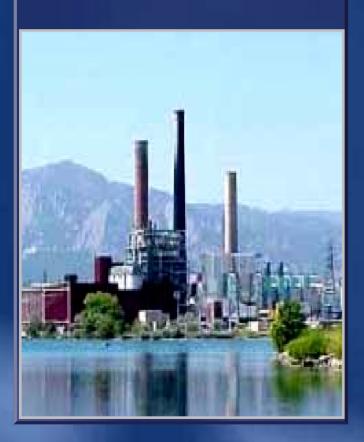
STB RETAC Meeting March 6, 2008



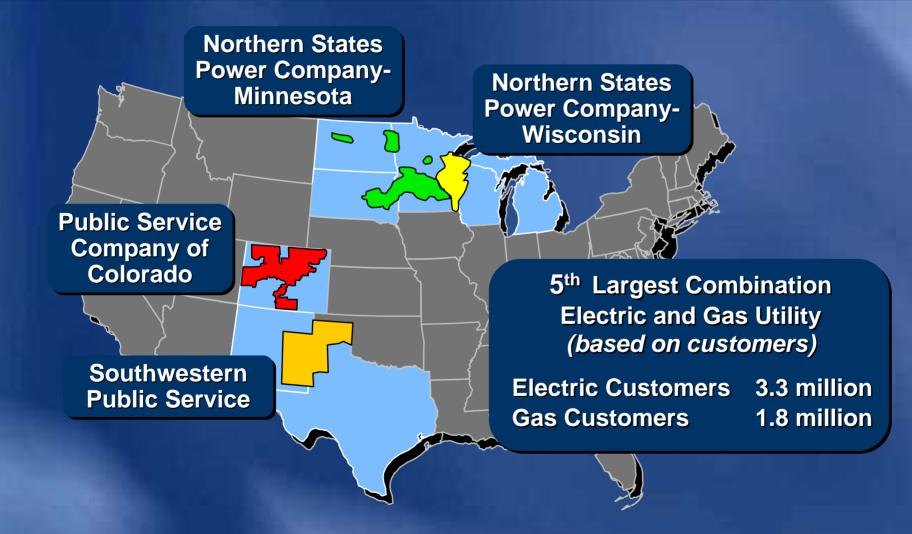


The Coal Supply Chain:

A Western Utility Perspective

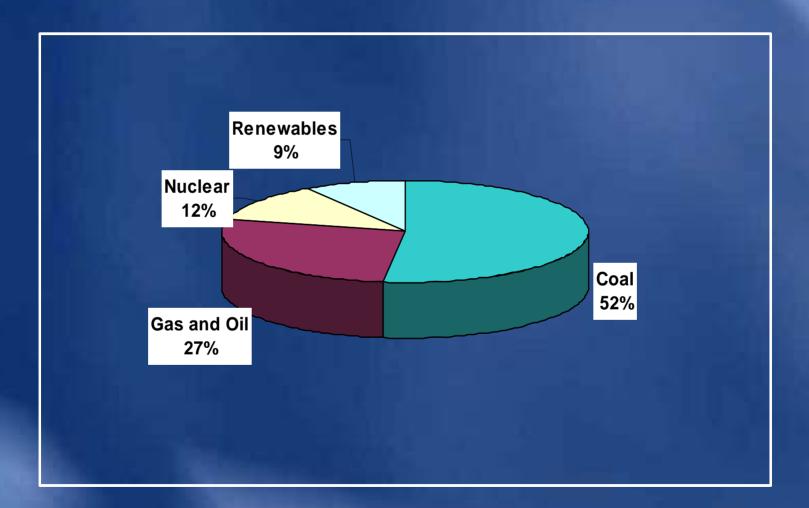
Susan Arigoni Vice President, Fuels Xcel Energy







Xcel Energy Generation Fuel Mix





Xcel Energy's Commitment to Coal

32 million ton annual consumption
5th largest consumer in the U.S.
750 MW new coal-fired facility on line 2009





Xcel Energy's Reliance on Coal

- Coal is essential to meeting our generation requirements
- 100% western coal
 - PRB 83%/Colorado 17%
 - Boiler designs limit fuel switching
- Delivery shortfalls usually permanent
- Coal stocks considered a backstop to transportation and mine failures
 - Plant inventory optimization must balance cost and reliability
 - Regulatory review



A Matter of Balance

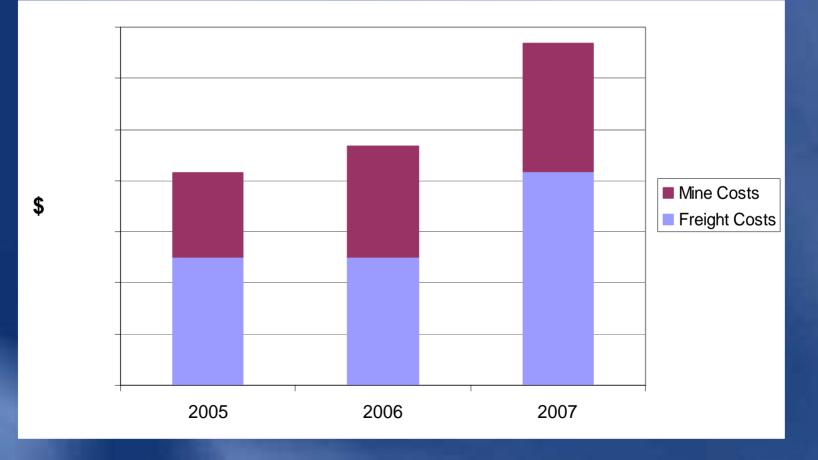


Price



Rail Transportation Costs Increasing

2005 – 2007 NSP Delivered Coal Costs

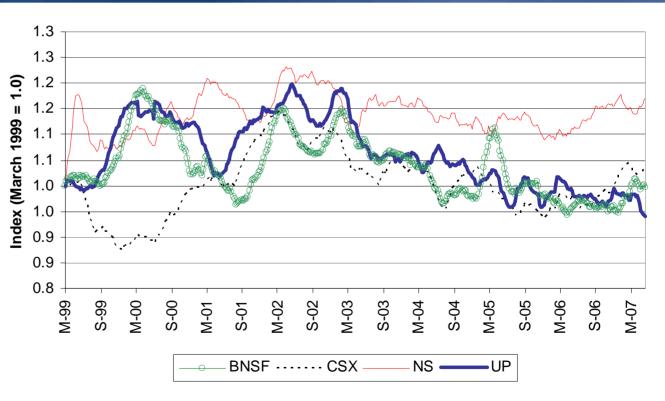




Railroad Performance

Average Speed of Coal Unit Trains, 12 Week Trailing Average

Declining train speed



Source: Rail performance statistics originally posted at http://www.railroadpm.org/.



Supply Chain Disruptions

Derailments

- Mine outages or production derates
- Utility dumper outages
- Railroad crew work rules
- Weather
- Poor communication
- Insufficient trainsets



PRB Rail Transportation Challenges

Capacity issues are route specific
 Improvements from recent joint line expansion

 Continued vigilance required

 Need reserve capacity to handle surges or maintenance issues

Performance guarantees



Utility Initiatives

Coal handling investments at plants
Additional resources

Re-assess optimal inventory

Increased participation

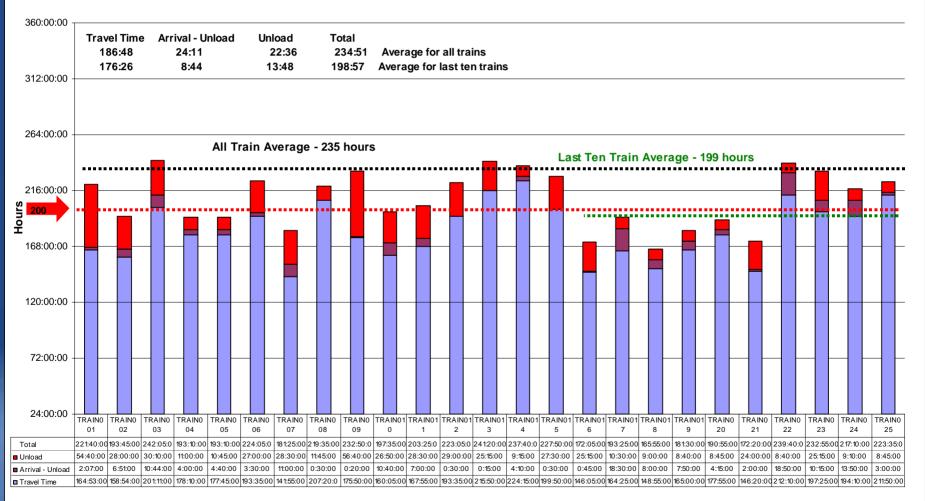
- Industry groups
- Legislative





Cycle Time Management

Plant Cycle Time Graph Cycle Time Calculated from Load-to-Load





Best Practices

- Cycle time analysis
- Shipment calendars
- In-pit crushing and overland conveyors
- Early notification of quality deviations
- Mid month assessment of deliveries and corrective action
- Supply diversification



Future Issues

Capacity for growth

- Per CRS study, capacity issues difficult to address due to lack of data
- Reliability
- Cost increases
- GHG Legislation
- Resolution of PRB joint line dust issue