Energy for the Future: Infrastructure's Role in the Energy Evolution

Brian Hlavinka Director, New Energy Ventures February 7, 2022

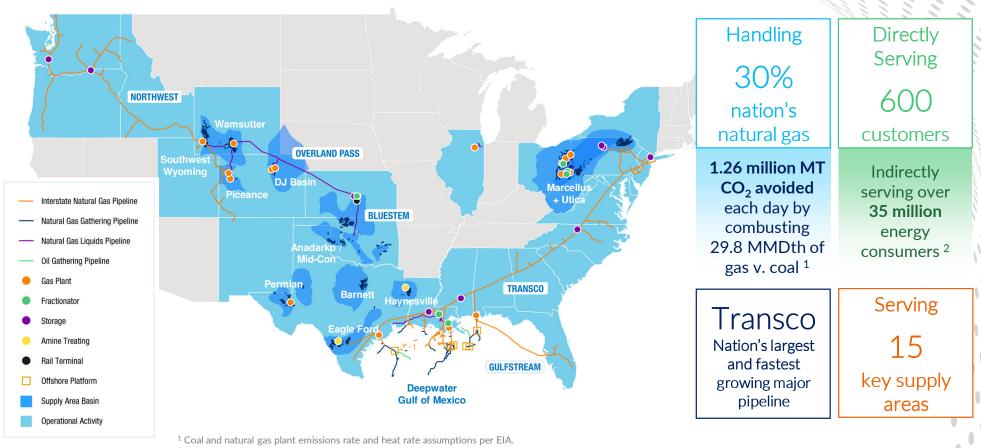


WE MAKE CLEAN ENERGY HAPPEN®

MR

williams.com

Large-scale, irreplaceable natural gas infrastructure



² Based on customer count statements of major gas and electric utilities served by Transco, Northwest Pipeline, and Gulfstream.

Sustainable strategy driven by long-term trend of natural gas demand growth

OUR MISSION

Committed to being the leader in providing infrastructure that safely delivers natural gas products to reliably fuel the clean energy economy



Authentic



WHO WE ARE

Safely and responsibly handle 30% of the natural gas in the United States that is **used every day** to heat our homes, cook our food and generate our electricity





Committed to a clean energy future

Williams recognizes the risks of climate change and our strategy provides a practical and immediate path to reduce industry emissions and grow a clean energy economy

Right Here, Right Now Opportunities

Goal: 56% absolute reduction in company-wide greenhouse gas emissions by 2030

Leverage our natural gas-focused strategy and technology that is available today to focus on immediate opportunities to reduce emissions, scale renewables and build a clean energy economy.

Future Innovation and Technologies

Our path to net zero by 2050 involves a combination of immediate and long-term solutions, including investments in renewables, technology and the best and brightest talent who are committed to doing what is right.

Note: 56% absolute reduction measured against 2005 emissions



Significant Improvements in Emissions Efficiency



Significant growth since 2005

Transmission capacity up over 100%

Gathering volumes up nearly 3x

Emissions down while business scales up

Improving operations efficiency

Implementing operating practices focused on safety and emissions reductions

Modernizing equipment and investing in new technologies



Williams greenhouse gas emissions vs. natural gas handled

¹ For 2005, E&P net volumes: 0.7 Bcfe/d; Firm reserved transmission capacity (Transco, NWP and Gulfstream): 10 Tbtu/d; Gathering volumes: 3.4 Tbtu/d; gas used in power tolling agreements: 0.2 Bcf/d. For 2019, Firm reserved transmission capacity (Transco, NWP and Gulfstream): 21.5 Tbtu/d; Gathering volumes:12.9 Bcf/d. Tbtu converted to Bcf at 1,000 btu per cf.

Partners committed to a clean energy future



Committed to being the **leader in providing infrastructure** that safely delivers natural gas products to reliably fuel the clean energy economy

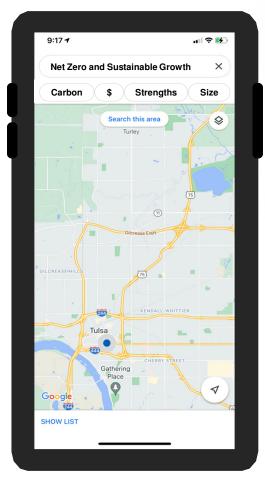
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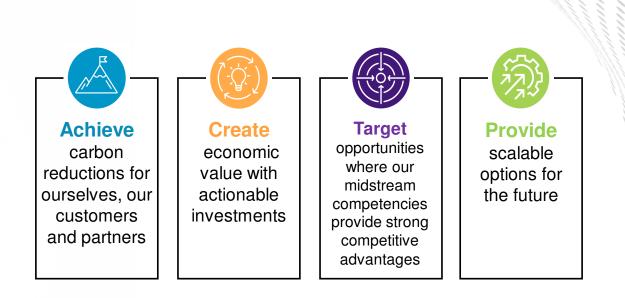
Our mission is to empower every person and every organization on the planet to achieve more.



A climate-tech **startup incubator** like you've never seen before. We're bringing together startups, corporates, investors, politicians, and many others to **shape our best future**.

Our Direction will be Guided by these Principles



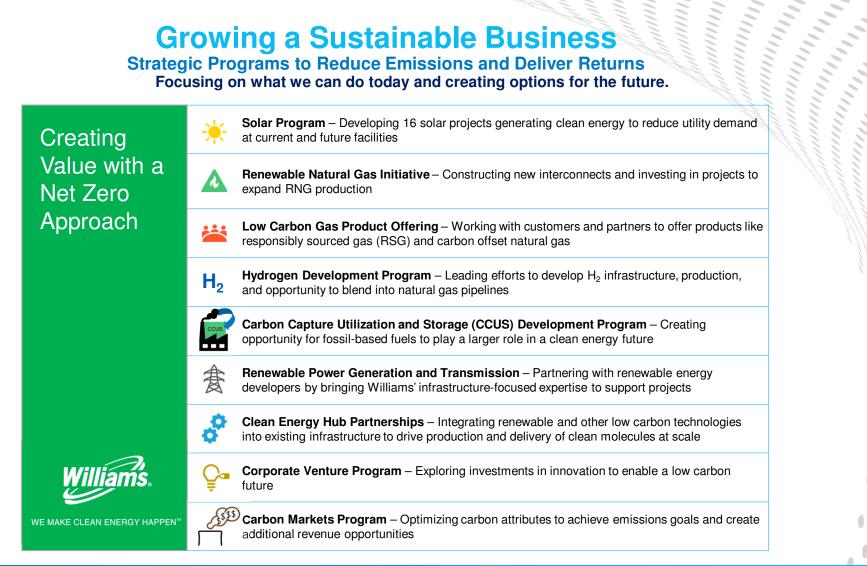


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Growing a Sustainable Business

Strategic Programs to Reduce Emissions and Deliver Returns

Focusing on what we can do today and creating options for the future.



Leveraging our footprint to create value and new revenue generation



Current Developments

- > Solar Program
 - Developing 16 projects, current total of ~350 MW, inservice starting in 2023
 - Identified 34 additional projects for future development
- > Renewable Natural Gas
 - Currently 7 existing interconnections to Williams infrastructure, more in the queue for 2022-2023
 - Evaluating multiple investment opportunities along Transco and NWP

Forward-looking Innovation

- Partnership with University of Oklahoma, University of Wyoming, Department of Energy on hydrogen blending and efficient energy storage
- Expanding origination team to explore emerging opportunities like hydrogen, CCUS, and develop Roadmap to Net Zero by 2050

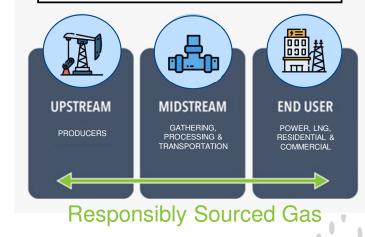


Responsibly Sourced Gas

Technology advancements enable the data transparency required for verifiable carbon intensity to become a differentiated attribute of delivered natural gas



What is RSG? - Natural gas with independent verification that it has been produced with high standards of responsibility to air, water, land, and community



RSG Technical Program Quantification, Monitoring, Reporting and Verification

Quantify & Monitor

- Top-down suite of technology
- Industry wide testing, development, and pilot technology
- Data integration is essential

Reporting

- EPA Reporting typically based on emissions factors (estimates)
- Measured methane reporting critical to show actual change methane emissions
- Protocols and standards in progress for midstream



Verification

- Transparency allows for auditing against multiple standards
- Additional emissions transparency is key for verification and authenticity
 - Data governance
- Audit reviews
- Repeatable standards



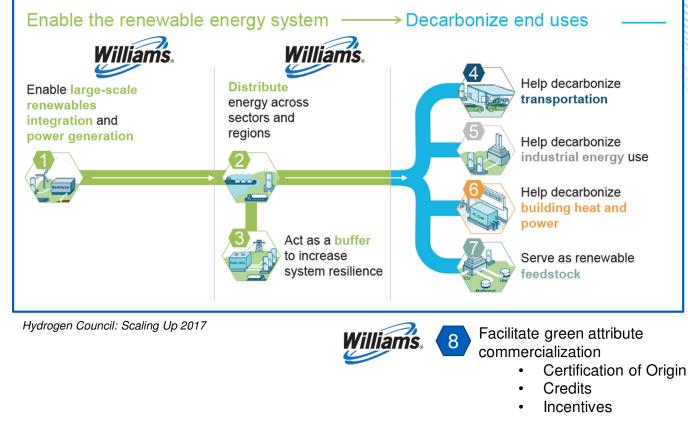
Hydrogen – The Next Generation of Clean Energy?

Why Hydrogen?

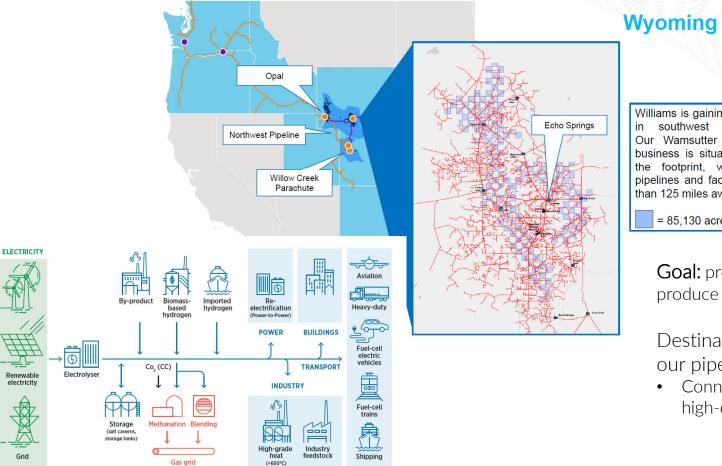
- Political, social, environmental drivers
- Large deployment of wind, solar and renewables
- Versatile

Hydrogen Versatility

- Net zero goals
- Decarbonization
- Energy Storage
- Fuel (Heat /Transportation)
- Feedstock
- Extension of fossil fuel network



Hydrogen – The Next Generation of Clean Energy?



Williams is gaining acreage in southwest Wyoming. Our Wamsutter gathering business is situated within the footprint, with other pipelines and facilities less than 125 miles away.

= 85,130 acres

Goal: produce 2-3/kg green H₂ produce \$25-35/MMBTU RNG

Destinations are not limited to our pipelines

• Connecting low-cost supply to high-demand markets

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WE MAKE CLEAN ENERGY HAPPEN®

Natural gas remains a global fuel for the future

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