

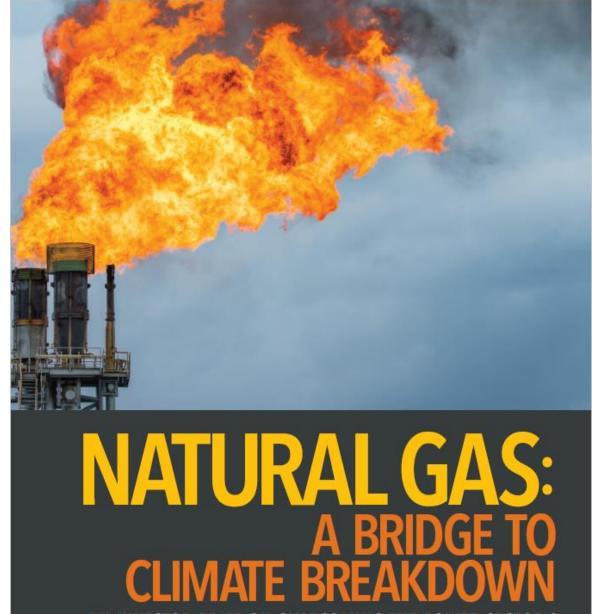
# Natural Gas: A Bridge to Climate Breakdown





# Agenda

- •Agenda overview & webinar logistics (5 min)
- •Introduction & report overview (15 min)
- •Moderated panel discussion / Q&A (35 min)
- •Wrap Up (5 min)







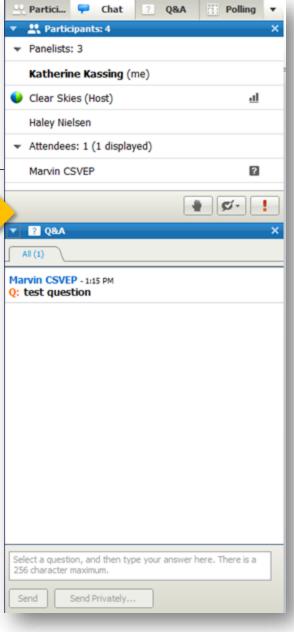
# Audience Q&A

Download the report at:

https://www.asyousow.org/reports/naturalgas-bridge-to-climate-breakdown

Use the Q&A window to send us your questions

Q&A Window







# Presentation & Moderation



Mike O'Boyle
Director of Electricity Policy
Energy Innovation



Lila Holzman Energy Program Manager As You Sow

# Featured Speakers



Barbara Lockwood Senior VP of Public Policy Arizona Public Service Company



Chaz Teplin
Manager in Electricity Practice
Rocky Mountain Institute

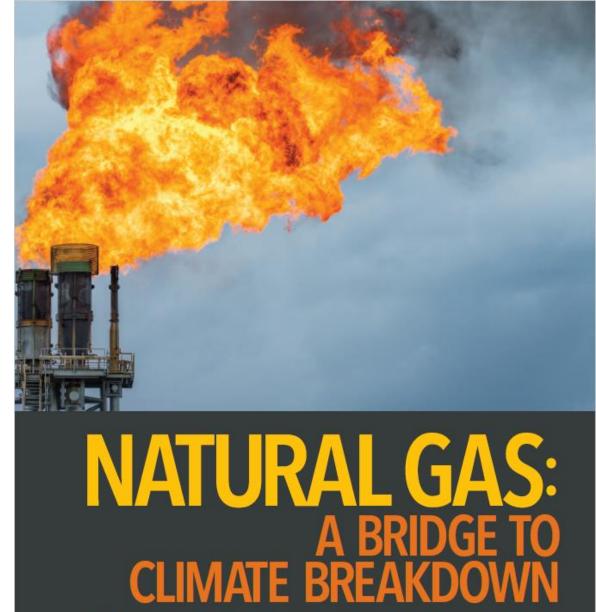


Stephen Byrd
Managing Dir. and Head of Research
for Power & Utilities, Clean Energy &
Midstream Industries
Morgan Stanley

# Report Presentation



Mike O'Boyle
Director of Electricity Policy
Energy Innovation



# TAKEAWAYS

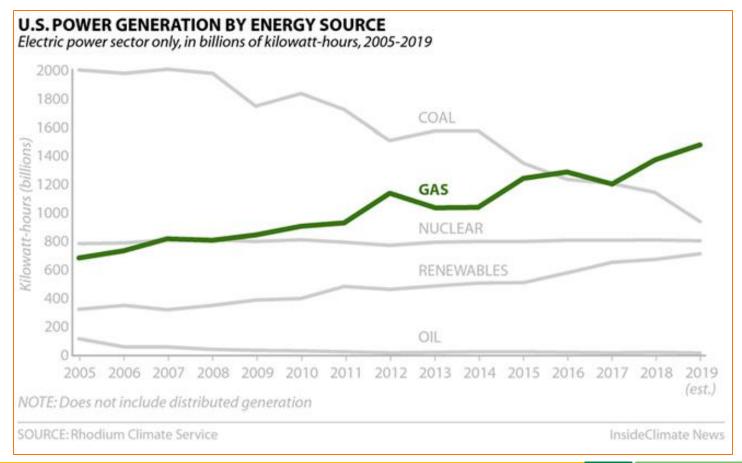
#### THREE KEY INSIGHTS

- 1. New natural gas infrastructure will not depreciate until after 2050
- Renewable and storage costs will continue to drop, while natural gas infrastructure costs and fuel cost are mature
- 3. The low-carbon energy transition is a massive capital investment opportunity for utilities



## Natural Gas & U.S. Emissions

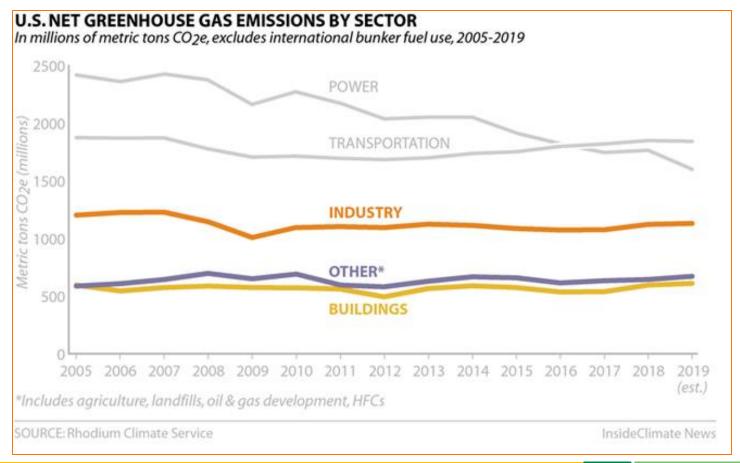
How did we get here and where are we now?





# Natural Gas & U.S. Emissions

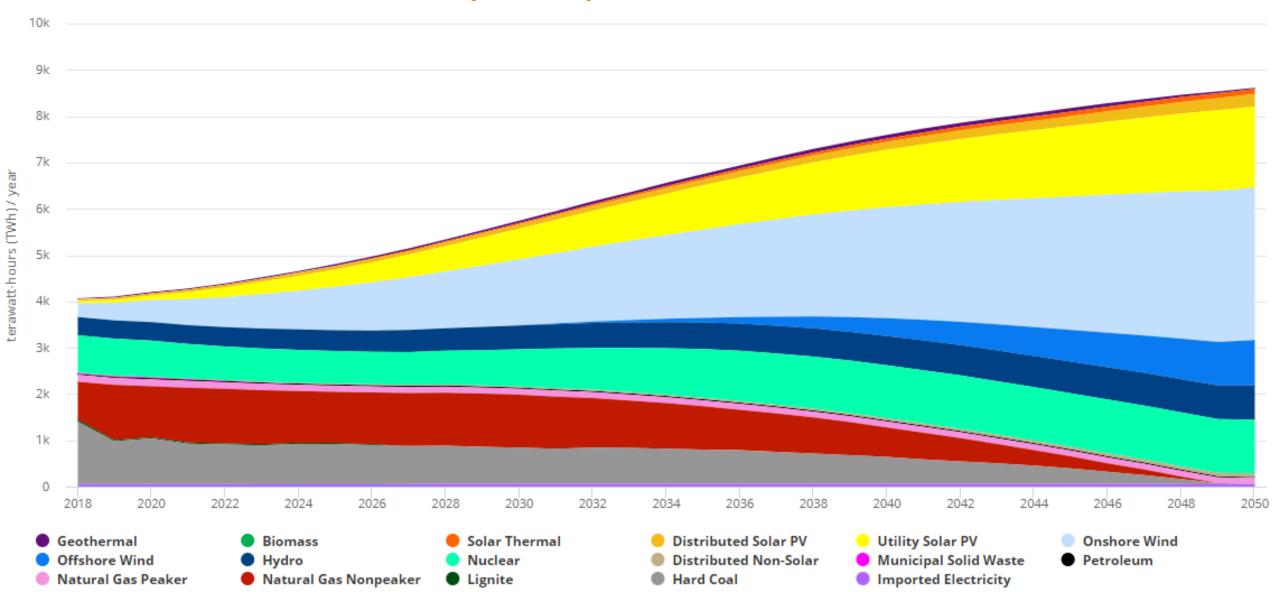
How did we get here and where are we now?





#### Where are we going?

#### Net-zero emissions electricity sector by 2050?



# 4 Types of Risk Identified

- 1. Portfolio Harms & Physical Risks of Climate Change
- 2. Policy & Public Pressure Risks
- 3. Financial Risks of Natural Gas Investment
- 4. Risks & Opportunities in Utility Decarbonization





# Financial Risks of Natural Gas Investment

Renewables are now the cheapest source on a levelized cost basis...

But what about natural gas dispatchability?



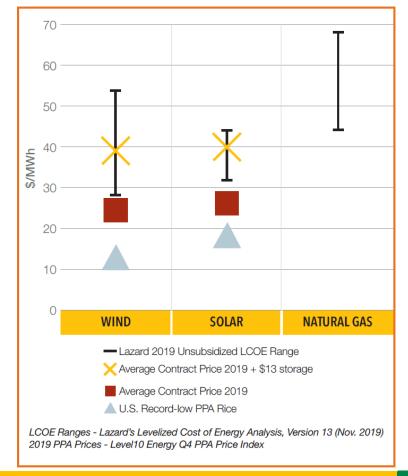




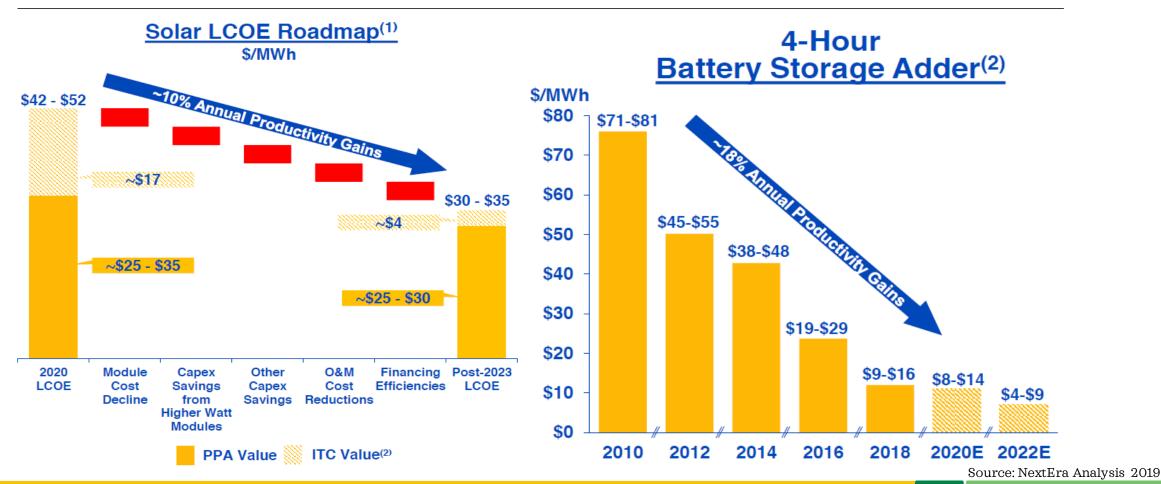
# Financial Risks of Natural Gas Investment

Solar plus storage is already cheaper than new natural gas according to existing contracts...

Taking advantage of tax credits.



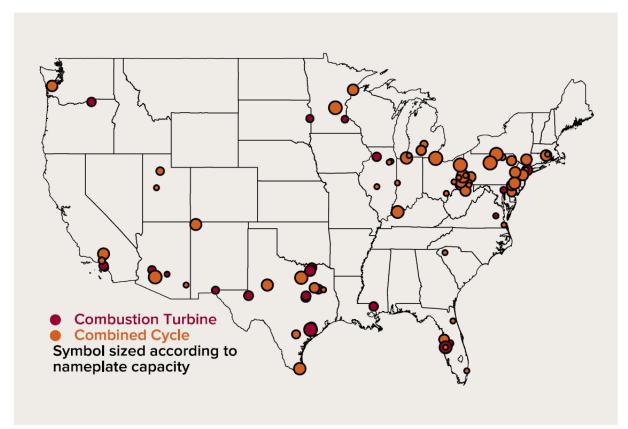
# Financial Risks of Natural Gas Investment





## And Yet...

#### ANNOUNCED GAS-FIRED GENERATION PROJECTS



In "The Growing Market for Clean Energy Portfolios"
Rocky Mountain Institute found utilities had announced 68 gigawatts in new natural gas investment as of 2019, potentially creating billions in stranded costs.

# Risks & Opportunities in Utility Decarbonization

#### Risks

- Operating grids with very high (80%+) shares of renewables
- Failing on a 'Just
   Transition' from fossil
   fuels
- Parent company climate goals at odds with subsidiaries



# Risks & Opportunities in Utility Decarbonization

#### Opportunities

- Steel for Fuel
- 'Electrify Everything'



# Recommendations: Opportunities for Investor Engagement

#### Utility Engagement

- Encourage decarbonization targets
- Is new gas compatible with?
- · Scrutinize planning and modelling
- Investment in innovation
- Are lobbying funds promoting status quo?
- Potential governance changes

#### Policymaker Engagement

- Encourage and guide financial transition policies such as securitization
- Utility business model transformation policy
- Engage with state regulators and utilityfocused forums
- Support investment in innovation
- Support strong state policy signals



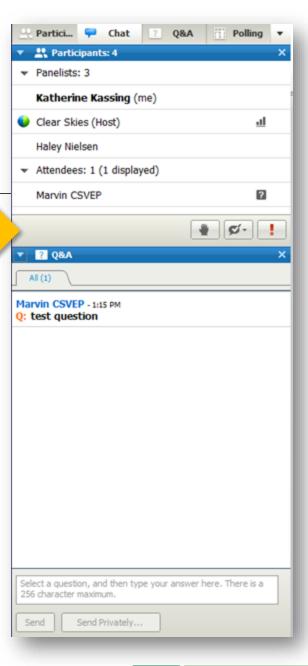


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## Panel Moderation



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### Contact

#### **Media/Press Contacts**

As You Sow Stefanie Spear sspear@asyousow.org

**Energy Innovation** Silvio Marcacci silvio@energvinnovation.org

#### Send Follow Up Questions to Report Authors

#### Lila Holzman

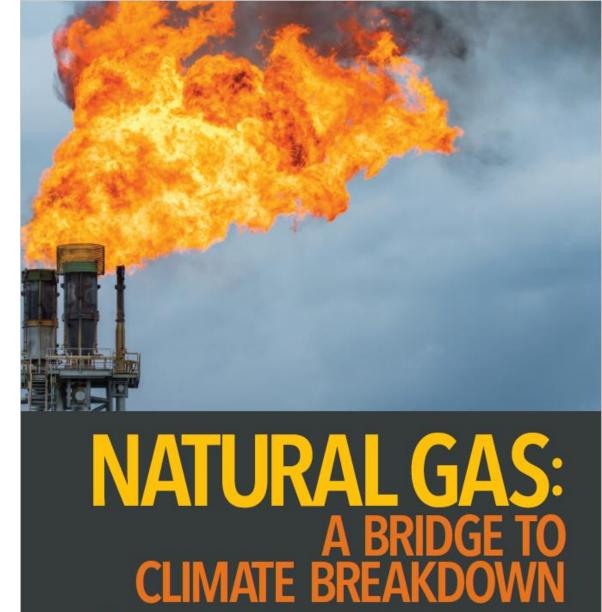
As You Sow lholzman@asyousow.org

#### Mike O'Boyle

**Energy Innovation** Michael@energyinnovation.org

#### **Daniel Stewart**

As You Sow Consultant dstewart@asyousow.org







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