

Southwestern Energy®

Water Use Best Management Practices

SIN

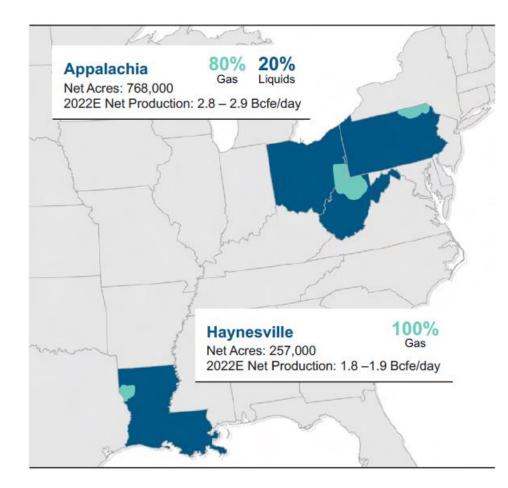
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November 2022

SWN Southwestern Energy*

Who We Are

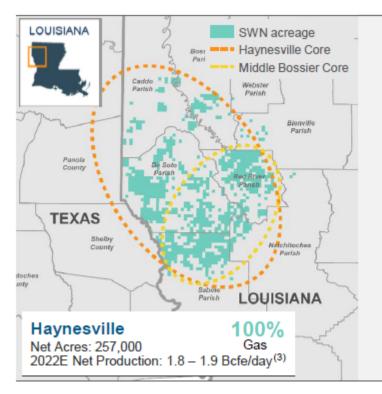
- A leading U.S. producer and marketer of natural gas and natural gas liquids with assets across the country's two major natural gas basins: Appalachia and Haynesville.
- Operations in Pennsylvania, West Virginia, and Ohio are primarily focused on the Marcellus and Utica shale formations
- Louisiana operations, acquired in 2021, are focused on the Haynesville and Bossier formations.
- We also operate drilling rigs and provide certain oil field products and services, principally serving SWN's E&P operations through vertical integration.





Haynesville – Core Stacked Pay Position





Acreage located in geologic "sweet spot" of stacked Haynesville and Middle Bossier

High resource in place and reservoir pressure underpinning well performance

>1,700 economic inventory locations; strength of inventory highlighted in Enverus Haynesville basin report

- Inventory at anticipated 2022 levels and based on company inventory assessment
 - Approximately 13 years of core inventory
 - Approximately 23 years of total inventory

Environmental, Social, and Governance (ESG)

Our Approach to ESG





SUSTAINABLE VALUE

Creating sustainable value requires meaningful and impactful actions that consider our stakeholders' perspectives and align with our corporate strategy.



SOCIAL RESPONSIBILITY

Protecting the health and safety of our workforce. recognizing their personal value, treating everyone with dignity and respect, and positively impacting the communities in which we work and live.



NIMIZING CARBON FOOTPRINT

Sustainable and responsible natural gas development is foundational to a lower-carbon energy future.

Our approach to ESG aligns with our corporate strategy to deliver lasting shareholder value

- Long-term GHG emission reduction goal of 50% decrease by 2035, consistent with a path to net zero by 2050
- Certified production from all wells as responsibly sourced gas and installing well site continuous emissions monitors
- Returning more fresh water to the A environment than we consume





Fostering a diverse and inclusive workforce



Protecting people and preserving the environment

Governance best practices



Commitment to Fresh Water Neutrality



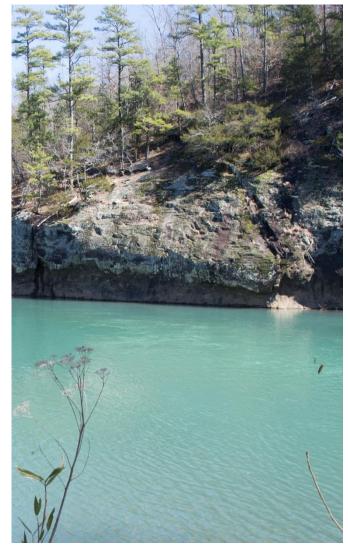
- SWN is committed to responsibly managing water resources as they are vital to the communities and ecosystems in which we operate
- SWN is among the leaders in our industry for reducing the use of fresh water through recycling and reducing water use.
- SWN has a unique, first in our industry commitment to Fresh Water Neutral operations, a goal we have achieved every year since 2016.



Fresh Water Remediation Projects

- SWN undertakes conservation projects in our operational areas to provide freshwater benefits that match or exceed our operational freshwater usage.
- West Virginia
 - ERP Martinka Acid Mine Drainage Remediation (AMD)
 - Muddy Creek AMD
 - West Fork River Dam Removal
- Pennsylvania
 - Fall Brook AMD
 - Taylor Run Dam Removal
 - White Ash AMD
- Arkansas
 - Ed Gordon WMA Wetlands Remediation
 - Archey Creek-Two Forks Restoration
 - Upper Little Red River Reforestation
- Louisiana (upcoming 2023/2024)
 - Ducks Unlimited Crevasse Wetland Remediation





Fresh Water Remediation Projects

SWN Southwestern Energy*

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major conservation projects completed since 2014 in Arkansas, Colorado, Pennsylvania and West Virginia (includes one project completed in 2022)

1.3B

gallons of beneficial fresh water from our active conservation projects in 2021

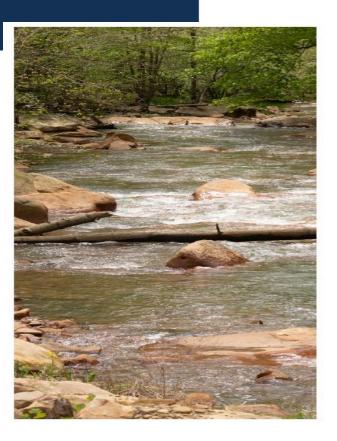
15.7B

gallons of beneficial fresh water from our conservation projects since launching the Fresh Water Neutral program

Continued Investment In Our Communities In 2022, in cooperation with the West Virginia DEP, SWN will invest to refurbish an abandoned mining water treatment facility to benefit residents along the Tygart Valley River

Positively Impacting Our Communities

- Restoration of natural habitats
- Reviving community parks
- Return of commerce
- Enhancement of communities



SWN Water Management Best Practices



- Best Practices
 - Optimize water needs through forecasting
 - Limit fresh water "capture" in water storage impoundments, etc.
 - Baseline water quality testing of water sources within 2,500 to 3,000 feet of drilling locations
 - Monitoring each phase of drilling, completion, and production, and verifying mechanical integrity of steel casings
 - Optimize fresh and reuse water in pipelines to minimize truck traffic and associated emissions
 - Produced water recycling
 - Water sharing among upstream operators

Average Water Demand Per Well in 2021 by Barrel (bbl)

Appalachia = 579,783 (bbl)



Haynesville = 547,316 (bbl)43



Water Recycling



- We recycle produced water back into our operations as much as feasible, which reduces our need for fresh water
- We have increased produced water recycling rates across our Appalachia operations through infrastructure investments
 - Permanent infrastructure
 - Pipelines to convey both reuse water and fresh water to storage systems
 - Storage systems strategically located in the operating area, including tank farms and impoundments
- Use of pipelines reduces truck traffic
 - Removed 1.7+ million trucks since 2015 in Appalachia

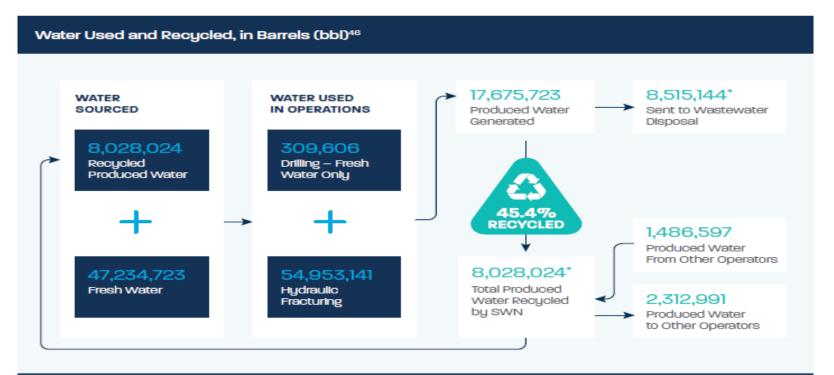


- Haynesville
 - Water primarily hauled off pad by trucks at this point in time
 - Minimal reuse in 2022
 - Currently completing one pad with incorporation of reuse water
 - Using storage location off pad
 - Using above ground temporary waterline to transfer reuse water to pad for use

Water Transfer and Sharing



- When not able to reuse our produced water within our operations, we work to safely share it with others in our industry
 - 2021 water sharing
 - 2.3 million barrels of SWN produced water used by other operators in Appalachia
 - 1.5 million barrels of produced water from other operators in Appalachia was used in SWN operations
- Haynesville
 - Currently no ability to share water with other operators



Produced Water Recycling

- Appalachia Forecasted 2022 Fresh Water Use: approximately 40 MMbbl
 - Produced water reused to date: 50%
 - Water sharing to date
 - 1.9 million barrels of SWN produced water to other operators
 - 1.25 million barrels of produced water from other operators used in SWN operations
- Haynesville Forecasted 2022 Fresh Water Use: approximately 51 MMbbl
 - Produced water reused to date: <1%



6 fresh water carried by pipelines companywide in 2021

98.3%

of fresh water carried by pipelines in Appalachia division in 2021

1.7M+ truckloads averted off the roads

since 2015, due to use of water pipelines in Appalachia

Questions?



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