



We are committed to reducing greenhouse gas (GHG) emissions by optimizing the efficiency of our operations, reducing venting and flaring of gas and eliminating equipment leaks.

We use a range of methods to minimize GHG emission leaks. We adhere to applicable design standards, follow recognized best engineering practices and use equipment specifically designed to perform in severe service conditions.

Our preventive maintenance programs help to minimize leaks and preemptively identify potential issues to facilitate proactive upkeep, repair and replacement.

Across our sites, **leak detection and inspections are an ongoing** and frequent part of Apache employees' activities. We strive to repair leaks at the time they are detected. If that is not possible, the leak is repaired when the required resources become available and safe operating conditions can be assured.

OLFACTORY, VISUAL AND AUDIO INSPECTION



LISTEN for auditory cues that equipment is not operating correctly and may be leaking

OBSERVE site conditions and note changes in equipment and the site that could be related to or result in leaking equipment

IDENTIFY abnormal odors, which could indicate the presence of leaking natural gas, some components of which have a strong odor

Field employees are trained to perform **olfactory, visual and audio inspections** for possible leaks. As a part of our leak detection and repair program, we use optical gas imaging (OGI) cameras to examine all newly constructed facilities before the facilities come online. We also use OGI cameras to assess equipment and to inspect wellheads, compressor stations and buried pipeline routes near residential communities and public facilities.

KEY DATA



9%

decrease in global GHG emissions intensity since 2015



41%

decrease in global methane emissions intensity since 2015



Charter member of the ONE Future Coalition. In 2018, ONE Future companies collectively surpassed the 1% goal seven years early, achieving a combined member leak/loss rate of

0.552%

across the entire value chain.

We are also working to decrease operational process-related GHG emissions by **optimizing the efficiency of our operations**. This includes conducting reduced-emission completions, a process that captures gas produced during well completions and workovers. We are also addressing GHG emissions by reducing venting and flaring, and powering our equipment with electricity, when practicable.

We set metrics and targets to assess and drive our performance. We adopted a **global methane emissions intensity target** to emit 0.37% or less of gross methane production by 2025, and in 2019 we achieved this target. Through our membership of the American Petroleum Institute's Environmental Partnership, we have made three commitments toward reducing our methane emissions:

- implementing a **leak detection program** at all relevant sites within the next five years;
- replacing highbled pneumatic controllers with **low- or zero-emitting devices** within the next five years; and
- implementing a **monitoring and emission reduction program** for liquids unloadings.

