

Monitoring Report

VERSION 5.0

2023-07-01

INSTRUCTIONS ACR requires that a Monitoring Report be provided to the verification body at each project verification. To facilitate this requirement, use of this Monitoring Report template is required. Follow all instructions found within each section and provide all requested information. If a field is not applicable, respond with “N/A”. Sign and save this Monitoring Report as a PDF prior to uploading to the ACR Registry. This form must be completed and executed by a duly authorized representative of the Project Proponent or Project Developer Account Holder. Terminology as defined in the *ACR Standard* applies to this document.

SECTION I: REPORT COMPLETED BY

1	Name	Briana Reinke
2	Title	Environmental Projects Developer
3	Organization	A-Gas US, Inc.
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5	Email	Briana.Reinke@agas.com
6	Date form completed	12/21/2023

SECTION II: PROJECT INFORMATION

1	Project Title	A-Gas V14
2	ACR Project ID#	ACR905
3	ACR Account Holder	A-Gas US, Inc.
4	Project Proponent	A-Gas US, Inc.

5	Current Reporting Period (MM/DD/YYYY–MM/DD/YYYY)	01/06/ 2023 – 06/30/2023
6	Project Start Date (MM/DD/YYYY)	01/06/ 2023
7	Current Crediting Period (MM/DD/YYYY–MM/DD/YYYY)	01/06/2023 – 01/05/2038
8	ACR Standard version applied at validation	8.0
9	ACR-approved Methodology title and version currently applied	Certified Reclaimed HFC Refrigerants, Propellants, and Fire Suppressants, Version 2.0
10	ACR-approved Methodology title and version applied at validation (if different than above)	Certified Reclaimed HFC Refrigerants, Propellants, and Fire Suppressants, Version 2.0

SECTION III: PROJECT DETAILS

1 Project Description

INSTRUCTIONS

- Provide a brief project description.
- State the Total GHG Emission Reductions and Removals achieved and verified in the current Reporting Period.

A-Gas US Inc’s Voluntary Emission Reduction Project A-Gas V14 involves the recovery, reclamation, re-sale, and use of AHRI 700 certified HFC refrigerants to service/re-charge existing and newly manufactured refrigeration and air conditioning equipment in the US. The benefit of using reclaimed HFCs is that it avoids future production of virgin high GWP HFCs and subsequent GHG emissions.

The HFCs used in the project were sourced domestically using our expansive refrigerant recovery network across the country (over 40 locations) from multiple sources. The HFCs recovered and reclaimed making up this project include R-134a, R-404a, R-407a, R407c, and R-410a. All are eligible per the HFC reclaim methodology.

These HFCs were reclaimed to industry specification standards at our EPA certified reclamation facility in Rhome, Texas with the intention to resell into the market. All applicable laws and regulations were followed throughout this project.

A-Gas V14 has 2,220,554 tonnes CO₂e GHG Reductions/Removals.

2 Programmatic Development Approach (PDA) Implementation (for PDA projects only)

INSTRUCTIONS

- Has a new Cohort been added to the project during this Reporting Period? Answer YES or NO.

N/A

- If **YES**, information on the new Cohort and its respective Sites must be added to the Multi-Site Design Document, to be verified and uploaded to the Registry, denoted as a GHG Project Plan document type, and maintained as public. The Cohort's Sites must be added to the Site Information Table, including their unique identifiers. List the unique identifiers of the Sites added during this Reporting Period.

N/A

3 Project Deviations

INSTRUCTIONS

- State any deviation request(s) affecting this Reporting Period and rationale for the deviation(s); in the rationale, provide both the necessity of the deviation(s) and demonstration that it/they is/are conservative (i.e., will underestimate Total GHG Emission Reductions and Removals).
- State whether ACR has formally approved the deviation request(s).

N/A

4 Environmental and Social Impacts

INSTRUCTIONS

- Projects must prepare and disclose an assessment of its environmental and social risks and impacts in the GHG Project Plan (per 8.A of the ACR Standard). All negative risks and impacts, as well as measures implemented to minimize and address the risks and impacts must be included in ongoing project Monitoring Reports.
- Disclose here all negative environmental and social risks, impacts, and/or claims resulting from the Project. Provide confirmations and/or updates, as applicable, to the original Environmental and Social Impact Assessment included in the validated GHG Project Plan.
- Provide confirmations and/or updates, as applicable, to the original SDG Contributions Report included in the validated GHG Project Plan.

Positive community impacts from the project include the reduction of emissions and economic benefit to refrigerant reclamation facilities. HFC refrigerants are the ozone friendly alternative to CFC and HCFC refrigerants, but HFC refrigerants are powerful greenhouse gases. As discussed, there is little incentive to reclaim and reuse HFC refrigerants because of the low costs associated with virgin production. Decreasing virgin production creates an emissions reduction. The

purpose of this methodology is to transition the refrigerant industry from using virgin HFC refrigerants to using reclaimed HFC refrigerants.

There are no negative community or environmental impacts for this project. The Sustainable Development Goals set forth by the United Nations are met initially by: SDG 9 – Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

9.4 - By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.

The project fosters resilient infrastructure, sustainability in the refrigerant management industry, and innovation through the acquisition and reclamation of HFC refrigerant and fire suppressants, reducing emissions of HFCs. Specifically, the acquisition and reclamation of HFCs promotes responsible refrigerant management often carried out by small and medium sized companies and enables the deployment of clean technologies with a lower climate impact.

SDG 12 – Ensure sustainable consumption and production patterns.

12.6 – Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle. The project provides a cleaner solution for HFC refrigerants contributing to the avoidance of emissions that would occur otherwise with the production of new virgin material. The result is fewer chemical emissions released into the air.

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SDG 13 – Take urgent action to combat climate change and its impacts.

13.2 – Integrate climate change measures into national policies, strategies and planning.

The project directly contributes to the overarching goals of the Montreal Protocol, which forms a critical component of most national level climate change action plans through the reduction of production and consumption of fluorinated gases. The project results in the reduction in the concentration of virgin refrigerants and fire suppressants in the atmosphere that are also extremely powerful greenhouse gases.

SDG 3 – Ensure healthy lives and promote well-being for all at all ages.

3.9 – By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.

The reclamation of HFCs contributes to the repair of the ozone layer through the avoidance of newly created virgin HFC emissions which are harmful greenhouse gasses contributing to ozone depletion. Ozone layer depletion leads.

A-Gas, as a company, strives to nurture the Sustainable Development Goals to work towards a better future for all.

SECTION IV: AFOLU PROJECTS ONLY

1 Project Area

INSTRUCTIONS

- Provide the total acreage (rounded to the nearest acre) for the end of the Reporting Period; if the project is stratified, provide the total acreage for each stratum.
- If the project area or stratification has changed since the previous Reporting Period, please describe the change and explain why it was necessary.

N/A

2 Carbon Pools

INSTRUCTIONS Populate the below table with the total tCO₂e for each applicable Carbon Pool (adding rows as needed for additional relevant Carbon Pools).

CARBON POOL	START OF REPORTING PERIOD (TOTAL TCO ₂ E)	END OF REPORTING PERIOD (TOTAL TCO ₂ E)
Live Biomass	N/A	N/A
Dead Biomass	N/A	N/A
Soil	N/A	N/A
Harvested Wood Products (current reporting period)		N/A

3 Inventory

INSTRUCTIONS

- State whether the project is using the original inventory methodology as described in the GHG Project Plan.
- If **NO**, describe the changes to the original inventory methodology since the last verification.
- If new inventory data has been collected, report the updated confidence statistic and uncertainty deduction.

N/A

SECTION V: PROJECT MONITORING

Parameters Monitored/Modeled

INSTRUCTIONS Populate the table below with each parameter monitored during the Reporting Period (attaching tables for each parameter as necessary). Validated modeled parameters should also be reported using the table(s) below.

PARAMETER	VR HFC _{j,rp}
UNITS	KG
DESCRIPTION	Total quantity of virgin HFC j that would have been used to recharge equipment during the reporting period, derived from the quantity of monitored certified reclaimed HFC that is documented according to the methodology.
METHODOLOGY SECTION	4.1
EQUATION #(S)	1
SOURCE OF DATA	Financial and operating records
MEASUREMENT FREQUENCY	Determined once for each project (which consists of one reporting period).

Copy and paste new parameter tables below as needed

2 Monitoring Plan

INSTRUCTIONS

- Provide the names and roles/responsibilities for each party involved in monitoring the project.
- Provide a description of the GHG data management system employed including:
 - The location and recordkeeping/retention requirements for all stored data;
 - Methods used to generate data; and
 - Transfer points and methods of non-automated transfer of data.
- If applicable, describe any calibration procedures and the frequency with which calibration and other maintenance requirements are performed.

- Describe the internal audit and other quality assurance/quality control procedures.
- Describe the sampling methods utilized and performed during the Reporting Period (if not otherwise described in section IV.3).

A-Gas Personnel Roles and Responsibilities:

- 1) Briana Reinke – Project Documentation & Development
- 2) Phillip Mahady – Point of Contact for Rhome, Texas
- 3) JoLynn Plata – Accounts Receivable for A-Gas / Sales Packets

GHG Management System Requirements:

- 1) All records for purchases, processing, and sales are kept at the Bowling Green, Ohio facility.
 - a. These are stored as hard copies and electronically.
 - b. Records are retained for a minimum of 7 years unless otherwise required.
- 2) The methods used to generate data include accessing reports from the A-Gas inventory system, Cyltrak. This program tracks material from the time it enters the facility, through processing, packaging, and sale. This data is captured in real time and monitored daily by operators and Finance Inventory Control.
 - a. Within the system, there are identifiers that allow the tracking of material through purchase order numbers, reference numbers, lot numbers, serial numbers, batch numbers, and order numbers.
 - b. Manual entry sheets are required at each step of the data entry process. These manual entries are done while the information is input into the inventory system.
 - c. Data is checked/audited by several departments that have access to the Cyltrak system: Operations, Logistics, Quality Control, Finance, and Environmental Services. The documentation begins with Operations recording weight and material transfers and laboratory testing. This paperwork is then supplied to Quality Control to verify the weights and laboratory testing prior to passing the documents to Logistics for shipping. Once Logistics includes the bill of lading with the documentation, it is turned over to Finance for invoicing. Finance maintains ownership of process documentation and, once again, verifies refrigerant volumes that are processed for invoicing. Environmental Services utilizes all relevant information, discussed above, to verify that process documentation is complete including operations paperwork, quality control documentation including certificates of analysis, Logistics bills of lading, and Finance invoicing. This process documentation is then reviewed by at least two people within Environmental Services to validate refrigerant weights and information used to calculate GHG emission reductions.

- 3) All A-Gas scales are calibrated quarterly & equipment inspected regularly.
- 4) Quality Control ensures the refrigerant has met AHRI 700 industry specifications based on lab sampling.
 - a. Samples of the material are turned into the AHRI Lab throughout the processing of the material.
- 5) Project implementation occurs once a reporting period has been established with all relevant data mentioned above is captured and completed.

SECTION VI: GHG EMISSION REDUCTIONS AND REMOVALS

INSTRUCTIONS Attach as an appendix, a spreadsheet documenting the calculation of GHG emission reductions and removals for the reporting period, including the following information:

1 Baseline Emissions

INSTRUCTIONS Provide the total baseline emissions or stock change for the Reporting Period.

Baseline emissions = 2,220,554 tonnes CO₂e. Please refer to Appendix H "V14_ER Calculations_2023.12.20" for details.

2 With- Project Emissions

INSTRUCTIONS Provide the total with-project emissions or stock change for the Reporting Period.

This is not applicable. Please refer to Appendix H "V14_ER Calculations_2023.12.20" for details.

3 Deductions

INSTRUCTIONS If applicable, provide a detailed summary of deductions (e.g., uncertainty, leakage) relevant to quantification of Total GHG Emission Reductions and Removals for the Reporting Period. Do not report in this section any deductions for reversal risk mitigation (if applicable) as reported in section VI.5.

This is not applicable. Please refer to Appendix H "V14_ER Calculations_2023.12.20" for details.

4 Total GHG Emission Reductions and Removals

INSTRUCTIONS State the Total GHG Emission Reductions and Removals for the Reporting Period (i.e., quantity after deductions in section VI.3 applied).

A-Gas V14 has 2,220,554 tonnes CO₂e GHG Reductions/Removals. Please refer to Appendix H "V14_ER Calculations_2023.12.20" for details.

5 Reversal Risk Mitigation (For AFOLU and geologic sequestration projects only)

INSTRUCTIONS

For AFOLU projects:

- State the Buffer Pool Contribution Percentage and, if a new Reversal Risk Analysis has occurred, attach as an appendix a description and/or spreadsheet documenting the risk analysis and quantification of the Buffer Pool Contribution Percentage.
- Provide a summary calculation of the Buffer Pool Contribution for the Reporting Period.

This is not applicable. Please refer to Appendix H "V14_ER Calculations_2023.12.20" for details.

For geologic sequestration project:

- State the project's Reserve Account contribution to date and whether an additional contribution is required for this Reporting Period based on an increase in the project's annual Total GHG Emission Reductions and Removals.

This is not applicable. Please refer to Appendix H "V14_ER Calculations_2023.12.20" for details.

6 Net GHG Emission Reductions and Removals (For AFOLU and geologic sequestration projects only)

INSTRUCTIONS State the Net GHG Emission Reductions and Removals for the Reporting Period (Total GHG Emission Reductions and Removals per section VI.4 minus the Buffer Pool Contribution/additional Reserve Account Contribution for the Reporting Period per section VI.5).

N/A

7 Crediting Summary

INSTRUCTIONS:

- Enter the ERTs as shown in the table below, allocated according to Vintage.
- For AFOLU and geologic sequestration projects:
 - ◆ Enter the Reserve Account or Buffer Pool Contribution (from section VI.5), if applicable, allocated according to Vintage.
 - ◆ If calculating Removals according to an approved Methodology, report the Removals and Emissions Reductions subsets of the Net Emission Reductions and Removals for the Reporting Period, allocated by Vintage.
- Omit or provide additional rows for Vintages as needed.

ALL GHG PROJECTS		AFOLU & GEOLOGIC SEQUESTRATION PROJECTS ONLY			
VINTAGE	TOTAL ERRS (VI.4)	BUFFER POOL / RESERVE ACCOUNT CONTRIBUTION (VI.5, IF APPLICABLE)	NET ERRS (VI.6, IF APPLICABLE)	REMOVALS SUBSET (IF APPLICABLE)	EMISSION REDUCTIONS SUBSET (IF APPLICABLE)
2023	2,220,554 tonnes CO ₂ e	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A
Totals	2,220,554 tonnes CO ₂ e	N/A	N/A	N/A	N/A

8 Reversals (Please note that reversals must be reported to ACR per the terms of the Reversal Risk Mitigation Agreement)

INSTRUCTIONS

- Have there been any Reversals during the Reporting Period? Answer YES or NO.

N/A

- If YES, describe the Reversal, including whether it was Intentional or Unintentional, the nature and cause of the Reversal, the extent of area affected by the Reversal, and all other relevant facts. Describe the status of compensation for the Reversal. Additionally for AFOLU projects, an updated Reversal Risk Analysis must be reported in section VI.5.

N/A

SECTION VII: PREVIOUS REPORTING

1 Updates to previous reporting periods

INSTRUCTIONS

- State whether there are any updates to the Listing Form and describe the update(s).
- State whether there are any details and/or data that needs to be clarified from a previous Reporting Period and describe the revision(s).

N/A

SECTION VIII: VERIFICATION

1 Verification

INSTRUCTIONS


- State whether the project is undergoing a full verification (i.e., including a field visit to the project Site) or a desk-based verification.
- State the date of the last full verification and the associated Reporting Period verified (MM/DD/YYYY –MM/DD/YYYY).
- Provide the name of the Validation/Verification Body for this Reporting Period.
- State the number of consecutive years of reporting the Validation/Verification Body has verified for the project or, in the case of project types with only one Reporting Period, state how many of the last nine verifications of projects developed at the same facility the Validation/Verification Body has performed.

A-Gas V14 is undergoing a full site visit verification by Ruby Canyon Environmental. This is the first verification for A-Gas V14, and Ruby Canyon Environmental conducted a site visit for this project on November 14, 2023. The reporting period for this project is January 6, 2023 - June 30, 2023.

SECTION IX: REQUIRED ATTESTATIONS

The Project Proponent/Account Holder hereby represents and warrants to the American Carbon Registry, its affiliates and supporting organizations and any assignee of substantially all of the assets comprising the ACR, that:

- 1 *The Project maintained regulatory compliance with all relevant national and local laws, regulations, rules, procedures, other legally binding mandates and, where relevant, international conventions and agreements by completing all requirements at required intervals – answer YES or NO: YES
If NO, all violations or other instances of noncompliance directly related to project activities are listed below, along with a statement of whether all regulatory requirements were completed at required intervals: N/A*
- 2 *At no time during or since the development of the Project have there been any undisclosed or unmitigated adverse environmental or social impacts as a result of the development, construction, operation and/or maintenance of the Project; ongoing monitoring of risks and impacts and mitigations has been fulfilled in accordance with the Environmental and Social Impact Assessment; and any changes to the Environmental and Social Impact Assessment included in the validated GHG Project Plan have been disclosed in this Monitoring Report.*
- 3 *Any comments that were received from stakeholders regarding environmental or social impacts during the development, construction, operation and/or maintenance of the Project have been addressed, and when necessary, response actions have been implemented by the Project Proponent, and a true and accurate summary of any and all such communications/actions is attached hereto (as available).*
- 4 *The ACR Account Holder under which the project is listed is authorized to register and transact the carbon credits (ERTs) generated or to be generated by the Project, and to the best knowledge of the representing party, there are no competing claims to the ownership and legal rights to the GHG emission reductions/removals and associated ERTs.*
- 5 *Neither such ERTs nor any underlying emissions reductions/removals and/or greenhouse gas attributes to be registered on the ACR Registry have been serialized, registered, retired or cancelled, or otherwise transacted on another registry and/or with another carbon crediting program, regulatory body for a mandatory GHG mitigation scheme, other environmental markets (e.g., Renewable Energy Certificates), or programs based on carbon intensity of fuels (e.g., Low Carbon Fuel Standards).*
- 6 *Neither such ERTs nor any underlying emissions reductions/removals and/or greenhouse gas attributes to be registered on the ACR Registry have been transferred, retired, or otherwise used or disposed of prior to the date hereof, other than as duly recorded in the ACR Registry.*
- 7 *All information and attestations provided in this Monitoring Report and in all appendices are true, correct, and complete to the best of their knowledge, information, and belief. They further agree to notify ACR promptly in the event that they become aware that any representation or warranty set forth above was not true when made.*

	Name	Briana Reinke
	Title	Environmental Projects Developer
	Organization	A-Gas US, Inc.
	Project Roles	Project Proponent: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Project Developer Account Holder: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Date	12/21/2023