



REDUCING GAS LEAKAGES WITHIN THE HUDUDGAZ GAS DISTRIBUTION NETWORKS ACROSS UZBEKISTAN



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Summary:

KBS Certification Services Limited (now onwards refer as KBS) has been contracted by the GasGreen Asia LLC (now onwards refer as PP) to conduct an independent verification of the emission reductions generated under VCS Project 4531, “Reducing Gas Leakages within the Hududgaz Gas Distribution Networks across Uzbekistan,” for the monitoring period 16-September-2024 to 19-October-2025 (inclusive end days). The purpose of the verification was to assess the accuracy, completeness, and conformance of the reported GHG emission reductions with the requirements of the VCS Standard (v4.7) and the approved methodology AM0023 (Version 04.0.0). The verification also aimed to confirm that the project was implemented as described in the Project Description and that monitoring activities were carried out in accordance with the approved monitoring plan.

The scope of verification covered a full review of the monitoring report, emission reduction calculation sheet and supporting evidence (Refer Appendix 03) which are used to quantify baseline and project emissions. Verification team conducted desk review, cross-checking of electronic data with physical evidence, site visits to sampled leak locations, and interviews with the Leak Detection and Measurement Team, Repair Team, Database Managers, Climate Compass, MBS technical auditors, and Hududgaz representatives.

Verification was performed in line with the principles of ISO 14064-3 and VVB’s internal verification procedures, focusing on materiality, conservativeness, transparency, and traceability. The GHG calculations were assessed for mathematical accuracy, correct application of parameter, and appropriate treatment of uncertainties and shut-off events. Verification team also verified the robustness of QA/QC procedures, data handling systems, calibration frequency, and adherence to the methodology’s decision tree for leak inclusion.

A risk-based approach has been followed to perform this verification. During verification, 01 Clarification request (CLs) were raised and successfully closed.

Based on the verification activities performed and the evidence reviewed, Verification team concludes that the project has been implemented in accordance with the VCS Standard and the approved methodology. The monitoring system was found to be robust, and the reported emission reductions are free from material misstatement. Verification team confirms that the project achieved 7,940,198 tCO₂e of verified emission reductions during the current monitoring period and is eligible for VCU issuance for the full reported amount.

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1 INTRODUCTION

1.1 Objective

The objective of this verification is to provide an independent and impartial assessment of the project's implementation and the accuracy of the greenhouse gas (GHG) emission reductions reported for the current monitoring period. The verification seeks to confirm that the project has been executed in accordance with the VCS Standard Version 4.7/1/, the approved methodology (AM0023 (Version 04.0.0)/8/, and the monitoring plan described in the Project Description/9/. It aims to evaluate whether monitoring procedures, data collection, QA/QC practices, and calculations have been applied correctly, and to ensure that the emission reductions are complete, consistent, transparent, and free from material errors or omissions. Ultimately, the verification provides reasonable level of assurance that the quantified GHG reductions are real, measurable, conservative, and therefore eligible for VCU issuance.

1.2 Scope and Criteria

The scope of verification is to assess the claims and assumptions made in the VCS monitoring report/13/ against the VCS criteria, including but not limited to, VCS standard/1/, applied methodology/8/ and other relevant rules and requirements/1-7/ established for VCS project activities. The Verification is not meant to provide any consulting towards the project participants. However, stated requests for clarification and/or correction actions request may have provided inputs for improvement of the project design.

1.3 Level of Assurance

- ☒ Reasonable level of assurance
- ☐ Limited level of assurance

This verification has been conducted to provide a reasonable level of assurance, meaning the verification team performed sufficient detailed checks, data reviews, and site assessments to confidently conclude that the reported GHG emission reductions are free from material misstatements and comply with the VCS requirements/1-7/ and the applied methodology/8/.

1.4 Summary Description of the Project

The project titled “Reducing Gas Leakages within the Hududgaz Gas Distribution Networks across Uzbekistan” aims to reduce methane emissions from the country’s aging natural gas distribution infrastructure. The gas system, constructed largely in the 1960s and 1970s, has experienced significant deterioration, resulting in widespread methane leakage from above-ground components such as valves, insulating joints, regulators, connectors, and threaded fittings. Prior to the project, leak identification relied mainly on odor detection and soap-bubble testing, which are insufficient for precise leak quantification and effective repairs.

To address this, the project introduces an advanced Leak Detection and Repair (LDAR) program using modern instrumentation—including Hi-Flow Samplers, Gasurveyors, and advanced repair materials such as PTFE sealing compounds, nitrile O-rings, membrane replacements, sealing paste, and Tangit thread. Trained field teams systematically survey the distribution system, detect and measure leak rates, record GPS-tagged evidence, and implement high-quality repairs. All baseline and monitoring data are logged in a centralized database, supported by rigorous QA/QC practices, calibration protocols, and independent oversight by Climate Compass and MBS.

The project boundary covers all above-ground components within the Hududgaz service network where physical methane leaks have been detected and included in the project database. Emergency repairs and equipment replaced by Hududgaz under regular maintenance are excluded. Any leak repairs that cannot be accessed during monitoring due to construction or obstruction are conservatively omitted from emission reduction claims.

Beyond climate benefits, the project contributes to local sustainable development through improved air quality, preservation of natural gas resources, technology transfer, capacity building, and the creation of skilled jobs within Uzbekistan. Stakeholder interactions occur continuously during field activities, and no grievances were reported during the monitoring period.

The project applies the VCS Standard v4.7 and Methodology AM0023-“Leak detection and repair in gas production, processing, transmission, storage and distribution systems and in refinery facilities” (Version 04.0.0) for quantifying methane leakage reductions. During the current monitoring period, the project achieved significant verified emission reductions by detecting, measuring, and repairing tens of thousands of leaks across the distribution network, resulting in substantial avoidance of methane emissions released into the atmosphere.

2 VERIFICATION PROCESS

The registered VCS project is undergoing second verification, the approach adopted to ensure the quality of emission reductions is described in the following sections.

2.1 Method and Criteria

The verification approach consists of two steps.

In the first step, Verification team completed a strategic desk review and risk assessment of the project's activities and processes to gain a full understanding of:

- Activities associated with all the sources contributing to the project emissions and emission reductions, including leakage if relevant;
- Protocols used to estimate or measure GHG emissions from these sources;
- Collection and handling of data;
- Controls on the collection and handling of data;
- Means of verifying reported data; and
- Identification of any possible gaps from the standard guidelines.

At the end of this step, verification team produced a Verification Checklist which, based on the risk assessment of the parameters and data collection and handling processes for each of those parameters, describes the verification approach and the sampling plan.

In the second step using the Verification checklist, Verification team verified the implementation of the monitoring plan, and the data presented in the VCS MR for the period in question. This involved onsite interviews of project proponent representative's, site visit of the project technologies/facilities and a desk review of the Monitoring Report. This verification report describes the findings of this assessment.

Key Milestones	Date of achievement
Kick-off Meeting	26-August-2025
Initial Document received	04-September-2025
Site visit	3 rd to 4 th November-2025
Findings released	18-November-2025
Draft Verification report	17-December-2025

2.2 Document Review

The verification is performed primarily as a document review of the registered VCS PD/9/, validation report/10/ and associated documents as stated in detail in appendix 03 of this document.

2.3 Interviews

The verification team conducted interviews with key personnel involved in leak detection, repairs, data management, QA/QC oversight, and project coordination. Interviewees included LDMT operators, repair technicians, the EKS Project Manager and Database Manager, Climate Compass and MBS supervisors, and Hududgaz representatives. During the onsite audit, the team also observed field activities and completed sample-based checks of the leak detection and repair database to confirm the accuracy of selected leak records.

Key points discussed included:

- Leak measurement and calibration practices
- Repair procedures and material use
- Data entry and QA/QC processes
- Treatment of inaccessible or excluded leaks
- Field team training and supervision

Information gathered was consistent with the monitoring report and supporting documents.

Detailed list of interviewed personals:

Individual	Affiliation	Topic discussed	Date
Kevin James	Gas Green Asia	• Project Implementation and Scope • Leak Detection and Measurement Procedures • Monitoring Equipment and Calibration • Data Recording and Management • Quality Assurance and Quality Control (QA/QC) • Management of Deviations and Issues • Staff Training and Competency • Monitoring and Reporting Documentation	3 rd to 4 th November 2025
Volodymyr Potapenko	MBS Ltd		
Dillon Banerjee	Climate Compass LLC		
Primkulova Tatyana	EcoCarbon Services		
Usmanova Gulnora	SoftEnergy		
Yooljayesa S.	Hududgaz		
Abdujabbarov A	EcoCarbon Services		
Badikshanov Ruslan	Climate Compass LLC		
Mamalov Islam	EcoCarbon Services		

2.4 Site Visits

Verification team conducted an on-site inspection from 3rd to 4th November 2025 to verify that the project activity described under the MR properly implemented and functioning as planned under the registered VCS-PD/9/. The inspection ensured that the project proponent monitored all parameters correctly and in line with the registered VCS PD/9/. The verification included the following steps:

1. **Project Implementation Check:** Confirmed that the project activity was carried out as described in the registered PD/9/.
2. **Monitoring Review:** Examined how the project data/15/ was collected, aggregated, and reported.
3. **Staff Interviews:** Spoke with relevant personnel to ensure operational procedures and data collection were conducted according to the Monitoring Plan.
4. **Cross-Checks:** Compared leak records in the Monitoring Report with other supporting records.
5. **Equipment Inspection:** Checked monitoring instruments, including their calibration/16/, and observed monitoring practices to ensure they met the requirements of the registered PD and monitoring methodology.
6. **Data Verification:** Reviewed calculations and assumptions used to determine greenhouse gas data and emission reductions.
7. **Quality Assurance:** Evaluated QA/QC procedures to identify, prevent, or correct any errors in the reported monitoring data.

The verification team confirmed that the total number of leaks identified, repaired, and re-surveyed during the monitoring period matched the ER calculation sheet/x/.

Since it was not feasible to individually verify every reported leak, the verification team employed a random sampling approach in accordance with the CDM Sampling Standard/11/12/. This method allows a representative subset of leaks to be checked while maintaining a high level of confidence in the results. Based on a 90/10 confidence/precision level and assuming a 90% response distribution, the minimum required sample size was calculated to be 25 leaks. To enhance the robustness of the assessment, 30 leaks were randomly selected from the total reported population. Random selection ensured that each leak had an equal chance of being chosen, minimizing bias and providing a representative view of the overall data.

The verification plan also included a contingency for discrepancies: if any inconsistencies were identified in the sampled leaks during the inspection, the sample size would be increased in line with the materiality concept of the CDM VVS for project activities.

During the on-site inspection, the verification team has reviewed the hard copies of the leaks detected, Data tags of each leak, Leak report files containing each and every leak information including the cutoff details, and the HFS log files. Other than the leaks checked on-site, verification team also checked the leak report files and pictures during documentation review in the company office.

All sampled points were found to be accurate, complete, and consistent. No additional samples were required, and the records of repaired leaks were accepted. The verification team also conducted interviews with project staff to confirm that project operations and monitoring practices comply with VCS requirements.

The topics covered during interview ranges from general features and implementation of project to technical details of the project like calibration details, monitoring and measuring system and data collection, recording, and archiving procedures. The assessment was drawn based on the feedback received during interview coupled with the documentation and on-site observations.

2.5 Resolution of Findings

During the verification process, any deviations observed from the standard requirements are raised and findings by the assessment team—such as Corrective Action Requests (CARs), Clarification Requests (CLs), and Forward Action Requests (FARs). They are reviewed and resolved by the project proponent. The process of resolving these findings typically involves:

- **Identification of Findings:** The verification team raises issues related to the project's implementation, monitoring, reporting, or any deviations from the agreed-upon methodologies or standards.
- **Project Proponent's Response:** The project team is required to provide a response to each finding. This may include explanations, additional documentation, or corrective measures to address the identified issues.
- **Review and Closure:** The verification team evaluates the responses provided by the project proponent. If the corrective actions are deemed sufficient, the finding is marked as closed. If not, further clarification or additional actions may be requested.
- **Final Assessment:** Once all findings are resolved, the verification team finalizes its report and proceeds with a positive opinion for issuance the emission reductions, assuming all issues have been adequately addressed.

Number of findings issued during the current monitoring period:

Corrective Action Requests (CARs)	00
Clarification Requests (CLs)	01
Forward Action Requests (FARs)	00

All findings, including the issues raised, the responses from the project proponent, and the verification team's assessments, are included in Appendix 06.

2.5.1 Forward Action Requests

This section is not applicable, as no forward action requests are raised.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as KBS holds the accreditation for Validation of projects under this Sectoral Scope.

3 VALIDATION FINDINGS

The project activity is undergoing periodic verification only. Not applicable.

3.1 Methodology Deviations

No methodology deviations were applied to this project during the current reporting period.

3.2 Project Description Deviations

No project description deviations were applied to this project during the current reporting period.

3.3 New Project Activity Instances in Grouped Projects

Not applicable. The project activity is not a grouped project.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes

☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
Audit history	The verification team reviewed the audit history presented in Section 1.2 of the Monitoring Report and cross-checked the information against the verra registry portal . It was confirmed that the project is undergoing its second verification. No inconsistencies or gaps were identified in the audit trail.
Double counting and participation under other GHG programs	Based on the Carbon Credit Attestation/22/ provided by the project proponent, it has been verified that the project is neither receiving nor seeking credit for emissions reductions or removals under any other GHG program. Additionally, the project has not been registered, nor is it seeking registration, under any other GHG programs and this is cross-verified by checking the project details in other GHG registries such as CDM, GS, GCC etc. Therefore, there is no risk of double issuance or double counting associated with this project.
No double claiming with emissions trading programs or binding emission limits	Based on the desk review of the MR/13/, Carbon Credit Attestation/22/, and interviews with the PP's team, the verification team confirms that the project is not included in any emissions trading program or binding emission limit. There is no risk of double claiming as per VCS Standard requirements.
No double claiming with other forms of environmental credit	Based on the desk review of the MR/13/, Carbon Credit Attestation/22/, and interviews with the PP's team, the verification team confirms that the project has not sought, received, or planned to receive credit from any other GHG-related environmental credit system. There is no risk of double claiming as per VCS Standard requirements.
Supply chain (scope 3) emissions double claiming	Based on the desk review of the MR/13/, Carbon Credit Attestation/22/, and onsite interviews, the verification team confirms that the project does not affect the emissions footprint of any product in a supply chain, and the proponent is not a buyer or seller of such products. Therefore, there is no risk of double

	claiming related to Scope 3 emissions as per VCS Standard requirements.
Sustainable development contributions	The project contributes to the following Sustainable Development Goals, SDG 7 – Affordable and Clean Energy (7.1.2): Based on review of the leak detection database/15/, Hi-Flow Sampler measurements, repair logs under the ER sheet/14/, and onsite sample checks. These records confirmed the repair of 49,933 L/min of leaks during the current monitoring period, improving clean fuel availability. The verification team concludes that the project’s contribution to SDG 7 is supported and consistent with verified reductions in natural gas losses. SDG 8 – Decent Work and Economic Growth (8.5): Employment records/17/, training certificates/18/, training records/19/ and interviews with project management were reviewed to assess job creation and capacity building. Employment data showed 73 workers employed during the current monitoring period. The verification team concludes that the project’s contribution to SDG 8 is verified and aligns with documented employment impacts. SDG 9 – Industry, Innovation, and Infrastructure (9.4.1): The verification team reviewed repair database under ER sheet/14/, equipment calibration logs/16/, and interviewed field supervisors to assess improvements in operational efficiency. Evidence confirmed the repair of 49,933 L/min of leaks in this period resulting in reduced gas loss per unit of economic output. The assessment concludes that the project’s contribution to SDG 9 is credible and well supported. SDG 11 – Sustainable Cities and Communities (11.6): Review of leak records under ER sheet/14/, electronic and hard copy of overall leak database/15/, and onsite observations confirmed reductions of 49,933 L/min of harmful methane emissions during the current monitoring period. These activities reduce environmental and safety risks in populated areas. The verification team concludes that the project’s contribution to SDG 11 is supported by clear and verifiable evidence.

	SDG 13 – Climate Action: Emission reduction spreadsheets/14/, electronic and hard copy of overall leak database/15/, application of AM0023 methodology/8/, and onsite verification were accessed to confirm GHG reductions. These evidences confirmed 7,940,198 tCO ₂ e avoided during this period. Therefore, the verification team concludes that the project has clearly implemented emission-reducing measures, with verifiable and substantial reductions in GHG emissions, demonstrating a valid and significant contribution to SDG 13.
Additional information relevant to the project	Not applicable

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Based on desk review of the MR/13/ and registered VCS-PD/9/ and onsite inspection the verification team confirms that stakeholder/23/ identification are not applicable for this monitoring period because no changes have occurred since validation. The project continues to operate within an existing gas distribution system that is fully owned by the gas company, with no system expansion, land acquisition, or addition of new customers or stakeholder groups. Legal or customary rights, stakeholder diversity, stakeholder locations, and access to resources remain the same as assessed at validation, and no changes in stakeholder well-being were expected or observed. As per VCS requirements/1-7/, stakeholder identification needs to be reassessed only when changes occur after validation. Since no such changes were identified, applying “Not Applicable” is appropriate and acceptable, and the project remains compliant with stakeholder identification requirements.

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	Not applicable, as no changes in stakeholder identification have occurred since validation.
Legal or customary tenure/access rights	The gas equipment is wholly owned by the gas company. It was confirmed by the verification team through desk review and interviews conducted during the on-site visit.

Stakeholder diversity and changes over time	The gas grid serves a broad segment of the population, including customers from diverse social, economic, and cultural backgrounds. This was verified by the verification team through desk review and on-site interviews.
Expected changes in well-being	Not Applicable, as no changes in stakeholder characteristics or well-being were identified or expected under the baseline scenario.
Location of stakeholders	Not applicable, as the location of stakeholders has not changed since validation.
Location of resources	Not applicable, as there have been no changes since validation.

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	The verification team reviewed monitoring procedures, field activity descriptions, and stakeholder engagement practices. During baseline and monitoring activities, project teams visit above-ground gas equipment and regularly interact with customers and nearby residents while inspecting, repairing, and maintaining gas leaks. Additional engagement occurs through the gas company's customer service line and regular consultations with gas distribution company management and relevant government officials. Therefore, verification team confirms that ongoing stakeholder consultation is implemented consistently and is in line with VCS requirements.
Date(s) of stakeholder consultation	The verification team reviewed consultation timelines and supporting survey database records/15/ also during onsite inspection. Ongoing in-person communication with customers took place continuously from 16-September-2024 to 19-October-2025 during monitoring activities and through ongoing reporting/26/ to the Uzbek Government via Hududgaz.
Communication of monitored results	Based on documentation and interviews, Hududgaz reports/26/ monitored results to the Uzbekistan Government regularly. Customers present are informed in real time, and questions are addressed on-site.

Consultation records	Based on the review of formal reports/26/ submitted by Hududgaz to the relevant government authorities, the consultation records were found to be sufficient and appropriately documented.
Stakeholder input	The input we have received from all the stakeholder is that the gas leak reductions are welcome.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	Not Applicable – The gas equipment is fully owned by the gas company. Repairing leaks does not affect Indigenous Peoples, local communities, or customary rights holders, as the system is pre-existing and repairs are confined to the existing infrastructure.
Outcome of FPIC discussion	Not Applicable – The Gas Distribution Company owns the gas distribution system, and there is general consensus that repairing leaks provides benefits to the local population.

4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	Based on the review of the Hududgaz letter/21/ and interviews conducted during the onsite visit, the verification team confirms that no grievances were reported by any stakeholders during the current monitoring period. The gas company confirmed that no leaks requiring replacement or emergency repair were included in the emission reduction calculation spreadsheet/14/ or recorded in the emergency logbook.
Grievance redress procedure	Based on interviews with customers and the PP and gas company members, the verification team confirms that stakeholders can raise issues directly with field workers during site activities. If the response is unsatisfactory, concerns may be escalated to the local gas company or relevant government authorities. Project managers' contact details were shared during stakeholder meetings. This grievance redress

process was verified during the onsite visit and is deemed adequate and acceptable by the verification team.

4.2.5 Public Comments

Based on the review of the project's Verra Registry page, the verification team confirms that no public comments have been received during or outside the public comment period. <https://registry.verra.org/app/projectDetail/VCS/4531>

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A	N/A

4.2.6 Risks to Local Stakeholders and the Environment

4.2.6.1 Management Experience

Based on onsite interviews and desk review of web sources for similar projects, the verification team confirmed that the lead project implementor has nearly 20 years of experience implementing 11 comparable projects, and that the local management team has more than 8 years of relevant implementation experience.

4.2.6.2 Risk Assessment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Natural and human induced risks to stakeholders' wellbeing	The verification team conducted onsite interviews with project staff and reviewed project design documents and operational procedures. Evidence confirmed that no natural or human-induced risks to stakeholders' wellbeing were identified. The activity of detecting and fixing gas leaks contributes to risk reduction by improving public safety.
Risks to stakeholder participation	Based on onsite interviews and a review of records, the verification team found no risks to stakeholder participation. The project does not affect or restrict stakeholder involvement and is implemented by trained teams without needing direct participation from local stakeholders.
Working conditions	The verification team reviewed training records/18/, safety procedures/25/, and conducted interviews during the onsite visit. Evidence confirmed that potential risks associated with working on natural gas systems are adequately mitigated through the use of qualified personnel/17/, appropriate safety gear, and regular safety training.

Safety of women and girls	Desk review of project activities and onsite interviews confirmed that no specific or additional risks to the safety of women and girls were identified. The nature of the project activities does not pose unique safety concerns for women and girls.
Safety of minority and marginalized groups, including children	The verification team reviewed project documentation and confirmed through interviews that no unique risks to minority or marginalized groups, including children, were identified. Project activities are technical in nature and do not adversely affect these groups.
Pollutants (air, noise, discharges to water, generation and release of hazardous materials and chemical pesticides and fertilizers)	The verification team conducted onsite interviews and reviewed training documentation/17-20/ related to environmental and waste management practices. Evidence confirmed that staff are trained on proper waste management, reuse of functional components is prioritized, recyclable materials are recycled where feasible, and remaining waste is disposed of in accordance with local regulations. Replaced gas line components are returned to the gas company storeroom. Based on the evidence reviewed, no pollution-related risks were identified, and the project is expected to contribute to a reduction in local air pollution through the fixing of gas leaks.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination	Based on onsite interview verification team confirms that hiring and pay are based solely on qualifications, experience, and performance, with no consideration of race, religion, or gender. Hence, no risk of discrimination identified.
Sexual harassment	Based on onsite interview with the gas company employee's verification team confirms that all members operate under a zero-tolerance policy for sexual harassment, and no incidents have been reported. Hence, no risk of sexual harassment identified.
Gender equity in labor and work	Based on-site interviews and employment record verification confirm the participation of women employees in the project; therefore, no risk to gender equity in labor and work has been identified
Forced labor	Based on onsite interview verification team confirms that all employees are trained, certified experts in gas systems who voluntarily chose the

	position and may leave at any time. Hence, no risk of forced labor identified.
Child labor	Based on onsite interview verification team confirms that all workers are certified professionals; no children are employed. Hence, no risk of child labor identified.
Human trafficking	Based on onsite interview verification team confirms that all workers applied voluntarily and hold professional certifications. Hence, no risk of human trafficking identified.

4.2.7.2 Human Rights

Based on onsite interviews and desk review, the verification team confirmed that no human rights risks were identified. As, project involves detecting and repairing leaks in an existing gas distribution system, has no direct impact on the rights of Indigenous Peoples, local communities, or customary rights holders. The project is implemented across all areas of the country and provides benefits to all users.

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.7.3 Indigenous Peoples and Cultural Heritage

Based on onsite interviews and desk review, the verification team confirmed that no risks to Indigenous Peoples or cultural heritage were identified. The project allows workers to observe important cultural and religious events and does not affect cultural heritage.

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.7.4 Property Rights

Based on onsite interviews and desk review, the verification team confirmed that the project repairs leaks in equipment wholly owned by the gas distribution company. Therefore, it's not applicable.

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	Based on desk review of project documents and onsite inspection verification team confirmed that there is no impact on property rights from this project. Therefore, it's not applicable
Benefit sharing during the monitoring period	Based on desk review of project documents and onsite inspection verification team confirmed that there are no adversely affected local stakeholders. Everyone benefits from reduced gas leaks. Therefore, it's not applicable.

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	Desk review of monitoring report/13/, project PD/9/, and discussions with project staff confirmed that activities were limited to reducing gas leaks on existing infrastructure. No new construction or habitat disturbance occurred. No risks to biodiversity or ecosystems were identified; activities are expected to have a beneficial impact.
Soil degradation and soil erosion	Review of project documentation and technical descriptions confirmed that maintenance activities do not involve soil disturbance or land clearance. No risks related to soil degradation or erosion were identified; no mitigation measures were required.
Water consumption and stress	Verification of project survey records/15/ and discussions with staff confirmed that activities do not require water use or affect water resources. No risks related to water consumption or stress were identified during the monitoring period.

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	N/A

Areas needed for habitat connectivity	N/A
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Evidence gathering activities, evidence checked, and assessment conclusion	
Habitats for rare, threatened, and endangered species	N/A
Areas for habitat connectivity	N/A

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

Evidence gathering activities, evidence checked, and assessment conclusion	
Invasive species	N/A

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	N/A

4.3 Accuracy of Reduction and Removal Calculations

The Verification team assessed the accuracy of the GHG emission reduction calculations by reviewing the data, parameters, calculation methods, and quality control procedures described in the Monitoring Report/13/. The assessment covered baseline emissions, project emissions, leakage emissions, and the resulting GHG emission reductions and carbon dioxide removals.

Parameter	Value Applied	VVB Assessment
GWPC_{CH4}	GWPC _{CH4} = 28 tCO ₂ e/tCH ₄ (IPCC Fifth Assessment Report)	Based on desk review verification team confirms that the methane GWP value applied is sourced from the IPCC Fifth Assessment Report and is consistent with VCS-PD/9/ for the applicable commitment period. The value is appropriate, conservative, and consistently applied for the calculation of baseline and project emissions.
ConvFactor	0.0007168 tCH ₄ /Nm ³ CH ₄	Based on desk review verification team confirms that the conversion factor reflects methane density at standard temperature and pressure (0°C and 101.3 kPa), consistent with the Hi-Flow™ Sampler reference conditions. The value is taken from literature and correctly applied to convert Nm ³ CH ₄ to tCH ₄ in accordance with methodology/8/ requirements.
T_{j,y} (Operating time of leak)	Multiple values for each leak j derived from operational logs, with shutdown periods deducted (hours)	The verification team confirmed, through desk review of the emission reduction sheet/14/ and operational logs/15/, that operating time is calculated using documented records and measurement dates. Shutdown periods are conservatively deducted. This approach is consistent with the monitoring plan and methodology and is correctly applied in the emission reduction calculations.
Temperature and pressure of natural gas	Included in Hi-Flow™ Sampler measurement (adjusted to 0°C and 101.3 kPa)	The Verification team reviewed the ER sheet/14/ and project database/15/ to confirm that temperature and pressure are automatically accounted for in the Hi-Flow™ Sampler measurements and adjusted to standard conditions (0°C and 101.3 kPa). Calibration records/16/ were reviewed and confirm proper equipment functioning. Separate monitoring of these parameters is not required, in line with the monitoring plan.

URj (Measurement uncertainty)	0.00072144 (derived using $\pm 10\%$ manufacturer accuracy at 95% confidence interval)	The Verification team reviewed the ER sheet/14/ applied methodology/8/ to confirm that the measurement uncertainty is calculated using the manufacturer's $\pm 10\%$ accuracy at a 95% confidence interval, in accordance with IPCC Good Practice Guidance and the applied methodology. The uncertainty deduction is conservatively applied and correctly implemented in the emission reduction calculation spreadsheets.
FCH4,j / FCH4,z (Methane leak flow rate)	Measured methane leak flow rates for each leak using Hi-Flow™ Samplers ($\text{m}^3 \text{CH}_4/\text{h}$)	The Verification team reviewed the ER sheet/14/ and project database/15/ and also cross-check during onsite inspect and confirm that methane leak flow rates are directly measured using approved Hi-Flow™ Samplers, with automatic adjustment for methane content, temperature, and pressure. Calibration procedures were reviewed and found adequate. Leaks that could not be monitored were conservatively excluded from emission reduction claims.
BECAP (Baseline emission cap)	8,698,556 tCO_2e	The verification team reviewed the ER sheet/14/ and applied methodology/8/ to confirm that the baseline emission cap is calculated from verified baseline methane emissions and correctly annualized in accordance with the methodology. The calculation uses appropriate GWP values and verified baseline data. The value is correctly applied as a cap on claimable emission reductions.

Note: Data/parameter The parameters T_z (the time, in hours, that the relevant component continues to leak following leak identification during the crediting period) and UR_z (the uncertainty range associated with the measurement method applied to a reappeared leak that is not re-repaired and therefore counted as a project emission) are not reported in the monitoring report, as all leaks identified during the monitoring surveys were repaired immediately. The verification team confirmed during the on-site inspection, through review of the project database (both hard copy and electronic records), dated photographs, leak tags with unique ID and interviews with project personnel, that all reappeared leaks were identified and re-repaired on the same day they were detected.

The verification team reviewed the emission reduction calculation spreadsheet/14/ and confirmed that the applied formulae, unit conversions, uncertainty deductions, operating time calculations, and aggregation of leak-level emission reductions are mathematically correct and consistently applied, with calculated totals reconciling with the figures reported in the Monitoring Report/13/. The methods and formulae used to calculate baseline emissions are in accordance with the approved Project Description/9/ and methodology AM0023/8/, and project and leakage emissions have been correctly identified as zero and not applicable, respectively. The default values applied, including the methane conversion factor and methane global warming potential, were assessed as appropriate, conservative, and compliant with VCS Program rules and IPCC guidance. The verification team also reviewed the project's QA/QC procedures to assess the risk of manual transcription errors and confirmed that cross-checks between field records, electronic measurement files, and the project database effectively mitigate the risk of material errors. Based on these verification activities, the verification team concludes that the GHG emission reductions reported in the project's GHG statement have been quantified correctly and in accordance with the approved monitoring plan, applied methodology, and VCS requirements, with no material misstatements identified.

4.4 Quality of Evidence to Determine Reductions and Removals

The Verification team assessed the quality, reliability, and sufficiency of the evidence (refer appendix 2 of this report) used to determine the reported greenhouse gas (GHG) emission reductions for the project "Reducing Gas Leakages within the Hududgaz Gas Distribution Networks across Uzbekistan." No carbon dioxide removals were reported; therefore, the assessment relates solely to emission reductions.

The determination of emission reductions is based on primary monitoring data and supporting documentation generated during baseline, repair, and monitoring activities. Evidence reviewed includes leak detection and measurement records/15/ from Hi-Flow Samplers and Gasurveyors, field notes, photographs, GPS data, repair and monitoring records, project databases, emission reduction calculation spreadsheet/14/, calibration logs/16/, and operational logs. The verification team confirmed that all claimed emission reductions are traceable to uniquely identified leaks and supported by complete measurement and monitoring records. Emission reductions were conservatively excluded where monitoring could not be performed.

The primary quantitative evidence consists of documented internal records supported by electronic measurement files downloaded from calibrated Hi-Flow Samplers. Gasurveyors were used for leak detection only. The reliability of the evidence was assessed through consistency checks between field records, instrument data, databases, and calculation files, as well as review of calibration records/16/ and discussions with project personnel.

The verification team reviewed the information flow from data collection through aggregation, calculation, and reporting and confirmed that it follows a clearly defined and controlled process. Cross-checks tracing reported emission reductions back to original field records identified no material discrepancies.

Calibration practices for monitoring equipment were reviewed against methodology requirements and manufacturer recommendations. Hi-Flow Samplers were calibrated at least every 30 days while in use, and Gasurveyors were subject to annual calibration. Where calibration deviations occurred, conservative corrective actions were applied to ensure data integrity.

Based on this assessment, the verification team concludes that the quantity of evidence is sufficient and the quality of evidence is appropriate and reliable to support verification of the reported GHG emission reductions for the verification period under review.

4.5 Non-Permanence Risk Analysis

Not Applicable for this project activity.

5 VERIFICATION OPINION

5.1 Verification Summary

KBS performed the verification of GHG emission reductions for the VCS project activity “Reducing Gas Leakages within the Hududgaz Gas Distribution Networks across Uzbekistan” (VCS ID 4531) for second monitoring period, covering the monitoring period from 16-September-2024 to 19-October-2025, within the fixed crediting period from 22-August-2023 to 21-August-2033.

It is the responsibility of the verification team to express an independent verification opinion on the reported GHG emission reductions achieved by the project activity. The preparation and accuracy of the project’s GHG statement remain the responsibility of the Project Proponent.

Verification team conducted the verification in accordance with the approved monitoring methodology AM0023 (Version 04.0.0)/8/ and the applicable tools, as well as the monitoring plan contained in the registered Project Description/9/ and the submitted Monitoring Report/13/, in line with the VCS Program Rules and Requirements/1-7/.

The verification was carried out with a reasonable level of assurance, as described in Section 1.3 of this report. Furthermore, the verification of the GHG statement was conducted in accordance with the requirements of ISO 14064-3:2019.

Based on the verification activities performed, the verification team confirms that:

- The project activity demonstrates a high level of data quality, transparency, and traceability in the identification, measurement, repair, and monitoring of methane leaks across the project boundary.
- The project complies with all applicable host country requirements and fully meets the rules and requirements of the VCS Program, including the conditions set out in the applied methodology.
- Stakeholder engagement and ongoing consultation have been implemented in accordance with VCS requirements, with no grievances or adverse stakeholder impacts identified during the monitoring period.
- The monitoring plan is robust and has been implemented consistently, ensuring accurate and conservative quantification of emission reductions, as documented in the Monitoring Report.
- The implementation of the project activity is consistent with the registered project description and monitoring framework, and the project continues to achieve its stated objectives of reducing fugitive methane emissions.

No qualifications, limitations, or modifications were identified during this verification. Overall, the verification team opinion is that the project activity meets a high standard of integrity and methodological rigor and is implemented in full compliance with VCS requirements.

5.2 Verification Conclusion

Based on the verification activities conducted in accordance with the VCS Standard v4.7/1/ and the applied methodology AM0023 (Version 04.0.0)/8/, the verification team concludes that the reported GHG emission reductions achieved by the project “Reducing Gas Leakages within the Hududgaz Gas Distribution Networks across Uzbekistan” during the second monitoring period have been quantified in a complete, consistent, transparent, and conservative manner.

During the verification period, the project generated total verified emission reductions of 7,940,198 tCO₂e, arising exclusively from the reduction of methane emissions through the implementation of advanced Leak Detection and Repair (LDAR) activities.

Verification period: From 16-September-2024 to 19-October-2025

Verified GHG emission reductions and carbon dioxide removals in the above verification period:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU (tCO ₂ e)	Removal VCU (tCO ₂ e)	Total VCUs (tCO ₂ e)
2024 (16-September-2024– 31-December-2024)	2,127,259	0	0	2,127,259	0	2,127,259

2025 (01-January 2025– 15-September-2025)	5,812,939	0	0	5,812,939	0	5,812,939
Total	7,940,198	0	0	7,940,198	0	7,940,198

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
2024 (16-September-2024– 31-December-2024)	((107 days/365) *5,270,617) = 1,545,084	2,127,259	27%	Based on desk review of project documentation and supporting calculation records/14/15/, the verification team confirmed that the ex-ante estimates were derived by extrapolating results from a survey covering a limited portion of the gas distribution system. The verification further confirmed that the achieved results are based on actual data from the baseline study and leak repair activities, and therefore reflect measured and verified project performance rather than estimates.
2025 (01-January 2025– 15-September-2025)	((292 days/365) *7,741,550) = 6,193,240	5,812,939	6%	
Total	7,738,324	7,940,198	3%	

Location: Faridabad

Date: 30/12/2025



Authorized Signatory: Praveen N Urs

Designation: Director Climate Change & Sustainability

KBS Certification Services Limited

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

No commercially sensitive information is identified. Hence, Not applicable.

Section	Information	Justification	Assessment method and conclusion
N/A	N/A	N/A	N/A

APPENDIX 2: ABBREVIATION

Abbreviations	Full texts
BE	Baseline Emission
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification Request
CO ₂	Carbon dioxide
CP	Crediting Period
EB	Executive Board
EF	Emission Factor
ER	External Resource
KBS	KBS certification Services Limited
FAR	Forward Action Request
GHG	Green House Gas
PD	Project Description
PP	Project Proponent
tCO ₂ e	Tonnes of Carbon di oxide equivalent
TA	Technical Area
TR	Technical Reviewer
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCU	Verified Carbon Units
VVB	Validation and Verification Body

APPENDIX 3: REFERENCE DOCUMENTS

S.no.	Document name	Version and date
1.	VCS Standard	v4.7
2.	VCS Program Guide	V4.4
3.	VCS Validation and Verification Manual	v3.2
4.	Registration and Issuance Process	v4.6
5.	VCS Program Definitions	v4.5
6.	VCS Monitoring Report Template	v4.4
7.	VCS Verification Report Template	v4.4
8.	AM0023, "Leak detection and repair in gas production, processing, transmission, storage, and distribution systems"	v4.0
9.	Registered PD for VCS Project "Reducing Gas Leakages within the Hududgaz Gas Distribution Networks across Uzbekistan"	v4.0, dated 11-Jul-2024
10.	VCS 4531 Validation Report	v5.0, dated 16-Jul-2024
11.	Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities	v09.0
12.	Guidelines for Sampling and Surveys for CDM Project Activities and Programme of Activities	v04.0
13.	Monitoring report	V1.0 22-October-2025 V2.1 28-December-2025
14.	ER calculation sheet	V1.0 22-October-2025
15.	Project leak records and monitoring survey database electronic and hard copy records	
16.	Calibration logbooks for GS and HFS and technical manual	
17.	Employment data	
18.	Training certificate of operators from MBS	
19.	Operators training presentation records from MBS	
20.	Letter from MBS- Training Confirmation, Technical lifetime of repair materials Reference Letter and third part assurance of the project leaks database	

21.	Grievance log and; Letter from Hududgaz- No Grievance received during the current monitoring period	
22.	Carbon Credit Attestation letter from GasGreen Asia for no double counting	
23.	Stakeholder consultation record- invitation and attendance	
24.	Project Distribution system map	
25.	Rules and requirements- • Technical operation rules by ministry of republic of Uzbekistan • Safety Rules in Gas Industry by ministry of republic of Uzbekistan; etc	
26.	Formal reports from Hududgaz to Uzbekistan Ministry	

APPENDIX 4: TEAM COMPETENCY



Certificate of Competence
CDM-D-43 (Version 1.1, Jan 2023)

Certificate of Competence

Personnel Name		Mr. Rishabh Madan				
Schemes	☒ CDM	☒ GCC	☒ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (Cercarbono, UCR, ISO 14064, ISO 14067, <u>SDVista</u> , JCM)
Qualified to work as						
Team Leader			☒	Technical Expert		☒
Validator/Verifier			☒	Financial Expert		☐
Technical Reviewer			☐	Local Expert (India)		☒
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
SS 1: Energy industries (renewable/non-renewable sources)			TA 1.2. Renewables			
SS 7: Transport			TA 7.1. Transport			
SS 10: Fugitive emissions from fuels (solid, oil and gas)			TA 10.1. Fugitive emissions from oil and gas			
Approved by (Manager C &T)			Mr. Dushyant Parashar			
Approval date			27/12/2024			



Certificate of Competence
CDM-D-43 (Version 1.1, Jan 2023)

Certificate of Competence

Personnel Name	Ms. Deeksha Upadhyay					
Schemes	☒ CDM	☒ GCC	☒ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (Cercarbono, VCS CCB, ISO 14067, SD VSta)
Qualified to work as						
Team Leader			☐	Technical Expert		☐
Validator/Verifier			☒	Financial Expert		☐
Technical Reviewer			☐	Local Expert (India)		☒
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
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Approved by (Manager Quality)			Mr. Praveen N URS			
Approval date			15-03-2024			



Certificate of Competence
CDM-D-43 (Version 1.1, Jan 2023)

Certificate of Competence

Personnel Name	Ms. Zarina Berdieva					
Schemes	☐ CDM	☐ GCC	☐ GS	☐ VCS	☐ Other GHG Schemes ()	
Qualified to work as						
Team Leader			☐	Technical Expert		☐
Validator/Verifier			☐	Financial Expert		☐
Technical Reviewer			☐	Local Expert (Uzbekistan)		☒
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
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Approved by (Manager Competence & Training)			Mr. Dushyant Parashar			
Approval date			30.10.2025			



Certificate of Competence
CDM-D-43 (Version 1.1, Jan 2023)

Certificate of Competence

Personnel Name		Mr. Ashish Yadav				
Schemes	☒ CDM	☒ GCC	☒ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (Cercarbono, ~~SDvista~~ , VCS CCB)
Qualified to work as						
Team Leader			☒	Technical Expert		☒
Validator/Verifier			☒	Financial Expert		☐
Technical Reviewer			☒	Local Expert (India)		☒
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
SS: 1 Energy Industries (Renewable/non- renewable)			TA 1.1 Thermal Energy Generation			
			TA 1.2. Renewables			
SS: 3 Energy demand			TA 3.1 Energy demand			
SS 13: Waste handling and disposal			TA 13.1. Solid waste and wastewater			
Approved by (Manager C&T)			Mr. Dushyant Parashar			
Approval date			08-07-2025			



Certificate of Competence
CDM-D-43 (Version 1.1, Jan 2023)

Certificate of Competence

Personnel Name		Mr. Ajay Kumar				
Schemes	☐ CDM	☐ GCC	☐ GS	☐ VCS	☒ Other GHG <u>Schemes</u> (ISO 14064)	
Qualified to work as						
Team Leader			☐	Technical Expert		☒
Validator/Verifier			☐	Financial Expert		☐
Technical Reviewer			☐	Local Expert (India)		☒
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
SS 5: Chemical Industry			TA 5.1. Chemical Industry			
SS 10: Fugitive emissions from fuels (solid, oil and gas)			TA 10.1. Fugitive emissions from oil and gas			
SS 13: Waste handling and disposal			TA 13.1. Solid waste and wastewater			
Approved by (Manager Competence & Training)			Dushyant Parashar			
Approval date			30-03-2024			

APPENDIX 5: AUDIT PICTURES





APPENDIX 6: FINDINGS

CL ID	CL 01	SECTION NO	<i>Insert reference of protocol/report</i>	Date: 18/11/2025
Stage of Findings			☐ Pre-site visit Desk review finding	☒ Post-Site Visit & Desk review finding
Description of CL				
The MR does not clarify how waste generated from materials used in leak repair activities (e.g., sealants, tapes, packaging) is managed or disposed of. PP shall clarify how the waste handling and disposal are done including the responsible entity and compliance with applicable environmental and safety regulations.				
Project/ Activity participant response		Date: 12/12/2025		

Our project workers and store room manager are trained as follows with regard to waste streams from damaged materials or other waste streams produced through the repair of gas leakages. These topics are regularly revisited and implementation is checked through remote and in-person inspections.

Our number one priority is to try to reuse system parts that are still in full operational condition and repair only the piece of the equipment that is damaged. For example, if the membrane on a pressure regulator is torn, a new membrane piece is installed and the rest of the regulator case can remain in use.

Parts that are cracked or damaged beyond restoration and other waste streams such as plastic, worn-out gaskets, etc. are to be disposed of as follows:

- 1) Where recycling markets for the specific materials exist, those materials are to be recycled.
- 2) Other materials are to be placed into the correct waste stream as per local regulations.
- 3) Repair teams must return to the storeroom any broken parts of the gas line that were replaced (fittings, different types of valves, units or even broken pressure regulators) as they are the property of gas company and must be returned to the gas company.

Documentation provided by project/ activity participant

Screenshot of solid waste disposal in training presentation

KBS assessment

Date: 12/12/2025

The PP has clarified that staff are trained on waste management practices, reuse of functional components is prioritized, recyclable materials are recycled where feasible, and remaining waste is disposed of in accordance with local regulations. Replaced gas line components are returned to the gas company storeroom. The training documentation was reviewed and confirms these practices; therefore, **CL 01 is closed.**