International Carbon Registry

Methodology Name

Sector

Summary

Provide a brief summary of the methodology, no more than 500 letters

This methodology is prepared by Author

[Email address]

Basic Information	
Methodology Name	Methodology Name
Version	1.0
Type	Methodology/methodology revision
Date of Issue	Date
Sector	Sector
Prepared by	Author
Contact	Full Address, Telephone, Email, Website

Instructions for completing the methodology template are in placeholder text in this template which must be followed. In order to complete the template requirements set out in ICR Requirement Document, ICR Methodology Document, ISO 14064-2 and other normative references must be refered. Instructions are to serve as a guide and do not represent an exhaustive list of the information that must be provided under each section of the template. The methodology shall use clear and concise language.

The methodology language shall be normalized and according to ISO standard where the following verbal forms shall be used: “shall” indicates a requirement, “should” indicates a recommendation, “may” indicates a permission, “can” indicates a possibility or a capability.

Please complete all sections of this template using preformatted text. If a section is not applicable, justify why the section is not applicable but do not delete the section from the final document. Delete all instructions and placeholder text, including this text, from the final document.

1. Methodologies

1.1 Other Methodologies

Using the table below, list all reviewed methodologies that are similar to the proposed new methodology. Discuss and argue the difference from the proposed new methodology and -, amend as needed. Provide a link to the referenced methodology.

Approved and pending methodologies under ICR Program and/or other GHG programs, that fall under the same sectoral scope were reviewed to determine whether an existing methodology could be reasonably revised to meet the objective of this proposed new methodology. The methodologies identified are listed in the table below.

Methodology	Title	GHG Program	Comments
Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

1.2 Sources

Identify methodologies on which the proposed methodology is based upon along with tools/ modules/ regulation/ standards. Provide links.

This methodology is based upon the following methodologies:
XXXXXX "Title of the methodology" prepared by ### version X
This methodology further refers to the following tools/modules/regulation/standards:
XXXXXX "Title of the tool/module/regulation/standard" prepared by ### version X

2. Summary Description of the Methodology

Provide a summary description of key elements of the proposed new methodology, including project activities of the applied methodology and how the proposed methodology:

1. Chooses the baseline scenario;
2. Demonstrates additionality;
3. is applied and methodological steps;
4. Identifies and collects monitoring data;
5. Calculates emissions mitigations.

3. Definitions

Use the formatting below to provide definitions of terms and acronyms used in the methodology. Do not use terms defined by ICR or in ISO 14064-2. Amend as needed.

For the purpose of this methodology, the following definitions apply:

Defined Term
Definition.

4. Applicability Conditions

Set out specific applicability criteria that define project eligibility for application of the methodology, such as geographic location, technology type, historical land use, any other conditions under which the methodology is applicable, and any exclusion of the application of the methodology.

This methodology applies to project activities that….(a description of the project activities).

The methodology is further applicable under the following conditions:

- Condition A
- Condition B
- Condition C

The methodology is not applicable under the following conditions

- Condition A
- Condition B
- Condition C

5. Boundary

Describe the boundary with regards to the spatial extent and identify the GHG SSRs, controlled by the project proponent, related to the project or affected by the project) and are included in or excluded from the project boundary. Specify if any GHG SSRs are optional. Include any procedures and/or diagrams, as appropriate.

The spatial extent of the project boundary encompasses ….

The GHG included or excluded from the project boundary (baseline and project activities) are listed in the table below.

Baseline			
Source	**GHGs**	**Include?**	**Justification/Explanation**
Source 1	CO_2		
	CH_4		
	N_2O		
	…		
Source 2	CO_2		
	CH_4		
	N_2O		
	…		
Source …	CO_2		
	CH_4		
	N_2O		
	…		

Project			
Source	**GHGs**	**Include?**	**Justification/Explanation**
Source 1	CO_2		
	CH_4		
	N_2O		
	…		
Source 2	CO_2		
	CH_4		
	N_2O		
	…		
Source …	CO_2		
	CH_4		
	N_2O		
	…		

6. Baseline Scenario

Describe the criteria and procedures for identifying baseline scenarios and determining the most plausible scenario. This may be done within the methodology or through reference to other tools.

The baseline is the scenario that reasonably represents the anthropogenic emissions by GHG SSRs that would occur in the absence of the project activity applying the methodology. Different scenarios may be explained as potential developments of the conditions existing before the implementation. The continuation of a current activity could be one of them; implementing the proposed project activity without carbon financing may be another, others could also be envisaged alternatives.

The procedure for determining the most likely baseline scenario should be a systematic, step-by-step approach. Explain why the proposed procedure for determining the baseline scenario is appropriate for the project type and applicability conditions. The procedure should describe a process for identifying options to be considered as plausible candidate baseline scenarios. Justify that the range of options to be considered as plausible baseline scenarios is sufficiently comprehensive. Baseline methodologies shall require a narrative description of all reasonable baseline scenarios. Ensure consistency between the baseline scenario derived by the procedure and the procedure and formulae used to calculate the baseline emissions. The procedure should indicate for which baseline scenarios the overall methodology is applicable.

For the application of the methodology the identification of the baseline scenario shall follow the following steps:…..

7. Additionality

Provide systematic step-by-step criteria and procedures for determining whether or not the project activity is additional. The methodology must clearly state the purpose of the application of the methodology and what information that must be presented in the Project Design Description in order to make a logical and well-substantiated case for the project's additionality. This may be done within the methodology or through reference to an approved additionality tool.

8. Quantification of GHG Emission Mitigations

8.1 Baseline Emissions

Describe the criteria and procedures, including relevant equations, for quantifying GHG emissions for the selected GHG SSRs for the baseline scenario.

Elaborate all formulation used to estimate, measure or calculate the project emissions, baseline emissions and leakage. Be specific and complete, so that the procedure can be carried out in an unambiguous way, replicated, and subjected to validation and/or verification study:

i. Explain the underlying rationale for algorithm/formulae (e.g. marginal vs. average, etc.);
ii. Use consistent variables, equation formats, subscripts, etc. and number all equations;
iii. Define all variables, with units indicated;
iv. Justify conservativeness of procedures and to the extent possible, include methods to quantitatively account for uncertainty in key parameters;

Ensure equations are provided to cover all GHG SSRs set out in the Project Boundary section above. Include details to describe the context of equations. Use appendix for detailed explanations if needed.

Use the format below for specifying equations and defining the associated parameters and variables, including the unit of measure. Ensure equations are numbered.

Baseline emissions are calculated as follows:

$$BE_y = BE_{FC_y} + BE_{EC_y} + \ldots \quad (1)$$

Where:

BE_y = Baseline emissions in year y (tCO_2e)
BE_{FCy} = Baseline emissions from fossil fuel combustion in year y (tCO_2e)
BE_{ECy} = Baseline emission from electricity consumption in year y (tCO_2e)
…
.

8.2 Project Emissions

Describe the criteria and procedures, including relevant equations, for quantifying GHG emissions for the selected GHG SSRs for the project. Follow the instructions for equations provided in section 8.1 above.

Project emissions are calculated as follows:

$$PE_y = PE_{FC_y} + PE_{EC_y} + \ldots \quad (2)$$

Where:

PE_y = Project emissions in year y (tCO_2-e)
PE_{FCy} = Project emission from fossil fuel combustion in year y (tCO_2-e)
PE_{ECy} = Project emissions from electricity consumption in year y (tCO_2-e)
…

8.3 Leakage

Describe the criteria and procedures, including relevant equations, for quantifying GHG emissions and/or removals for the selected GHG SSRs for leakage. Follow instructions for equations provided in section 8.1 above.

Project emissions are calculated as follows:

$$PL_y = PL_{FC_y} + PL_{EC_y} + \ldots \quad (3)$$

Where:

PL_y = Project leakage in year y (tCO_2-e)
PL_{FCy} = Project leakage from fossil fuel combustion in year y (tCO_2-e)
PL_{ECy} = Project leakage from electricity consumption in year y (tCO_2-e)
…

8.4 Net GHG Emissions Mitigations

Describe the procedure for quantifying net GHG Emission Mitigations as a function of baseline emissions, project emissions, and leakage. Elaborate formulation used to estimate, measure or calculate the net emission mitigations from the project activity. In most cases, this will be simple equation with three terms: the baseline emissions, the project emissions, and the net leakage. Calculation of the emission mitigations is to be performed ex post, however the procedure should include calculation of an ex ante estimation. Follow further instructions for equations provided in section 8.1.

Net GHG Emission Mitigations are calculated as follows:

$$EM_y = BE_y - PE_y - LE_y + \ldots \quad (4)$$

Where:

EM_y = Net GHG Emissions Mitigations in year y (tCO_2-e)
BE_y = Baseline emissions in year y (tCO_2-e)
PE_y = Project emissions in year y (tCO_2-e)
PL_y = Project leakage in year y (tCO_2-e)
…

9. Monitoring

9.1 Monitoring Plan

The methodology needs to provide detailed information on how to establish the monitoring plan related to the collection and archiving of all relevant data needed to:

1. Estimate or measure emissions occurring within the boundary;
2. The monitoring methodology should reflect good monitoring practice appropriate to the type of project activity.
3. Data should be saved electronically and kept at least for two years after last retirement or 7 years after the last crediting period.

The methodology should provide a complete listing of the data that needs to be collected throughout the crediting period for the application of the methodology. This may include data that is measured or sampled, and data that are collected from other sources (e.g. official statistics, IPCC, commercial and scientific literature, etc.). Data that are calculated with equations provided in the methodology should not be included in the compilation. Data that are determined only once and remain fixed throughout crediting period should be considered under "Parameters remaining constant". Describe procedures for obtaining, recording, compiling, and analyzing monitored data and parameters set out in section 9.3.

9.2 Parameters remaining constant

Complete the table for data and parameters which **remain constant** throughout the project crediting period. Amend as needed. Ensure that all data and parameters used in the equations in section 8 are included in this section. Amend as needed.

Data / Parameter	Data/Parameter
Unit	Unit of measure
Description	Description of the data/parameter
Equations	Equations using the data/parameter
Source of data	Indicate source(s) of data
Value applied	Provide the value applied
Justification of choice of data or description of measurement methods and procedures applied	Justify the choice of data source, providing references where applicable. Where values are based on measurement, include descriptions of the measurement methods and procedures applied and measurement results. More detailed information may be provided in an appendix.
Purpose of Data	Indicate one of the following: • Calculation of baseline emissions • Calculation of project emissions • Calculation of leakage

	• Calculation of emission mitigations
Comments	Additional comments

9.3 Monitored Data and Parameters

Complete the table for data and parameters monitored during the project crediting period. Amend as needed.

Data / Parameter	Data/Parameter
Unit	Unit of measure
Description	Description of the data/parameter
Equations	Equations using the data/parameter
Source of data	Indicate source(s) of data
Description of measurement methods and procedures to be applied	Methods of measurement and procedures, standards, or protocols followed. Include relevant information regarding accuracy of measurements, identify equipment used to monitor, including type, accuracy class, and the serial number of equipment, as applicable.
Frequency of monitoring	Frequency of monitoring.
Purpose of Data	Indicate one of the following: • Calculation of baseline emissions • Calculation of project emissions • Calculation of leakage • Calculation of emission mitigations
Calculation Methods	If applicable, calculation methods and equations
QA/QC	Procedures for Quality Assurance and Quality Control applied.
Comments	Additional comments

10. References

Include references that are relevant to the methodology.

Appendix

Provide any additional information as needed to accommodate transparency. Additional information can be attached as a separate file but provide reference to supplementary documentation.