Pipeline Factors Affecting Gasoline Prices

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Topics Discussed

➤ Introduction to Pipelines and Colonial Pipeline Company

> Economic Theory as Applied to Pipelines

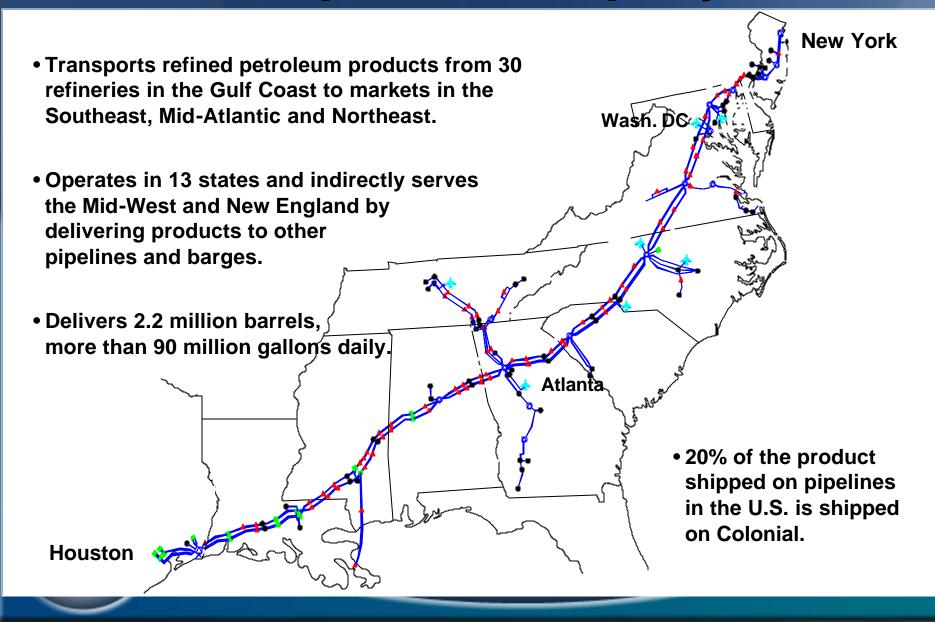
> Factors Affecting Pipeline Supply of Gasoline

> Recommendations

U.S. Product Pipeline Overview



Colonial Pipeline Company



Pipelines Are Low-Cost Distribution

Cost of Transporting Gasoline 1,000 miles

Cents/Gallon

Pipeline 1.5 - 2.5

Barge 4-5

Truck 30 - 40

Pipelines are a low-cost, safe mode of long-distance transportation of gasoline and other petroleum products.

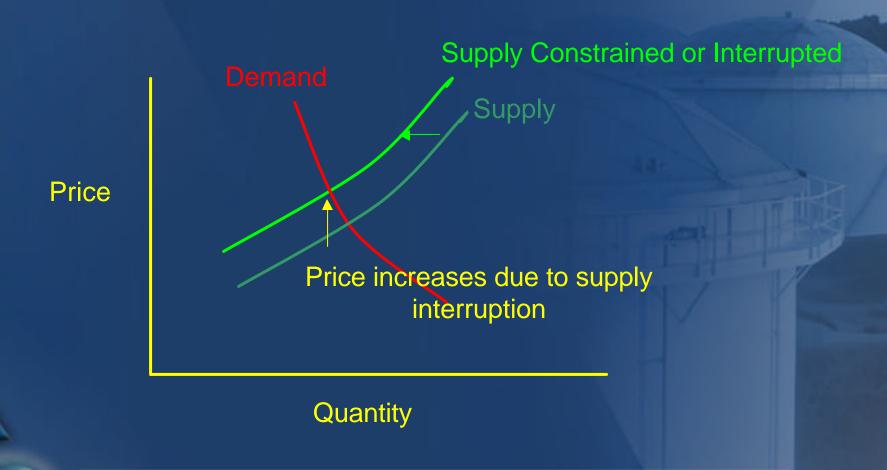
Supply and Demand Curves



Factors Influencing Elasticity of Supply and Demand

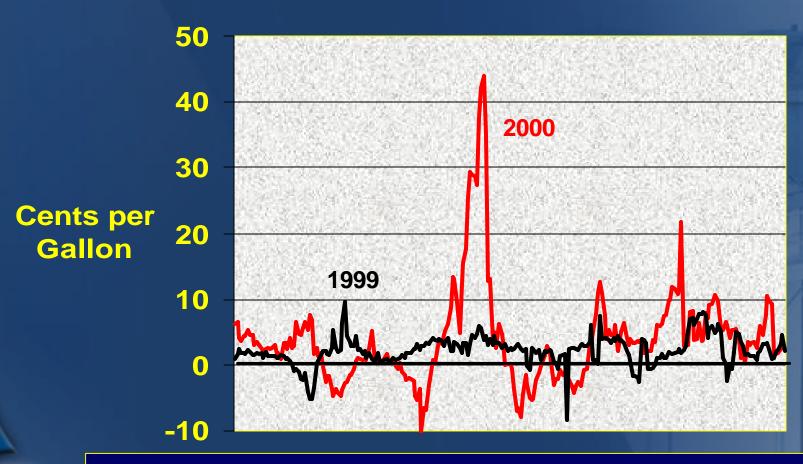
- 1. Availability of substitutes
- 2. Time required for substitutes
- 3. Importance of product in budget

Supply and Demand Curves





"Prices Spike in Chicago"



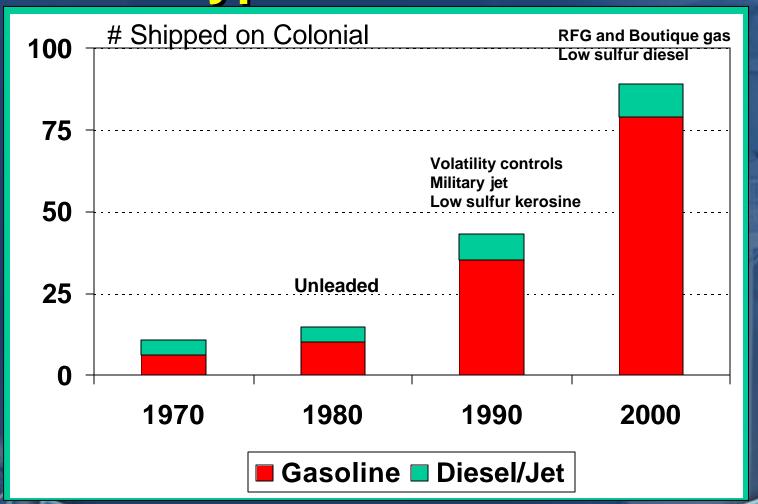
This is what supply disruptions look like to the consumer.

- > Pipeline operation interrupted or slowed down
- > Number of types of product and boutique fuels
- > Lower inventory at pipeline and terminal tank farms
- > Transition of different seasonal grades of gasoline
- > Many pipelines and/or segments are nearing capacity

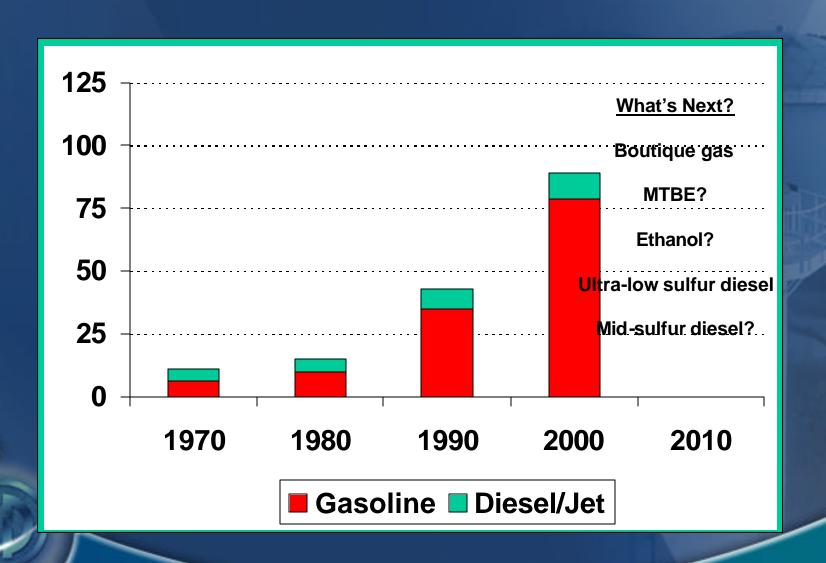
Leak-free and error-free is the objective of every pipeline operator.

- > Pipeline operation interrupted or slowed down
- Number of types of product and boutique fuels
 - Limits substitution of products between markets
 - Limits effective pipeline capacity
- > Lower inventory at pipeline and terminal tank farms
- > Transition of different seasonal grades of gasoline
- > Many pipelines and/or segments are nearing capacity

Explosive Growth in Number of Product Types



The Future Looks Even Worse



- > Pipeline operation interrupted or slowed down
- > Number of types of product and boutique fuels
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Number of days of inventory is reducing as:

- 1. Companies try to improve return on capital.
- 2. Demand increases without building additional tanks.

- > Pipeline operation interrupted or slowed down
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Gasoline sold at a terminal is different on May 1 than it was April 30.

- > Pipeline operation interrupted or slowed down
- > Number of types of product and boutique fuels
- > Lower inventory at pipeline and terminal tank farms
- > Transition of different seasonal grades of gasoline
- > Many pipelines and/or segments are nearing capacity
 - Market supply becomes tight as demand increases above capacity
 - Less spare capacity available to make-up for interruptions

Issues For Adding Capacity

➤ Will it be allowed to be built?

➤ Additional investment is required, but the returns may not be commensurate with the increasing business risk.

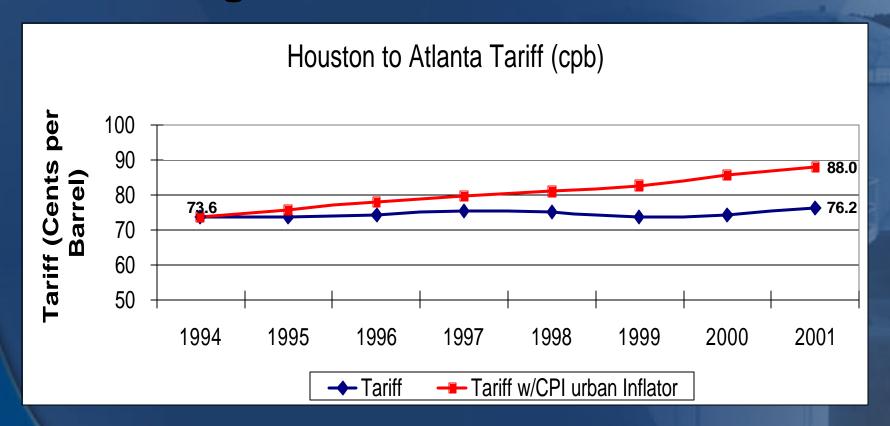
➤ Costs are increasing and FERC index tariffs do not provide incentive for significant incremental investment.

Is it incremental business worth the incremental investment?

Agencies Involved in Permitting A New Pipeline in AL and TN

Alabama Department of Environmental Management	Tennessee Valley Authority
Bureau of Land Management - Lead agency in EIS	US Fish & Wildlife Service
US Army Corps of Engineers	Alabama State Historic Preservation Office
Department of Army - Permit to Cross Redstone Arsenal	Tennessee State Historic Preservation Office
Department of Transportation - Office of Pipeline Safety	Tennessee Department of Environmental Conservation
Federal Energy Regulatory Commission	Tennessee Water Resource Administration
Environmental Protection Agency	Many City and County Agencies

Tariffs With Index Adjustments Do Not Encourage Incremental Investment



Tariffs have moved up only 0.5% per year since 1994 while CPI has increased 2.6% per year.

Summary...

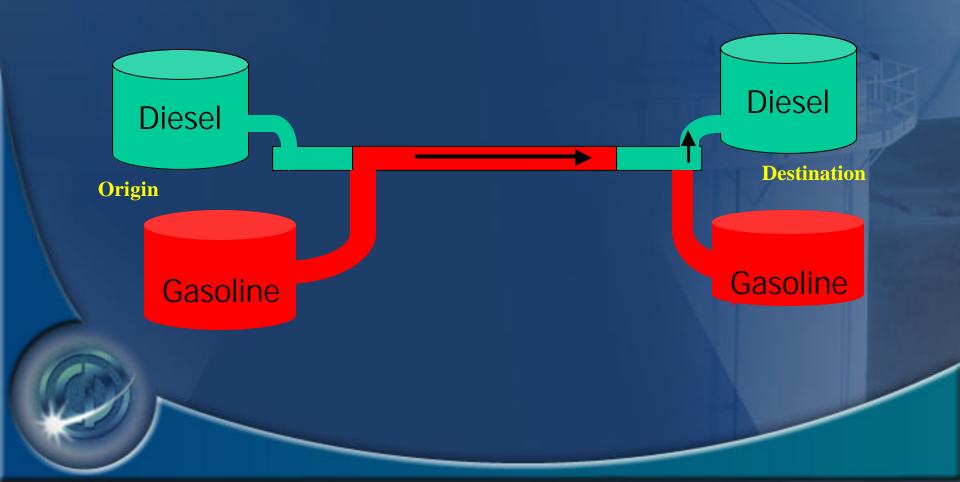
Actions to improve pipeline supply of products

- 1. More use of tariffs that are based on the market.
- 2. Multi-use ROW corridors for utilities and pipelines.
- 3. Streamlined permitting process that is coordinated at the Federal and State levels.
- 4. Standardization of fuels specs at Federal or regional levels to reduce the number of product types.
- 5. Pipeline industry exceeds requirements of the public for safe operation.



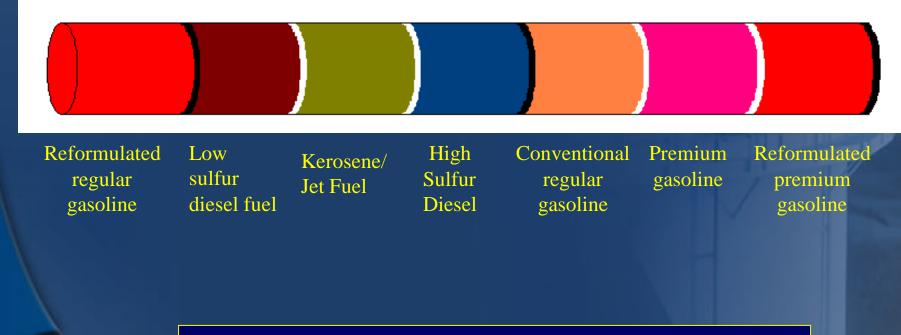
Product Batching

Allows multiple product to ship on the same pipeline



Product Integrity

• Different product batches are "pushed" through the system abutting each other.



Increasing the number of distinct product types complicates the product distribution systems.

Product Batching Multiple Origins and Destinations

