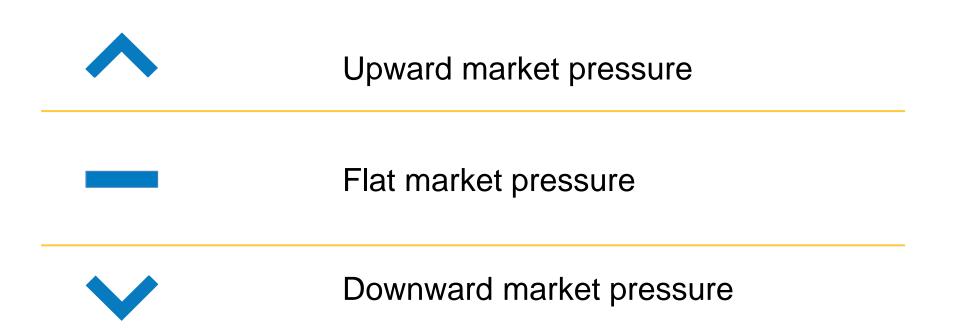


# 2023 SUMMER OUTLOOK MARKETS MATTER



# **Understanding the Symbols**





## 2022 Summer Outlook: Outline

### **LOOKING AHEAD TO SUMMER 2023**

















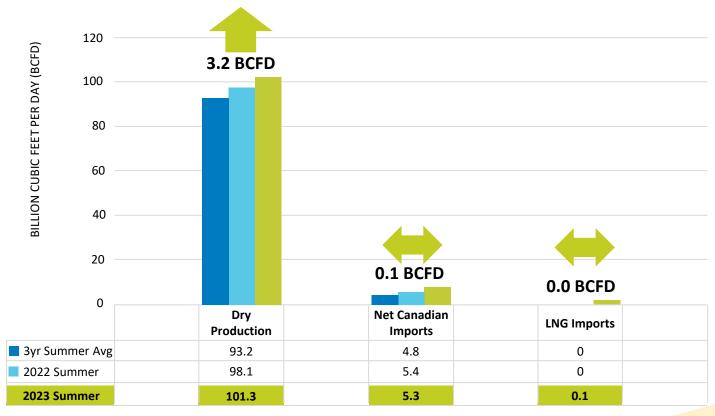
**SUMMARY** 



# **Supply: Projected Record Production 3% More Than Last Summer**

# **Total Supply Forecast: 106.7 Bcf/d**

Previous 3-year average: 98.1 Bcf/d 2022 Summer average 103.6 Bcf/d



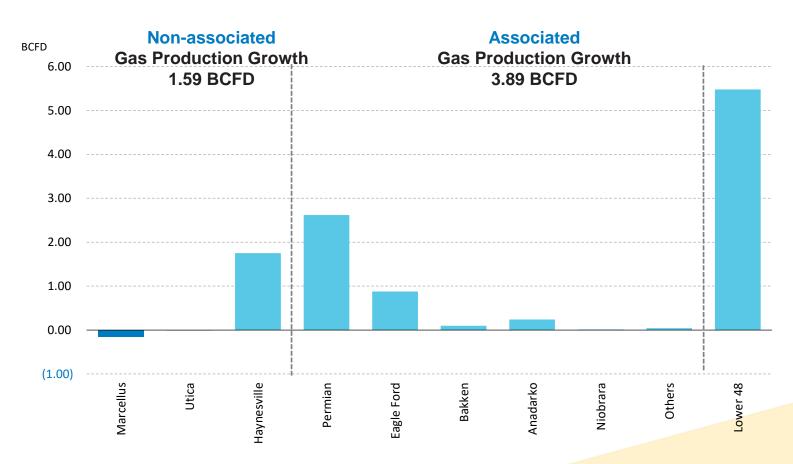
# Summer-to-summer pressure on natural gas prices





# **Rebound in Non-associated Gas Adding to Continued Growth of Associated Gas**

#### **Production Growth by Basin: Comparison of Two Recent Winters** (2021-2022 Winter vs. 2022-2023 Winter)

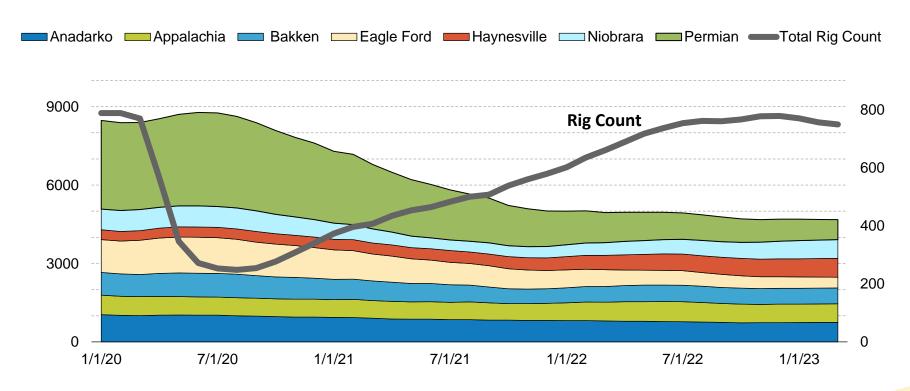


Source: EIA, Energy Ventures Analysis



# **Efficiencies Buoy Record Production** As Rigs Decrease and "DUC" Inventory Levels Out

#### Rigs and Drilled Uncompleted (DUC) Wells **Keep Natural Gas Output High**

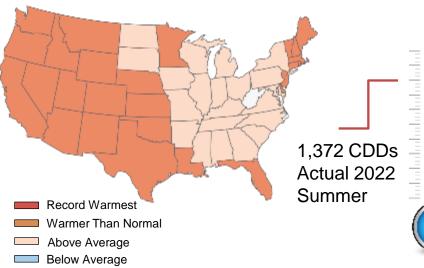




## Weather: Summer Cooling Season (April-October)

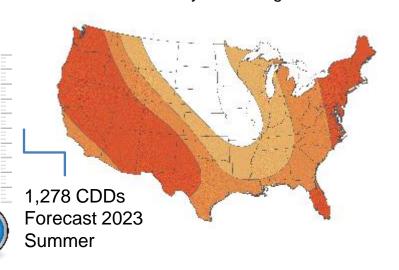
# Last Summer | 2022 ACTUAL

**ACTUAL:** 1,372 Cooling degree days Same as 10-year average April-October But June-Aug was 3rd hottest on record



# This Summer | 2023 FORECAST

**FORECAST:** 1,278 Cooling degree days 7% cooler than 2022 cooling season 7% cooler than 10-year average



## **Summer-to-summer pressure** on natural gas prices





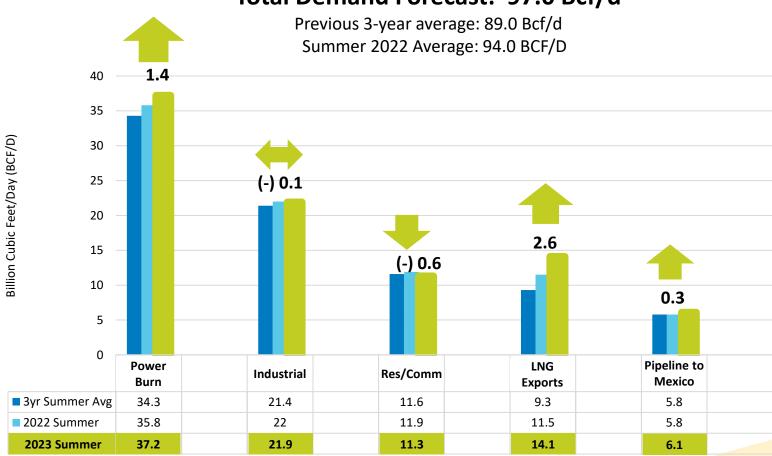
# **Demand: Economy**

Summer Season Period-to-period change	Last Summer 2022 Actual	This Summer 2023 Forecast
GDP Growth	3.7%	1.6%
Manufacturing	80%	79%
Unemployment rate	3.6%	3.4%
CPI (annual)	7.9%	4.5%
Consumer Expectations Index	77	68
Summer-to-summer pressure on natural gas prices		



## **Demand: Projected 3% Higher Than Last Summer**

# **Total Demand Forecast: 97.0 Bcf/d**



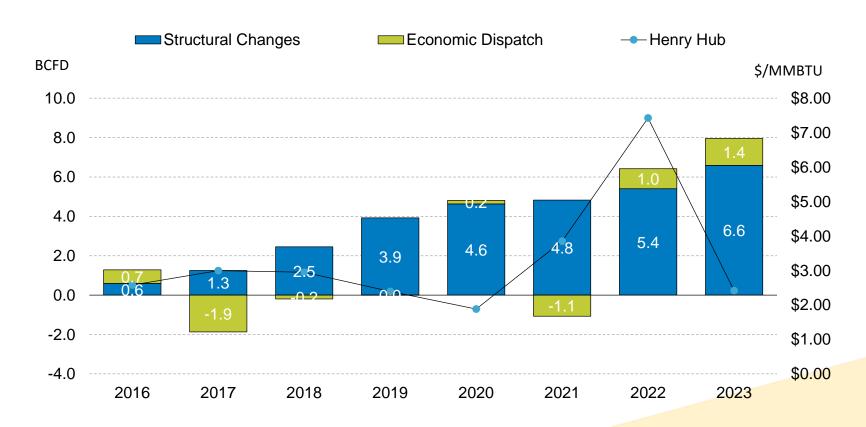
# Summer-to-summer pressure on natural gas prices





## Power Burn Growth: Structural Growth vs. Economic Switching

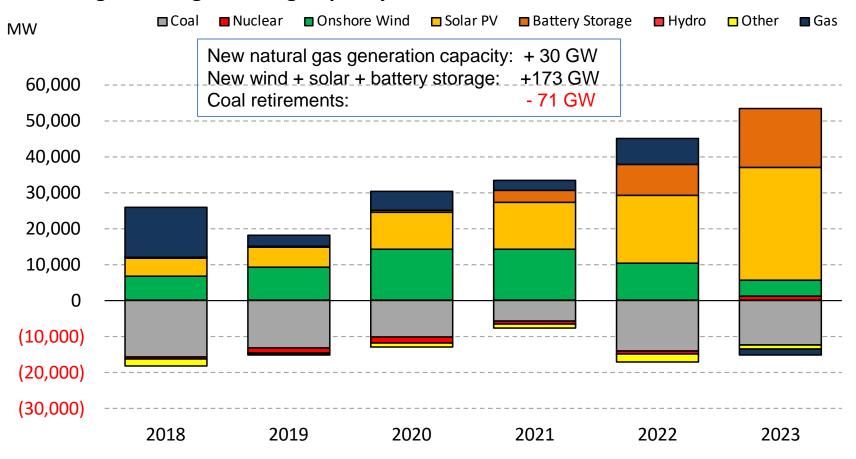
#### **Power Burn Increase** Summer Structural Growth vs. Economic Switching 2017-2022 (compared to baseline of summer 2015)





## Change in U.S. Power Generation Fuel Mix 2018-2023

#### Net change in U.S. generating capacity



Source: Energy Ventures Analysis, U.S. EIA



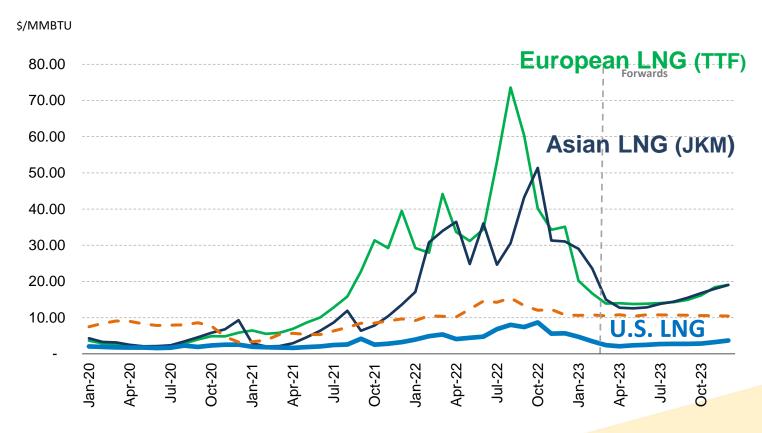
#### **Focus: Industrial Demand Peak Growth Phase**





# U.S. Prices Level Compared to Europe, Asia

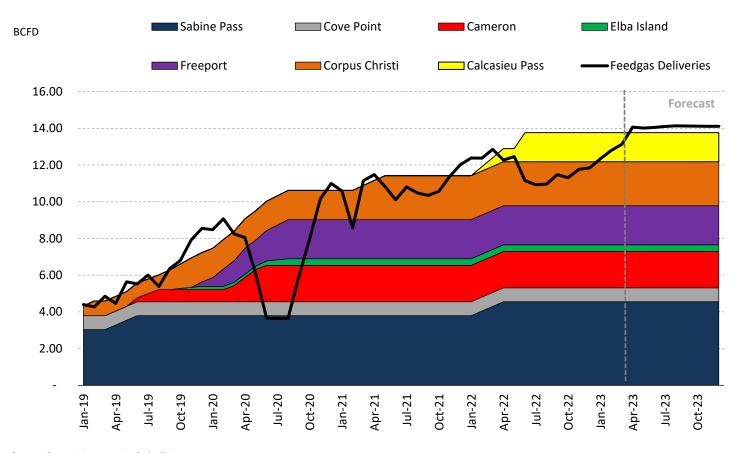
# **Global LNG prices**





# **U.S. LNG Exports Respond to European Crisis**

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



Source: Energy Ventures Analysis, EIA

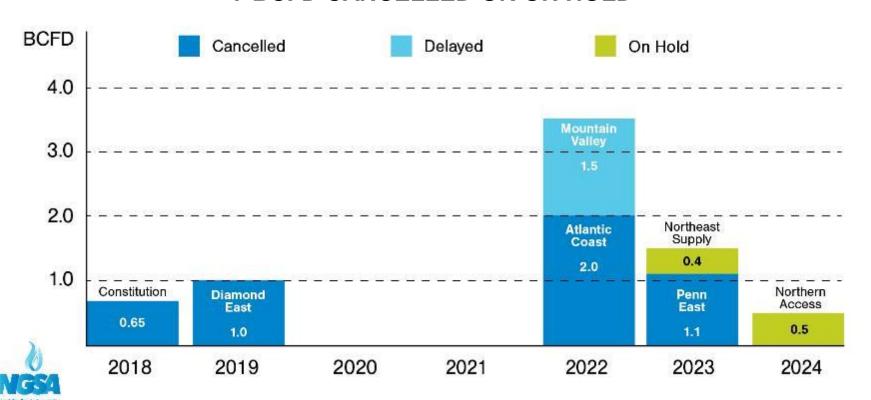


# Cancelled, Delayed Pipelines Reflect Difficulty of Permitting

# NORTHEAST/MID-ATLANTIC CANCELLED, ON HOLD PIPELINE CAPACITY 2018-2024

**BILLION CUBIC FEET PER DAY (BCFD)** 

#### 7 BCFD CANCELLED OR ON HOLD





# **Summer Storage**

Summer Season Period-to-period change	Last Summer 2022 ACTUAL	This Summer 2023 FORECAST
Summer starting point	1,381 Bcf	1,827 Bcf
Average daily injections	9.5 Bcf/d	9.7 Bcf/d
End of injection season	3,542 Bcf	3,895 Bcf
Summer-to-summer pressure on natural gas prices		



# **This Season's Summer Outlook**

Summer Season Period-to-period change	This Summer 2023 FORECAST
Summer Supply	
Weather	
Economy	
Customer demand	
Summer storage	
Summer-to-summer pressure on natural gas prices	



# **Summer Outlook: Wild Cards**





## **Natural Gas Outlook: Final Thoughts**

## Summer production record-setting even with slowing rig count

- Producers ramped up production to record levels
  - DUCs enabling production to get to market faster
  - Drilling rigs declining but efficiencies boost production
  - Non-associated gas contributes along with associated gas

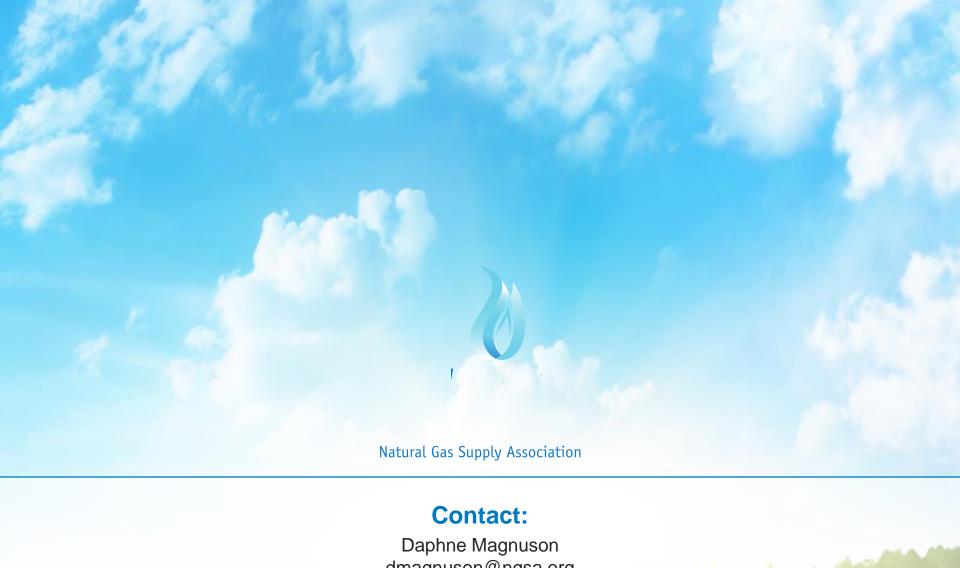
# Summer power burn and LNG exports keep demand strong

- Power burn expected to hit record demand for natural gas despite milder summer
- Exports LNG exports continue strong as EU countries replace Russian gas
- Industrial demand slows minimally with slowing economic growth
- Power sector fuel mix continues to evolve with more gas and renewables, less coal



#### **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



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