# COMMERCE DEPARTMENT

## Natural Gas in North America

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### Natural Gas Markets in North America

#### The Natural Gas Production, Transmission and Distribution System



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## Pipelines – North America



Source: Energy Information Administration, Office of Oil & Gas, Natural Gas Division, Gas Transportation Information System

**★** | Emerson Hub—Pricing Point for Canadian Gas

Ventura Hub—Primary delivery and pricing point for gas to Minnesota

 Demarcation Hub—Dividing point between Northern Field and Market Area. Alternate delivery and pricing point for gas to Minnesota

Henry Hub—Nameplate financial pricing point for natural gas

# Comparison of 2019 to 2021

#### January 2019 Event

- Isolated distribution and reliability issues caused by weather conditions
- Coldest weather in Minnesota since 1996 with many utilities approaching design-day and distribution planning objectives
- Conditions lasted for less than a week and were focused primarily in the Upper Midwest
- Cold weather event resulted in a Commission investigation (Docket No. G999/CI-19-160)

#### President's Day 2021 Event

- No reliability or deliverability issues for Minnesota LDCs, appears that potential cost issues are based on market forces
  - Run up in prices analogous to conditions over New Year's 2017/18
  - Prices at Ventura reached \$300 per Dekatherm
- Cold conditions persisted in the Upper Midwest for approximately two weeks with the coldest conditions occurring later in the event
- Conditions in Minnesota did not reach the Commission's designday planning objective of the coldest 24-hour average temperature (-25F for the Twin Cities)
- Preliminary data suggest that certain locations in Minnesota approached utility distribution planning objectives
- Weather conditions were extreme across large portions of the Midcontinent including the Southern United States

## **10-Year Historical Spot Prices**



### **Gas Planning and Procurement**

- Utilities typically review previous heating season performance and then create a gas purchasing plan in the spring for the upcoming heating season
- What is in a gas purchasing plan?
  - How much gas will be needed?
  - When to purchase gas
  - What types of products will be purchased to serve customers?
- Peak day or design-day
- Distribution planning

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## Minnesota Natural Gas Cost Recovery

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## Natural Gas Bill Breakdown

#### Parts of Bill

- Non-Gas Margin
  - Volumetric Rate and Fixed Charge
- Gas Costs
  - Weighted Average Cost of Gas (WACOG)
  - Demand Costs (Capacity)
- Conservation Cost Recovery Charge and Adjustment (CCRC/CCRA)
- Gas Affordability Program
- Other potential charges
  - New Area Surcharge
  - Gas Utility Infrastructure Cost Rider
  - Natural Gas Extension Project Rider



## Monthly Purchased Gas Adjustments (PGAs)



### Annual Automatic Adjustment Reports (AAA)



## Gas Cost Review

#### **Typical Circumstances**

- Evaluation of trends and events in:
  - Actual weather
  - Market prices
  - Natural gas storage
- Over- and/or under-recovery of gas costs
- Hedging practices
- Out-of-period adjustments

#### February 2021 Pricing Event

- Gas procurement plan post-mortems
- Timing of the price increases
- Economic curtailments
- Balancing hedging with daily requirements
- Purchasing strategies
- Offsetting relief or revenues

## Intersecting Dockets

#### Known:

- Commission Investigation (if opened)
- 2021 AAA Report and related true-ups

#### Potentially:

- Demand Entitlements
  - Changes to gas procurement practices
- Gas Hedging Variances
- COVID Deferred Accounting
  - Bad debt expense