



BCR TOOL

AVOIDING DOUBLE COUNTING (ADC)

**BCR avoid double counting of emissions
reductions/removals**

BIOCARBON REGISTRY[®]

Version 1.0 | March 9, 2023

BIOCARBON REGISTRY

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1 Introduction

According to the Paris Agreement (Art.6), “*The use of internationally transferred mitigation outcomes to achieve nationally determined contributions under this Agreement shall be voluntary and authorized by participating Parties.*” In consequence, it is crucial for avoiding double counting, issuance and claiming, that the accounting rules apply to all carbon mechanisms and GHG programs.

BIOCARBON REGISTRY (BCR) recognizes that the accounting rules should be robust and transparent. BCR also acknowledges that the emission reductions used by the countries in their achievement of the nationally determined contribution (NDC) is not allowed for another Party to demonstrate achievement of its NDC¹.

In order to that, the rules and procedures of BCR includes further rules to ensure reductions originating under the Certification and Registration process are not claimed twice, with a focus on the transparency of these practices.

In the framework to accomplish the provisions given for CORSIA for avoiding double counting, BIOCARBON REGISTRY includes in the BCR Program the provisions set forth in the Guidelines on Avoiding Double Counting for the Carbon Offsetting and Reduction Scheme for International Aviation².

The BCR Standard includes the procedures to ensure “*robust accounting*” and assure that a single VCC represents a unique GHG mitigation result, issuance and claims.

This document provides information on how BIOCARBON REGISTRY addresses double-counting, issuance and claiming of the mitigation results.

2 Objectives

The objectives of this tool are:

- (a) establish the principles and requirements applicable to the BCR Program, to avoid double counting of emissions reductions;
- (b) establish requirements for Verified Carbon Credits (VCC) to conform to the requirements of Decision -/CMA.3; Guidance on cooperative approaches referred

¹ Decision 18/CMA. requires comprehensive reporting and accounting of transfers towards NDCs or other international mitigation purposes

² <https://americancarbonregistry.org/carbon-accounting/guidance-tools-templates/guidelines-for-adc-with-corsia-june-2019.pdf>

to in Article 6, paragraph 2, of the Paris Agreement (referred as Article 6.2 of Paris Agreement)³;

- (c) provide as well as good practice established under Guidelines Avoiding double-counting under CORSIA⁴;
- (d) provide the necessary procedures to guarantee that the emissions reductions are only counted once towards a mitigation obligation.

3 Version

This document constitutes Version 1.0. March 9, 2023.

This version of the document may be adjusted periodically. Intended users should ensure that they are using the updated version.

4 General terms

The following general terms apply for this Tool:

- (a) "Shall" is used to indicate that the requirement shall be met;
- (b) "Should" is used to suggest that, among several possibilities, a course of action recommended as particularly appropriate;
- (c) "May" is used to indicate that it is permitted.

5 Scope and applicability

This document provides the set of principles and requirements necessary for the avoidance of double counting, issuance and claiming in BIOCARBON REGISTRY, safeguarding that they comply with the provisions of section 26 of the BCR STANDARD.

BIOCARBON REGISTRY addresses the avoidance of double claiming as referred in CORSIA Emissions Unit Eligibility (EUC) Criteria as well as that of article 6.2 (Paris Agreement). The provisions in this document applies to BCR projects that voluntarily aims market eligibility of Verified Carbon Credits (VCC) at the time of registration and/or at the time of issuance of VCC issued by BIOCARBON REGISTRY.

³ https://unfccc.int/sites/default/files/resource/cma3_auv_12a_PA_6.2.pdf

⁴ <https://americancarbonregistry.org/carbon-accounting/guidance-tools-templates/guidelines-for-adc-with-corsia-june-2019.pdf>

This document is intended to be adopted by all intended users⁵ including project holders and Conformity Assessment Bodies and shall be read out and applied in concurrence with the BCR STANDARD and other applicable BCR Program documents.

In this sense, this tool includes only additional or also referred information. The project holder (and all the intended users) shall use the provisions and procedures that constitute the rules for the quantification of GHG emission reductions and removals, defined by sector and/or type of project (See BCR STANDARD).

6 Principles

GHG project holders and, in general, all those involved in the formulation, validation, verification, certification and registration of the of GHG projects should apply the following principles⁶:

6.1 Accuracy

- (a) Minimizing bias and uncertainty in the measurement and processing of quantitative and nonquantitative data;
- (b) Reducing sources of uncertainty; and
- (c) Maintaining, calibrating, and checking all metering or other testing equipment used to report monitoring data for guidance on equipment calibration and ensuring that spreadsheets and other tools used to store and manipulate monitoring data are free from error.

6.2 Relevance

The monitoring and reporting of emission reductions achieved by a project is relevant information provided it complies with the BCR STANDARD. Data is not relevant if it does not impact emission reductions.

6.3 Credibility

Information can be considered credible if it is authentic and believable relative to what is being measured.

⁵ Intended user: “individual or organization identified by those reporting GHG-related information as being the one who relies on that information to make decisions” (ISO 14064-2:2019(en), 3.3.1)

⁶ Adapted from the CDM. <http://cdm.unfccc.int/Reference/Standards/index.html>

6.4 Reliability

Information can be considered reliable if it is able to yield the same results on a repeated basis over time using the same monitoring method and datasets.

6.5 Completeness

Completeness refers to inclusion of all relevant information for all relevant sources of data that are required for the assessment of emission reductions.

6.6 Consistency

Data, methods, criteria, and assumptions should allow meaningful and valid comparisons of the greenhouse gas emission reductions achieved in different monitoring periods and/or by different projects.

6.7 Transparency

Sufficient information should be made publicly available to allow reviewers to make decisions on the credibility and reliability of greenhouse gas emission reduction claims with reasonable confidence.

7 Definition of double counting for BCR

Focused on achieving international targets related to GHG emission reductions and climate change mitigation, robust and transparent accounting is essential. This will enable effective assessment of national progress.

In a strict sense, the practice of double counting would result in the overestimation of benefits to projects and countries and would lead to an erroneous analysis of the real progress towards meeting this global objective.

Consequently, within the scope of the BCR Standard, "*double counting*" is defined as the accounting of a Greenhouse Gas (GHG) mitigation result in tons of CO_{2e}, in the following scenarios:

- (a) a ton of CO_{2e} is counted more than once to demonstrate compliance with the same GHG mitigation goal;
- (b) one ton of CO_{2e} is counted to demonstrate compliance with more than one GHG mitigation goal;
- (c) a ton of CO_{2e} is used more than once to obtain remuneration, benefits, or incentives;

- (d) one ton of CO₂e is verified, certified, or accredited assigning more than one serial to a single mitigation result.

Accordingly, avoidance of double counting is a requirement that prohibits the accounting, issuance and retirement of GHG mitigation results that meet any of the conditions described above.

8 Provisions for double counting avoidance in BCR⁷

BCR program delivers credits that represent emissions reductions, avoidance, or removals that are only counted once towards a mitigation obligation. BCR through the Registry platform operation has technological provisions in place to avoid double issuance, double use and double claiming.

8.1 Provisions in place for avoidance of double issuance of VCC

Double issuance occurs if more than one unit is issued for the same emissions or emissions reduction. BCR has clear program rules and procedures for VCC issuance, therefore the public and users of the Registry are aware that the program only issued Credits “Ex post” that represent emissions reductions or removals verified by a third independent party (Conformity Assessment Bodies – CABs). BCR carry out the VCC issuance considering the requirements established by the BCR Standard. Moreover, handbook to inform about the BCR Registry’s operation sets out eligible criteria and rules to eliminate the risk of double issuance.

BIOCARBON REGISTRY has a public registry that allows for the certification and assignment of a unique serial of verified GHG emission reductions or removals.

To carry out registration in the BIOCARBON REGISTRY system, the GHG project holder shall provide the following documentation:

- (a) information about the Project and the project holder;
- (b) GHG Registration Authorization;
- (c) project Description Document;
- (d) report and validation declaration;
- (e) monitoring report;

⁷ See section 26 of the BCR Standard

- (f) report and verification declaration;
- (g) other documents, if required.

Only the project holder, or whoever is authorized by the holder to carry out the procedures required for this purpose, can apply for registration of the project.

The registration of the project in the registry platform may be requested when the validation process has been carried out, or before. Registration can be requested only once the validation process has concluded. The project holder can carry out the validation and the first verification of the project simultaneously. In this case, the CAB shall issue a single validation and verification report. However, they shall issue their respective declarations separately, meaning validation and verification.

Projects applying for registration in BIOCARBON REGISTRY may not be registered in any other registry system. Therefore, projects registered in other GHG programs may apply for registration under the BCR STANDARD, as long as they comply with the conditions established by the BCR Standard.

To **manage any risk of overlap** across eligible project types in other programs with a project register in BioCarbon Registry, BCR provides public information of the project registered including the Geographic information to facilitate the identification of potential overlapping. Procedures are in place to inform the project about the situation and the program's compliance officer is responsible to follow up closely about the progress of the investigation with the support of one delegate of the technical committee, delegated by the Program Direction.

8.2 Provisions in place for avoidance double use of VCC

Double use (which occurs when the same issued unit is used twice, for example, if a unit is duplicated in registries). Strict operational and technological controls are in place of all the operations that users require in the BCR platform including VCC issuance, listing in market place⁸, transfer and retirements.

BIOCARBON REGISTRY has a heavy-duty system and procedures that assure the identification and tracking of the VCC issuance and the traceability of the exchange in the platform registry and other registries linked with the BCR system.

By means of these procedures and the functions of the registration system, BCR guarantee the conditions described below.

⁸ When a user decides to list their VCC in any of the allowed marketplace, technological provisions are activated to avoid that listed Credits are transferred or retired (Custody account).

8.2.1 Traceability and Custody of VCCs

The VCC identification serial can be traceable from the moment it is issued until its retirement. Through the Registration Platform, the system can register the issuance of VCCs, the transfer of VCCs between account holders and retirements. Also, the amount of active and withdrawn VCCs for each Project is identified.

Through the Registration Platform and having access to a Holder Account can be consulted online:

1. Total number of active VCCs
2. Number of VCCs retired
3. Amount of VCC transferred
4. Transfers Register (original account, destination account, amount, serial, date of the transaction)
5. Retirement Register (Project, end-user, quantity, serial, date)

Additionally, the Public Registry provides relevant information on the custody of VCCs.

8.2.2 VCC are individually identified

The VCC are individually identified through serial numbers. The design of the serials in BIOCARBON REGISTRY platform ensures a unique serial ID.

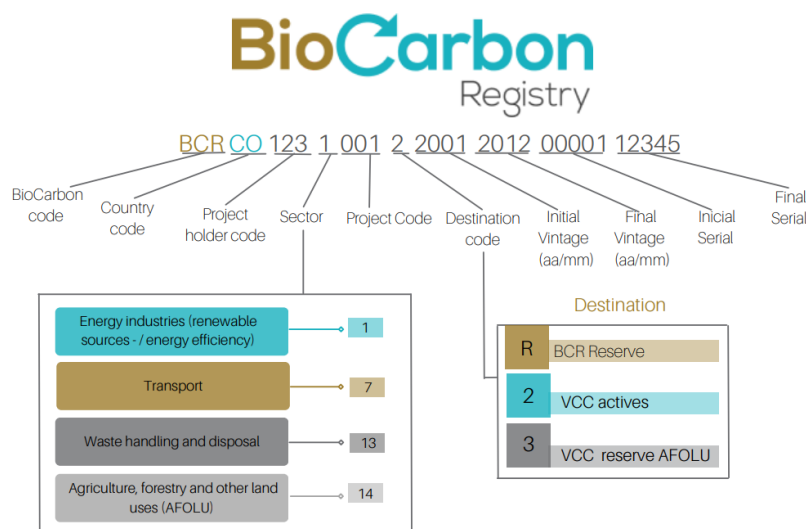


Figure 1: Serial Identification

Through its code, it is possible to trace the origin of the serial, including the Project Holder. Figure 1 describes the information provided by a VCC serial issued by BIOCARBON REGISTRY.

The generation of the BIOCARBON REGISTRY serial through the Registration Platform ensures that:

1. The same serial number shall not be issued more than once;
2. Serials have an assigned destination and therefore cannot be used for other purposes;
3. Once a serial has been withdrawn/cancelled it is deducted from the user's accounting of available VCCs and cannot be used again.

8.2.3 VCC are identified including the project holder

The BCR units (VCC) have clearly identified the project holders (e.g., identification requirements of a registry). See in the figure 1 the third section of the serial number (Project holder code).

To complete the certification and registration of a GHG project, the project holder shall register a verification period by registering their project on the Registration Platform, including the documents required by the online form.

The verification period shall comply with the applicable Standard and Methodology requirements, specifically with the requirements for dates and quantification periods described in section 10.5 BCR STANDARD.

The BIOCARBON REGISTRY team shall thoroughly review the request for registration of a verification period. If the BIOCARBON REGISTRY team confirms compliance with the applicable standards and procedures, and the Project's integrity is verified, the Certification of GHG projects document is issued. It contains general project information, including data related to the market participant, the Project and the validation and verification body.⁹

After determining that the Project meets all requirements, the Registration Platform will issue a unique project reference ID to identify the Project in the registration platform.

8.2.4 Verified Carbon Credits (VCC) issuance

⁹ The BioCarbon Registry team reserves the right to accept or reject the registration of a verification period in the registration platform. If incomplete or inconsistent information is submitted, BIOCARBON REGISTRY shall reject the registration of a verification period until the validation and verification requirements specified in the standard are met.

Once the documentation related to the validation and verification process has been received, the BIOCARBON REGISTRY team evaluates compliance with the Standard requirements and accepts or rejects the issuance of the VCCs.

The issuance of VCCs will only be possible once the verification process and the subsequent evaluation of BIOCARBON REGISTRY's technical team's related documentation are concluded. For this process, the user shall request the issuance of VCCs through the Registry Platform. The number of VCCs issued through the Registry Platform will always be equal to the number of GHG removals or reductions verified by a VVB and approved by BIOCARBON REGISTRY.

The issuance of VCCs is done through the creation of serials. These serials characterize each of the credits, differentiating their destination for VCC actives or VCC reserve AFOLU, their crediting period (year) and their amount per year.

Serials are certified through the GHG Statement's issuance, a document received by the Account Holder that registered the Project, which contains the relevant information on the rights of the VCCs issued and on the project information.

8.2.5 VCC Transfers and Retirements

Market participants make transfers and retirements of Verified Carbon Credits to buyers and other account holders following the allowances assigned to each type of account/user.

Retirements are made and registered through the Registration Platform through a self-management process, carried out by the account holder.

There are four (4) fundamental rules for retirements, controlled from the platform:

1. The system does not allow retirements from the Reserve destination if a verification period after the verification period for which the VCCs were issued has not been recorded;
2. The system has an internal procedure that determines the availability of active credits and, therefore, does not allow retirements of unavailable amounts.
3. The system does not allow retirements of unavailable amounts.
4. The system does not allow you to request a retirement of a serial in the process of being approved for retirement from a previous transaction.

With each Retirement transaction, the system issues a **Retirement Statement** containing all the information about the transaction.

8.3 Provisions in place for avoidance of double claiming

Double claiming might occur when the same emissions reduction is counted twice by both the buyer and the seller. In order to manage double claiming, the BCR program ensures transparency on the use of offset credits under CORSIA facilitating the application of adjustments by countries.

In the before sections was explained how BCR facilitates the traceability and custody of the VCC, as well its identification (BCR serial number ID) which encompasses information of the country in which emission reductions/removals occurred among other related to the project sector, vintage, destination.

Moreover, projects are called to identify relevant NDC targets linked to the project activities including which period is considered applicable for assessing whether a project and its associated emission reductions or removals are covered by NDC targets.

The BCR registry can display additional attributes to identified CORSIA eligible Units, in the public registry. A labeling within the column of “additional certifications” will shows VCC or emission reduction/ removals under CORSIA. As part of the procedures in place BCR request to project holders a Host Country Attestation.

8.3.1 Host Country Attestation

The project holder shall provide the Host Country Attestation from de designated national authority or designated focal point of the host country of the project activity. The template for this letter is provided in Annex A of this document.

This letter should be provided/uploaded during the Project Registration process in the BCR platform. For CORSIA Eligible units, before authorizing VCC retirements for CORSIA the BCR team will crosscheck that the project holder uploads the attestation letter.

The Letter of Authorization shall contain, at minimum:

- (a) The project name and identification number
- (b) Project sector
- (c) Project activity
- (d) Project location (country)
- (e) Project participants

- (f) Emission reductions quantification period
- (g) Details of the signatory of the declaration (name, identification number, position, entity, contact details)

By mean this Host Country Attestation, the focal point shall authorize the project holder and acknowledge that the project activity reduces emissions in the host county. Also, recognizes that the BCR Program to which the letter is provided has intends to issue VCC for their emissions reductions.

Also, the focal point declares that the project is duly registered in the public registry system of our country (link to web address) and, similarly, following the provisions of Article 6.2 of the Paris Agreement, in matters related to compliance with the Nationally Determined Contribution and mitigation purposes, the project holder may, under the provisions of Carbon Offsetting and Reduction Scheme for International Aviation (CORSA) use the VCCs issued by BioCarbon Registry to offset emissions from voluntary buyers of carbon credits, in the international market (See Annex A).

By this declaration, the Government of Country Name confirms that:

1. It has ratified the Paris Agreement on dd/mm/yyyy and has submitted its Nationally Determined Contribution (NDC);
2. The mitigation results outlined in this statement will follow all the considered provisions described in Article 6.2 of Paris Agreement;
3. The entity in charge of climate change management will follow all requirements established by the United Nations Framework Convention regarding the Paris Agreement and other related international agreements.

Authorize the use of the emission reductions, issued as offset credits to project, by user in order to meet offsetting requirements of either CORSA or article 6.2 or voluntary buyers requiring the corresponding adjustments to be applied by host country;

Declare that the host country will not use the project's emission reductions to track progress towards, or for demonstrating achievement of its NDC and will account for their use for either international mitigation purposes or other purposes, by applying corresponding adjustments in section B of Annex 1 of COP26 decision /CMA.3 on Article 6.2.

In the event that the "Attestation Country" is not submitted despite the fact that the project and the units meet the CORSA eligibility criteria, the program reserves the right

to control/deny the use of the emissions units for compensation purposes within the scheme of Aviation - CORSIA.

8.3.2 Double claiming avoidance with Emissions Trading System (ETs)

BCR relies on program provisions and procedures to avoid double claiming of the VCC issued by the BCR program. The aspects described in this tool seek to reduce the risk of potential overlap of projects with targets NDC targets¹⁰. It's necessary to mention that as per the COP26 decision on Article 6.2, it is the host country's responsibility to ensure that no double claiming is done under NDCs for emission reductions. The host country must ensure that no emission reductions from the corresponding monitoring period of the project are claimed under NDC.

One of the provisions in place at the BCR Program, is related to the declaration/ attestation submitted by governments, which declares that the host country will not use the project's emission reductions to track progress towards its NDC and will account for their use for either international mitigation purposes. This measure is part of the provisions applicable for mandatory domestic climate change mitigation and targets to qualify offset credits for use under CORSIA.

Based on the options described in the ADC guidelines, the measure that BCR can implement after confirmation of the program endorsement to CORSIA, is "not qualifying offset credits for use under CORSIA if non-GHG targets cover the associated activities or emission reductions or removals."

BCR considering the governments' positions and responses to the Host Authorizations letter, will determine whether a corresponding adjustment would be warranted and either qualify or disqualify the credits as eligible for use under CORSIA, depending on the response from the host country.

8.4 Reporting and other good practices for ADC

8.4.1 Reporting

As a measure to ensure transparency BCR is eager to report annually the total issued offset credits by country, calendar year, of the quantity of VCC issued for which countries have authorized the use of the associated emission reductions or removals by other countries or entities "Attestation Letter" also emission units (VCC) retired to meet offsetting requirements under CORSIA's purposes and other different CORSIA. These measures will facilitate countries the application of adjustments.

¹⁰ BCR does not accept projects already showing results for non-GHG metrics such as renewable energy targets.

8.4.2 **Anti-corruption policies and practices**

The actions of BioCarbon Registry and the operations related to the Registry System are aligned with the binding definitions established in the Anti-bribery Policy of the company. The Anti-Corruption rules, regulations and standards of BCR include provisions that promote accountability and governance and as such BIOCARBON REGISTRY has put comprehensive and effective governance measures in place to meet these provisions. The aim of such measures is to ultimately minimize the fraud, transnational bribery and corruption risks. This Policy is also intended to provide practical guidance for handling many of the ethical issues our directors and employees may face in discharging their professional duties.

It is important to note that the mentioned policy applies to all personnel within **BioCarbon Registry** (meaning directors, officers, employees, temporary staff or workers, and volunteers) and to all our third parties (business partners, collaborators, intermediaries, consultants, clients, suppliers, agents, commercials, subcontractors and professional service providers, among others). Adherence to this Policy is mandatory and non-compliance could lead to disciplinary action as per the Anti-bribery Policy and the BCR Disciplinary Policy and Procedures or to the termination of the relationship with the third-party.

In the same order, the policy includes the extensive controls, procedures and measures used by BIOCARBON REGISTRY to mitigate fraud, transnational bribery and corruption risks and to comply with its Code of Ethics, the Anti-Corruption laws, regulations and standards of BCR.

In addition to these, BCR also carry out compliance monitoring processes, with a view to ensuring that the measures and controls in place are adequate, effective and compliant at all times. The Compliance Officer has the overall responsibility for assessing, testing, reviewing and improving the procedures, measures and controls in place. Anti-Corruption Risk Assessments are frequently reviewed and updated as per the Compliance Officer Manual.

8.5 **Security of the Registration System**

BioCarbon Registry is developed with secure code programming and OWASP3 policies and undertakes the necessary measures to ensure that the registry meets all the conditions for the security provisions. The BIOCARBON REGISTRY platform has been developed considering the policies of secure code and a software that takes into account security, and uses the following components:

- (a) SSL certificates for encryption and protection of information;

- (b) Google reCAPTCHA security system to identify login attempts by robots or humans to prevent spam attacks;
- (c) Identity verification via email;
- (d) Secure password standards (must be created with a minimum of characters, numbers and symbols);
- (e) Login blocking control by number of unsuccessful attempts;
- (f) Hosting in secure servers of recognized providers and high security standards, in addition to recurrent automatic backups to ensure the reliability of the information and traceability;
- (g) Firewall application to prevent unwanted access to the information registration system;
- (h) Ongoing malware analysis and detection;

Software for the detection of vulnerabilities in web assets that generates constant reports in order to implement the necessary corrective measures at the code level.

8.5.1 BlockChain Technology

Security protection with BlockChain technology provides immutableness to the valuable information contained in the Registry Platform.

The registries are based on Hyperledger Fabric technology, including all the security mechanisms that guarantee the integrity of the data stored in the BlockChain.

The Stamping.io link is one of the BlockChain entities that have nodes deployed on top of LACChain. LACChain is a global partnership led by the Inter-American Development Bank Group's Innovation Lab (IDB Lab) for the development of the BlockChain ecosystem in Latin America and the Caribbean.

All processes carried out on the Platform are processed on the BlockChain and users can download BlockChain certificates, also in real time.

Information about BCR on the BIDLab BlockChain can be found at the following link: <https://www.lacchain.net/projects/BioCarbon-Registry>

8.5.2 Login verification code (PIN)

The system generates a verification code so that only the authorized person can enter the Platform. The dynamic verification PIN is sent to the registered e-mail address each time the user needs to enter the Platform.

8.5.3 SSL Certificate

The BIOCARBON REGISTRY website is SSL certified. Thus, the information is encrypted and protected (Secure Sockets Layer). The certificate is a digital title that authenticates the identity of a website and encrypts with SSL technology the information sent to the server.

8.5.4 Google ReCAPTCHA

For user registration, Google ReCAPTCHA protects the site from spam and abuse, identifying human patterns, ruling out the possibility of a robot logging into the Platform.

8.5.5 Identity validation

The registration platform performs identity validation through e-mail verification for user registration.

8.5.6 Secure password

Multi-factor authentication requiring the user to create a secure password that cannot be detected by outsiders (greater than 8 characters, numbers and symbols).

8.5.7 Control of login attempts

Functionality to block users after 3 unsuccessful attempts to enter the BIOCARBON REGISTRY Software. The user only can try again after 1 hour.

8.5.8 Record of last login

Functionality to make visible to the BIOCARBON REGISTRY Software user when was the last login. This way the user can see if someone is accessing his account without authorization.

8.5.9 Automatic Back Up

Programming of 3 daily automatic database backup.

8.5.10 Software development

Development based on secure code and policy OWASP: latest stable and verified version of the Laravel framework for development based on programming.

8.5.11 Cyber threat control

Firewall and preventive and corrective maintenance of cyber threats.

The preventive and corrective maintenance of cyber threats include (among others): prevention of unauthorized entry to the website as plugins and code (hacking), elimination of recurrent hacking, and prevention of modification of site content. Maintenance also includes review of the operating system configurations, Apache and PHP, scanning of vulnerabilities, analysis of security into all sites (Blackbox, Greybox, Whitebox), detection and identification of malware present on the server, implementation of recommendations and server configuration settings, and site remediation.

8.5.12 Web application security testing

The application used by BCR automatically creates a list of all websites, applications, and APIs, and keeps it up to date. That means it doesn't leave potential entry points unscanned and vulnerable to attack.

The system crawls every corner of the applications and scan the following: (a) SPAs, script-heavy sites, and applications built with HTML5 and JavaScript, (b) record macros to automate scanning in password-protected and hard-to-reach areas, and (c) the unlinked files in the website.

The application is capable to find the security flaws that put the registration system at risk, including zero-days. The security assessment can detect vulnerabilities in websites based on third-party software such as WordPress, Joomla or Drupal, as well as websites designed by you or your contractors, even if they are very complex and require login. The leader TIC of BIOCARBON REGISTRY generate executive reports, as well as specialized compliance reports: HIPAA, PCI-DSS, ISO/IEC 27001.

8.6 BCR and integration with other registries

BioCarbon Registry has strategic alliances with technological leaders in terms of data storage and transactions that are part of the registry, which is why through Stamping.io we can have block chain support for our transactions in nodes on LACChain, Thus, having the services of the Blockchain with DLT technology that allows the creation of digital, secure and synchronized information records, which are continuously updated, recording verified transactions that are tamper-proof and, therefore, immutable,

transparent and integral. In addition to having industry-certified server providers where our centralized database is hosted with daily security backups. Our logs are based on Hyperledger Fabric technology, ensuring that all data is recorded (both at rest and in motion), using security technologies such as SSL, 256-bit asymmetric key encryption, and HTTPS/TLS/SFTP protocols. Industry standard technologies such as JavaScript Object Notation (JSON) are used for data exchange via the Application Programming Interface (API).

The BioCarbon Registry Platform has the capacity to integrate safely with other registries through Application Programming Interface (API), moreover, BCR relies on its own Registry System, which ensures all the important data is encrypted. Moreover, the registration platform has been developed in VULTR, a recognized server provider with high security standards, based on secure code programming and OWASP (Open Web Application Security Project) policies.

In terms of LACChain, it is internationally renowned and has developed an active strategy for a globally known standardization.

Infrastructure recognized by the ITU, the specialized standardization agency of the UN, as one of the fourteen reference blockchain architectures worldwide.

Alignment in accordance with the technical specifications of architecture, taxonomy, and ontology of the ISO TC307 technical committee, norms TS 23257 & TS 23258

LACChain ID recognition as a multi-jurisdictional solution in the technical report ISO/TR 23249.

LACChain DLT recognition with digital identity protocols on ISO/TR 23249:2022

Recognition of the strategic orchestration figure in blockchain and DLT governance in TS 23635.

More information regarding procedures in place for Cyber security can be consulted on the BCR website and the **Handbook of good practices registry Platform**.

9 Prohibition of double counting and liability

In accordance with the provisions of Clause 4 of the Framework Contract for certification and registry of GHG projects, the BCR Registry prohibits incurring during the term of the contract, or subsequent thereto in connection with any VCC issued under the contract, in a situation of double accounting proscribed by the BCR applicable regulations.

Additionally, for the prevention of any doubt, it will be understood that there is a double accounting situation in any case in which the registry user¹¹ has requested the registration of any VCC issued by BIOCARBON REGISTRY under the contract, in another registry or certification entity, without the registry user or the project holder, as appropriate, had advanced before such other registry the previous certification process of the project in relation to which new VCCs are issued. This shall apply even in the event that the registry user had advanced the prior retirement process in the BCR Registry, of the VCCs issued by BCR.

The Parties recognize that the activities constituting double accounting referred to in the contract clause shall not be interpreted in a restrictive sense. Therefore, it shall be understood that the client is involved in a situation of double accounting in any case in which, on the occasion of the use or transfer of the VCCs, any situation arises that generates an erroneous analysis of the real progress of the compliance with the global objective for the reduction of GHGs.

BioCarbon Registry will be liable to the client and third parties for the non-acceptance and/or rejection of the deductibility of the Certified Emission Reductions, when this rejection comes from causes attributable to BioCarbon Registry.

In all cases, following the requirements of the COP26 decision on Article 6.2 is clear that the host country is liable to ensure that no double claiming is done under NDC for the emission reductions. In this sense, signing the Host Country Attestation for registered projects in BioCarbon Registry the host country shall ensure that no emission reduction from the corresponding monitoring period of project is claimed under NDC.

In consequence, all the reporting requirements (annual and regular) as per of Annex to Article 6.2 decision 21 are applicable to the host country, including corresponding adjustments are additions and subtractions that a country applies to the annual level of the indicator it uses to track progress and achievement of its NDC, e.g., the country's annual GHG emissions level.

10 Other program documents

The process for avoiding double counting at BIOCARBON REGISTRY is covered by the program documents. The current versions of the BCR Program documents, among others, are the following:

¹¹ Referred as client in the framework agreement

BIOCARBON REGISTRY®. 2023. BCR STANDARD. From differentiated responsibility to common responsibility. Version 3.0. March 7, 2023.

BIOCARBON REGISTRY. 2023. BIOCARBON REGISTRY STANDARD OPERATING PROCEDURES. Version 1.0. January 13, 2023

BIOCARBON REGISTRY. BCR HANDBOOK AND GOOD PRACTICES. REGISTRY PLATFORM v4.0. March 13, 2023

BIOCARBON REGISTRY. 2023. VALIDATION AND VERIFICATION MANUAL. GHG Projects. Version 2.1. February 13, 2023

Annex A. HCA. National Emissions Reductions Registry

Host Country Attestation¹² National Emissions Reductions Registry (Version 1.0)	
SECTION 1: PROJECT DETAILS	
A. Project Name:	
B. Sector: <i>Select the relevant checkbox</i>	<input type="checkbox"/> Energy <input type="checkbox"/> Transport <input type="checkbox"/> Waste <input type="checkbox"/> AFOLU
C. Project activity:	
D. Project location (Country):	
E. Project participants:	
F. Emissions reduction quantification period:	
G. Other certifications:	
SECTION 2: DETAILS OF THE SIGNATORY OF THE DECLARATION ¹³	
A. Name:	
B. Identification Number:	
C. Position:	
D. Entity:	
E. Contact details:	Phone:

¹² This statement is required in accordance with BioCarbon Registry's requirements for certification and registration of projects under the BCR Standard. BioCarbon Registry is entitled to legally rely on this declaration upon signature and submission.

¹³ Duly authorized to sign this statement.

	E-mail:
	Address:
SECTION 3: STATEMENT ON THE REGISTRATION OF THE PROJECT IN THE NATIONAL REGISTRATION SYSTEM	
<p>On behalf of the Government of name of the country, I declare that the mitigation results corresponding to the emission reductions/removals for the monitoring period (dd/mm/yyyy - dd/mm/yyyy) of the project Name of the project, are duly registered in the public registry system of our country (link to web address).</p> <p>Similarly, following the provisions of Article 6.2 of the Paris Agreement, in matters related to compliance with the Nationally Determined Contribution and mitigation purposes, the project holder may, under the provisions of Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) use the VCCs issued by BioCarbon Registry to offset emissions from voluntary buyers of carbon credits, in the international market.</p> <p>By this declaration, the Government of Country Name confirms that:</p> <ol style="list-style-type: none"> 1. It has ratified the Paris Agreement on dd/mm/yyyy and has submitted its Nationally Determined Contribution (NDC); 2. The mitigation results outlined in this statement will follow all the considered provisions described in Article 6.2 of Paris Agreement; 3. The entity in charge of climate change management will follow all requirements established by the United Nations Framework Convention regarding the Paris Agreement and other related international agreements. 	
Signature:	Date: DD/MM/YYYY

Annex B. Summary information of provisions of the BCR Program for Avoiding double counting

Status	Provisions in place for Avoiding Double Counting
Program information available	The BCR program informs about policies and procedures for avoiding double counting, specifying along with the conditions or circumstances in which they will be followed.
In place	Project information: This information is public and includes, among other aspects, the project owners, the emission sources, sinks, the calculation of the project' s emission reductions or removals, and the country and geographical location where the project is implemented
In place	The BCR program tags each offset credit (Verified Carbon Credit) with a unique identifier (BCR Serial ID)
In place	The associated project, including unique identifying information about the project, includes information related to Country, vintage, and where emissions reduction/removals occurred.
In place	Publicly indication of whether the offset credit has been retired and the purpose and date of the retirement
In place	Procedures in place to avoid a project are registering in other programs at the same that at BCR
In place in a test environment	The BCR registry indicates whether a VCC is qualified to be used under CORSIA
Information regarding anti-corruption and the code of ethics is available	Strong anti-corruption policies are in place that orientate the program procedures and ensure alignment with provisions regarding avoiding double counting and other requirements related to carbon rights and respect for national legislation.
In place public registry.	The BCR registry indicates whether a registered project has an Attestation Letter issued by the host country.
In place in a test environment ¹⁴	Additional labeling for CORSIA Emissions Unit Eligibility Criteria concerning double claiming.
Provision of the program	Yearly Reporting to countries that signed Host Attestation letter.
Program -Registry developed	BCR program identifies whether an adjustment is needed to avoid double claiming concerning using the offset credits under CORSIA.
Under analysis by the program and future updates will depend on the progress of this element in the VCM agenda.	Indication of whether associated emission reductions are covered by a GHG target communicated in a country' s NDC.

¹⁴ The BCR Registry system has this option ready to be activated for poos-endorsement (test environment)

History of document

Type of document

BCR Tool AVOIDING DOUBLE COUNTING (ADC). BCR avoid double counting of emissions reductions.

Version	Date	Nature of the document
Version 1.0	March 9, 2023	First version of the Tool.