

Good morning, and thank you for the opportunity to be here today



I am WK, the Senior Vice President of Policy at AXPC, the American Exploration Production Council.

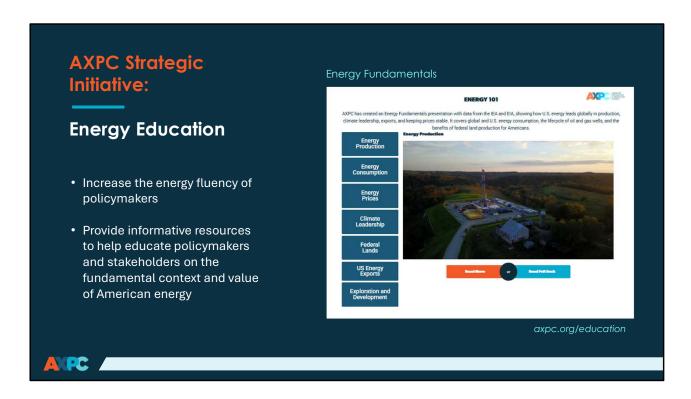
AXPC is a national trade association representing about 30 of the leading independent oil and natural gas exploration and production companies in the US across every U.S. basin

At AXPC we focus on educating and collaborating with policymakers to support federal policies that enable the safe, responsible development of American energy resources



As many of you know, independents produce the majority of US oil and natural gas in this country, especially onshore.

Our thirty-ish members alone represent just under half of onshore production, so a pretty big piece of the pie – in terms the upstream operators who are powering strategic energy security and driving U.S. energy leadership globally.



I am here today to talk to you our Energy Education initiative for policy outreach and engagement.

As many of you know, energy policy is both complicated and constantly evolving.

In Washington, that complexity is magnified—not only because the issues are technical and interconnected, but also because the people working on them change so quickly.

Congressional offices and agencies see staff come and go every year, and with election, each transition, that institutional knowledge walks out the door.

We often find ourselves having to re-start the conversation from square one

Fielding the same fundamental questions—about where our energy comes from, how it's used, and what are the tradeoffs created by different policy choices.

Critical baselines and context needed for understanding and evaluating sound energy policies.

That reality is what led to this initiative and the creation of our **Energy Fundamentals** materials.

These slide decks aren't meant to advocate for a particular policy—they're fact-based, visual resources designed to give policymakers a clearer understanding of energy in context, especially US oil and natural gas...

Our goal was simple:

- First, to **make the complicated accessible**—so that whether someone is brand new to energy policy or experienced, the tools are relevant, easy to understand, and readily available
- And second to offer a tool you can use. These slide decks are meant to be shared, reused, and built upon
 - ~ 60 diff slides visually illustrating fundamental data and analysis
 - Sited and sourced from independent publicly available resources
 - Updated annually

At the end of the day, our value in producing these materials is to make sure conversations with policymakers begin from a solid foundation of facts cand energy in context.

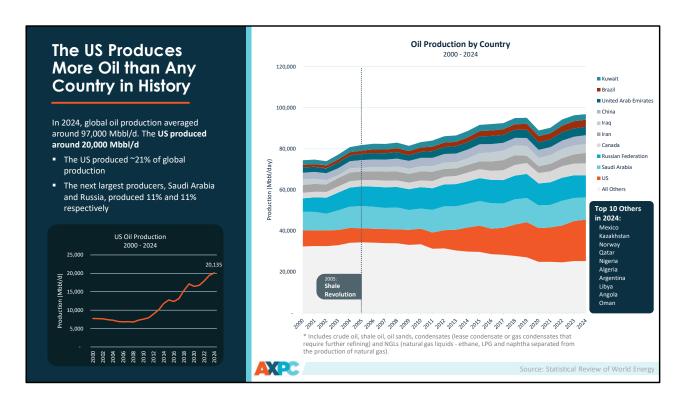
We've had a very positive response from policy makers in DC on this effort, not only as we've been incorporating these resources in our efforts representing upstream independents, ...but policymakers themselves and their staff are able to use them for their briefings, outreach and stakeholder engagement efforts.



I am going to run through a subset of the latest update for 2025. As well as touch some additional resources that we've built on in response to the feedback we've received from folks on the need for additional fundamentals.

My goal is to make you aware of these resources available to you. Happy to try and answer questions ...and always interested in feedback

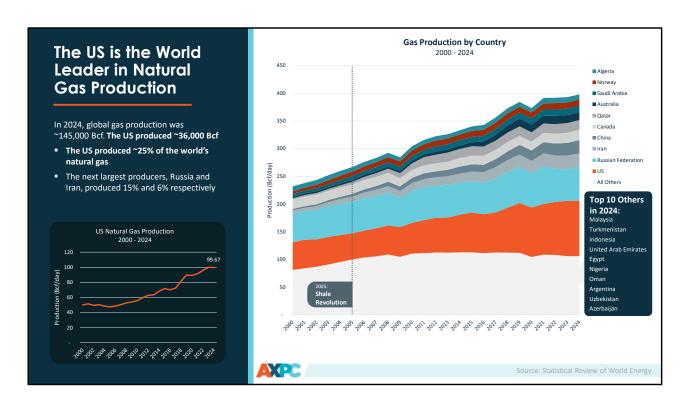
First up...looking at production



The U.S. produces more oil than any country in history.

In 2024, U.S. production was about 20 million barrels per day — 21% of global supply.

That is almost equivalent to the next two largest producing countries, Saudi Arabia and Russia combined.



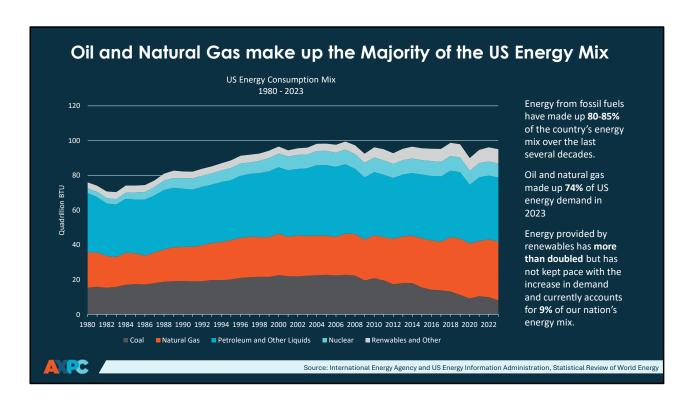
The U.S. is the world leader in natural gas production.

We produce about 25% of global gas supply — more than Russia and Iran combined.

The US is really energy dominant in terms of oil and natural gas

And this leadership supports both domestic reliability but has been key strategic advantage for the US, for global stability and energy security.

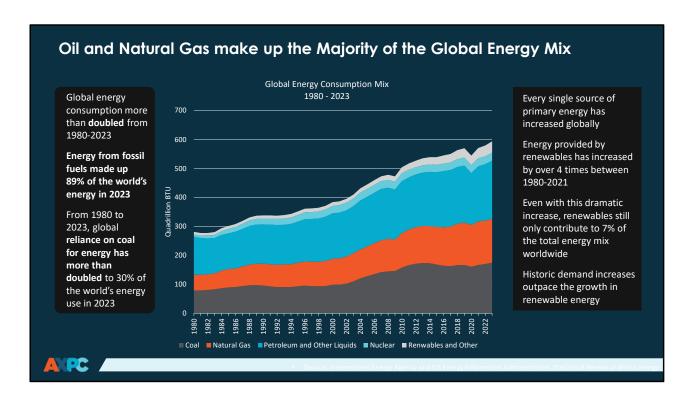




Oil and natural gas remain the backbone of the U.S. energy system.

Despite growth in renewables, oil and gas use still makes up the majority of U.S. consumption today.

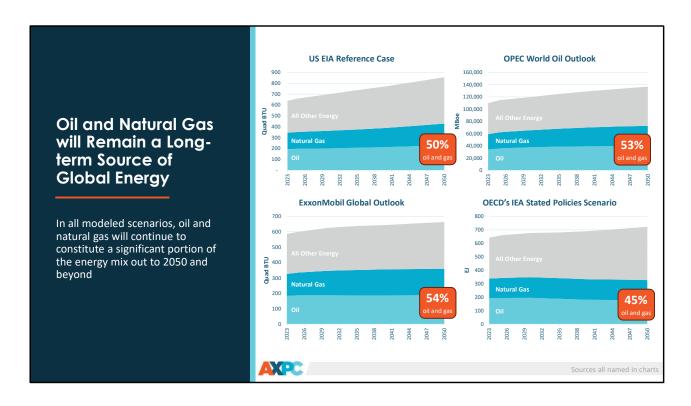
For decades, fossil fuels have made up 80%+ of US energy consumption, and these days oil and natural gas comprise about 74% of use energy demand.



Globally, oil and natural gas remain the dominant sources of energy.

Even with rapid growth in alternatives, O and NG continues to power most of the world.

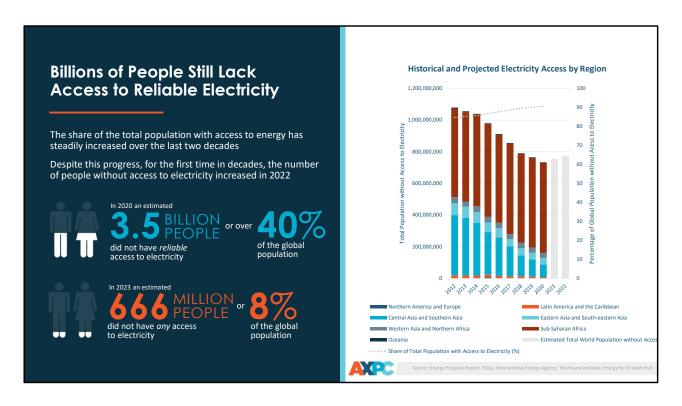
Historic demand increases that we are seeing are really outpacing event the dramatic growth in alternatives



In every modeled scenario, oil and natural gas remain part of the energy mix through 2050 and beyond.

This underscores the importance of responsible production and innovation to continue increasing our efficiency and reducing the impact of operations on the landscape.

It also underscores the importance of oil and natural gas at the table, because that demand will be around a long time....and many estimate likely to increase

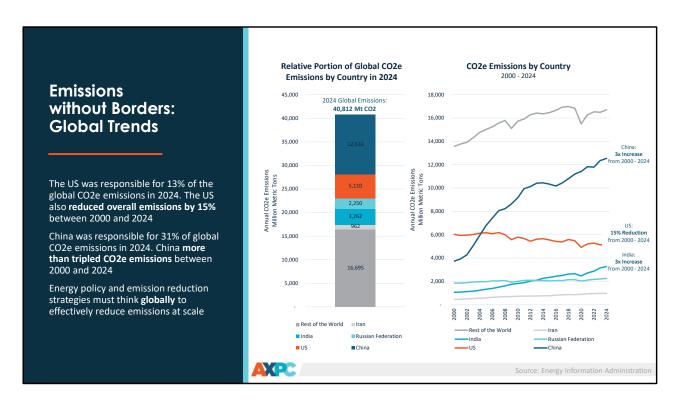


The reason for this is that billions of people still lack access to reliable electricity....40% of the global population. And over 600 million have no access to energy.

Energy poverty is a global challenge the world cannot ignore, its actually considered THE key indicator for evaluating quality of life in different countries ...and why it is has been one of the UN's Sustainable Development Goals to achieve universal energy access by 2030.

Which is why developing countries around the world will continue to chase affordable, available energy for their people, even despite climate concerns in some cases.



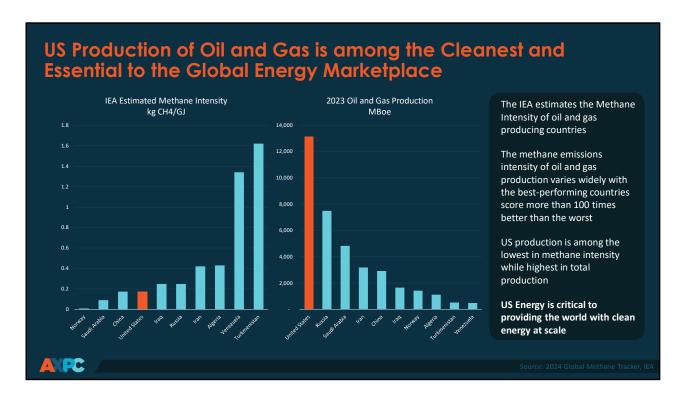


The U.S. has demonstrated real climate leadership, reducing overall emissions by 15% since 2000 even as production has increased.

The U.S. now produces oil and natural gas with some of the lowest emissions intensity in the world.

By contrast, China has more than tripled its emissions over the same period and now accounts for nearly one-third of global CO_2 .

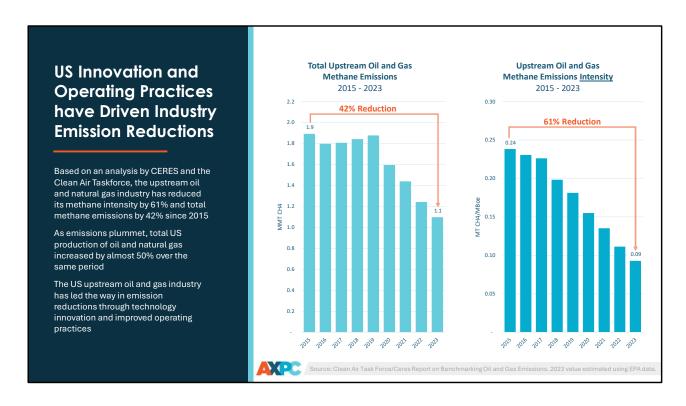
Work is not done, but U.S. progress shows that innovation and responsible production can and have been delivering both energy and emissions reductions



As global demand continues, U.S. production provides not only energy security but also a lower-emissions alternative compared to many other producing nations.

Here looking specifically at methane intensity, IEA analysis shows US production has one of the lowest methane intensity while having the highest total production in the world....

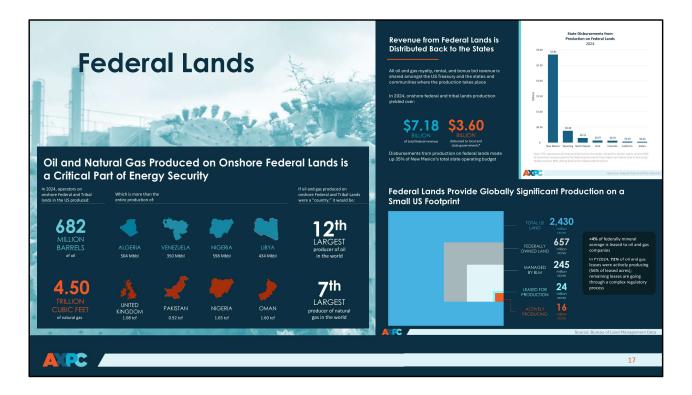
At scale, U.S. oil and gas production is among the cleanest in the world, reflecting strong environmental standards and operational practices.



This progress is the result of innovation, technology deployment, and industry-led best practices — US producers are really global leaders in developing and deploying methane detection technologies and mitigation

U.S. producers have driven down methane intensity by 61% and total methane emissions by 42% since 2015.

At the same time, production of oil and natural gas grew by nearly 50%, showing that growth and emissions reduction can go hand in hand.



Other sections in our Energy 101 materials look at federal lands

Data shows how Federal lands remain a vital part of U.S. and global production.

If the federal onshore program was a country....it would be the 12th largest oil producer in the world and the 7th largest natural gas producer.

And this is from less than 4% of the federal mineral subsurface being leased

And as of FY2024, 72% of those lease are actively producing, or just over half the mineral acreage. The majority of the remaining leases are still in the primary term moving towards first production.

And all of the leases contribute significant revenues to the federal treasury and to states and local communities.

Ensuring timely, responsible permitting federal minerals is still key to meeting energy needs, meeting economic needs, and maintaining strong environmental standards.



Some of our materials go through some of the basics of exploration and development

Who regulates oil and gas, what activities are regulated, of course looking at things like hydraulic fracturing and how combined with horizontal drilling it has helped to dramatically reduce surface impacts of development

Comparing total land footprint of natural gas to other forms of energy production...NG produces more energy per square meter than any other, except nuclear.

....there is really a lot more data and materials like this in the energy fundamental materials.

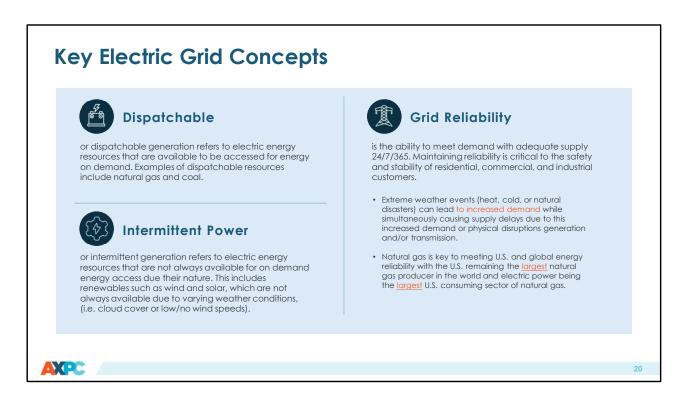


But success leads to more work....

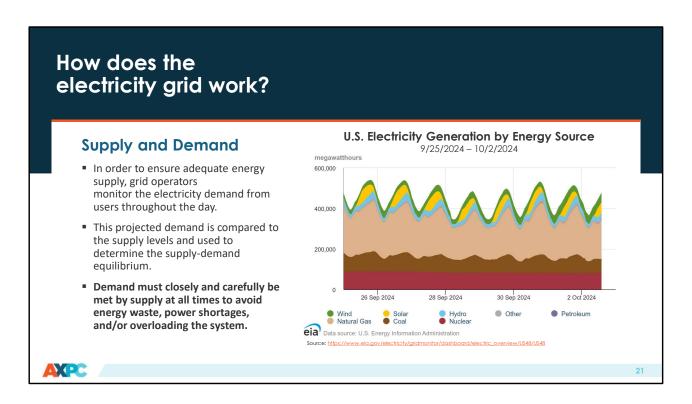
After a couple iterations of the initial energy 101 materials.....and with the rapidly growing interest in grid reliability especially with the explosive growth of Al....

We started to get asked a lot of questions on natural gas and the grid. An area where a lot of folks are really trying to get their arms around the basics.

So we created an additional set of materials



Looking at key concepts to know when looking at grid reliability....like dispatchable power versus intermittent power

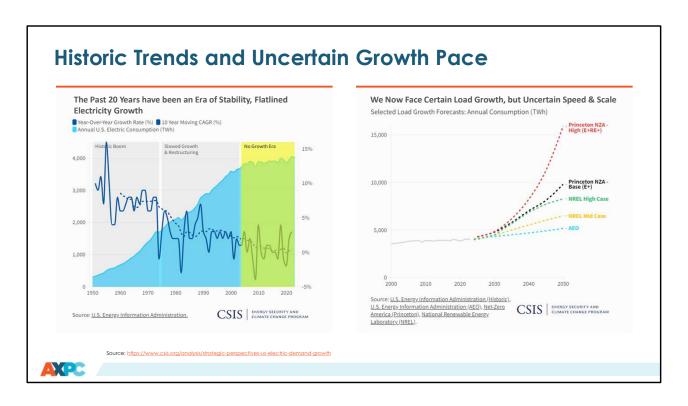


And how the grid actually works.

Grid operators constantly balance supply and demand which fluxuates continually throughout the day

If supply falls short, we face shortages and blackouts; if supply overshoots, we risk waste and instability.

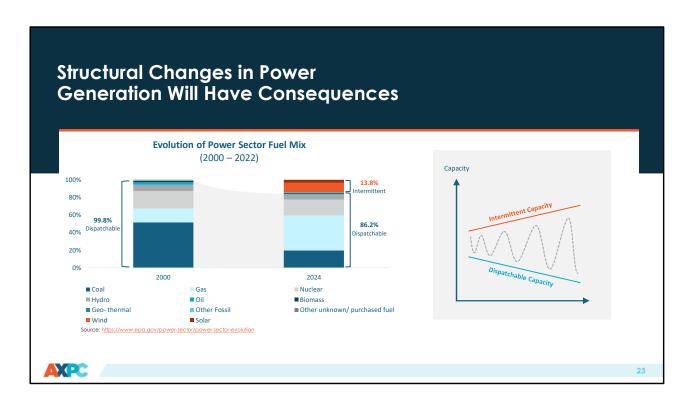
Maintaining that balance every second of every day is the central challenge of grid management.



Electricity demand is growing at a pace not seen in decades.

AI, data centers, electrification, and industrial growth are all pushing power demand higher.

It is clear, we must plan ahead to meet this surge.

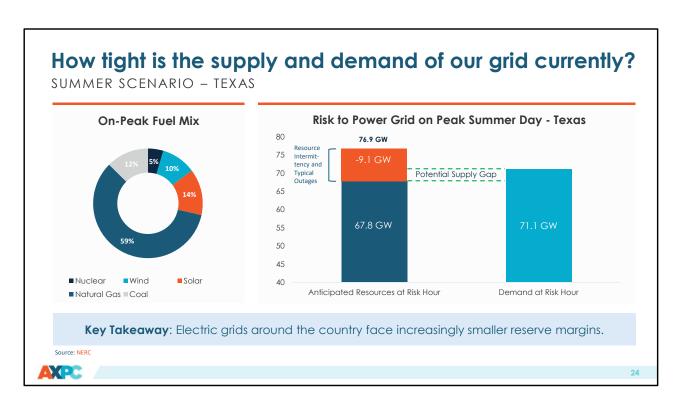


The U.S. electric power sector has changed significantly over the past several decades

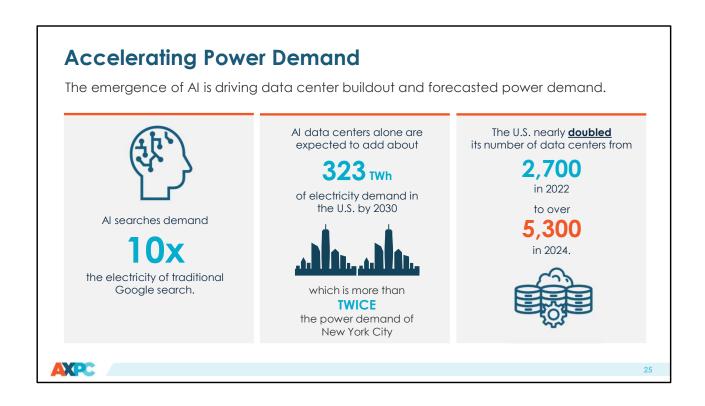
Rapid electrification is driving up demand, while some dispatchable resources are retiring.

Electricity generation technologies are changing as older generation sources retire and new sources, including gas, wind, solar, and battery storage, come online.

This creates reliability risks that must be addressed.



We have some case scenario type slides that illustrate how Our grid is tighter than ever, with less margin for error.

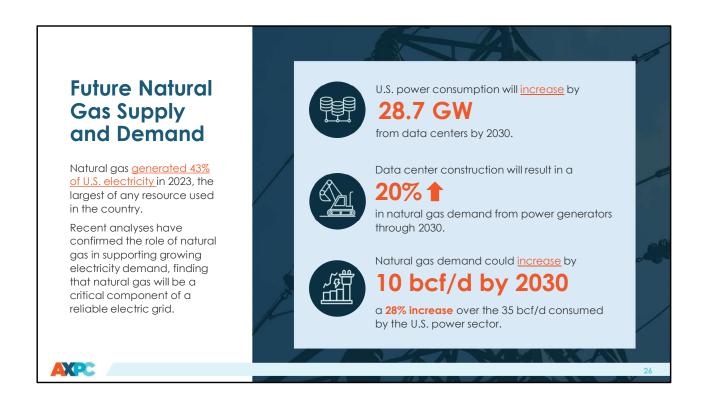


Al of course is expected to exponentially add pressure

Al data centers alone are expected to add 323 TWh of electricity demand in the U.S. by 2030 — more than twice the power demand of New York City.

The U.S. nearly doubled its number of data centers in just two years, from 2,700 in 2022 to over 5,300 in 2024.

This rapid growth underscores the unprecedented strain new technologies will place on the grid.



Analyses confirm natural gas will remain **critical to meeting rising power demand**.

Natural gas provided 43% of U.S. electricity in 2023, more than any other source.

Natural gas offers **dispatchable**, **reliable power** to balance intermittent renewables. Ensuring stable gas supply is essential for both reliability and affordability as demand accelerates.

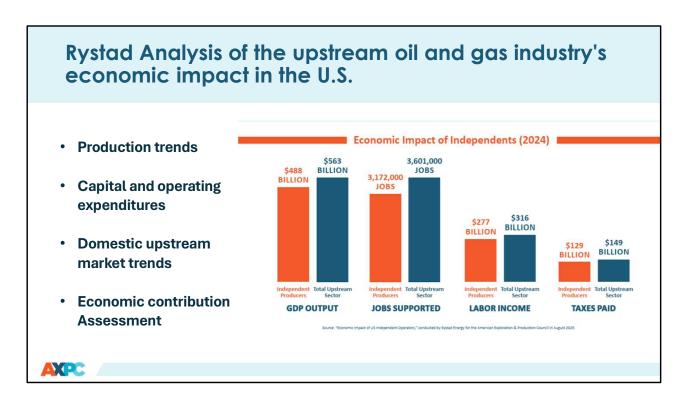


AXPC commissioned this report to provide a deeper, more comprehensive analysis of the upstream oil and gas industry's economic impact in the U.S., with a specific focus on distinguishing the contributions of independent producers. This level of detail offers a clearer understanding of the industry's role in driving production and economic growth, jobs, and revenues.

Rystad's analysis quantifies the **upstream oil and gas industry's economic impact** in the U.S.

Findings highlight the sector's role in supporting jobs, state revenues, and overall GDP growth.

Demonstrates that beyond energy supply, upstream production is a **driver of economic stability and prosperity** nationwide.



The study looks at.....



State-by-state data illustrates the local impact of oil and gas production.

Highlights include employment, tax revenues, royalty contributions, and economic multipliers.

Underscores how individual states benefit directly from a strong and responsible energy sector.



These Energy Fundamentals materials are designed to be practical — something you can use directly in your own outreach, whether that's briefing a colleague, engaging with community stakeholders, or preparing for a policy discussion.

They give you a consistent, fact-based foundation to frame energy issues, so conversations begin from shared understanding rather than misconceptions.

As energy demand grows and policy debates evolve, having accessible, accurate resources will be critical at both the state and federal levels.

Our goal is simple: to make sure you have the tools you need to communicate clearly about the role of U.S. oil and natural gas in reliability, affordability, emissions progress, and economic strength.