

**Livestock Protocol**

**Project Data Report**

The Project Data Report (PDR) Template must be completed for every reporting period. This template is only intended as a guide and provides the minimum required information to be reported for livestock projects *implemented in Latin America and the Caribbean (LAC) and the United States (U.S.)*. The project developer has the option to include additional information at their discretion.

This is an interactive form. Once this form is completed, please upload it to the Reserve’s registry. All fields must be completed, even if the answer is mentioned elsewhere. If any field does not apply, please fill N/A in the corresponding space.

*Please note that this document will be made publicly available once the project has registered credits for the reporting period. If there is proprietary information, please provide a redacted and non-redacted version for review.*

|  |  |
| --- | --- |
| **Account Holder** |       |
| **Project ID and Name** |       |
| **Protocol Name and Version** | [ ]  U.S. Livestock Protocol V.      [ ]  Mexico Livestock Protocol V.      [ ]  Dominican Republic Livestock Protocol V1.0[ ]  Argentina Livestock Protocol V1.0      |
| **Current Reporting Period Dates** |       |
| **Claimed CRTs**  |       |
| **Date Submitted** |       |

# Introduction

*Provide a general description of the project.*

# Project Definition

## Project Definition

*Provide information on the type of manure collection system (e.g., scrape, flush, pull plug pit), type of digester, method of destruction, average number of each livestock category, fraction of manure sent to each storage/treatment system, frequency of lagoon cleanout, etc.*

## Project Developer

*List the entities which have any amount of legal control over the project boundary and identify the mechanism through which the Account Holder has legal authority to implement the project. In addition, please state which entity will be designated as the project developer and will sign the Attestation of Title. If the Account Holder is not the entity with explicit title, explain how they obtain the right to operate the project on the farm operator’s behalf (e.g., contracts).*

# Project Eligibility

## Project Location

*Provide the location of the livestock operation.*

## Project Start Date

*Briefly describe the documentation used to demonstrate the date at which the biogas control system became operational, i.e., date of the installation of the biogas control system. Provide information on the initial start-up testing period including the length of the start-up period (must be less than 9 months), if applicable. Include what documentation will be provided to the verification body to demonstrate the length of the start-up period, which may include utility data, invoices, and correspondence.*

## Project Crediting Period

*State the project’s crediting period as defined in Section 3.3 of the Protocol.*

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## Anaerobic Baseline

*Confirm that the pre-project anaerobic ponds/lagoons meet the anaerobic baseline requirements (i.e., depth of 1 meter at minimum). If there was a pre-project cover, provide the date and purpose of installation. If the project is a greenfield, provide data on the common storage/treatment systems at other livestock operations in the industry and geographic region (local and/or regional) that demonstrates that uncontrolled anaerobic storage and/or treatment of manure is common practice.*

## Additionality

### Performance Standard Test

*The project automatically passes the Performance Standard Test (PST) by installing a biogas control system. Briefly describe the biogas control system in place.*

### Limits on Credit Stacking

*Disclose if the project is seeking multiple forms of credits or environmental commodities at the farm operation, including information of the other program, credits received, time frame reporting under the program, and if the project received approval from the Reserve to report under both programs. If not, state “not applicable.”*

### Legal Requirements Test

*Attest that the project activities are not legally required. Identify any national, state/provincial, or local regulations or legally binding mandates that are relevant to the project, as well as the regulatory bodies with authority over the facility. Include how the project developer will monitor changes in the legal requirements test. If a regulatory agency with authority over the livestock operation passes a rule obligating the installation of a biogas control system, describe the requirement and the date at which it is legally required to be operational.*

## Regulatory Compliance

*Provide the national, state/provincial, and/or local regulatory agencies with jurisdiction over the livestock operation and any applicable laws the operation is obligated to meet. Disclose any instances of non-compliance during the reporting period and whether it’s believed to be project related, administrative, “acts of nature,” or outside of the project boundary. Describe how the project intends to monitor for compliance during future reporting periods. Laws shall include air, water quality, safety, animal welfare, etc.*

## Social and Environmental Safeguards

### Free, Prior, and Informed Consent (FPIC)

***LAC only –*** *Briefly describe the information presented and how it was presented (e.g., power point presentation, report(s) to the livestock operator prior to project approval. Information should include, at a minimum, concepts of climate change and carbon markets, requirements associated with the project (including monitoring, reporting, and verification), the estimated costs and benefits associated with the livestock project, division of costs and distribution of benefits, and the carbon pricing estimates. Provide the name of the individual(s) and their roles that participated in the process. The documentation presented to the livestock operator when receiving approval for listing must be provided to the Reserve and the verifier during the verification of the reporting period.*

### Ongoing Notification, Participation, and Documentation

***DR and ARG –*** *Briefly describe how the ongoing notification, participation, and documentation requirements will be met. Project developers must review ongoing project activities, credits issued, and financial information (purchase agreements, project finances, and ongoing benefit sharing) on an annual basis. Please include dates or potential dates of when the information will be reviewed with the farm operator, as well as the format (e.g., presentation or report), language, and signature of the livestock operator.*

### Social Safeguards

***US and MX –*** *Confirm below that the project is in material compliance with all labor and safety laws for the verification period.*

### Environmental Safeguards

*Confirm below that the project is in material compliance with all environmental regulations in the verification period, and how the project is designed and implemented in such a way to mitigate potential releases of pollutants that may cause degradation of the quality of soil, air, and surface and groundwater. Briefly describe how the project plans to meet the environmental safeguards, including air and water quality, mitigating pollutants, and animal welfare.*

# GHG Assessment Boundary

*Below is the SSRS included in project quantification. For the full GHG assessment boundary and justification, refer to Table 4.1 No changes to the table below are required.*

| **SSR** | **GHG Source** | **Gas** | **Baseline (B) or Project (P)** |
| --- | --- | --- | --- |
| 2 | Emissions from mobile and stationary support equipment | CO2 | B,P |
| 3 | Emissions from mechanical systems used to collect and transport waste (e.g., engines and pumps for flush systems; vacuums and tractors for scrape systems) | CO2 | B,P |
| Vehicle emissions (e.g., for centralized digesters) | CO2 | B,P |
| 4 | Emissions from waste treatment and storage including anaerobic lagoons, dry lot deposits, compost piles, solid storage piles, manure settling basins, aerobic treatment, storage ponds, etc. | CH4 | B,P |
| Emissions from support equipment | CO2 | B,P |
| 5 | Emissions from the anaerobic digester due to biogas collection inefficiencies and venting events | CH4 | P |
| 6 | Emissions from the effluent pond | CH4 | P |
| 7 | Vehicle emissions for land application and/or off-site transport | CO2 | B,P |
| 9 | Emissions from combustion during flaring, including emissions from incomplete combustion of biogas | CH4 | P |
| 10 | Emissions from combustion during electric generation, including incomplete combustion of biogas | CH4 | P |
| 11 | Emissions from upgrading biogas for pipeline injection or use as CNG/LNG fuel | CO2 | P |
| 12 | Emissions from combustion at boiler, including emissions from incomplete combustion of biogas | CH4 | P |
| 13 | Emissions from combustion of biogas by end user of pipeline or CNG/LNG, including incomplete combustion | CH4 | P |

# Quantifying GHG Emission Reductions

*The project may utilize the Calculation Tool or develop their own calculation tool. Please provide the calculation tool used to calculate GHG emission reductions for each reporting period to the verifier and to the Reserve.*

## Modeling Baseline and Project Emissions

### Livestock Population and Mass

*Provide the monthly average population and annual average weight of each livestock category. If available, site-specific weights are preferred. Internal weight records and herd count data, for example, should be provided to the verifier.*

### Site-Specific Determination of Maximum Methane Potential – Bo,L

***Optional –*** *For projects utilizing site-specific maximum methane potential values, briefly describe how the project met the requirements in Section 6.1 of the Protocol. Include the information used to demonstrate that the sampling periods exhibited an average- to below-average monthly milk production and provide the report to the verifier. Provide the location of the laboratory and how it meets the requirements in the Protocol and how the integrity of the sample was maintained throughout the chain of custody and provide proof to the verifier. Disclose what value of the maximum methane potential was used for project quantification. If utilizing default values, state “not applicable” below.*

### Manure Management Systems

*List the portion of manure from each livestock category to each manure management system component (in terms of percent) relative to the total amount of waste produced by each livestock category. Provide internal records demonstrating the fraction of waste to each system to the verifier.*

### Methane Conversion Factor

*Provide the climate zone to which the project is located and the MCF value(s) used for quantification. Refer to Table B.4 of the protocol for the MCF value for the project’s manure management system based on climate zone.*

### Modeled Baseline Methane Emissions

*Provide the modeled baseline methane emissions (in tCO2e) calculated for the reporting period. Include the result for the variables below and repeat for each livestock category.*

|  |  |
| --- | --- |
| **Vintage:**  | **Vintage:**  |
| Baseline methane emissions from anaerobic storage/treatment systems: tCH4 | Baseline methane emissions from anaerobic storage/treatment systems: tCH4 |
| Baseline methane emissions from non-anaerobic storage/treatment systems: tCH4 | Baseline methane emissions from non-anaerobic storage/treatment systems: tCH4 |
| Modeled baseline methane emissions: tCH4 | Modeled baseline methane emissions: tCH4 |

### Methane Emissions from Venting Events

*If methane was venting uncontrolled from the biogas control system during the reporting period, disclose the number of venting days, maximum biogas storage of the BCS, and average total flow of biogas from the digester for the entire week prior to the venting event. Include the estimated methane emissions from venting events calculated per Equation 5.7 of the Protocol.*

|  |  |
| --- | --- |
| **Vintage:**  | **Vintage:**  |
| Days of venting:  days | Days of venting:  days |
| Average total flow: m3 | Average total flow: m3 |
| Maximum storage:  m3 | Maximum storage:  m3 |
| Concentration of methane before venting event:   | Concentration of methane before venting event:   |
| Estimated methane emissions from venting: tCH4 | Estimated methane emissions from venting: tCH4 |

### Modeled Project Methane Emissions

*Disclose the estimated project methane emissions from the biogas control systems (Equation 5.6), methane emissions from the biogas control system effluent pond (Equation 5.8), non-biogas control systems (Equation 5.9), and the total project methane emissions (Equation 5.5).*

|  |  |
| --- | --- |
| **Vintage:**  | **Vintage:**  |
| Methane emissions from BCS:  | Methane emissions from BCS: tCH4 |
| Methane emissions from BCS Effluent Pond: tCH4 | Methane emissions from BCS Effluent Pond: tCH4 |
| Methane emissions from non-BCS Related Sources: tCH4 | Methane emissions from non-BCS Related Sources: tCH4 |
| Project Methane Emissions: tCH4 | Project Methane Emissions: tCH4 |

### Metered Methane Destruction Comparison

*Estimate the metered methane destruction during the reporting period (Equation 5.10) and compare it to the estimated project methane emissions. State whether the modeled or metered value will be used for crediting.*

|  |  |
| --- | --- |
| **Vintage:**  | **Vintage:**  |
| Metered Methane Destruction: tCH4 | Metered Methane Destruction: tCH4 |
| Modeled Methane Destruction: tCH4 | Modeled Methane Destruction: tCH4 |
| Conservative Baseline Methane Emissions Method: | Conservative Baseline Methane Emissions Method: |

## Baseline and Project Carbon Dioxide Emissions

*Describe the documentation used to estimate CO2 emissions from electricity consumption and mobile and stationary sources in the baseline and project scenarios. Include the source, fuel type, annual fuel quantity, net calorific values, and emission factors. Disclose the net calorific values provided by the fuel supplier, laboratory analysis, or jurisdictional value, or state whether default values were used. If project CO2 emissions were estimated to be equal to or less than 5% of the total baseline emissions, then summarize how it was calculated, and provide documentation to the verifier.*

## Final CRT Summary

*Summarize the final result for determining the net GHG Reductions.*

|  |  |
| --- | --- |
| **Vintage:**  | **Vintage:**  |
| Baseline Emissions:  tCO2e | Baseline Emissions:  tCO2e |
| Project Emissions: tCO2e | Project Emissions: tCO2e |
| Net GHG Reductions: tCO2e | Net GHG Reductions: tCO2e |

# Variance Request

*If a variance was requested during the reporting period, provide a brief description of the rule/requirement in the protocol in question, the conditions of the determination, and the date of the variance request and determination.*

Date of Variance Request:

Protocol Section and Rule/Requirement:

Date Reserve Issued Determination:

Variance Conditions:

# Project Documentation

*The following documents are required to be submitted for project registration. In cases where there is proprietary information, please provide unredacted and redacted versions. If additional documents were submitted, please include the document title and its associated file name.*

|  |  |
| --- | --- |
| **Document**  | **File Name** |
| Calculation Tool |       |
| Project Diagram |       |
| Attestation of Title |       |
| Attestation of Voluntary Implementation |       |
| Attestation of Regulatory Compliance |       |
| Monitoring Plan |       |
| Project Contributions to the U.N. Sustainable Development Goals Report Tool (if applicable) |       |
| Project Data Report (this document) |       |
| Variance Request |       |
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