

25th world gas conference "Gas: Sustaining Future Global Growth"

Underground Natural Gas Storage in North America

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- What does storage look like in North America?
- How did we get here?
- What is the current environment for storage?
- As the natural gas market in North America continues to grow, how will storage play a role?



North American Storage Facilities





How did we get here?



KUALA LUMPUR

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Cumulative Working Gas Capacity (Bcf)





- Market based storage values reflect the spread between summer and winter prices
- Natural gas price volatility has been high but is now moderating due to the abundance of shale gas in North America



Historical Storage Values (\$/Dth) vs Henry Hub Spot Prices (\$/MMBtu)

Current Environment North American Natural Gas Supply (Bcf/d)





Source: ICF International

Current Environment Growing storage inventory levels



High gas production combined with a record warm winter...

... resulting in record gas storage inventories

Record Temperatures January – March 2012



North American Natural Gas Storage Levels (Bcf)



Current Environment How we manage storage

INTERNATIONAL GAS UNION UNION INTERNATIONAL GAS UNION

- Cost of service rates for regulated storage
- Market based storage
 - Firm services
 - Interruptible services
- New demand growth in North America will provide opportunities for storage

Current Storage Values (\$/Dth)



Demand side response is critical to realizing full potential and advantages of North American natural gas resources

Investments in ...

- Power Generation
- Industrial & Petrochemical
- LNG Exports







Investments in Petrochemical & Industrials



350

SMAN



Looking Ahead Storage Plays a Key Role

- Abundant supply and growing demand are changing the face of the natural gas industry in North America
- Storage continues to play an important role:
 - Growth in power generation will drive need for storage services to balance the grid on a hourly and daily basis
 - Reliability of storage will continue to be key for utilities
 - Emerging demand may provide additional opportunities for storage
- The nature of market based contracting will continue to evolve
- Storage will play a key role in maintaining a liquid, flexible, reliable North American market with a growing reliance on natural gas





