



NAVIGATING TOWARDS A LOW CARBON FUTURE

**MID-CONTINENT LDC FORUM
SEPTEMBER 14, 2021**





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President and CEO – DT Midstream

Agenda

- Lowering our carbon footprint – Where are we today?
- Future state pathways
- DT Midstream decarbonization initiatives

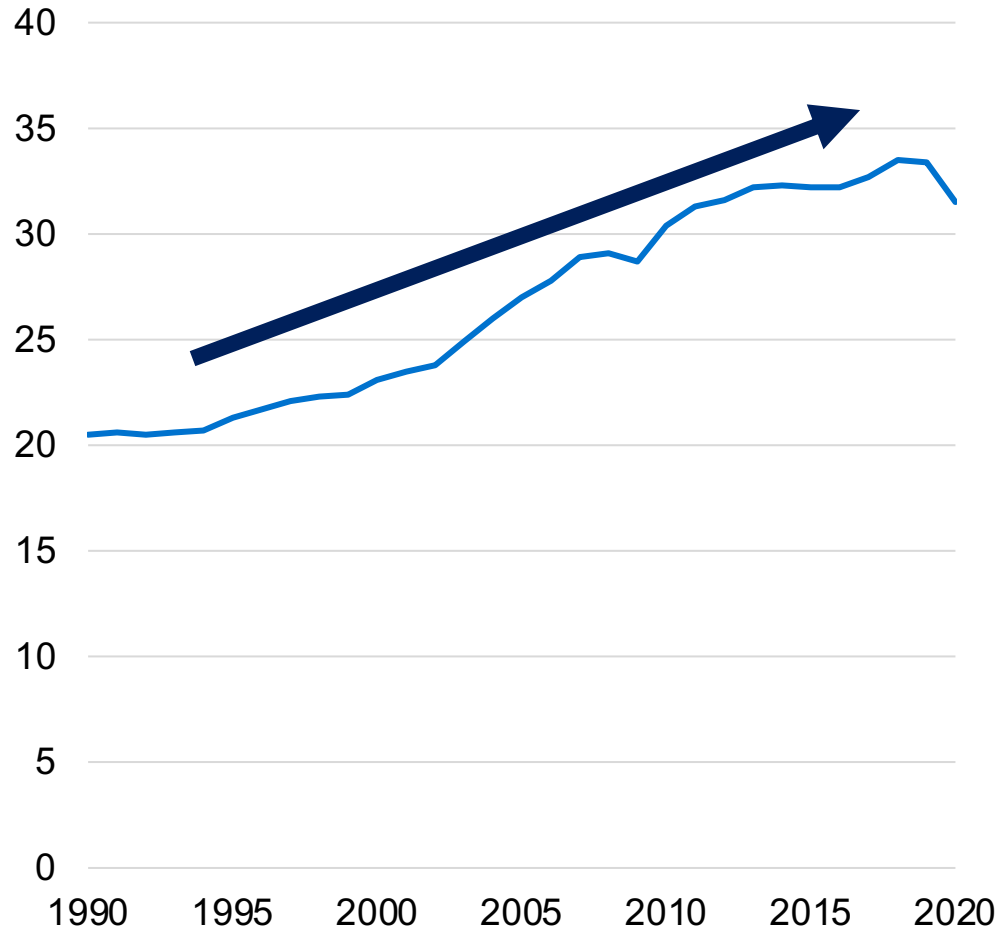


Lowering our carbon footprint – Where are we today?

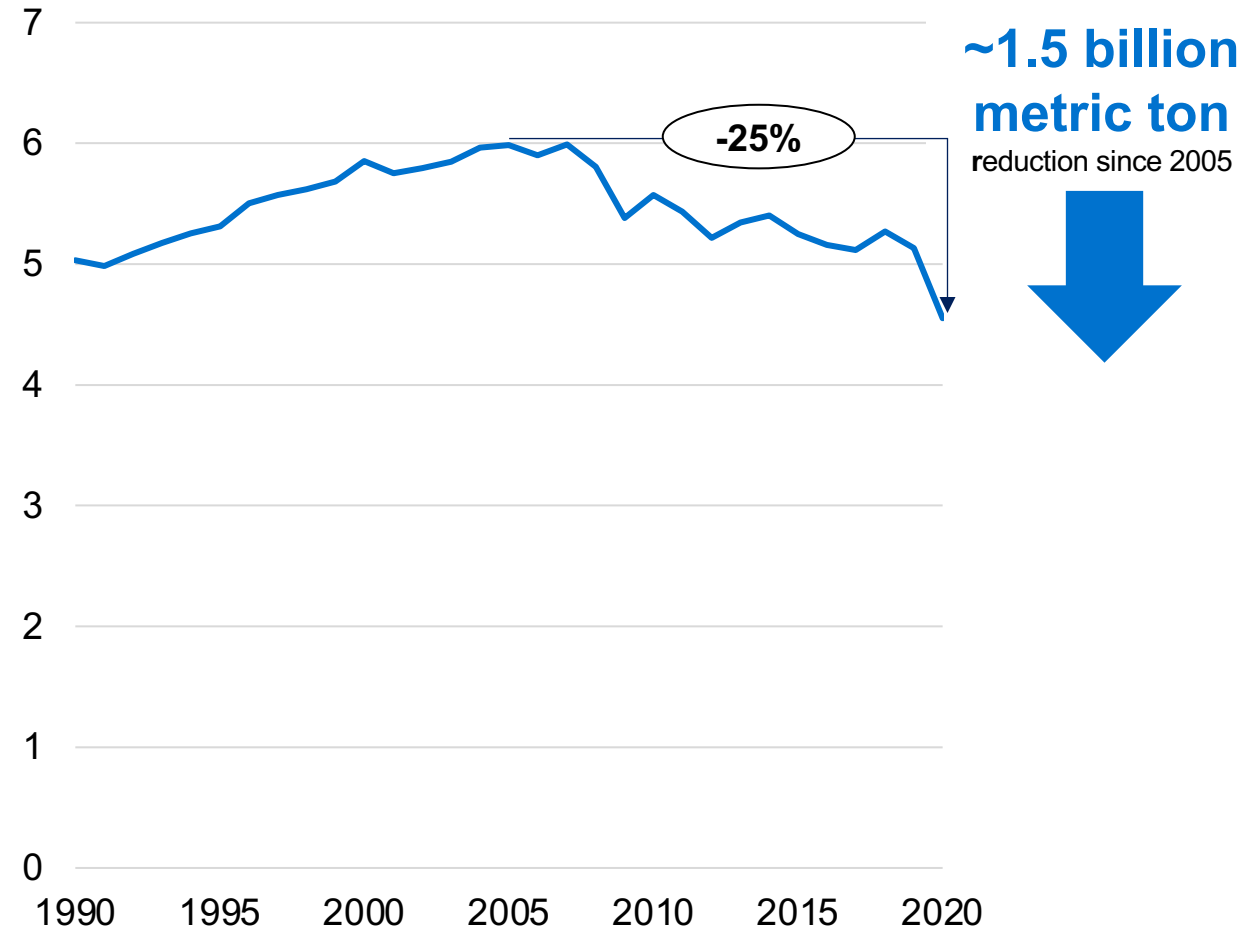


As global CO₂ emissions have trended higher, the United States has made significant progress in reducing its CO₂ emissions

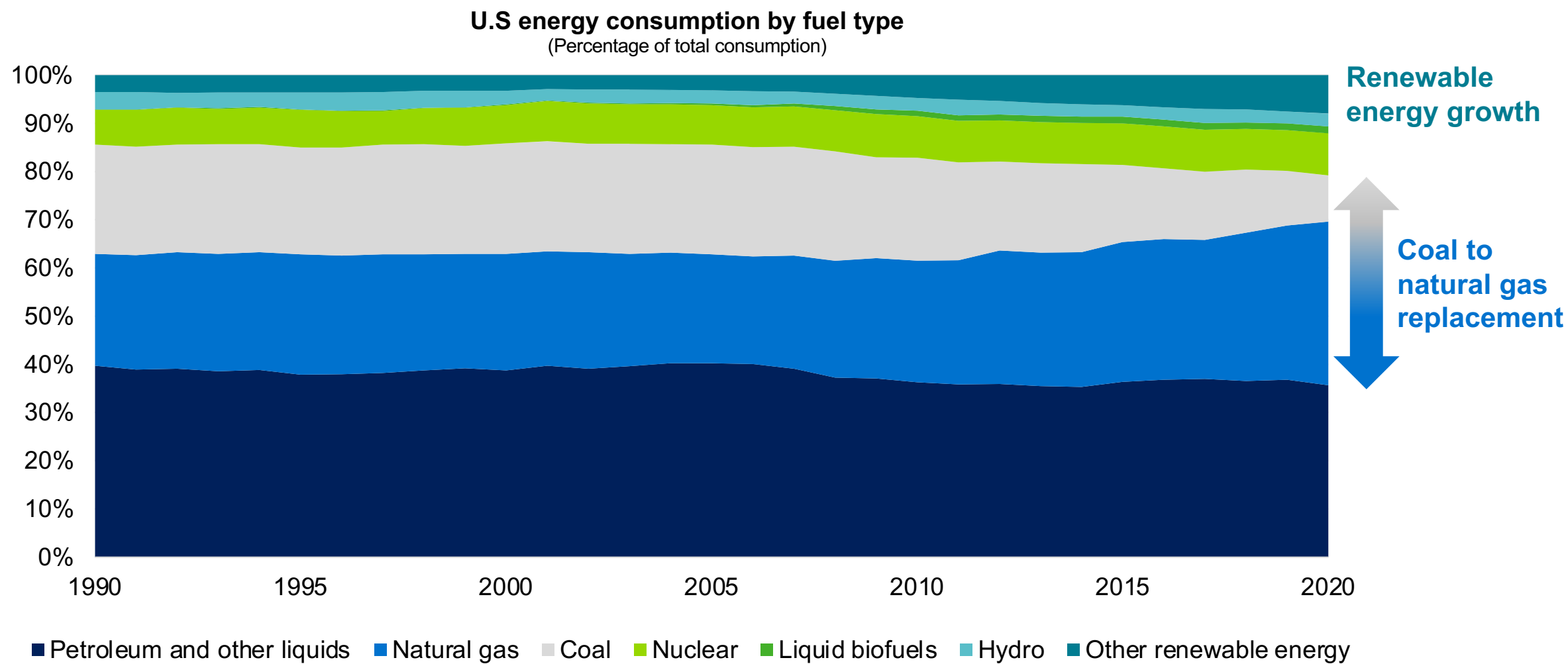
Global energy-related carbon dioxide emissions
(Gt CO₂)



U.S. energy-related carbon dioxide emissions
(billion metric tons)

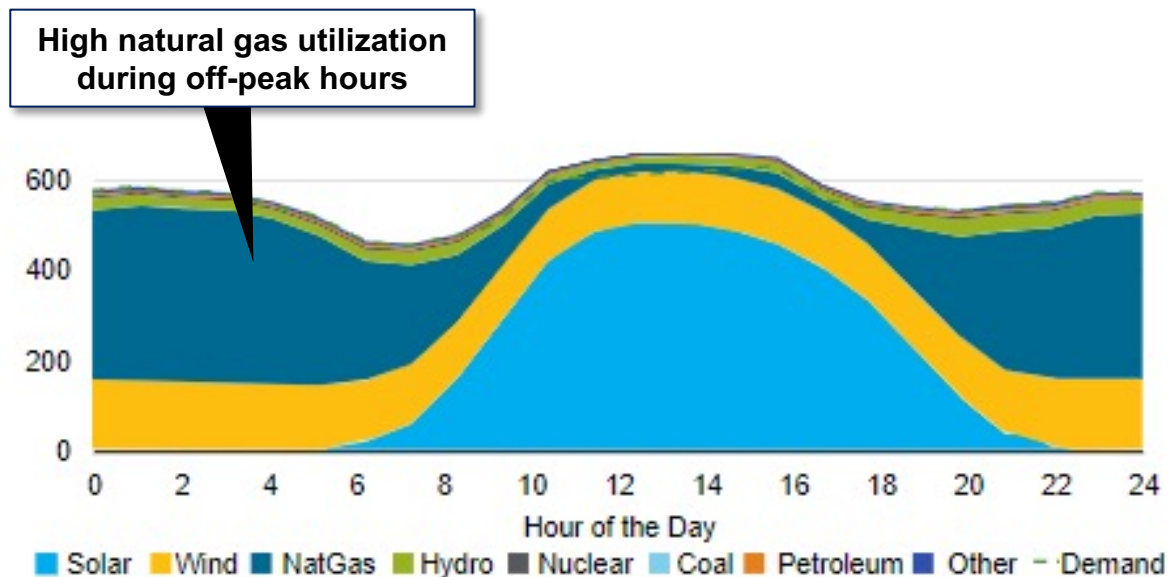


Natural gas has enabled significant carbon reductions, replacing coal and oil as a cheaper and cleaner alternative fuel while supporting intermittent renewables growth

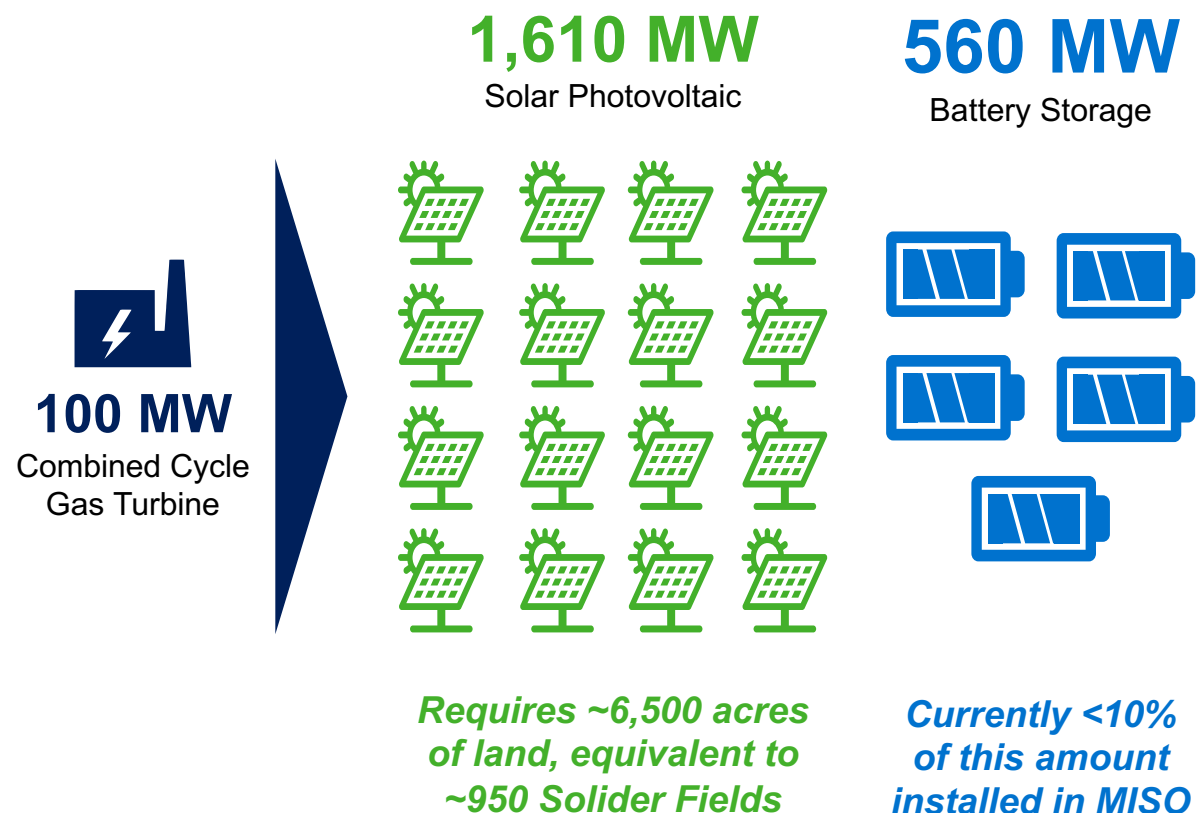


Natural gas enables intermittent renewables and efficiently provides grid reliability when non-dispatchable resources are not available

Illustrative hourly power generation by fuel type (Gwh)



Solar and battery capacity to displace CCGT (70% capacity factor) in MISO

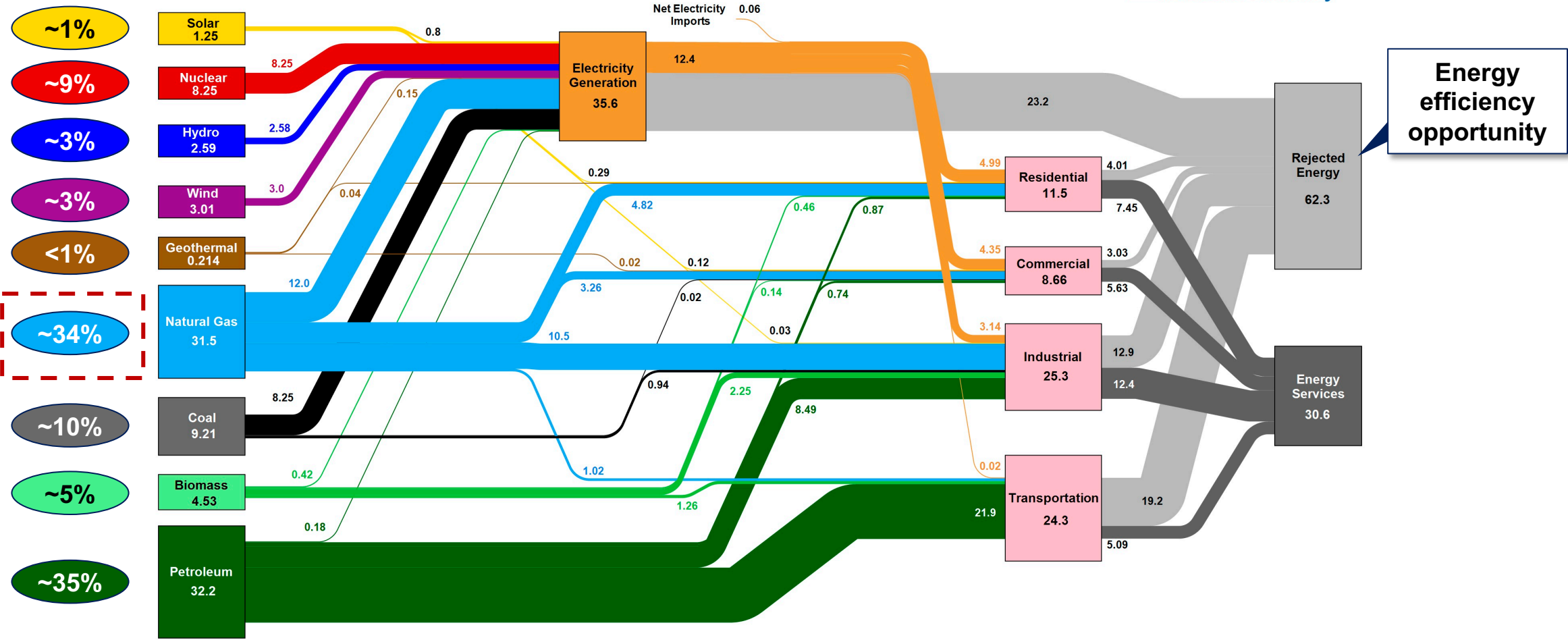


Natural gas infrastructure is fundamental to our economy

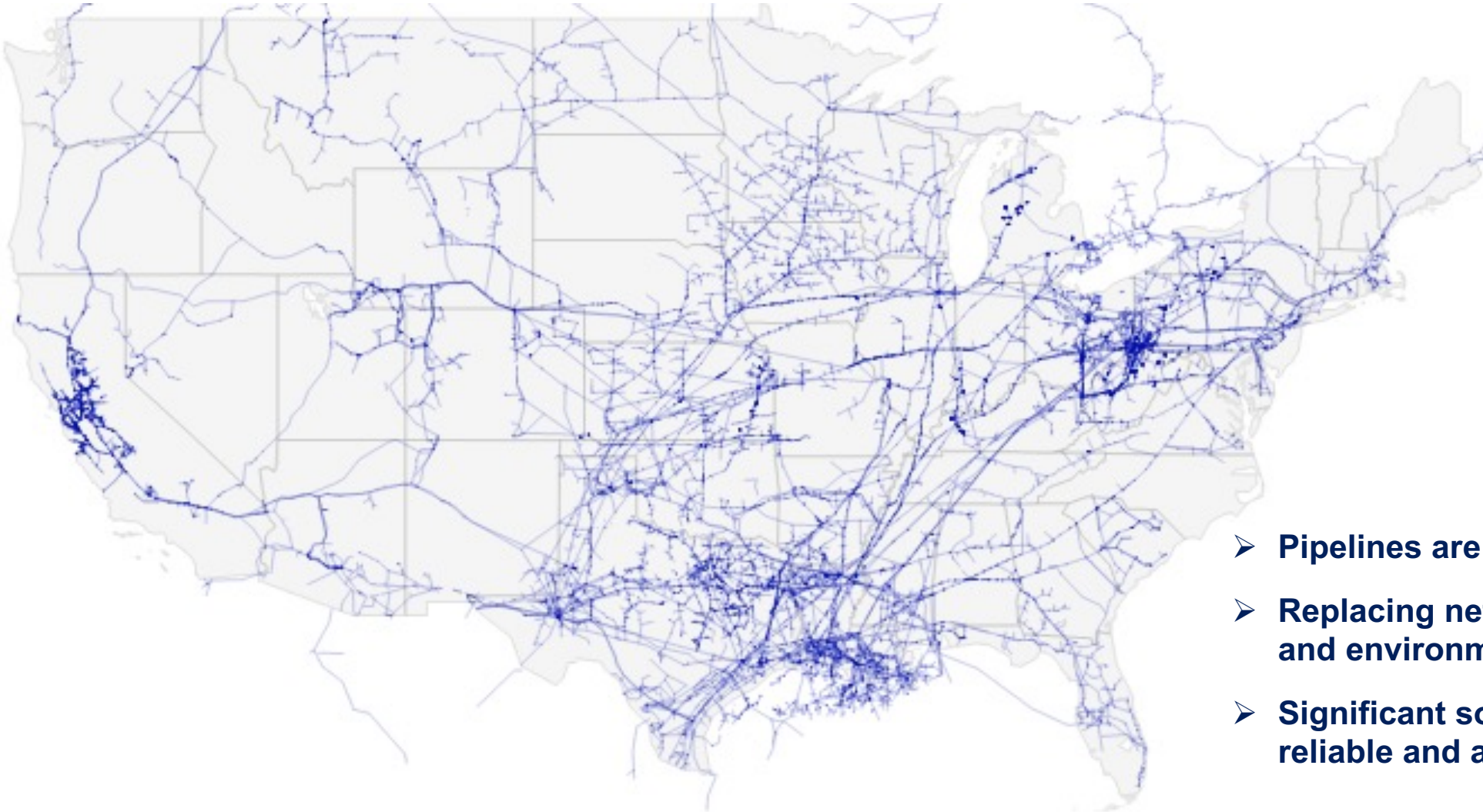
Share of 2020 energy consumption

Estimated U.S. Energy Consumption in 2020: 92.9 Quads

Lawrence Livermore National Laboratory



Pipeline and storage infrastructure is critical to reliably and cost effectively serve U.S energy demand



Pipeline infrastructure delivers ~1/3 of U.S. energy every day

- Pipelines are a strategic energy asset
- Replacing network is cost prohibitive and environmentally disruptive
- Significant social implications enables reliable and affordable energy



Future state pathways











INGAA's climate commitment is a comprehensive vision for a cleaner energy future

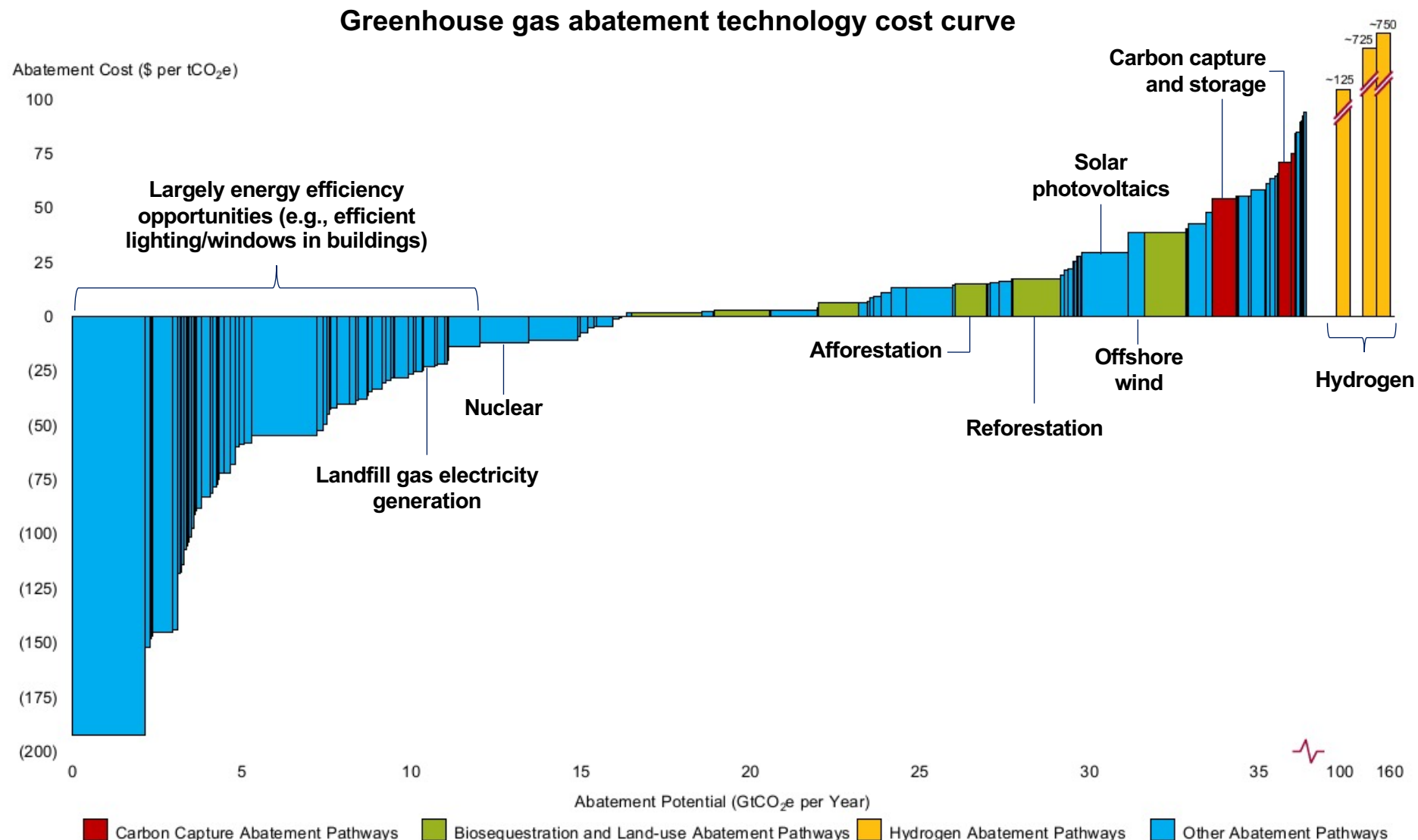
2021 climate commitment¹

- 1 Reducing individual member emissions
- 2 Working as an industry to net zero by 2050
- 3 Transparent data collection and reporting
- 4 Reducing carbon intensity and investing in new technology (e.g., CCS, RNG, other low carbon fuels)
- 5 Collaborating with customers, governments, and other stakeholders across the natural gas value chain
- 6 Responsible environmental stewardship in our communities

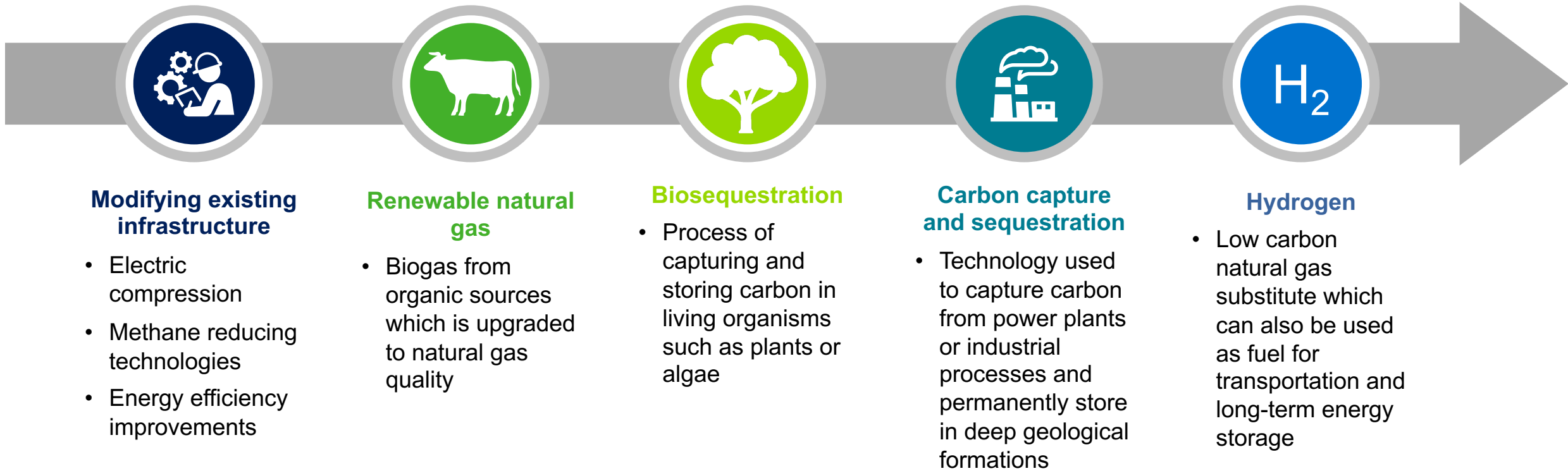
INGAA's guiding principles to shape constructive energy policy

-  **Safely, reliable and affordable**
-  **Equitable, efficient, effective and flexible**
-  **Engages and supports disadvantaged communities**
-  **New energy investments are prudently deployed**
-  **Natural gas enables intermittent renewable generation**
-  **LNG exports help to decarbonize global emissions**
-  **Supports modernization of natural gas infrastructure**
-  **Preserves customer choice of energy use**

Pathways for carbon reduction have a wide range of costs and technologies are evolving quickly



There are various opportunities to decarbonize pipeline and storage infrastructure



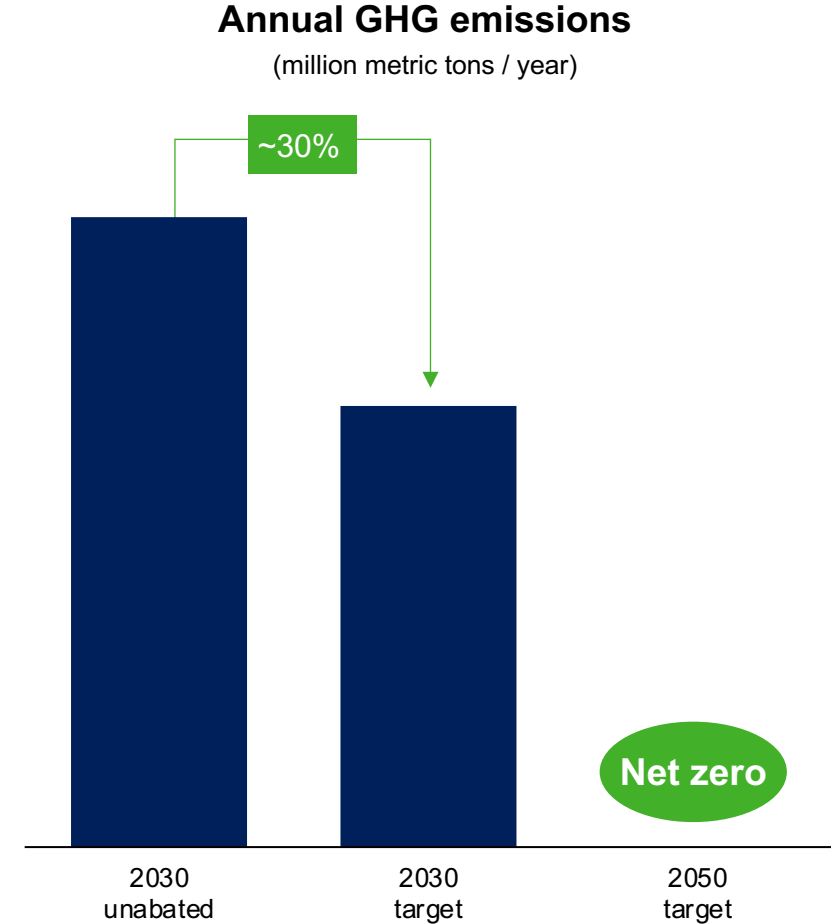


DT Midstream decarbonization initiatives



DT Midstream is committed to its net zero by 2050 target

- Among first in sector to implement a net zero by 2050 target
- Net zero plan expects to use a combination of existing market-ready solutions along with future technologies under development
- Commitment to sustainable operations



Taking action today to reduce infrastructure emissions



Currently executing

- Carbon capture and sequestration
- Electric compression
- Renewable natural gas connections



Opportunities being evaluated

- Methane reducing technologies (e.g., vent control devices, electrical glycol pumps, instrument air system)
- Biosequestration offsets
- Hydrogen



Haynesville system expansion offers first of its kind “Wellhead to Water” carbon neutral service

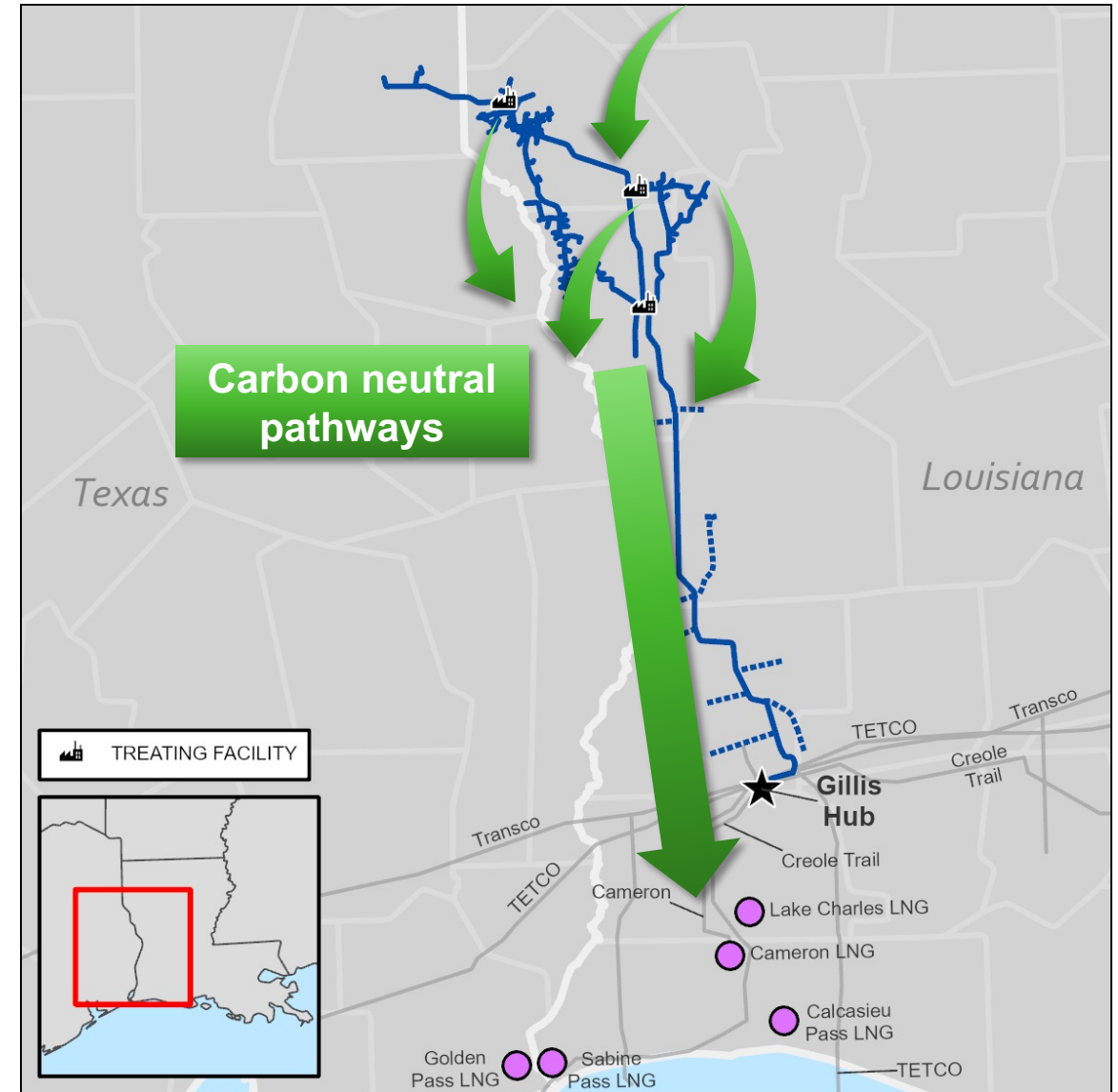
Project will provide carbon neutral pathway for Haynesville supply to reach growing LNG markets

- Delivers up to 2.0 Bcf/d to the Gillis Hub, directly serving LNG export terminals and domestic demand

“Wellhead to Water” carbon neutral services enabled by:

- Electric compression supplied by renewable generation
- Facilities paired with carbon capture and sequestration
- Carbon offsets for any residual emissions

Supports international market desire for low carbon LNG exports



Pipeline and storage infrastructure is a durable strategic energy asset for North America



**Critical
infrastructure that
delivers ~1/3 of U.S.
energy supplies
every day**



**Superior balancing
capabilities
enabling
intermittent
renewables**



**Highly effective
infrastructure that
delivers energy
safely**



**Affordable fuel that
allows more low
carbon energy into
the system**

Natural gas is a foundational fuel for decades to come