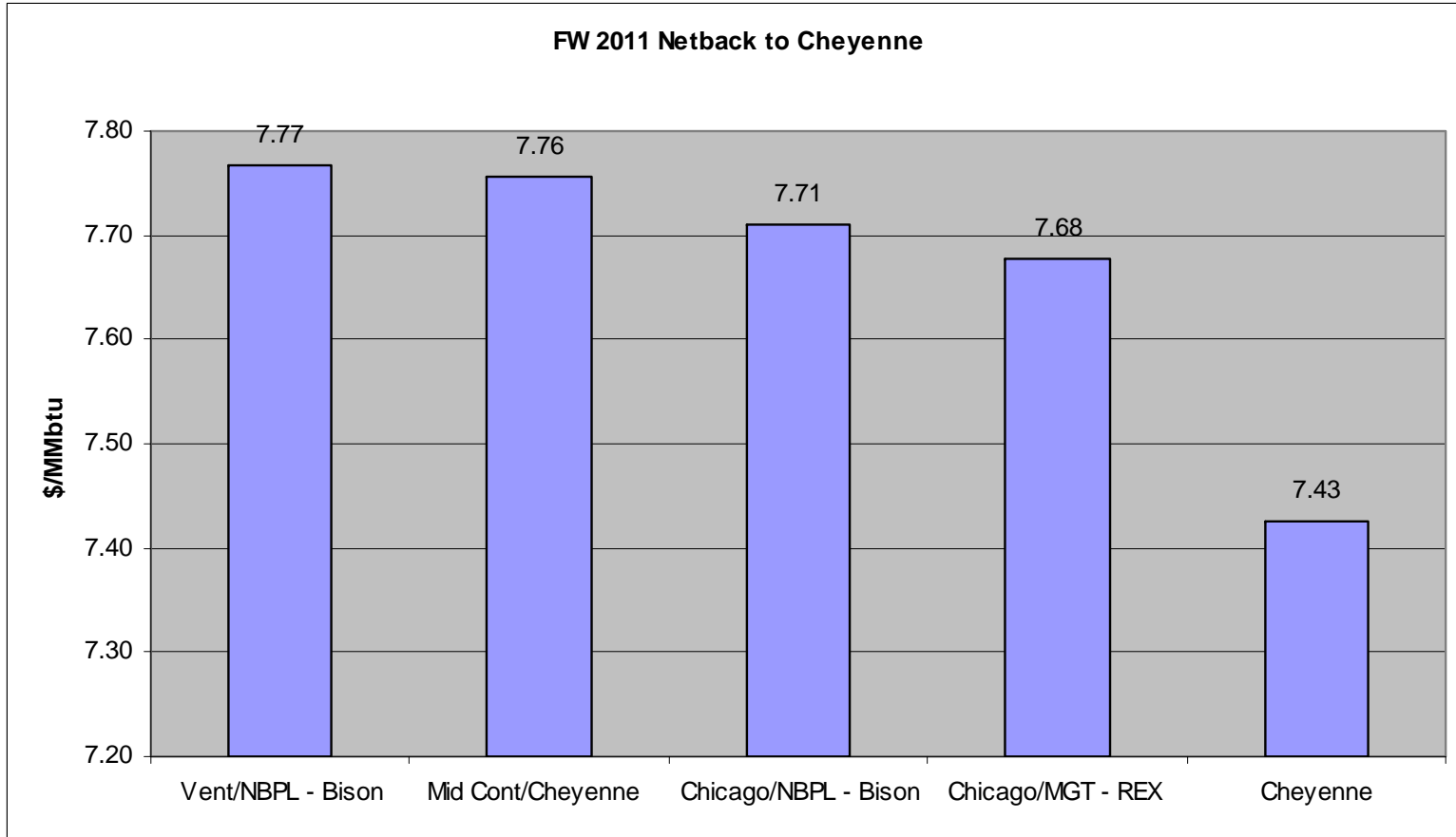


# Bison Backhaul from Cheyenne, WY





# Bison Netback Comparison to Cheyenne, WY Forward 2011

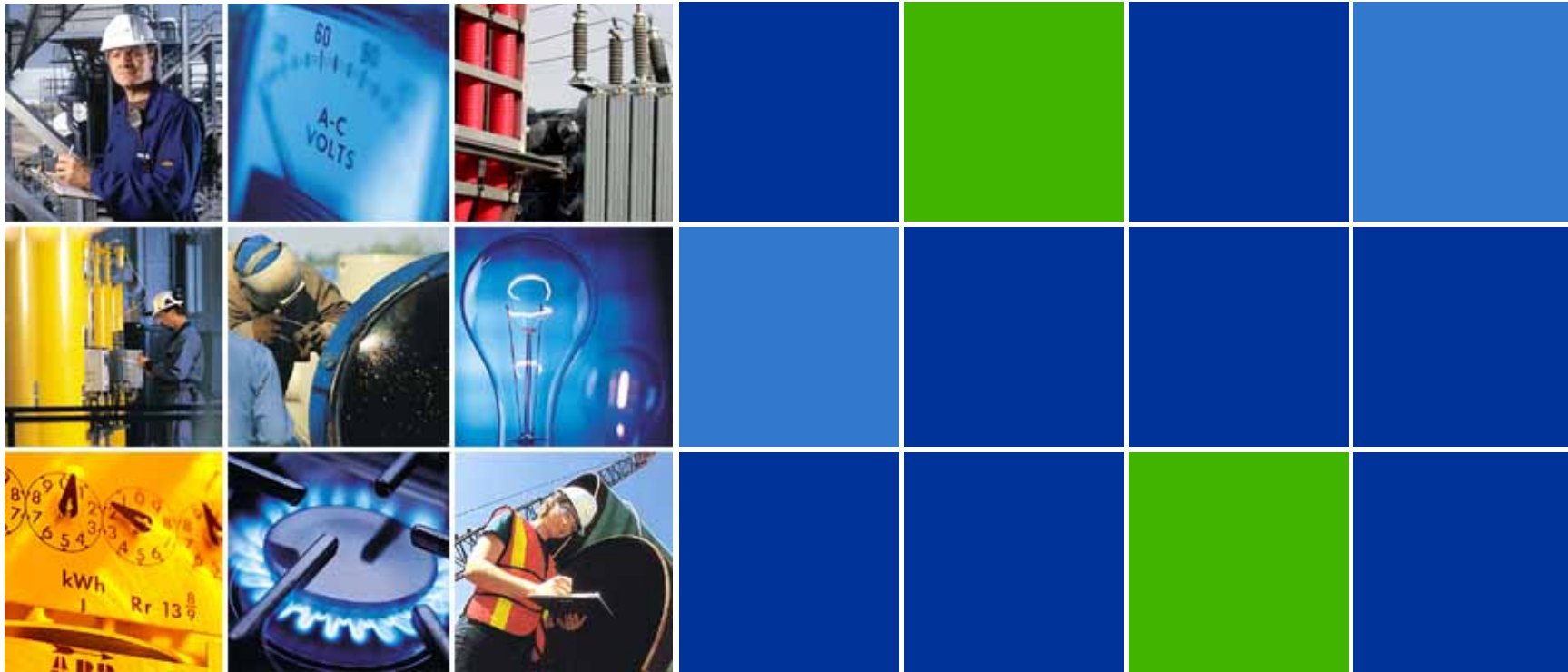


*Bison netback includes variable costs only from Cheyenne to Deadhorse*

## Bison Shipper Benefits - Summary



- Competitive netback pricing
- Provides transportation and pricing diversity for Powder River Basin Pipeline grid
- Efficiently utilizes existing downstream assets to attractive markets (minimizes new infrastructure)
- Minimal impact on downstream pricing due to displacement of Canadian production
- North outlet enhances existing gathering capability and value
- Seamless transportation (one nom) from PRB to Market
- Incremental export capacity to benefit overall Rockies, in particular eastern constraints



# Transportation Update

Jeff Nielsen

Manager, Pricing/Marketing

# Northern Border Pipeline



## Available Capacity

## Fundamental Update

- Increasing Market Demand
- Continued High Utilization
- Pricing
- TransCanada Contracting
- Strong Southwest Pricing
- Strong Hydro Levels
- Fundamental Challenges
- WCSB Production Statistics
- Long Term Supply Dynamics

# Available Capacity (MMcf/d)

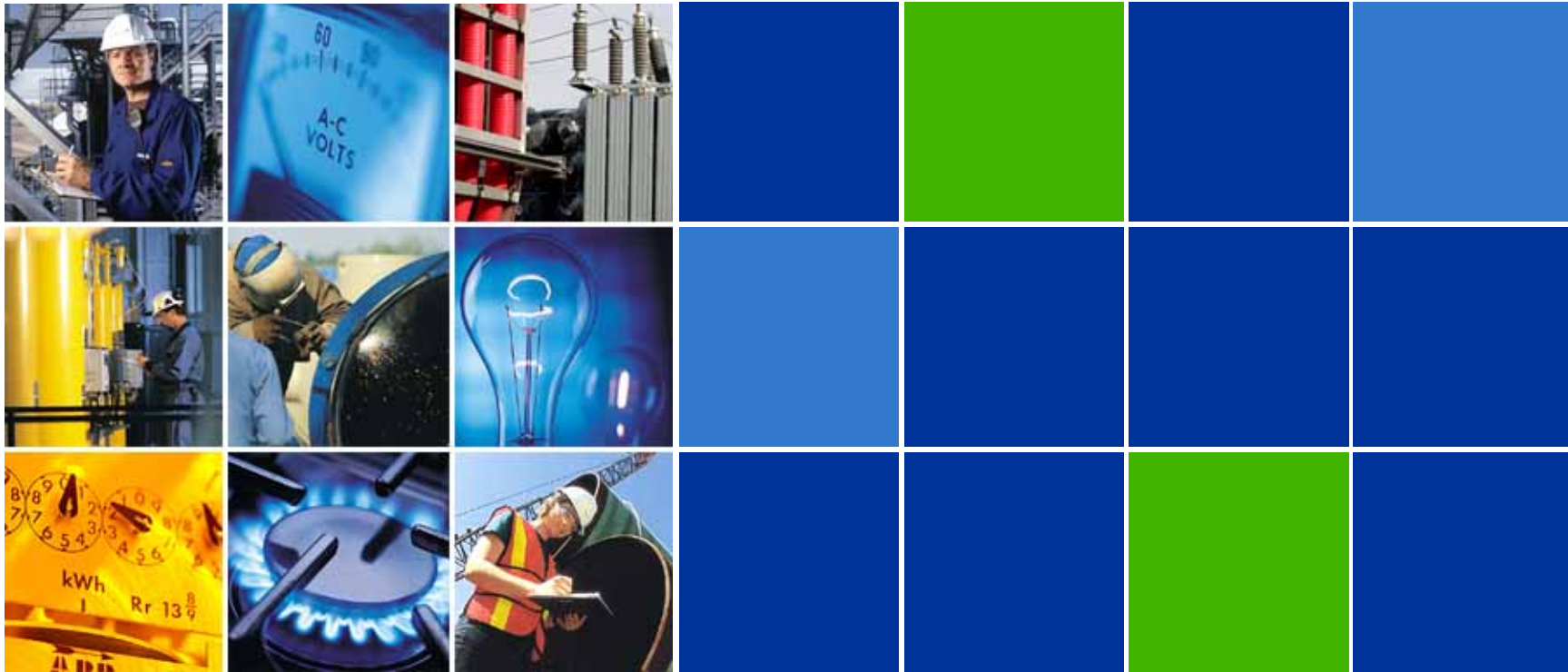


April 2008

- Port of Morgan to Ventura: 805
- Port of Morgan to Welcome: 50

December 22, 2008

- Port of Morgan to Harper: 163,988
- Port of Morgan to Ventura: 135,000



# Fundamentals Update

# Additional Demand



## Ventura Market Area

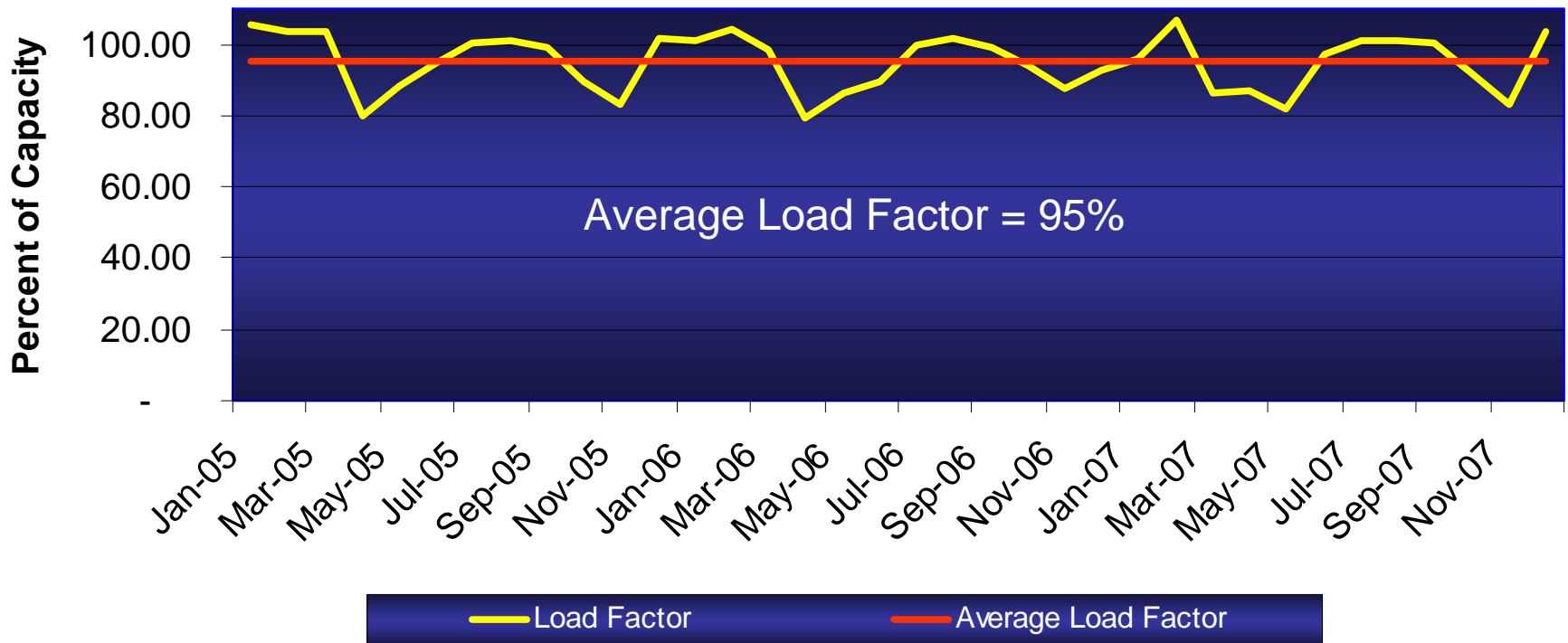
- Northern Lights expansion project increases Northern Natural Gas' demand
- Northern Natural Gas has 8 Bcf of additional storage on-line June 1
- Additional on-system ethanol load of 40 MMcf/d

## Chicago Market Area

- Vector's 200 MMcf/d of additional capacity in-service

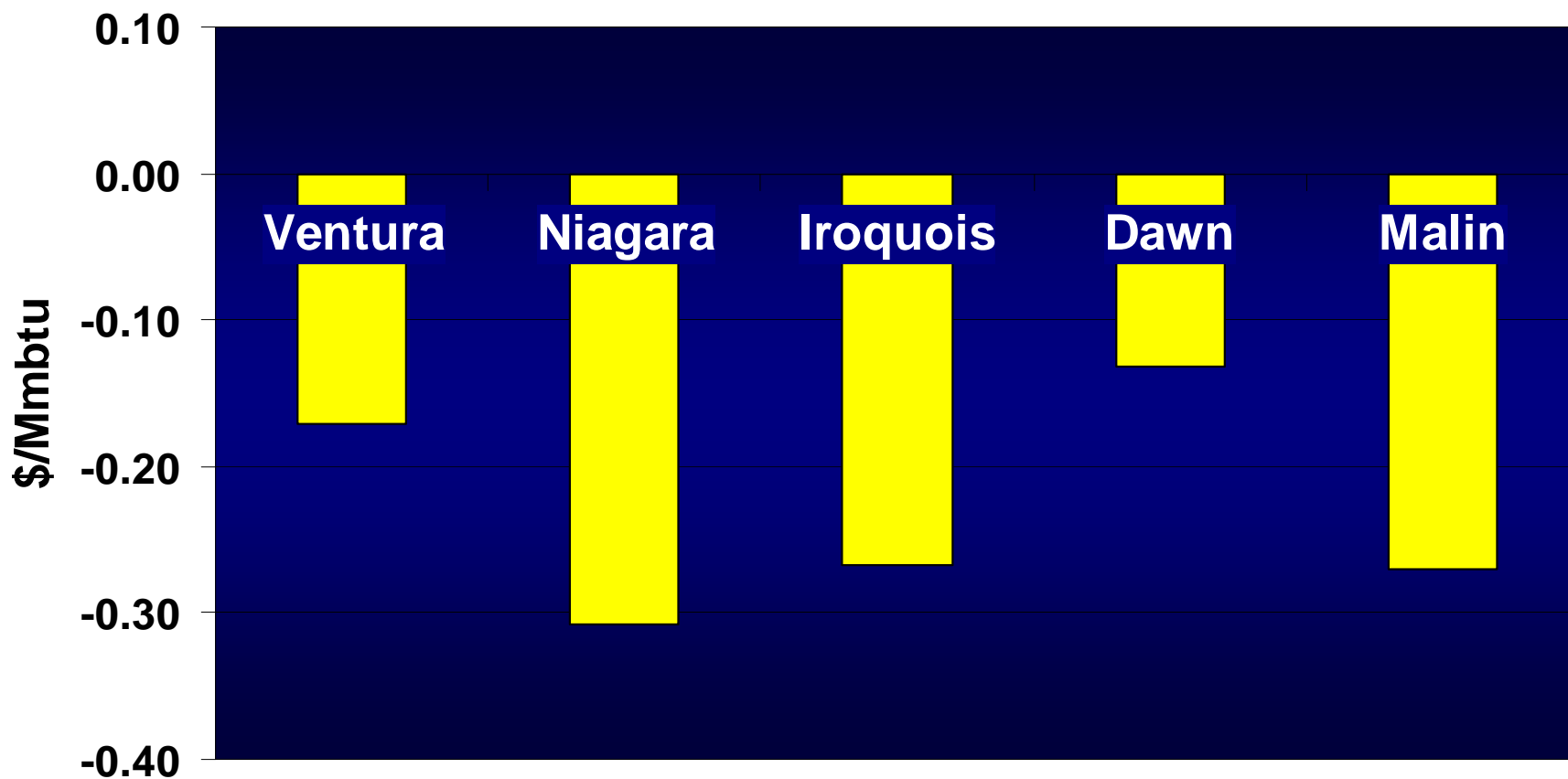
*Source: NNG and Vector website*

# Load Factor *Relative to Summer Design Capacity*



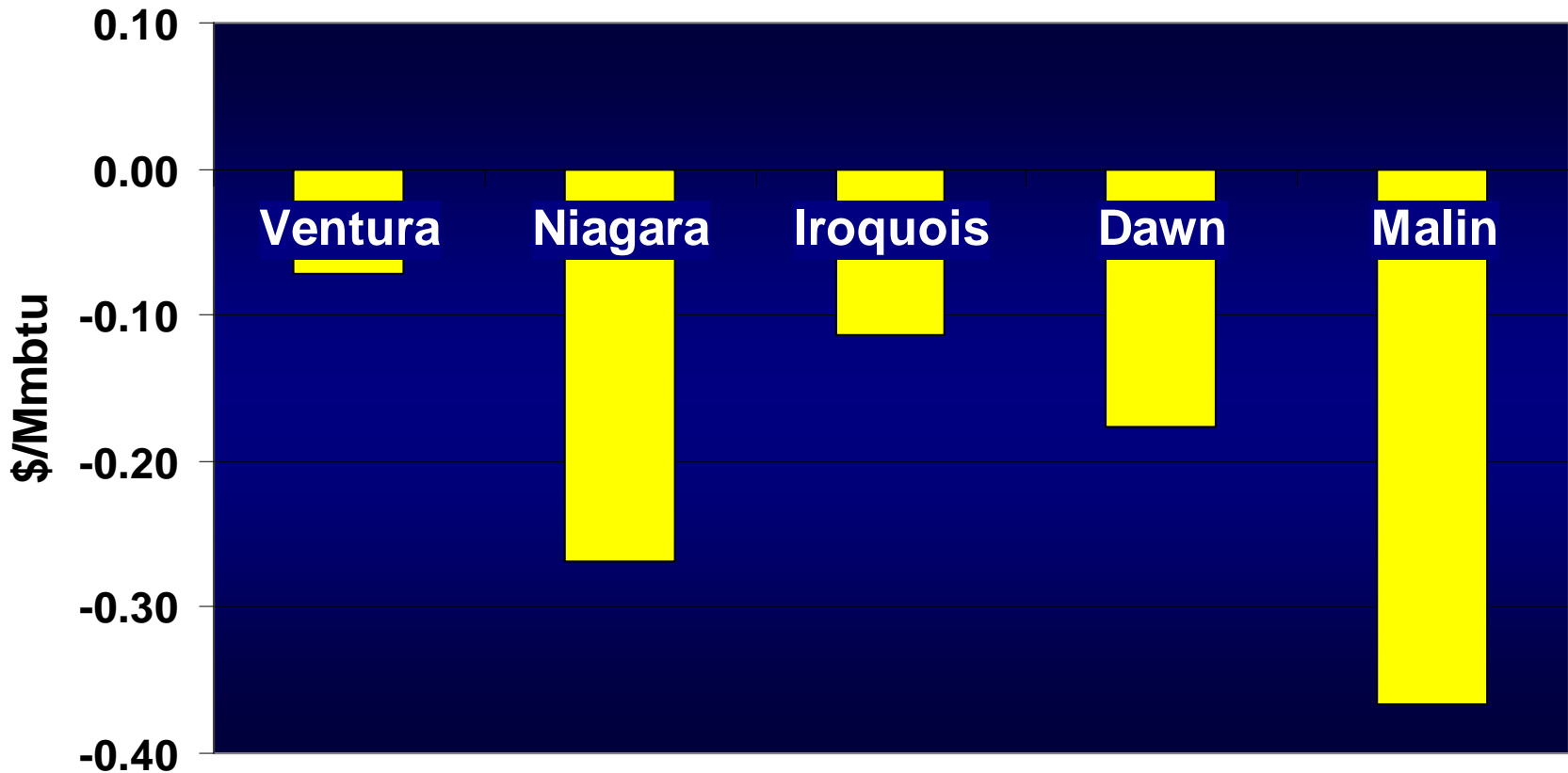


# Forward Netback to AECO *Summer 2008*



*\* Interim TCPL mainline tolls effective April 1, 2008*

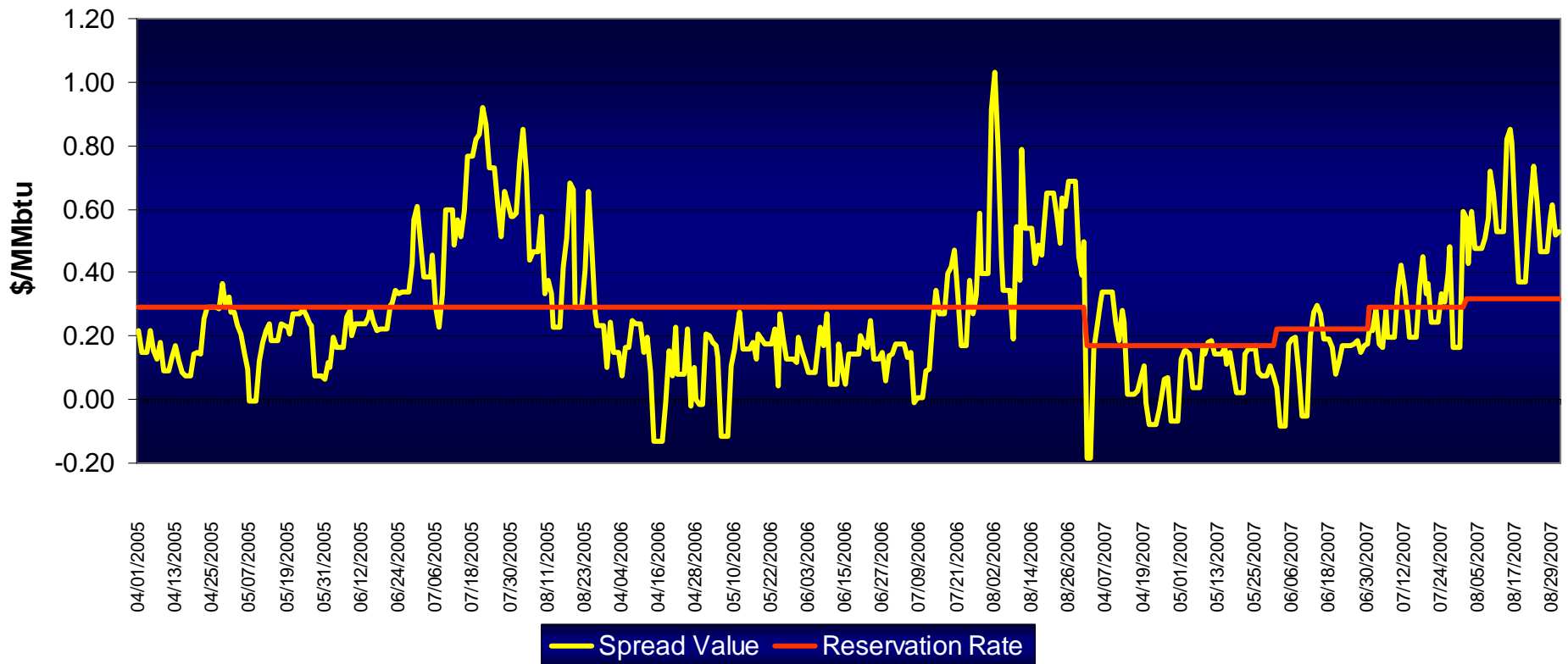
# Forward Netback to AECO *November 1 Year Forward*



# Summer Pricing Opportunities



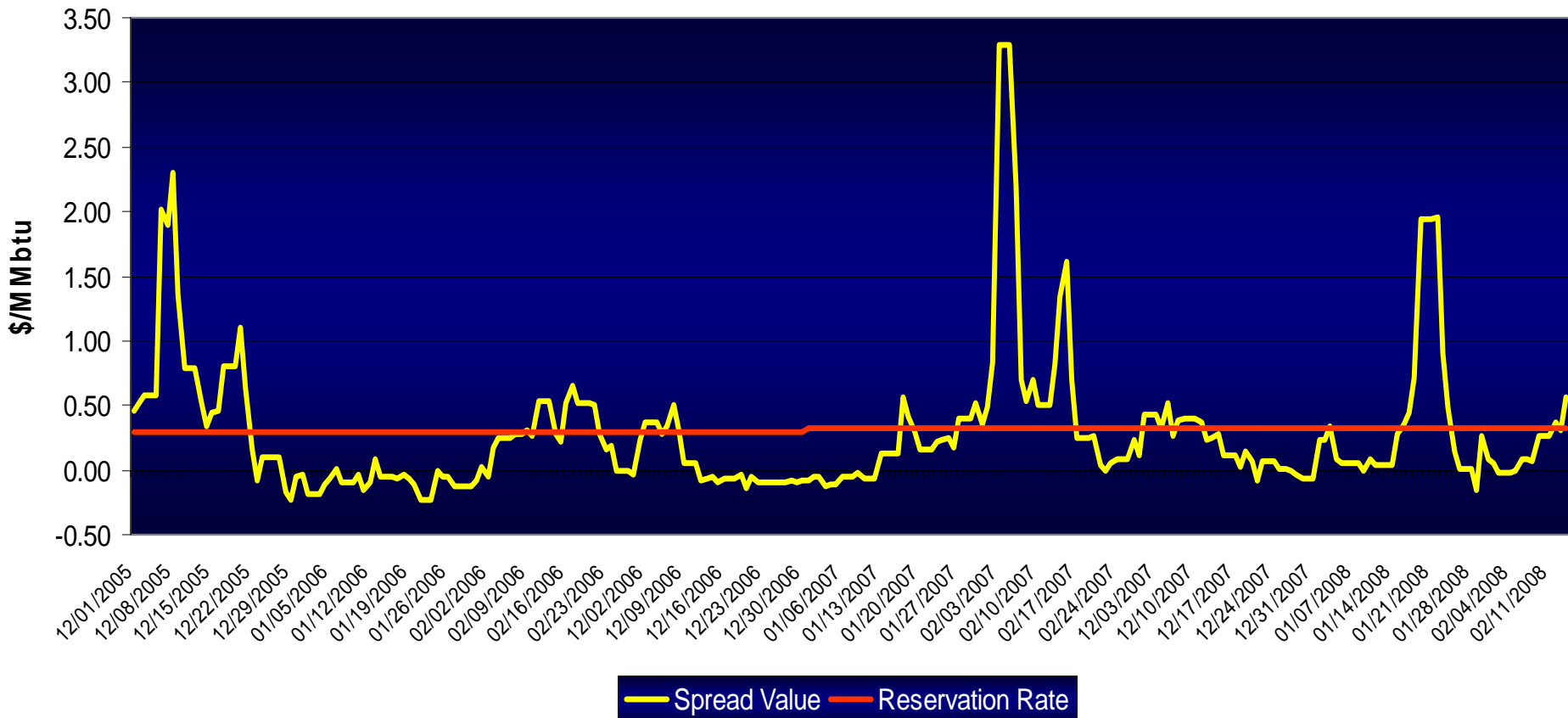
## POM - Ventura Spread Value Vs. Reservation Rate Previous Three Summers



# Winter Pricing Opportunities



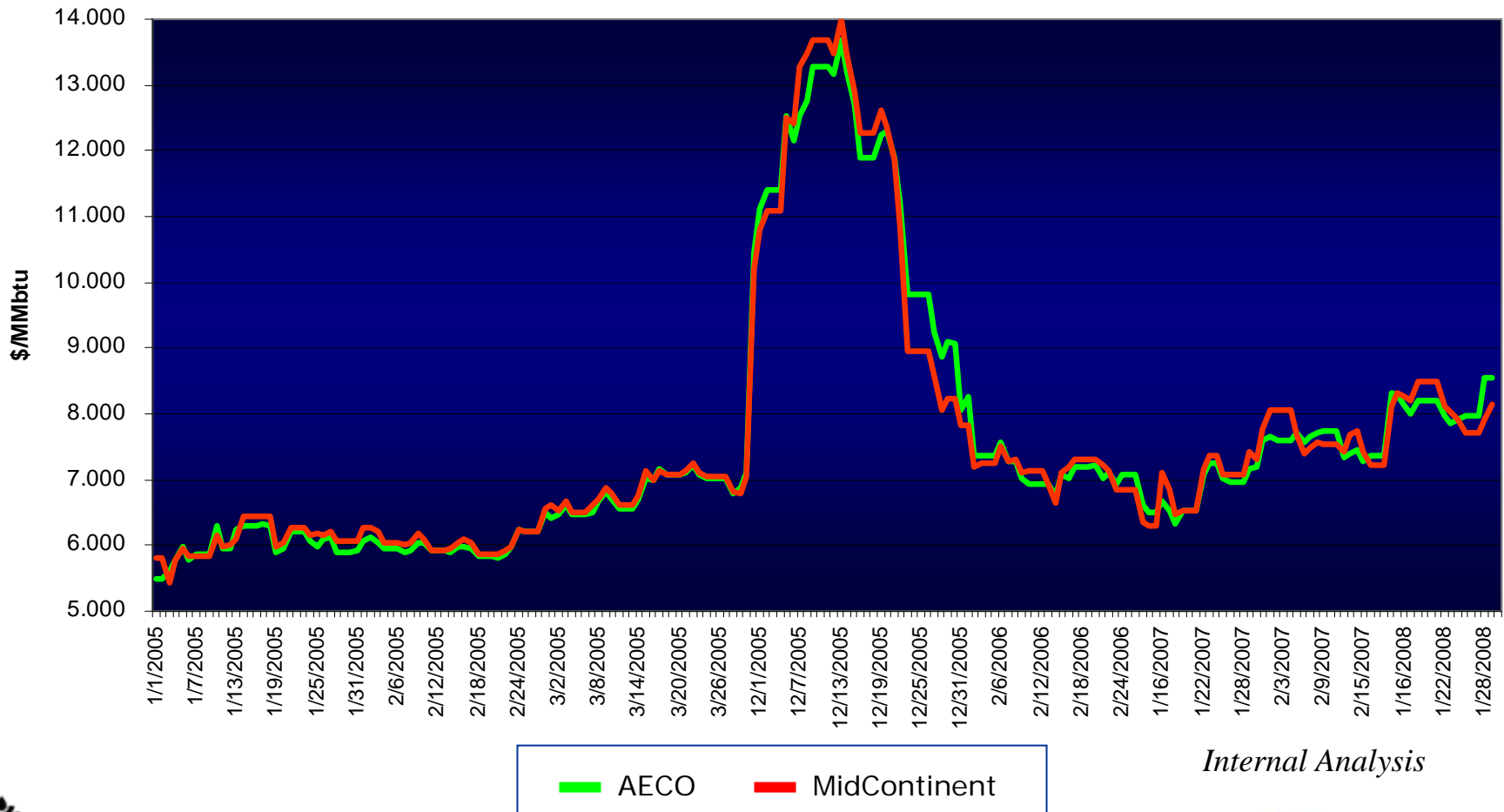
## POM - Ventura Spread Value Vs. Reservation Rate Previous Three Winters



# Northern Natural Gas Supply Analysis

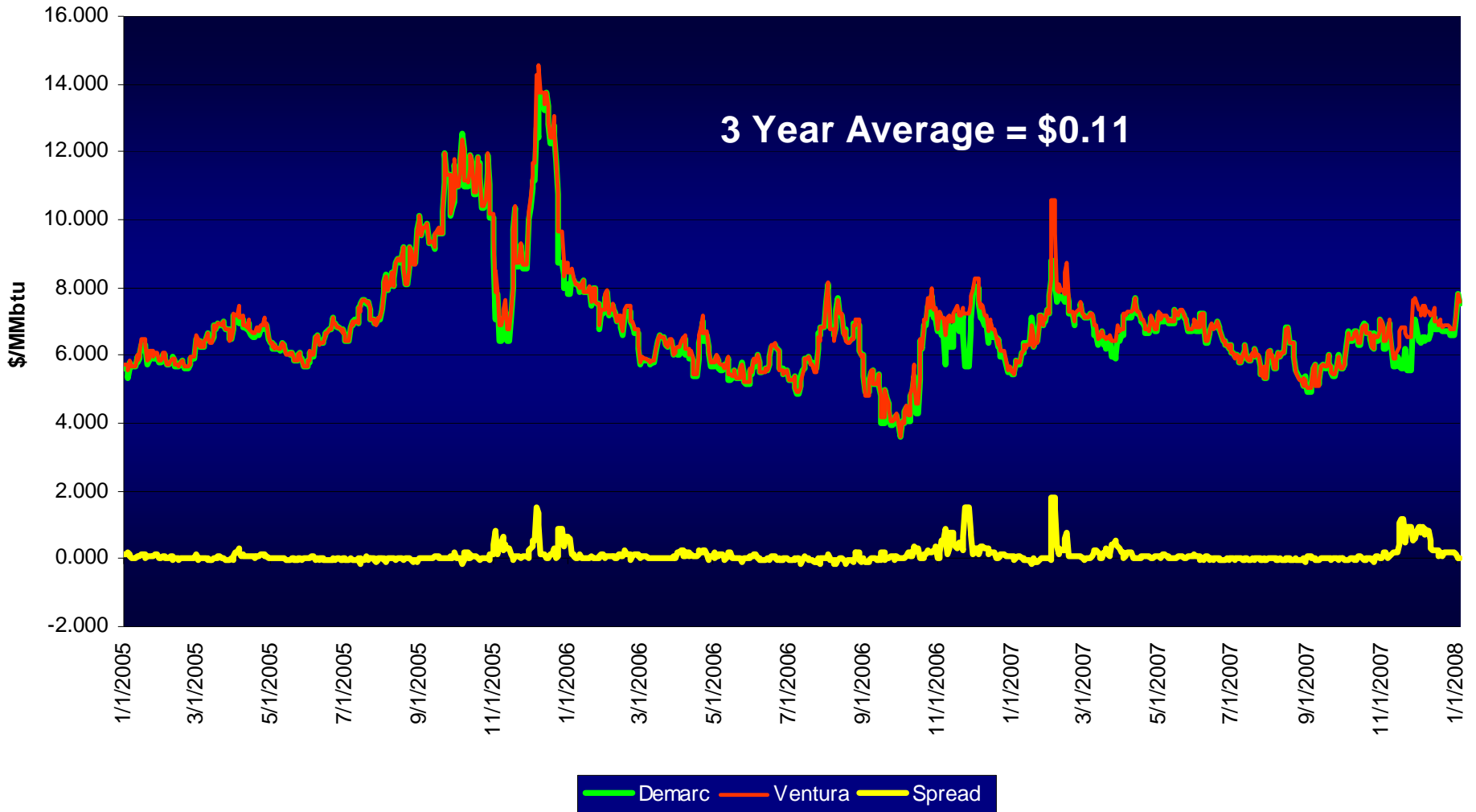


## MidContinent Delivered to Demarc v. AECO Delivered to Ventura Peak Period Analysis



Internal Analysis

# Ventura - Demarc Price Differential

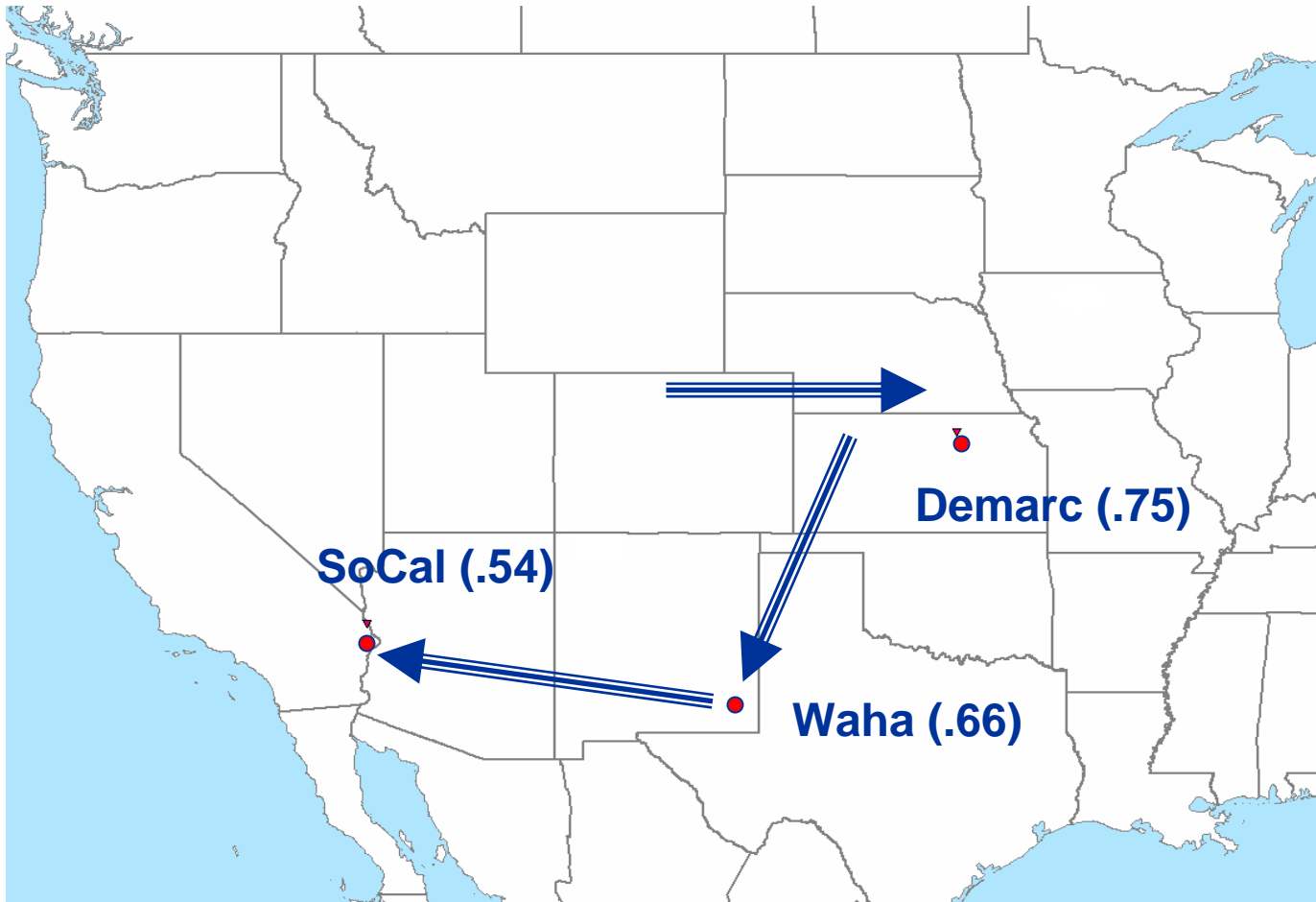


# TransCanada Contracting



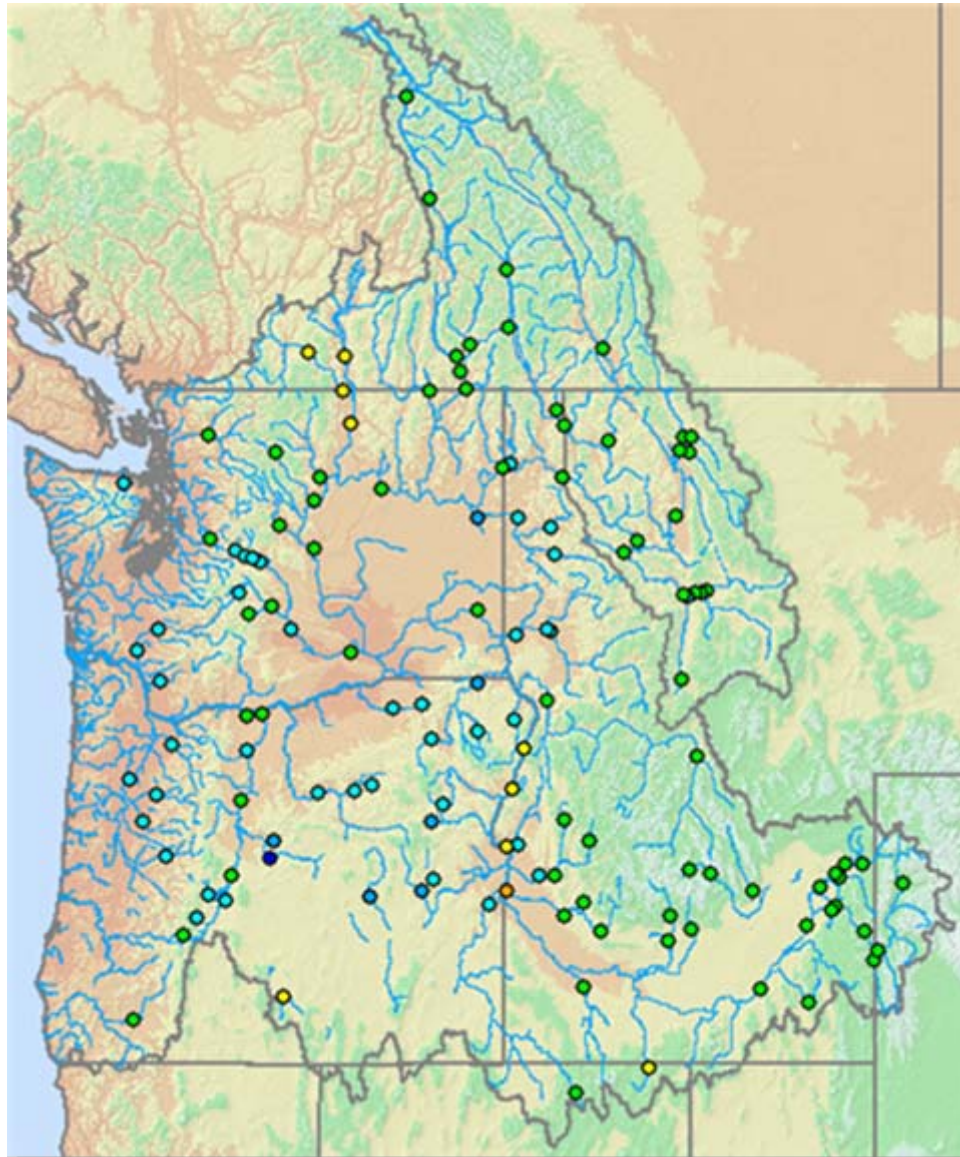
- TransCanada has the following contract expirations:
  - 1 Bcf/d of FT and STFT by May 31, 2008
    - Includes Empress and Saskatchewan Receipts
  - 2.1 Bcf/d expires on October 31, 2008
  - 628 MMcf/d expires on March 31, 2009

Where is REX gas going to end up this summer ?





# Hydro Levels (March 27, 2008)



## Water Supply Forecast (% Avg)

- No Average, No data
- < 25
- 25-50
- 50-75
- 75-90
- 90-110
- 110-125
- 125-150
- 150-175
- > 175

# Fundamental Challenges



- Western Canadian Supply
- Storage Conditions

# Price Motivated Industry

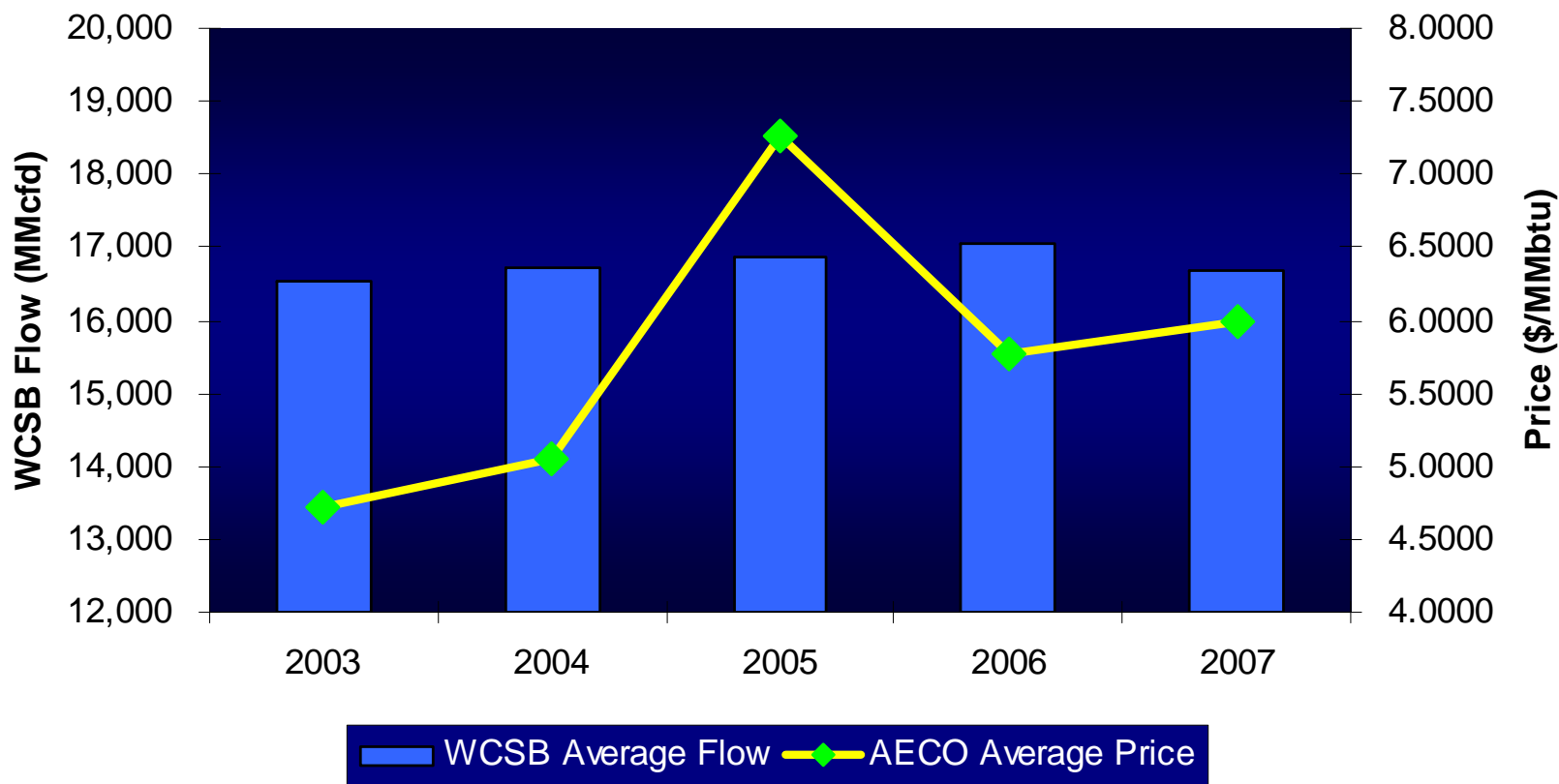


- Natural Gas prices have risen nearly \$2 in the past 12 months
- Canadian rig count has grown:
  - 22 more rigs operating in Spring, 2008 vs. Spring, 2007
- Canadian natural gas exports actually rose in 2007 vs. 2006
- WCSB production for Q1 2008 only shows a 450 Mcf/d decline vs. 2007 annual levels
- Alberta Royalty review could be revisited due to producer backlash

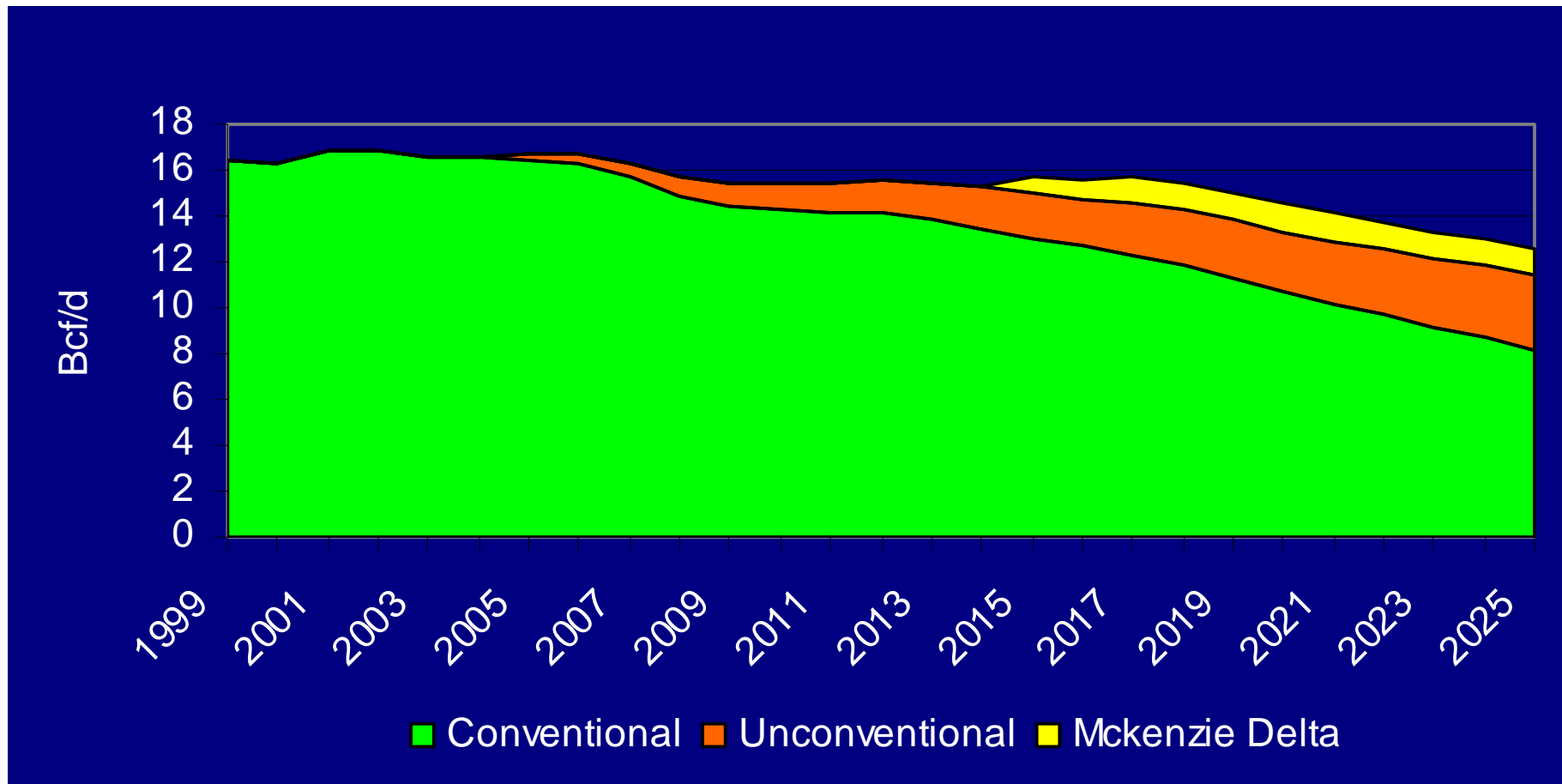
# WCSB Daily Receipts (Mmcf)



## WCSB Flow/AECO Price Annual Average






# WCSB Supply Outlook



# Longer Term Supply Dynamics

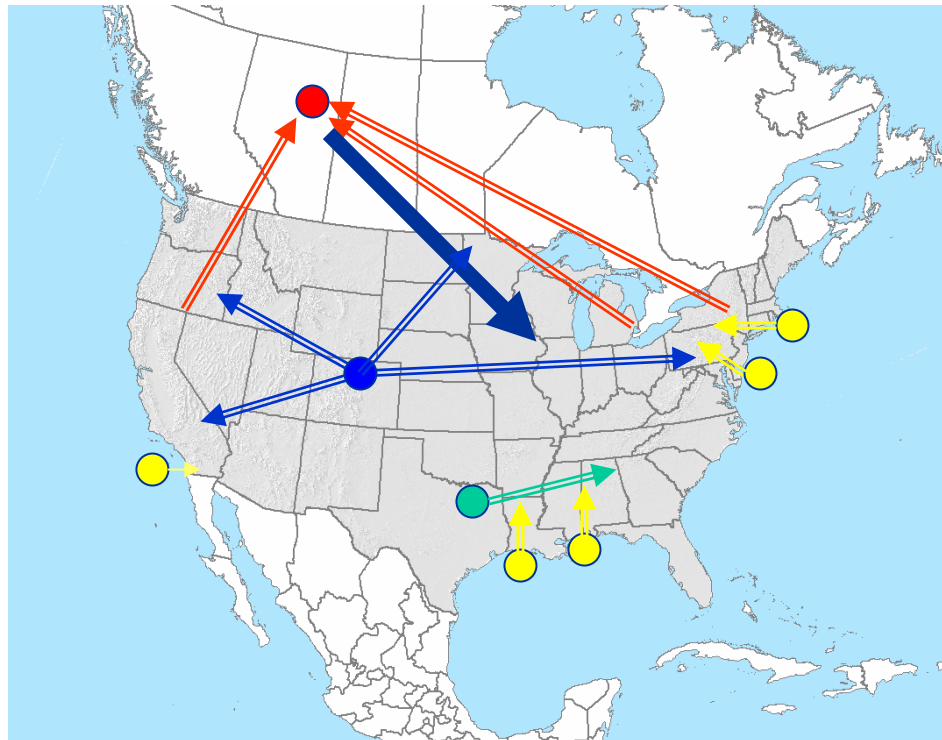


New pipeline projects built from non-traditional supply areas:

- Rockies (  )
- Barnett Shale (  )
- LNG (  )

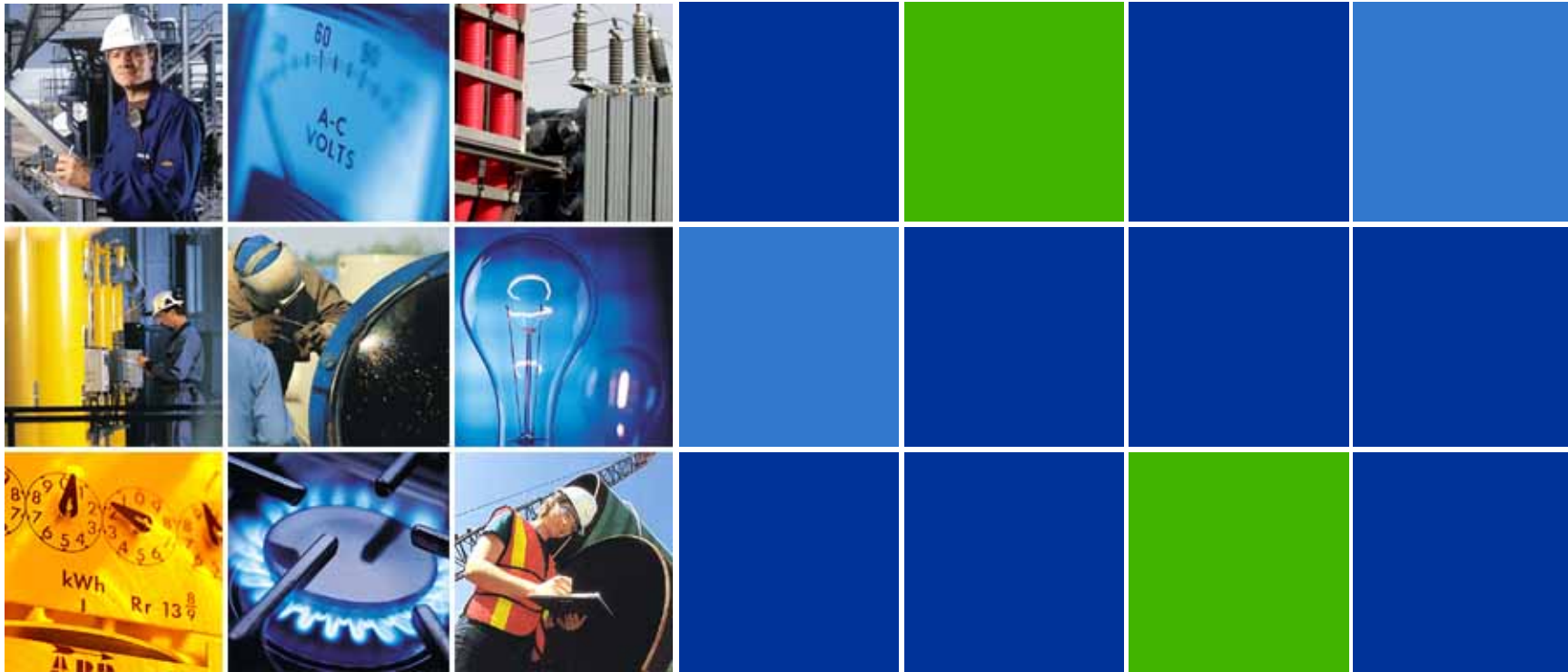
New supply displaces traditional supply sources (Canadian  ),

- More Canadian supply at AECO Hub
- More attractive basis at AECO Hub



Effect on Northern Border (  ):

More Supply  
Attractive Delivery for Excess Volume



# Operational Update

Scott Coburn  
Manager, Customer Service

# Operational Update Topics



- Pipeline Facilities
- Key Pipeline Metrics
- New Interconnects
- Outage Planning
- System Enhancements
- NAESB Cycles



# Pipeline Facilities



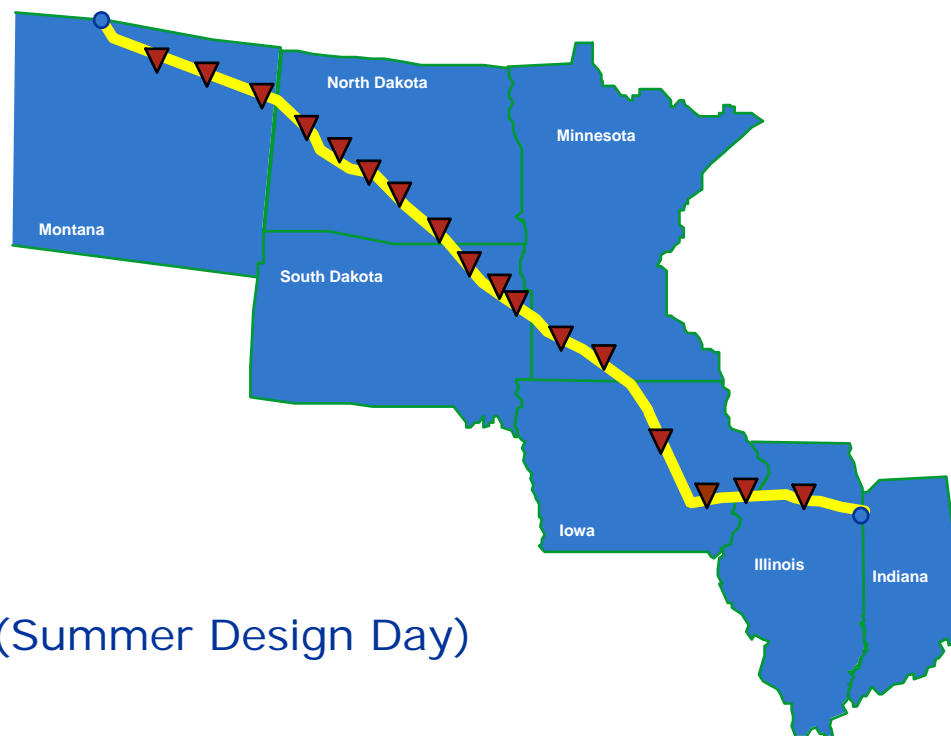
## Overview

1,249 Miles of Mainline

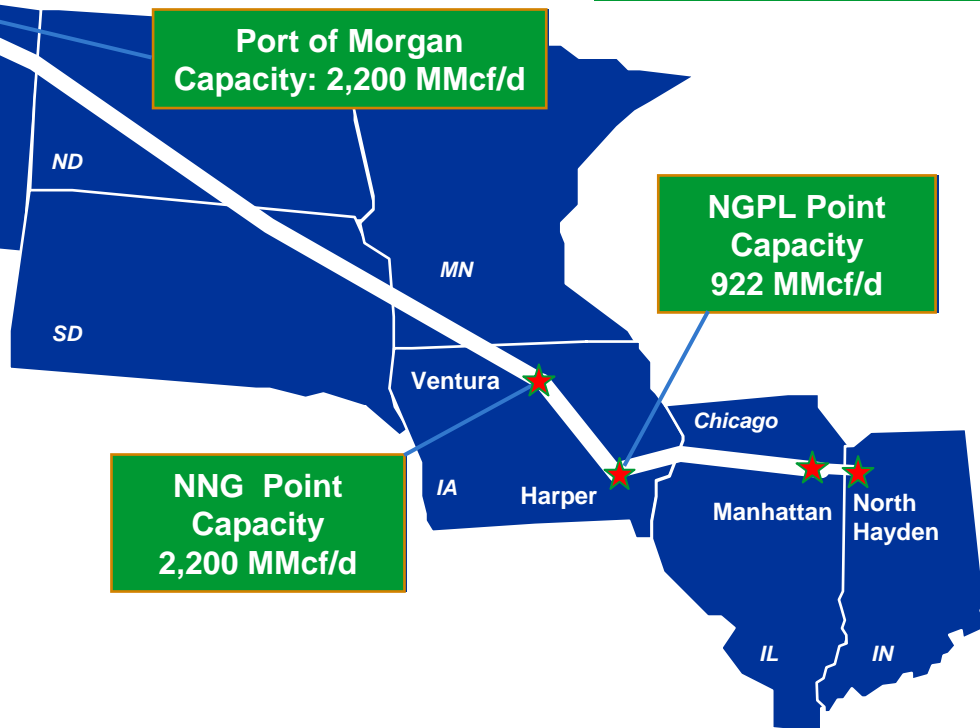
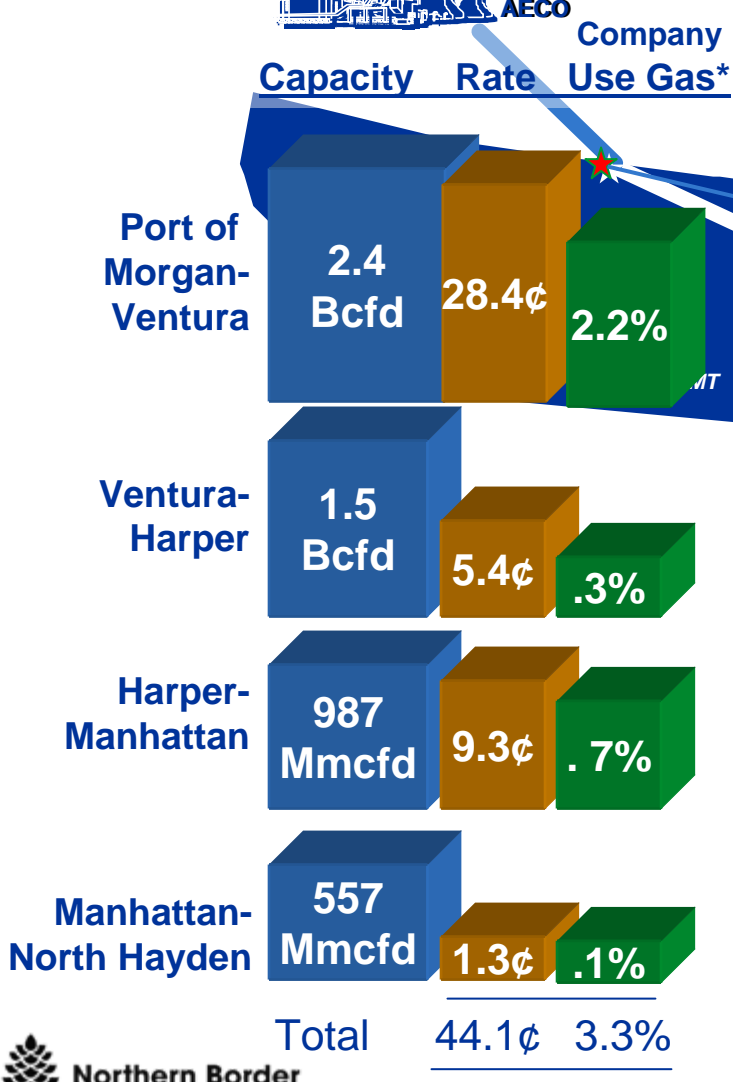
17 Compressor Stations

515,000 Installed HP

2,374 MMcf/day Received (Summer Design Day)



# Pipeline Overview



**Estimated Transportation Costs From AECO to Monchy:**  
 Demand \$0.18 - \$0.21  
 Fuel 0.7%-1.0%

Rates Include Compressor Usage Surcharge

\*2007 Average Fuel

# Key Pipeline Metrics



## 2007 Results

- 94.5% Load Factor
- 99.3% Compressor Station Reliability Factor

Averaged 7 Hours Downtime Per Outage

# Key Pipeline Metrics



1<sup>st</sup> Quarter 2008

- 103.0% Load Factor
- 99.6% Compressor Station Reliability Factor

Averaged 4 Hours Downtime Per Outage

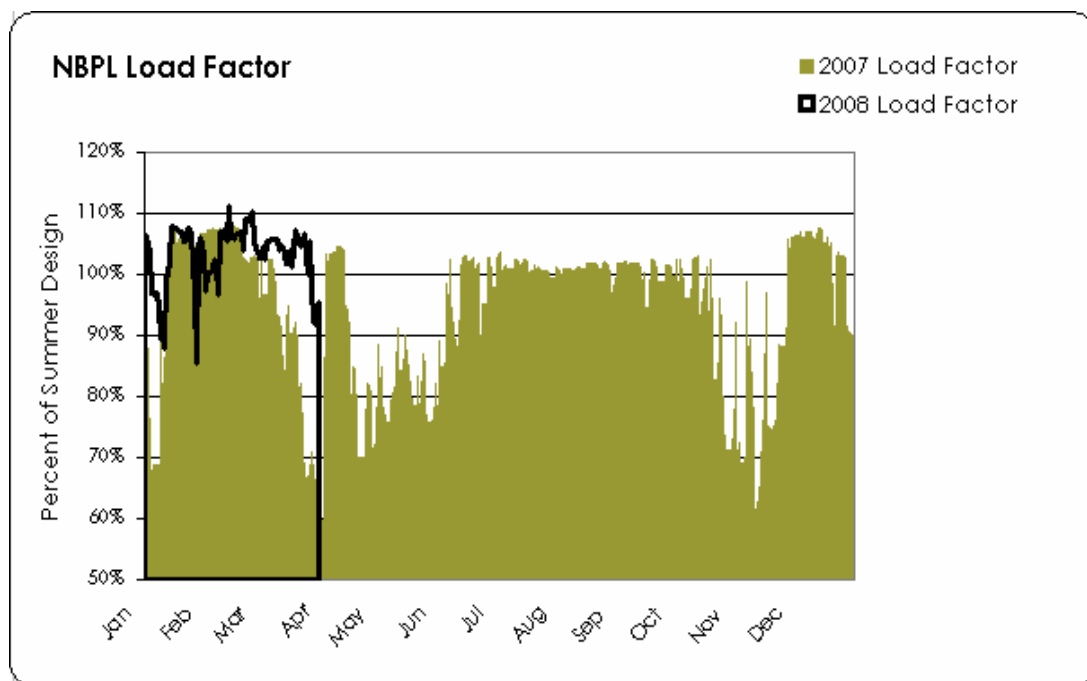
- No Capacity Reduction Events

# NBPL Outage Planning



## Considerations

- Historical Flows
- Weather Forecasts
- Pricing Outlook
- Contracting Trends
- Field Staffing
- 3<sup>rd</sup> Party Availability
- Instinct



# 2008 Scheduled Outages



## Key Activity

- Internal Pipeline Inspections  
(May)
- External Pipeline Inspections  
(April – May, September – October)
- Planned Compressor Station Maintenance  
(Ongoing)

# New Interconnects



## Currently In-service

Davis (Heartland)

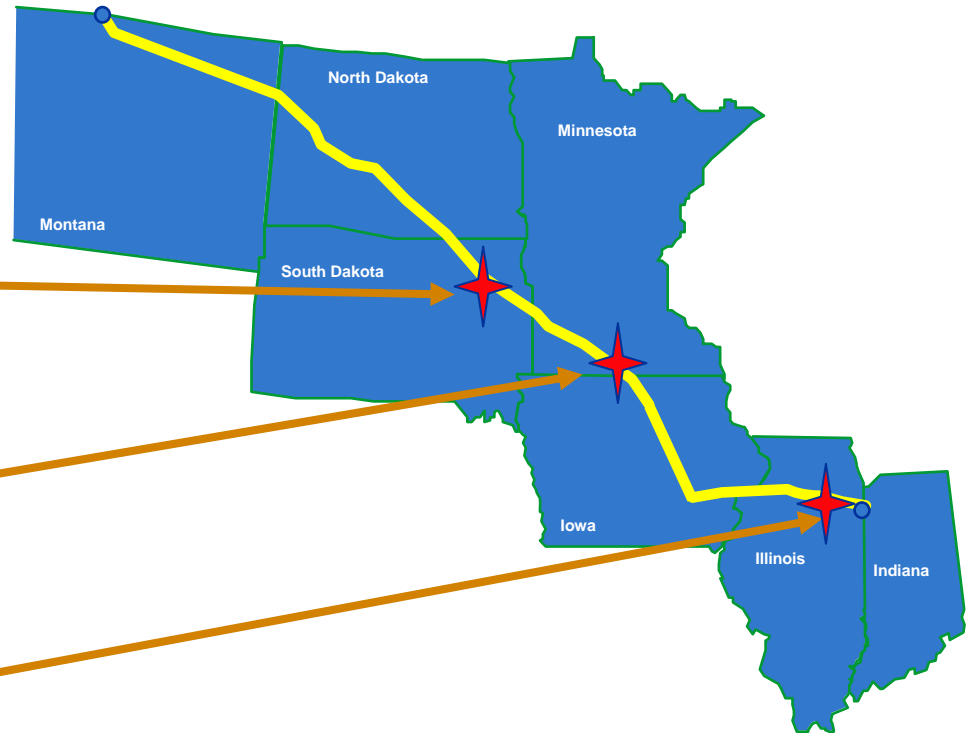
15,000 Mcf/d Max Delivery

Rutland (Buffalo Lake)

14,000 Mcf/d Max Delivery

Torrence (KMIP)

360,000 Mcf/d Max Delivery



# New Interconnects



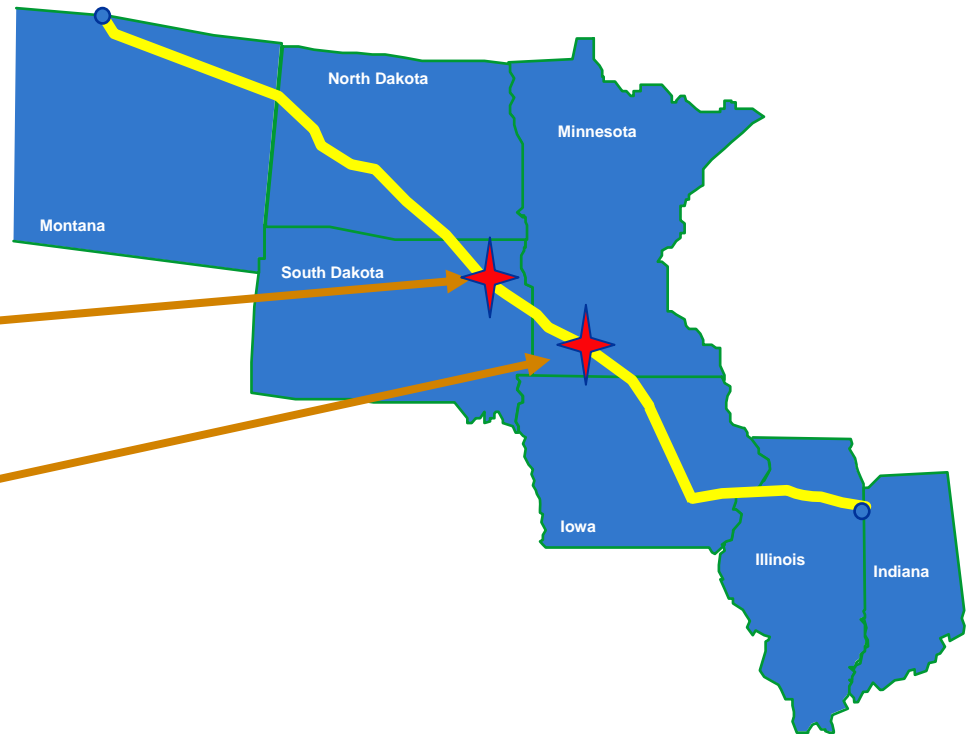
2008 In-service

Edmunds (NW Energy)

10,100 Mcf/d Max Delivery

Fraser (VeraSun)

21,200 Mcf/d Max Delivery





# New Interconnects



2008 Construction/ In-service

Lanark (Basin Electric)

46,000 Mcf/d Max Delivery

Charbonneau (WBI)

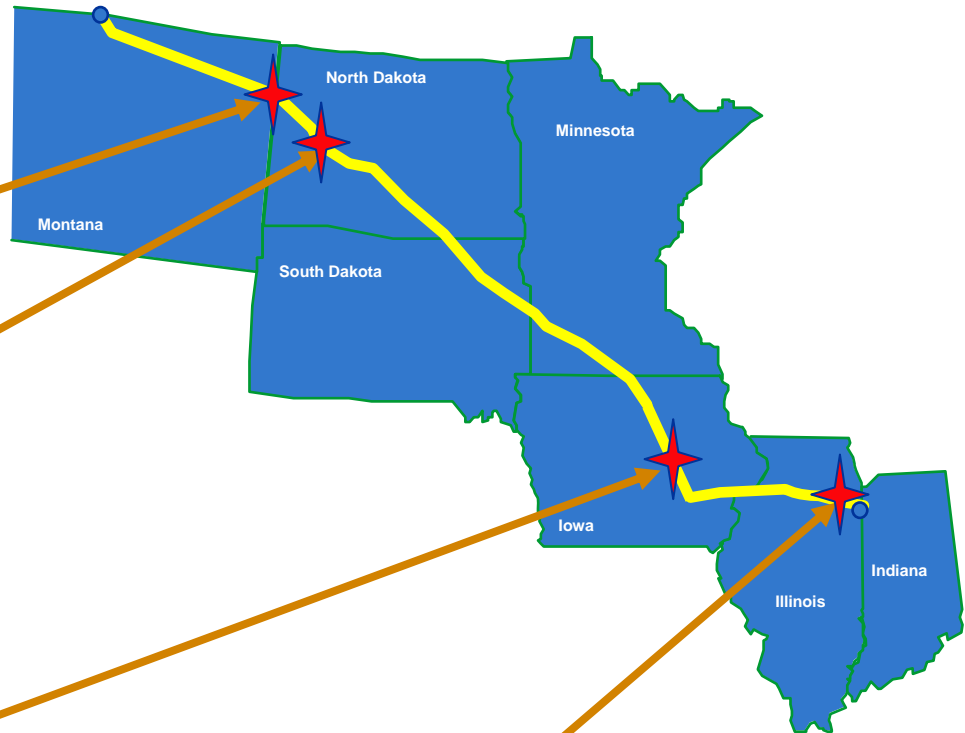
60,000 Mcf/d Max Receipt

Long Point (NNG ) – Limited Use

1,933 Mcf/d Max Delivery

Des Plaines (ANR)

60,000 Mcf/d Receipt



# 2007 System Enhancements



Addressed the Whale



# 2007 System Enhancements



Eliminated Second Login



# 2008 System Enhancements



## Reengineering Nom Reconciliation Report Functionality



# 2008 System Enhancements



- A Number of Enhancements are in the Queue
- Continually Looking for Ways to Better Serve Our Customers

# NAESB Cycles



- Discussions on Modifying Current NAESB Nomination and Scheduling Timeline Underway