

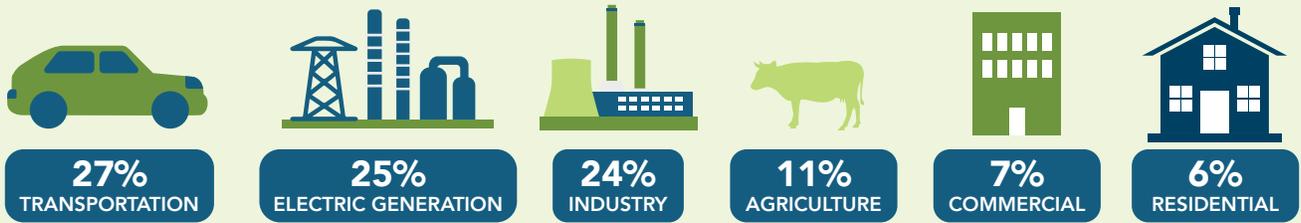
REDUCING CARBON EMISSIONS WITH NATURAL GAS

The natural gas industry is committed to reducing carbon emissions. By leveraging carbon offsets, Renewable Natural Gas (RNG) certificates, carbon capture and sequestration technologies, natural gas can help achieve our low carbon energy goals affordably while maintaining reliability.



WHERE DOES CARBON DIOXIDE ORIGINATE?¹

Carbon Dioxide (CO₂) and other greenhouse gas emissions are produced by a number of sources.



Total U.S. Greenhouse Gas Emissions by Economic Sector in 2020



WHAT ARE CARBON OFFSETS?²

Carbon offset projects are specific activities intended to reduce greenhouse gas emissions. Offsets work by eliminating emissions elsewhere to balance out carbon produced in another location.



HOW DO OFFSETS REDUCE CARBON EMISSIONS?

Carbon offsets are measured in metric tons of CO₂ or CO₂ equivalent and can be purchased to offset not just carbon but other common greenhouse gases. Offsets serve as credits that balance carbon-generating activities of residents and businesses from the three scopes of emissions recognized by the EPA.



WHAT ARE RNG CERTIFICATES?

An RNG certificate is an instrument that gives the holder ownership of the greenhouse gas emission reduction that was generated by the capture of biomethane that is processed into renewable natural gas. Also called buying "virtual RNG", purchasing an RNG certificate mitigates natural gas consumption with the goal of reaching zero Scope 1 emissions.³



ADVANCEMENTS IN CARBON CAPTURE AND SEQUESTRATION TECHNOLOGY

Carbon capture and sequestration refers to technologies that remove carbon from exhaust emissions and store it safely where it causes little to no environmental impact.

- Geologic Sequestration
- Biologic Sequestration
- Commercial Applications
- Flue Gas Conversion