

Regional

RG-T4252

TERMS OF REFERENCE

Experts Advisory Services for Assessing Options to Reach Zero Net Emissions to inform the Long-Term Strategy

1. Background and Justification

- 1.1. Stopping the climate crisis requires ambitious policy reforms from all countries. Through the Paris Agreement, global leaders have pledged to stabilize the global temperature increase well below 2°C, and preferably below 1.5°C. The Intergovernmental Panel on Climate Change (IPCC) confirmed in 2018 that these targets require reaching net-zero carbon emissions by around 2050. Achieving net zero carbon emissions is technically possible by leveraging: (i) decarbonization of electricity production; (ii) electrification of transport and other energy uses; (iii) public transportation; and (iv) preservation and restoration of natural carbon sinks such as forests.
- 1.2. To guide the necessary transformations, countries are invited by the Paris Agreement (Art. 4.19) to formulate and communicate Long-Term Low-emission development Strategies (LTS), which will help countries set up their vision of a decarbonized economy and identify cross-cutting and sectoral policy roadmaps to be deployed over time to achieve their vision in an economically beneficial and socially just manner.
- 1.3. Implementing LTS decarbonization pathways in the region will require aligning sectors and subnational governments to climate action. Government sectors and subnational governments hold the responsibilities and competencies of many vital areas where action is necessary to achieve emission reductions. For instance, the management of electricity generation and distribution is usually settled in ministries of energy, which will ultimately have to develop strategies and policies to reduce emissions in their sector. Similarly, waste management, which can significantly contribute to methane emissions, is usually the responsibility of local authorities. However, knowledge of climate change mitigation can be scarce at the sectorial and subnational levels. Sectorial ministries and local governments must enhance their internal capacities.

2. Objectives

- 2.1. The main objective of this consulting assignment is to assess the extent to which mitigation measures included in the country long-term decarbonization and what costs and benefits are associated with their implementation. To carry out the study, the consultant shall:
 - 2.1.1. Use quantitative tools to evaluate the transformational options for the country
 - 2.1.2. Evaluate the costs and benefits of implementing decarbonization trajectories and the possible associated macroeconomic impacts
 - 2.1.3. Support the Government to build narratives to strengthen long term strategy

3. Scope of Services

- 3.1. The consultant will primarily use accounting tools and existing numerical models to explore a wide range of prospective scenarios of multi-sector decarbonization, taking into account the perspective of national stakeholders. The consultant may augment the existing models with a small set of mathematical relationships to proxy for models that do not currently exist or are not available for use by the consultant. The design of experiment, analysis of the simulations, and adjustment of the simulation plans are all the responsibility of the

consultant.

- 3.2. The consultant will consider relevant uncertainties surrounding the evaluation of those technological choices as suggested by the stakeholders met in national workshops, including for instance the cost of technologies, enabling infrastructure, and long-term energy prices. They will also consider the multi-dimensional aspect of technology evaluation, as suggested by participants of national stakeholder engagement workshops, in the context of a national decarbonization strategies, including for instance impact on GHG emissions, alignment with zero-net emissions, but also as much as possible benefits for the sector, fiscal impacts, etc. The risk of carbon lock-in, irreversible investments, and the exposure of the country to external uncertainties, such as the variations in the cost of technologies are all important issues to consider.
- 3.3. In a qualitative manner, the consultant will capture and record, during the workshops and from international literature, relevant governance, regulatory and policy reforms and other policy instruments to be considered for the operationalization of the decarbonization scenarios.
- 3.4. The consultant will derive robust findings from the analysis of the simulations, a review of the relevant literature, and consultations with different stakeholders, and communicate them to the IDB and local authorities.
- 3.5. The consultant will participate in meetings and workshop with local stakeholders convened by the government within the context of the public consultation process designed for the matter, to understand the most pressing research questions they face related to the mitigation contribution, costs and benefits of the measures under uncertainty, and what resources (including models and data) they have that can be used to contribute to analyze these. The convening and hosting of national stakeholders are the responsibility of the government.
- 3.6. The consultant will periodically present their work program, ongoing progress and results, as required by the Government and IDB, and will capture recommendations and adjust the work program accordingly.

4. Key Activities

- 4.1. Classify the transformational options and define the corresponding analysis plan.
- 4.2. Raise the quantitative information that allows the modeling of these options and the analysis of their compatibility with the NDC trajectories (if applicable) that are currently being updated by the Government.
- 4.3. Build the modeling tools to be used. Each of the teams must define the type of tool (existing model, input-output relationships, spreadsheets) that can generate the required information.
- 4.4. Evaluate the options, mainly, but not limited, to those that can be quantified (the non-quantifiable measures could, eventually, be qualitatively analyzed). The information that will be generated includes mitigation indicators, implementation trajectories, costs and benefits.
- 4.5. Build a tool to aggregate all sectoral results and, subject to its feasibility, the estimation of the associated macroeconomic and fiscal impacts, to be agreed with the government.
- 4.6. Identify the emissions gap that must be filled with emission reductions resulting from the implementation of options that could not be quantified, or the implementation of options not previously considered.

- 4.7. Engage with Government officials to jointly discuss options of LTS design as the project progresses.
- 4.8. Elaborate written reports and presentations for both technical and non-technical audiences, in English and Spanish.

5. Expected Deliverables and Schedule

- 5.1. The expected deliverables for this consultancy are:

- Product 1: Workplan considering activities, timeframes, methodological approach and responsibilities within the experts team. It will also include the classification of the options, accordingly with Activity 4.1.
- Product 2: Progress report with the gathering and analysis of the quantitative data for the options, as stated by Activity 4.2., and the identification or construction of the sectorial modeling tools, as required by Activity 4.3.
- Product 3: Report with the results of the assessment of the options, including the indicators, implementation trajectories, costs and benefits, as commanded by Activity 4.4.
- Product 4: Final report with the consolidated results with the assessment of all the options (Activity 4.4.), methodological approach (Activities 4.2 and 4.3), the results of Activities 4.5 and 4.6 and a summary of Activities 4.7, 4.8 and 4.9. This report will include an abstract.
- Product 5: Policy note that includes the results for the Government to be integrated on the LTS and a power point presentation for public dissemination
- Product 6: Academic Paper highlighting outstanding results of the study

6. Project Schedule and Milestones

- 6.1. The resulting contract will be a lump-sum contract with a duration of eight months. Payments will be made with the approval of IDB, as follows:

Product 1: 2 month after signature of the contract.

Product 2: 4 months after signature of the contract.

Product 3: 6 months after signature of the contract.

Product 4: 8 months after signature of the contract.

Product 5: 10 months after signature of the contract.

Product 6: 12 months after signature of the contract.

7. Reporting Requirements

All reports should be presented in digital version, preferably in *Word* and *PowerPoint*, in *Spanish*.

Payments will be authorized upon Bank acceptance of TORs-specified products. The Bank will have up-to two weeks to provide written comments/recommendations to the reports submitted by the consulting firm. Unless previously determined otherwise, the Bank shall normally accept deliverables upon confirmation by the consulting firm of: (i) reception and further inclusion of comments/recommendations in a revised version and

(ii) provision of date for submission of the revised versions of submitted deliverables. It is expected that the consulting firm will include these comments and recommendations presented by the Bank in a new version submitted to the Bank in no more than two weeks counted from the delivery of written comments by the Bank. Adrien Vogt-Schilb (AVOGTSCHILB@IADB.ORG) will be the persons authorized to accept the work (deliverables) presented by the consulting firm.

8. Acceptance Criteria

- 8.1. The consulting requirements needed to make this project successful are a team with: i) Advanced academic degree in the field of economics, environmental sciences and/or social sciences; with at least 5 years of relevant professional experience in high-level advisory services in economic and environmental matters; ii) Extensive experience with the design, implementation and evaluation of prospective modelling; iii) Demonstrated experience using robust decision making techniques to inform long-term investment decisions iv) Demonstrated capacity to work with a variety of stakeholders, both political and technical; v) Previous experience working in the LATAM region, particularly in relation to climate change, energy and transport analysis and policy development; vi) Ability to present technical concepts clearly to both technical and non-technical experts; vii) Experience in performing contracts for government authorities and international organizations; viii) Fluency in Spanish and English.
- 8.2. The consulting firm shall present a technical proposal specifying the members of the research team to carry out the study, which will include at least:

Position	Requirement
1 Project Director	PhD
4 Senior Researchers	PhD
5 Junior Assistants	Master's degree

9. Supervision and Reporting

- 9.1 Adrien Vogt-Schilb (AVOGTSCHILB@IADB.ORG) will be the technical focal point for this consultancy and will be the person to authorize final work (deliverables) presented by the consulting firm.

10. Schedule of Payments

- 10% upon submission and approval of Product 1.
- 20% upon submission and approval of Product 2.
- 20% upon submission and approval of Product 3.
- 20% upon submission and approval of Product 4
- 10% upon submission and approval of Product 5
- 20% upon submission and approval of Product 6

Regional

RG-T4252

TERMS OF REFERENCE

Study on Funding Sources for Climate Change Actions at the Community and Regional Level

1. Background and Justification

- 1.1. Stopping the climate crisis requires ambitious policy reforms from all countries. Through the Paris Agreement, global leaders have pledged to stabilize the global temperature increase well below 2°C, and preferably below 1.5°C. The Intergovernmental Panel on Climate Change (IPCC) confirmed in 2018 that these targets require reaching net-zero carbon emissions by around 2050. Achieving net zero carbon emissions is technically possible by leveraging: (i) decarbonization of electricity production; (ii) electrification of transport and other energy uses; (iii) public transportation; and (iv) preservation and restoration of natural carbon sinks such as forests.
- 1.2. Reducing emissions, and ultimately reaching net zero in the region will require aligning subnational governments to climate action. Subnational governments hold the responsibilities and competencies of many vital areas where action is necessary to achieve emission reductions. For instance, waste management, which can significantly contribute to methane emissions, is usually the responsibility of local authorities. However, knowledge of climate change can be scarce at the sectorial and subnational levels. This also leads to problems for financing climate action as funneling resources requires knowledge. Local governments must enhance their internal capacities and expertise to design and implement plans to achieve climate change commitments.

2. Objectives

- 2.1. General Objective: To support the identification of actions that regional governments and municipalities can take to align with the climate change goals, by evaluating their capacities and facilitating access to funding sources to implement such actions.
- 2.2. Specific Objectives i) Identify the necessary transformations at the regional and community level to progress towards carbon neutrality goals and adapt to the adverse effects of climate change. ii) Analyze and identify the capacities and attributions that regional governments and local governments have to take actions that enable the identified transformations and incorporate climate change criteria into existing or new programs and initiatives. These capacities and attributions should consider the direct and indirect financing mechanisms available to regional and municipal authorities, as well as actions that can mobilize resources from private financing. iii) Collect, analyze, and systematize sources of financing and networks of stakeholders on climate change initiatives at the community and regional levels.

3. Scope of Services

- 3.1. A professional in the field of climate change, with experience in territorial work

from governmental or mixed (national and international) entities, and subnational financing. Additionally, the consultancy includes the development of participatory activities, graphic design (infographics), and document layout.

4. Key Activities

4.1. Develop an analysis of the transformations and actions needed at the regional and local level to advance towards carbon neutrality and adapt to the adverse effects of climate change.

- i) Conduct a review of existing literature to guide the identification of necessary transformations at the regional and local level to achieve carbon neutrality goals and adapt to the adverse effects of climate change, and on the actions that can be taken to implement such transformations.
- ii) Identify existing obstacles at the regional and communal level for the implementation of necessary transformations to advance towards carbon neutrality goals and adapt to the adverse effects of climate change.

4.2. Develop participatory workshops for regional action against climate change.

- i) Develop at least 4 participatory workshops with institutional actors and territorial action organizations to identify: i) necessary transformations, barriers to these transformations, and actions that can be taken at the regional level to promote transformations that seek to mitigate greenhouse gas emissions and adapt to the adverse effects of climate change;
- ii) Identify possibilities for public-private partnerships and partnerships among public institutions (sectorial ministries, regional governments, and municipalities) to carry out climate change projects at the regional and communal levels, and the possible actions that regional and local governments can take to mobilize private financing for climate change actions.

4.3. Analyze the competencies and capacities of regional and municipal governments for the implementation of actions, projects, and initiatives to promote the necessary transformations to combat climate change.

- i) Analyze the legal and institutional attributions in the use of regional and municipal instruments to promote climate change actions, including regulatory instruments, taxes, concessions, ordinances, public spending and municipal and regional investment, public procurement, territorial planning, and others.
- ii) Analyze the possibilities for public-private partnerships and partnerships among public institutions (sectorial ministries, regional governments, and municipalities/localities) to carry out climate change projects at the regional and communal levels.
- iii) Analyze the main regional and municipal financing instruments to identify to what extent they allow financing of climate actions and to what extent they require the inclusion of climate change criteria in initiatives that do not have climate change as their main focus.
- iv) Analyze possible actions that regional and municipal governments can take to mobilize private financing for actions against climate change.

- v) Conduct semi-structured interviews with key actors from regional governments (at least 2 actors per region) and key municipal or local actors. The consulting firm must propose a guide or set of questions organized according to a minimum set of dimensions derived from the project's objectives. The systematization of these interviews must be included in the final report and progress reports.

4.4. Incorporate an analysis and systematization of funding sources and actor networks on climate change initiatives at the communal and regional levels,.

- i) An analysis and systematization of funding sources and actor networks on climate change initiatives at the communal and regional levels should be conducted. This analysis should guide decision-makers at the regional and communal levels on how to close funding gaps to implement the actions identified in this consultancy.

4.5. Socialize and disseminate the findings of the consultancy.

- i) Carry out an instance of socialization of results with interested stakeholders.
- ii) Conduct at least two webinars to address the main findings of the analysis of transformations and actions. This includes the analysis of the necessary transformations to move towards carbon neutrality and adaptation to climate change, the actions required to promote these transformations, and the competencies and capacities of regional and municipal governments to carry out such actions. The webinars should also disseminate case studies where regional action has been addressed in the context of climate change.
- iii) Design and conduct a workshop to disseminate findings on sources of financing and actor networks for climate change initiatives at the community and regional levels.

5. Expected Deliverables and Schedule

- 5.1. **Deliverable 1:** This report must, at a minimum, account for the initial identification of the necessary transformations and actions at the regional and community levels to move towards carbon neutrality and adapt to the adverse effects of climate change, as detailed in section "4.1". In addition, it should provide a synthesis of the results from the participatory workshops detailed in section "4.2" related to objective "4.1".
- 5.2. **Deliverable 2:** This report must, at a minimum, present the analysis of the necessary transformations and actions at the regional and community levels to move towards carbon neutrality and adapt to the adverse effects of climate change, as detailed in section "4.1", and progress in the analysis of the competencies and capacities of regional and municipal governments to implement actions, projects, and initiatives to promote the necessary transformations to combat climate change, as detailed in section "4.3". In addition, it should provide a synthesis of the results from the participatory workshops detailed in section "4.2" related to objective "4.3".
- 5.3. **Deliverable 3:** A final report that considers the results and analysis specified in section "4", including the contents of the first and second progress reports, and an analysis of the synthesis of financing sources and actor networks for climate change initiatives at the community and regional levels. This report should be

structured as a comprehensive working document that can be used as a guide to orient decision-makers at the regional and community levels. Additionally, the final report must include an executive summary. Along with the final report, successful completion of the dissemination instances specified in section "4.5" must be reported..

6. Project Schedule and Milestones

The consultancy will tentatively start in November 2023 and will be extended for a maximum period of 6 months to achieve the deliverables detailed below.

7. Reporting Requirements

1. The progress reports and final report, specified in numeral "5", must be submitted to the IDB as indicated below:

Deliverables		My 1	My 2	My 3	My 4	My 5	My 6
1	Progress report 1		x				
2	Progress report 2				x		
3	Report 3 – Final						x

2. The consulting firm will have to present the deliverables specified in numeral "5", which must report in an understandable way the results of the key activities specified in numeral "4". All reports must be written in Spanish, must have an executive summary and must adequately cite all sources of information used.
3. An analysis of the webinars specified in point "4.2" should be considered within the progress reports 1 and progress report 2, according to the criteria specified in numeral "5". This analysis should also be incorporated into the final report. On the other hand, within the final report, an analysis of the workshops, webinars and socialization instances specified in point "4.5" should be considered.

8. Acceptance Criteria

1. The reports will be reviewed approved by Adrien Vogt-Schilb, IDB Climate Change Specialist (CSD/CCS), who may make observations, comments or requests for additional information if necessary. The successful bidder undertakes to rectify what is requested within 15 days, counting from the date on which observations, comments or requests for additional information are delivered.
2. **The offeror must ensure that the team of professionals accredits the following experience, at least, in some of the following matters related to this consultancy, in the last ten years:**
 1. Experience as a consultant and/or performing specific functions in public and/or private organizations in terms of financing models for environmental projects, ideally climate finance considering public-private partnerships.

2. National and/or international experience as a consultant and/or performing specific functions in public and/or private bodies in the field of climate change management instruments at national and international level.
3. Experience as a consultant and/or performing specific functions in the area of administration, finance or budget in public bodies, specifically with regional governments and/or municipalities.
4. National experience in the legal and operational field in relation to regional governments and / or municipalities, ideally with respect to planning, management and development of projects at these scales.

9. Supervision and Reporting

Adrien Vogt-Schilb (AVOGTSCHILB@IADB.ORG) will be the technical focal point for this consultancy and will be the person to authorize final work (deliverables) presented by the consulting firm.

10. Schedule of Payments

Payment terms will be based on project milestones or deliverables. The Bank does not expect to make advance payments under consultancy contracts unless a significant amount of travel is required. The Bank wishes to receive the most competitive cost proposal for the services described in this document.

The IDB Official Exchange Rate indicated in the SDP will be applied for the necessary conversions of payments in local currency.

Content	% of payment
First payment: Against approval progress report 1.	30%
Second payment: Against approval progress report 2.	30%
Third payment: Against approval final report.	40%

Regional
RG-T4252

TERMS OF REFERENCE

Evaluation of Emission Reduction Pathways and Associated Costs and Benefits in the Agriculture and Forest Sectors

1. Background and justification

- 1.1. Stopping the climate crisis requires ambitious policy reforms from all countries. Through the Paris Agreement, global leaders have pledged to stabilize the global temperature increase well below 2°C, and preferably below 1.5°C. The Intergovernmental Panel on Climate Change (IPCC) confirmed in 2018 that these targets require reaching net-zero carbon emissions by around 2050. Achieving net zero carbon emissions is technically possible by leveraging: (i) decarbonization of electricity production; (ii) electrification of transport and other energy uses; (iii) public transportation; and (iv) preservation and restoration of natural carbon sinks such as forests.
- 1.2. To guide the necessary transformations, countries are invited by the Paris Agreement (Art. 4.19) to formulate and communicate Long-Term Low-emission development Strategies (LTS), which will help countries set up their vision of a decarbonized economy and identify cross-cutting and sectoral policy roadmaps to be deployed over time to achieve their vision in an economically beneficial and socially just manner.
- 1.3. Implementing LTS decarbonization pathways in the region will require aligning sectors and subnational governments to climate action. However, one challenge with implementing any emissions reduction plan for agriculture is that it depends on the actions of a broad set of private sector stakeholders, including farmers, livestock farmers, forestry companies, consumers, food distributors, or restaurants. These actors do not always have advanced knowledge on how to reduce GHG emissions and usually have other priorities.
- 1.4. [International evidence](#) suggests that for climate strategies to be socially accepted and effective tools for public policymaking, it is important to build them together with affected stakeholders. Strategies should seek to be formulated in ways that ensure stakeholders understand what they can do to reduce emissions, and how doing so can help them advance their own goals – as well as reducing GHG emissions.
- 1.5. Another challenge with the analysis of options to reduce emissions in the Agriculture and Forestry Sectors (AFOLU in the following) is that the environmental and socioeconomic performance of these options depends on local geographical and meteorological conditions (for example, the carbon content of local vegetation) and how these in turn change over time considering the vulnerability of the country to climate change. Geographic information management tools can be useful for analyzing such options.

2. Objectives

- 2.1. The objectives of the consultancy are:
 - a. Produce a simple, transparent, open-source numerical modelling tool to evaluate emission reduction options in the countries AFOLU sector, as well as their socioeconomic consequences, as detailed in the subsecting objectives.

- b. Produce simulations of sectoral transformation pathways (including, for example, production practices, changes in consumption, increase in agricultural yields) to achieve the emission reduction and capture objectives established by Chile.
- c. Provide an overview of the current context of GHG emissions and their technological, geographical, and socio-economic drivers in the AFOLU sector – e.g. evolution of diets and yields.
- d. Project scenarios for the future evolution of socio-economic drivers of emissions and emissions, including, but not limited to, population growth, GDP per capita, diets, and climate change. This is not intended to provide a prediction of future emissions; but to serve as a baseline that allows to contrast sectoral transformations. Here simplicity in assumptions and general plausibility (frozen technology or current policies) will be preferred to sophistication.
- e. Produce scenarios of sectoral transformations that would allow meeting the growing demand for food while meeting the objectives of reducing emissions and increasing captures, or allow to reduce emissions beyond the objectives and capture beyond the objectives, and evaluating key sensitivities and uncertainties.
- f. Estimate the costs and benefits of implementing the sectoral transformations described in the previous point. It is key to consider both financial and non-financial costs and benefits, considering a broad definition of costs and benefits. Here too, the analysis will require assessing key sensitivities and uncertainties.
- g. Identify key opportunities and challenges regarding the transformation of the AFOLU sector to reduce emissions, highlighting sectoral transformations that are essential to reduce and capture emissions, those that increase the risks of increasing GHG emissions in the future, and those that are essential to maximize the net benefits of the transition. Derive recommendations in terms of possible policy objectives that the government of Chile can consider for the AFOLU sector.
- h. Contribute to disseminating these results

3. Scope of services

- 3.1. The team will propose a framework of working with the IDB to engage with local stakeholders and understand the most pressing policy issues they face in relation to the contribution to mitigation, costs and benefits of measures under uncertainty, and what resources (including models and data for the sector) can be used to contribute to the Analysis.
- 3.2. The team, in conjunction with the government and the IDB, will identify and create a preliminary list of key actors mainly from the AFOLU sector, such as government agencies, non-governmental organizations, private sector, who are considered as potential guests to the consultation workshops of this project.
- 3.3. The convening of national actors will be the responsibility of the IDB.
- 3.4. Conducting a review of national, regional and international knowledge published in the academic and grey literature on the and options to reduce emissions in the AFOLU sector, the consultants will design a high-level work program of simulation, modelling and stakeholder engagement to inform numerical simulations to achieve the objectives of this consultancy.

4. Key activities

- 4.1. Identify key actors in the AFOLU sector in the country, so that the IDB and the government consider inviting them to participate in consultative workshops. **Product 1a:** documentor Excel that lists actors, affiliation and email.
- 4.2. Participate in workshops convened by the IDB or the government to hear from actors in the AFOLU sector in their vision on the performances (goals and objectives) that would allow quantifying the success of an emissions reduction strategy, especially in terms of costs and benefits. In addition, what actions or sectoral transformations would allow the emission reduction objectives to be achieved; what uncertainties may impact the ability to achieve goals and what models, data, and studies exist to reflect the relationship between goals and objectives, measures, and uncertainty. **Output 1b:** Memo that lists and analyzes the performances, actions, models and uncertainties (DAMI) proposed by the actors of the sector in the participatory workshops (Word document).
- 4.3. Participate in workshops or meetings with national or international researchers, organized by the IDB, to investigate analytical tools that can be considered by the team. **Product 1c:** Memo with tool options to consider in the analysis (e-mail).
- 4.4. In each iteration of the workshops mentioned in the three preceding points, the IDB will decide together with the government whether to hold face-to-face or virtual meetings. When the meetings are face-to-face, the logistical costs will be covered by the IDB. The firm will be asked to support it in co-organizing, for example, providing a draft invitation or agenda email.
- 4.5. Develop, in consultation with the IDB and the government, a project work plan that outlines the roles and responsibilities of project participants outlines the proposed methods and tools (which should be transparent, free, and open-ended) for the task and details the outputs, milestones, and deliverables to be produced. The plan should explain the prioritization of the DAMIs and possible additions to what was proposed in the workshops, justifying in detail these considerations. **Output 1d:** Work plan with a description of the methods, tools and results proposed to simulate emission reduction options in the AFOLU sector in Chile.
- 4.6. Collect relevant data from the AFOLU sector, working with stakeholders as needed and at the initiative of the consultant, complete open source analytical tools and their documentation, apply tools to model scenarios, analyze results and produce draft project products. The analyses will be based on publicly available data, studies and research from national and international sources, as well as on documents published by DDPLAC country teams, where available. **Product 2a:** Draft analysis of emission reduction pathways, and impact on various performances, under uncertainty (Word or PowerPoint document that includes visualization of results), and evidence that the tools are being developed transparently and in open source (for example, link to documented code repository).
- 4.7. Participate in workshops with counterparts from the AFOLU sector, government and IDB, to present preliminary results and collect comments. **Product 2b:** Memo with systematization of comments received and next steps (e-mail).
- 4.8. Improve and finalize preliminary products based on the above **Output 3a:** Final analysis of AFOLU emission reduction options, costs and benefits (Word or PowerPoint document including visualization of results), and evidence that the tools are being developed transparently and in open source (e.g. link to documented code repository actualizado).
- 4.9. Produce an *outline* of the final report, detailing context, assumptions, results and conclusions. **Product 3b:** outline (Word document).

- 4.10. Produce a final report. The report should be written clearly and concisely, with the aim of publishing it for a wide and non-technical audience (Word document). **Output 4a:** Final report (Word document).
- 4.11. Produce and publish the documented source code of the tool in open source. **Product 4b:** link to publicly available catching repository.
- 4.12. Write an academic article in English, based on the final report and submitted to an academic journal with a reading committee. **Product 5:** academic article delivered

5. Results and Expected Products

- 5.1. The expected deliverables for this consultancy are:
 - **Product 1:** Memo listing guests and participants, DAMI tables rescued from the initial workshops, tools available, and working throughout the process.
 - **Output 2:** Draft analysis and memo on next steps.
 - **Product 3:** Final analysis and *outline* of final report.
 - **Product 4:** Final report and proof that the documented source code is available online and subject to <https://code.iadb.org/en>.
 - **Output 5:** Academic article delivered

6. Project Schedule and Milestones

- 6.1. The consultancy will last 14 months. Payments will be made with IDB approval as follows:
 - **Product 1:** 1 month after contract signing
 - **Product 2:** 6 months after contract signing
 - **Product 3:** 8 months after contract signing
 - **Product 4:** 10 months after contract signing
 - **Product 5:** 14 months after contract signing

7. Reporting Requirement:

- 7.1. All reports must be submitted in digital versions, in Word and PowerPoint, in Spanish, or as requested by the IDB.
- 7.2. Model source code and documentation should be available online, for example, using tools such as github.org and readthedocs. Org. Consideration should be given to submitting the final code to the IDB's open source platform, <https://code.iadb.org/>.
- 7.3. The academic article will list the staff of the consulting firm as authors, as well as staff of the IDB and the Office of Agricultural Studies and Policies, based on the respective contributions. The IDB will consider publishing it as a working document in parallel to its submission to an academic journal.

8. Acceptance Criteria

- 8.1. Payments will be authorised once the Bank has accepted the products specified in the terms of reference. The Bank will have up to two weeks to make written comments/recommendations to the reports submitted by the consulting firm. Unless otherwise determined, the Bank will normally accept the products once the consulting firm confirms (i) receipt and subsequent inclusion of the comments/recommendations in a revised version and (ii) indication of the filing date of the revised versions of the submitted

deliverables. The consulting firm is expected to include these comments and recommendations submitted by the Bank in a new version submitted to the Bank no later than two weeks after the Bank's written comments are delivered.

9. Other Requirements

9.1. The consulting requirements required to carry out this project successfully, is a team with:

- a. Advanced academic degree in the field of economics, environmental sciences and/or social sciences; with at least 5 years of relevant professional experience in high-level advisory services on economic and environmental issues in the agriculture, land use, forestry, and climate change sectors;
- b. Experience with participatory workshops used to design numerical simulation plans
- c. Extensive experience in the design, implementation and evaluation of prospective models, particularly in the agriculture and forestry and climate change sector;
- d. Knowledge and experience in the domain of agriculture, livestock, and forestry;
- e. Knowledge and experience in the domain of valuation of ecosystem services;
- f. Management of geographic information systems tools, ideally applied to the analysis of natural resources, climate, or agriculture;
- g. Demonstrated ability to work with a variety of stakeholders, both political and technical;
- h. technical and non-technical experts;
- i. Experience in conducting contracts for government authorities and international organizations;
- j. Fluent in Spanish and English.

10. Monitoring and Reporting

10.1. The report will report to the climate change specialist in the IDB's Chile office. They will meet every two weeks with the same, or an IDB employee designated by the IDB in their place. The IDB will be in charge of collecting feedback from internal and external specialists. It shall be the responsibility of the Firm to ensure that such meetings are held and reports are submitted to the Bank.

11. Payment Schedule

11.1. Payment terms shall be based on project milestones or deliverables. The Bank does not expect to make advance payments under consultancy contracts unless a significant amount of travel is required. The Bank wishes to receive the most competitive cost proposal for the services described in this document.

11.2 Payment Plan:

- **Product 1:** 20% of the contract amount
- **Product 2:** 35% of contract amount
- **Product 3:** 15% of the contract amount
- **Product 4:** 15% of the contract amount
- **Product 5:** 15% of the contract amount

Terms of Reference

Annex A

CSD/CCS Publications Consultant

Background: The climate change and sustainability division (CSD/CCS) is looking for a professional to edit a series of studies and report related to the development of decarbonization pathways and sectorial and subnational mitigation transformations and government interventions.

The team's mission: The climate change and sustainability sector (CSD) advises IDB management and develops policies, strategies, programs and guidelines on matters relevant to the sector and its areas of incidence. CSD also conducts relevant sector research, analytical work and case studies on climate and sustainability. As a CSD division, CSD/CCS supports: (i) the mainstreaming of climate change within the IDB, including in its lending operations and (ii) the mainstreaming of climate change within IDB regional membership through the support to ministries of the environment and ministries of finance, economics, and planning. Both work streams share the common goal of strengthening subnational, national, and regional climate policy in Latin America and the Caribbean.

What you'll do:

- Edit 3 reports of varied length during the period of 2024, 2025.
- Help with preparing communication and dissemination of the work related to the report.
- Directly work with authors.
- Edit the report and introduce changes, as necessary.

Deliverables and Payments timeline:

- 10% within 30 days upon delivery of a work plan.
- 20% within 30 days upon delivery of delivering the edit of first report.
- 20% within 30 days upon delivery of delivering the second report.
- 20% within 30 days upon delivery of delivering the third report.
- 10% within 30 days upon delivery of a report of the communication and dissemination work of the first report
- 10% within 30 days upon delivery of a report of the communication and dissemination work of the second report
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What you'll need:

Citizenship: You are a citizen of one of our 48-member countries.

Consanguinity: You have no family members (up to fourth degree of consanguinity and second degree of affinity, including spouse) working at the IDB Group.

Education: Master's degree or equivalent in communication or related field.

Experience: Minimum of 15 years of relevant professional experience, including several years at a senior advisory or managerial level, or the equivalent combination of education and experience in editing for international organizations. Knowledge of Latin America and familiarity with topics and vocabulary in economics.

Languages: Outstanding writing and editing in English and Spanish.

Core and Technical Competencies:

- A proven ability to work in a dynamic fast-paced work environment, with attention to detail without losing quality. Ability to juggle multiple deadlines.
- Ability to synthesize complex concepts.
- Ability to translate economically technical information into readable prose.
- Strong written and oral communication skills in both English and Spanish.

- Strong experience editing reports for an international audience.

Opportunity Summary:

Type of contract and modality: Product External Consultant (PEC).

Length of contract: 9 months.

Starting date: 2024.

Location: Remote, on the consultant residence.

Responsible person: Adrien Vogt-Schilb, Senior Climate Change Economist (CSD/CCS).

Requirements: You must be a citizen of one of the IDB's 48 member countries and have no family members currently working at the IDB Group.

Our culture: Our people are committed and passionate about improving lives in Latin-America and the Caribbean, and they get to do what they love in a diverse, collaborative and stimulating work environment. We are the first Latin American and Caribbean development institution to be awarded the EDGE certification, recognizing our strong commitment to gender equality. As an employee you can be part of internal resource groups that connect our diverse community around common interests.

Because we are committed to providing equal opportunities in employment, we embrace all diversity and encourage women, the LGBTQ+ community, persons with disabilities, afro-descendants, and indigenous people to apply.

About us: At the IDB, we're committed to improving lives. Since 1959, we've been a leading source of long-term financing for economic, social, and institutional development in Latin America and the Caribbean. We do more than lending though. We partner with our 48-member countries to provide Latin America and the Caribbean with cutting-edge research about relevant development issues, policy advice to inform their decisions, and technical assistance to improve on the planning and execution of projects. For this, we need people who not only have the right skills, but also are passionate about improving lives.

Our team in Human Resources carefully reviews all applications.