

# **2021-2022 WINTER OUTLOOK**

**MARKETS MATTER** 



# **Understanding the Symbols**



Upward market pressure



Flat market pressure



Downward market pressure



# 2021-2022 Winter Outlook: Outline

### **LOOKING AHEAD TO WINTER 2021-2022**

















**SUMMARY** 



# **Demand: Economy**

Winter Season Period-to-period change	Last Winter 2020-2021 ACTUAL	This Winter 2021-2022 FORECAST
Economy	Rebound faltered	Gaining momentum
GDP Growth	0.6%	10%
Unemployment Rate	6.4%	4.8%
Consumer Sentiment Index	79.6	82%
Winter-to-winter pressure on natural gas prices		



# **Demand: Winter Weather (November-March Heating Season)**

### **Last Winter** 2020-2021 ACTUAL

### Actual winter heating season:

3% colder than previous winter

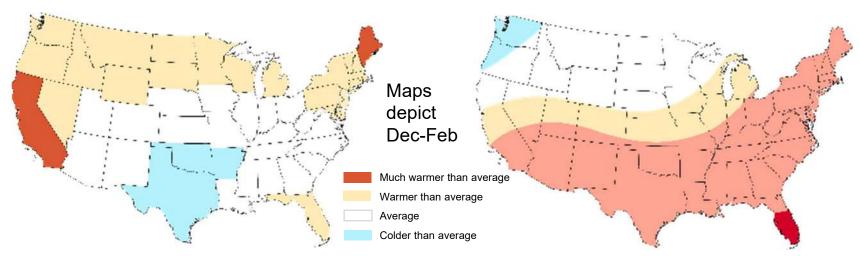
1% warmer than last three winters

### This Winter 2021-2022 FORECAST

#### Forecast:

1% *colder* than last year

Same as last three winters



3,398 Heating degree days (NOAA)

3,410 Heating degree days (EVA)

#### Winter-to-winter pressure on natural gas prices

Data Source: Energy Ventures Analysis.



# **Demand: Customer Demand**

Winter Season Period-to-period change	Last Winter 2020-2021 ACTUAL	This Winter 2021-2022 FORECAST	PREVIOUS 3- YEAR WINTER AVERAGE
Domestic Demand			
<ul><li>Residential/Commercial</li></ul>	37.3 Bcf/d	37.1 Bcf/d	37.9 Bcf/d
<ul><li>Power burn</li></ul>	26.7 Bcf/d	24.5 Bcf/d	27.2 Bcf/d
<ul><li>Industrial</li></ul>	23.9 Bcf/d	24.9 Bcf/d	24.7 Bcf/d
Subtotal	87.9 Bcf/d	86.5 Bcf/d	87.0 Bcf/d
Exports			
<ul><li>Pipeline exports - Mexico</li></ul>	5.4 Bcf/d	6.4 Bcf/d	5.1 Bcf/d
<ul><li>LNG exports</li></ul>	10.3 Bcf/d	12.0 Bcf/d	7.8 Bcf/d
Subtotal	15.7 Bcf/d	18.4 Bcf/d	12.9 Bcf/d
Total Natural Gas Demand*	110.9 Bcf/d	111.9 Bcf/d	109.9 Bcf/d
Growth sector	Exports +15%	Exports +17%	

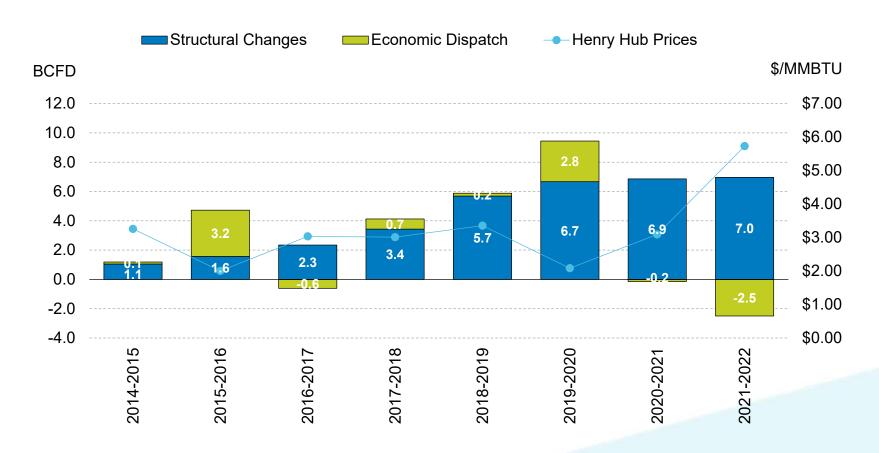
Winter-to-winter pressure on natural gas prices

\*includes "Lease, Plant and Pipeline Fuel" Data Source: Energy Ventures Analysis.



# **Electric Growth: Structural Growth vs. Economic Switching**

#### Power Burn Increase from 2013-2014 Winter: Structural Growth vs. Economic Switching





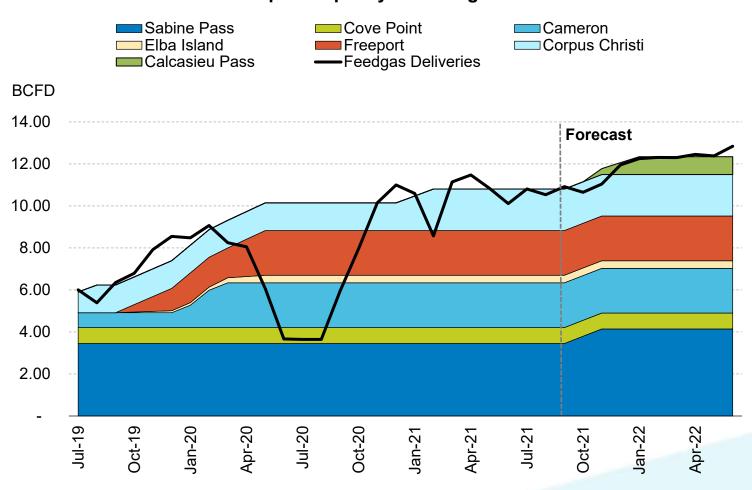
### **Focus: Industrial Demand Peak Growth Phase**





# **U.S. LNG Exports: Steady Growth Expected to Continue**

#### **U.S. LNG Export Capacity vs. Feedgas Deliveries**





# **Supply: Winter Production and Imports**

Winter Season Period-to-period change	Last Winter 2020-2021 ACTUAL	This Winter 2021-2022 FORECAST	3-YEAR WINTER AVERAGE
Winter average production (Lower 48)	89.9 Bcf/d	93.7 Bcf/d	91.2 Bcf/d
Canadian imports (net)	5.5 Bcf/d	5.2 Bcf/d	5.0 Bcf/d
LNG imports	0.1 Bcf/d	0.3 Bcf/d	0.3 Bcf/d
Winter-to-Winter			

pressure on natural gas prices

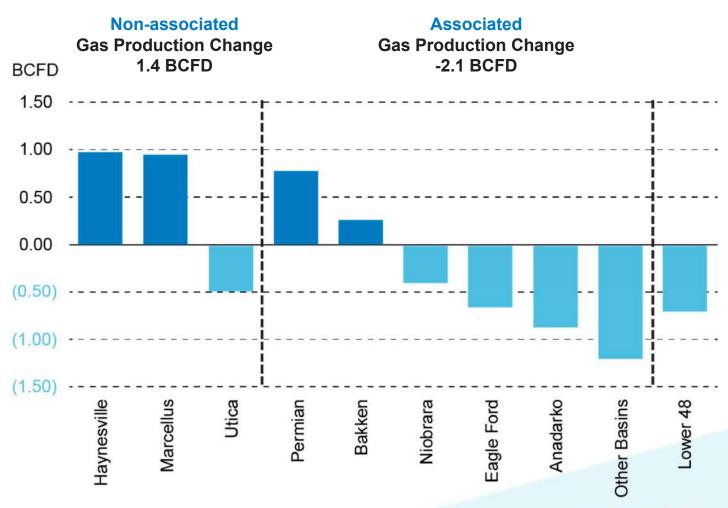
Data Source: Energy Ventures Analysis.





# **Recession Impact: Growth of Associated Gas Production Slows**

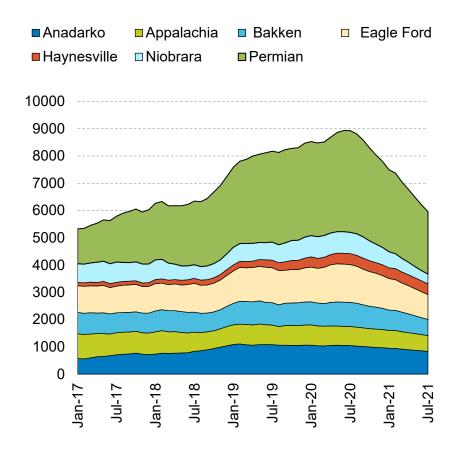
#### **Production Growth by Basin, 2021 vs. 2020 (through August)**



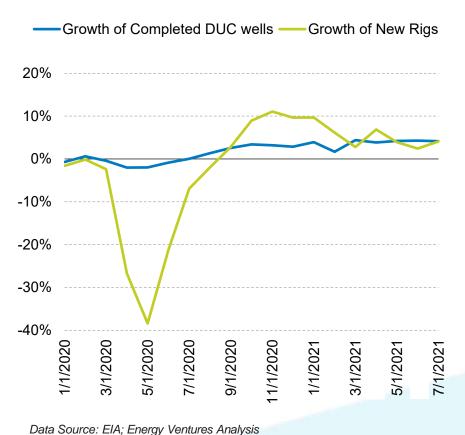


# **Efficiencies in Production, Drilling**

#### **Drilling Uncompleted Wells Inventory** in Major U.S. Producing Areas



#### **New Gas Supply Source Growth Indicators: DUC vs Rig**

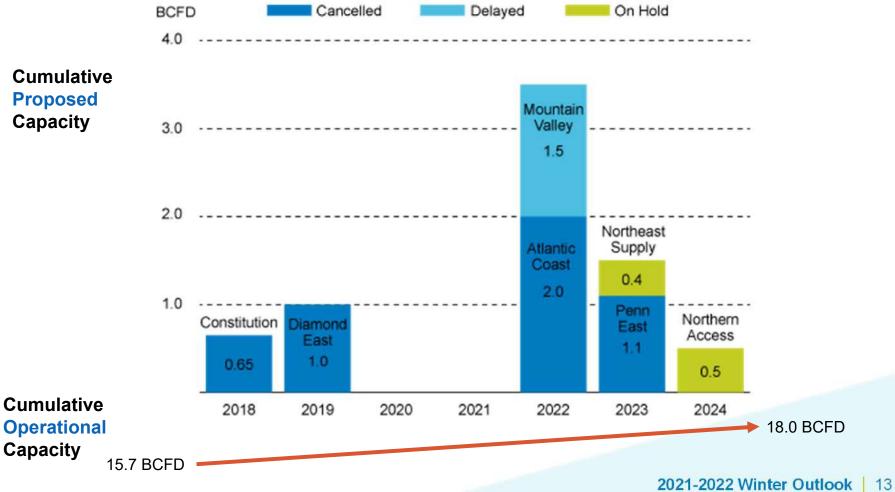


Data Source: EIA



# **Cancelled, Delayed Pipelines Continue in Northeast**

#### TOTAL OF 7.1 BCFD OF PIPELINE CAPACITY CANCELLED OR PUT ON HOLD IN NORTHEAST SINCE 2018 - BUT ONLY 2.3 BCFD ADDED



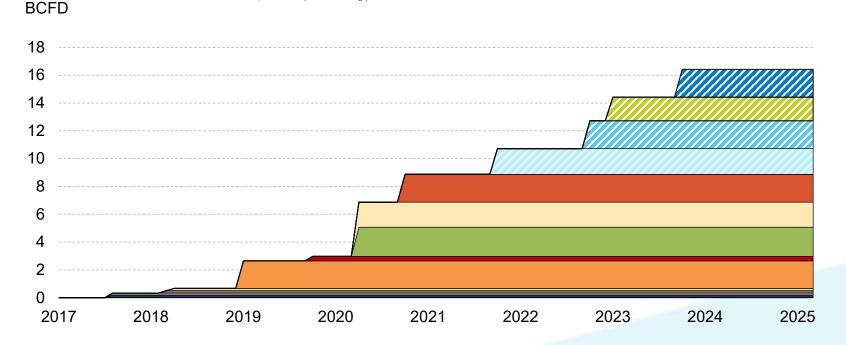


# **New Pipeline Capacity Bringing Long-Awaited Relief to Permian**

#### **Permian Production Takeaway Capacity**

- Bakersfield Compressor Station
- Permian North Expansion-El Paso
- Gulf Coast Express
- Permian Highway Pipeline
- ■Whistler
- ☑ Permian Pass (Pending)
- Bluebonnet Market Express (Pending)

- ■WT-1 Compressor Station Modification
- North Texas
- El Paso South Mainline Expansion
- Agua Blanca Expansion
- Pecos Trail (Pending)
- ☑ Permian to Katy (Pending)





# **Supply: Winter Storage**

Winter Season Period-to-period change	Last Winter 2020-2021 ACTUAL	This Winter 2021-2022 FORECAST
Start-of-winter inventory	3,924 Bcf	3,627 Bcf
Compared to 5-year average (Percent of total storage inventory)	1% higher	3% lower
Average daily withdrawal from storage	15.3 Bcf	12.9 Bcf
New storage capacity	+ 0 Bcf	+ 0 Bcf

Winter-to-winter pressure on natural gas prices





# Winter Outlook: Wild Cards





# **This Season's Winter Outlook**

Winter Season Period-to-period change	This Winter 2021-2022 FORECAST
Economy	
Weather	
Overall demand	
Winter supply	
Storage	
Winter-to-winter pressure on natural gas prices	



# Natural Gas Outlook: Flexible, Responsive Gas Market

- Exports grow strong and steady along with new gas-fired generation and increased industrial demand
  - Exports LNG exports increase as production and supply issues trouble Europe and Asia
  - Power burn fueled by structural growth this winter
  - Economic recovery boosts industrial demand to higher utilization rates
- Winter supply a combination of modest growth in production and storage
  - Producers ramping up production cautiously
    - DUCs enabling production to get to market faster
    - Drilling rigs up 30% compared to last winter
    - Non-associated gas growth still outpacing associated gas for now
    - Last winter's experience with COVID, other uncertainties limit exuberance
    - Storage at low end but within 5-year average



### **About NGSA**

- Represents major producers and suppliers of domestic natural gas
  - Integrated and independent companies: 8 members
  - Founded in 1965
- Only national natural gas association representing producers and suppliers with a dedicated focus on downstream issues
- Promotes benefits of competitive natural gas markets, resulting in reliable and efficient transportation and delivery, increased supply and demand
- Combined with the Center for LNG



# **Contact:**

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# Last Year's Projection: How Did We Score? (Background Slide)

**Predicted** Pressure on Prices

Actual Pressure on Prices

Score







# **Correctly predicted:**

We correctly projected record-breaking demand and supply. However, supply abundance outpaced demand due to very warm winter and new pipeline capacity. **Result: Downward pressure on prices** 

- Last winter 2020-2021 average Henry Hub price = \$3.09 MMBtu
- Previous winter 2019-2020 average Henry Hub price = \$2.08 MMBtu

