



Carbon Offsets

Building a More Sustainable Future
Through the Lifecycle Management of
Refrigerant Gases



Our Story

With nearly 30 years experience in the supply and lifecycle management of refrigerants and associated products, A-Gas is the leading supplier to the heating, ventilation, refrigeration, air-conditioning, and fire protection industries worldwide.

A-Gas recognizes that climate change is a challenge for organizations across the globe. As we continue to grow and evolve worldwide, we are dedicated to our purpose of:

Protecting and enhancing the environment by reducing global warming gases and preventing their release into the atmosphere.

Our industry-leading, circular economy approach to the complete lifecycle management of refrigerants reduces the carbon footprint of the industries we serve.

Now through the generation of bespoke carbon offsets, A-Gas can help businesses worldwide reduce their carbon footprint.



What is a Carbon Offset?

A carbon offset is used by a company or individual, as part of a wider carbon reduction plan, to compensate for the carbon dioxide they emit into the atmosphere.

A carbon offset represents an emission reduction of one metric ton of CO₂ or an equivalent amount of other greenhouse gas. This offset can compensate for an equivalent emission made elsewhere as a result of industrial or human activity.



Why are Carbon Offsets Needed?

The central aim of the Paris Agreement (the United Nations Framework Convention on Climate Change) is to limit global warming below 2° C (ideally 1.5° C). To achieve this, the global community needs to reach 'net zero' emissions by no later than 2050.

For many years, our expert teams have generated carbon offsets utilized by companies regulated under the California Cap and Trade Programme. These offsets, commonly known as compliance offsets, are used exclusively within the California Cap and Trade Programme and are generated through the recovery and destruction of harmful Ozone Depleting Substances (ODS) in North America.

While you may be aware of carbon offsets derived from activities such as methane reduction or forestry, our focus, in addition to destruction of ODS, is on the development of voluntary offsets through recovery, reclamation and repurposing of HFC gases that are harmful if allowed to leak to the atmosphere. This recovery and reclamation also reduces the volume of virgin gases required in the wider supply chain.



Carbon Offset Generation

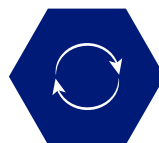
The carbon offsets generated by our recovery and reclamation activity relate only to the gas directly saved from the atmosphere. There are many other benefits which provide added value beyond carbon reduction:



Contributing to Environmental, Social and Governance performance by mitigating climate risk and improving sustainability in a global context.



Preventing the manufacture of the equivalent quantity of virgin gas, and the energy consumption associated with its production and logistics.



Creating local employment and contributing to the wider circular economy.

Offsets You Can Trust

Ensuring the carbon offsets you acquire are verified is key for any carbon reduction program.

To increase consumer confidence, Governments and Non-Government Organizations (NGOs) have developed and implemented rules, requirements, and strict methodological procedures to verify carbon emission reductions and, in turn, place a stamp of approval on the corresponding carbon offsets.

At A-Gas, we pride ourselves on ensuring that our carbon offsets are of the highest environmental integrity and quality, whilst being transparent in our activities.

All the carbon offsets available through A-Gas meet the necessary accredited third-party standards and rigorous methodology verification process requirements.

“ We pride ourselves on ensuring that our carbon offsets are of the highest environmental integrity and quality. ”



Offsets You Can Trust

Every carbon offset project is developed under a leading carbon offset registry which is governed by the registry's standard. This standard determines the quality that every project must meet for greenhouse gas emission reductions to become a tradeable environmental commodity.

The necessary rules and requirements are detailed in what is known as a "methodology". Methodologies are approved by a registry through public consultation and scientific peer review processes. Such methodologies provide the quantification framework for the creation of the carbon offsets that are then independently assessed by an accredited third-party verifier.

After the months it takes to verify a project, offsets are created under the name of the granting registry or agency. Think of it as a brand name, assuring the consumer that the homework has been done and the offset being purchased does what it says.



Offsets You Can Trust

Methodology development and project verification is carried out under one of the following internationally recognized standards:

- ✓ Verified Carbon Standard (VERRA)
- ✓ Climate Action Reserve
- ✓ American Carbon Registry (ACR)



Offsets You Can Trust

As an example, the ACR is one of the original voluntary greenhouse gas registries in the world and handles a variety of project types. The ACR has been approved by the California Cap-and-Trade program and the International Civil Aviation Organization (ICAO) in their goal of reducing the net emissions related to all global civil air travel. We are proud that voluntary credits generated by A-Gas have used the ACR Certified Reclaimed HFC Refrigerants methodology and are therefore eligible for ICAO and non-ICAO voluntary carbon market use.

A-Gas offsets are generated using strict quality processes. Our documentation includes everything related to the ownership of the gas from the original equipment, the date A-Gas took ownership of the material, the Environment Protection Agency (EPA) certified equipment used to recover the material, and the physical reclamation or destruction of the material.

This information is independently verified before our offsets are created, issued by a registry and then ready for purchase by an organization looking to reduce its carbon footprint.



UN Sustainable Development Goals

The UN Sustainable Development Goals (SDGs) are comprised of 17 goals and 169 targets. Signed by 193 countries, these goals and targets were adopted as part of the 2030 Agenda for Sustainable Development.

Our voluntary carbon projects are aligned with several SDGs, primarily number 13, Climate Action. A-Gas recognizes that greenhouse gases emitted by the industries we serve are crucial to this objective and we are committed to helping our customers worldwide in reducing their carbon footprint.

Through our recovery and reclamation activities, A-Gas directly prevents harmful emissions and reduces the need for virgin gas production.

Displacing the need for further virgin production, in turn, reduces emissions associated with new product manufacturing and trans-oceanic shipping. Considered collectively with the avoided emissions from capturing the original gas, reclaimed refrigerants positively impact other SDG goals, including:

