

ENERGY REALITIES

Solving for climate change & human development starts with a clear understanding of the facts

NATURAL GAS & PETROLEUM (HYDROCARBONS): A CRITICAL ENERGY SOURCE FOR A STEADY ENERGY TRANSITION

Today, the world still relies on traditional fuels for most of its energy and material needs. Future energy demand will continue to be met in part by a growing proportion of renewable energy sources. **This energy transition, like energy transitions in the past, will take considerable time.** Past transitions have occurred **not by eliminating existing sources of energy, but by adding new energy sources to meet growing demand.**



And, not or.

HYDROCARBONS ARE NEEDED FOR A LOW CARBON FUTURE

Dependability of our energy supply will be **crucial** as the electrification of energy demand increases.

- The **intermittency of solar and wind generation** cannot reliably match power demand.
- Natural gas **complements the rollout of renewables** through affordable and reliable grid balancing, but **infrastructure upgrades and regulatory support will be needed** to allow gas operators to meet demand.

The road to a low carbon future involves a balance of decarbonization, affordability and reliability.



SUPPORTIVE PUBLIC POLICIES & ADVANCEMENTS IN TECHNOLOGIES ARE NEEDED



It's not *just* about the energy source.

- Policy makers **need to provide supportive regulatory frameworks** to compensate for intermittency.
- **Updates to land access regulations:** Solar energy requires roughly 10 to 20 times more land than natural gas, and onshore wind up to 200 times more, to generate the same amount of electricity.
- Advancements in technologies like **carbon capture and storage and green hydrogen** are needed to make significant strides toward achieving climate goals.

With collaboration across the entire value chain,

natural gas is playing a key role in decarbonizing the U.S. power supply in the coming decades.



ENERGY IS

ESSENTIAL TO

HUMAN & ECONOMIC

DEVELOPMENT

Across the world, there are:

- **746 million** people without electricity
- **1 billion** people who are served by health-care facilities with unreliable electricity supply or with no electricity access at all
- **2.3 billion** people using firewood, dung and charcoal for cooking

Oil, natural gas and coal provide **80%** of American energy. The **affordability and accessibility of oil and natural gas** has infused hundreds of billions of dollars into new manufacturing, supporting the development of new jobs, infrastructure and economic opportunity in the U.S.



Cement Plastics Steel Fertilizer

These are all products produced using natural gas, or natural gas and crude oil, as feedstocks and have no suitable alternatives.

All forms of energy will continue to play a critical role in advancing global climate objectives, while also providing billions of people with access to affordable energy. This is a complex problem that cannot be solved with the flip of a switch, and hydrocarbons will remain **critical for decades to come**.

Looking for more facts and the sources for the information in this brochure? Scan the QR code below.



Kinder Morgan is actively evaluating opportunities to participate in the energy transition within its traditional businesses. Beyond our base business, our Energy Transition Ventures group is designed to identify and pursue emerging lower carbon solutions.

Interested in how Kinder Morgan is participating in the energy transition? Scan the QR code below.

