



Terms of Reference for ICs and RLAs through /GPN ExpRes

Services/Work Description: Individual Contractor Consultancy

Consultancy Title: Development of participatory workshops and formulation of the Decarbonization Agenda for the Manufacturing Industry to 2030 (ADIM-2030), with emphasis on the cement industry

Duty Station: Home-based, with travel to Peru

Duration: 70 working days within the period from April 1 to August 15, 2026

Expected start date: April 1, 2026

1. BACKGROUND

Peru addresses climate change through its Nationally Determined Contributions (NDCs), which involve all sectors and actors of society around common mitigation and adaptation goals. Peru's NDCs are framed within the Paris Agreement on climate change, which the country ratified on July 22, 2016, and which entered into force on November 4 of the same year.

Peru NDC 3.0 has established a national mitigation target of a conditional reduction of 179 MtCO₂eq by 2035. This target is conditional upon the availability of international climate finance, technical cooperation, and technology transfer—key elements to ensure its feasibility. To achieve this objective, the country has formulated 66 greenhouse gas (GHG) mitigation measures as of 2024. Implementing these measures involves the main government sectors responsible for the economic and productive activities that generate GHG emissions, as established in national climate change management regulations. These measures are grouped into five GHG emission sectors: i) Energy (stationary combustion and mobile combustion); ii) Industrial processes and product use (IPPU); iii) Waste (solid waste and wastewater); iv) Land use, land-use change and forestry (LULUCF); and v) Agriculture.

According to the Fourth National Communication, in 2021 the country's net emissions amounted to 194,896 kilotonnes of carbon dioxide equivalent (kt CO₂ eq), representing a 57% increase compared to the year 2000 and a 17% increase compared to 2020. The LULUCF and IPPU sectors represent high strategic priorities for climate action in Peru. They not only account for a significant share of emissions but also offer high potential for emission reductions through the adoption of environmentally friendly and agricultural best practices, technological innovation, and the strengthening of integrated territorial management.

In the LULUCF sector, activities such as deforestation, soil degradation, and the conversion of natural ecosystems are significant sources of greenhouse gas emissions, but they also provide substantial potential for mitigation through nature-based solutions and sustainable approaches.

In the IPPU sector, the adoption of clean technologies, the substitution of carbon-intensive raw materials, and the optimization of industrial processes allow for the reduction of emissions that are structurally difficult to eliminate. Accelerating climate action in both sectors not only contributes to the achievement of national climate targets but also promotes technological innovation, green employment, and low-carbon sustainable development in line with the objectives of the Paris Agreement.

In this context, the project "Support for the Implementation of Peru's NDCs" aims to establish operational and programmatic foundations to accelerate the implementation of emission-reduction actions in the Land Use, Land-Use Change and Forestry (LULUCF) and the Industrial Processes and Product Use (IPPU) sectors, contributing decisively to the fulfilment of the commitments set in the country's NDC.

To this end, two (2) Outputs have been defined:

- Output 1: Strengthened governance and deforestation-free cocoa production systems in three Indigenous communities of Megantoni, under the COMARU Federation, contributing to the Cusco Regional Cocoa Plan and the sustainable development of Indigenous territories.
- Output 2: Strengthened capacities of national government public entities to promote the decarbonization of the Industrial Processes and Product Use (IPPU) sector, including the cement and brick industries.

Within the framework of Output 2, it is necessary to hire a consultant for the development of participatory workshops and the formulation of the Decarbonization Agenda for the Manufacturing Industry to 2030 (ADIM-2030), with emphasis on the cement industry. This sectoral policy instrument will integrate the vision, strategic objectives, targets, indicators, and action plan aimed at fostering a competitive, sustainable, and low-GHG-emission industrial development model.

2. SCOPE OF WORK, RESPONSIBILITIES AND DESCRIPTION OF THE PROPOSED WORK

Provide technical assistance to the General Directorate of Environmental Affairs for Industry (DGAAMI) of the Ministry of Production for the development of participatory workshops and the formulation of the Decarbonization Agenda for the Manufacturing Industry to 2030 (ADIM-2030), with emphasis on the cement industry, in line with Peru's climate targets and NDC commitments.

Specific objectives:

- Facilitate and systematize the diagnostic and formulation workshops.
- Systematize and analyze existing information on emissions, industrial processes, and regulations related to the decarbonization of the manufacturing industry.
- Support the formulation of ADIM-2030 by consolidating the vision, strategic objectives, targets, action lines, and the proposed corporate contributions mechanism.

3. Expected Outputs and deliverables

Under the supervision of UNDP, and in close coordination with the General Directorate of Environmental Affairs for Industry (DGAAMI) of the Ministry of Production, the consultant will be responsible for the following:

Development of the Workshops:

Design:

- Design the participatory methodology for seven (7) workshops.
- Prepare the working materials (agendas, dynamics, etc.) for seven (7) workshops.

Facilitation:

- Facilitate at least five (5) diagnostic workshops: 1 internal¹ workshop in Lima, 2 external² workshops in Lima, and 2 external² workshops in other regions (with industry associations, companies, among others).

¹ Internal workshops will be conducted with PRODUCE in Lima.

² External workshops will be conducted with industry associations, companies, and other stakeholders in Lima or in other cities with significant manufacturing industry presence (locations to be determined).

- Facilitate at least two (2) workshops during the formulation of ADIM-2030: 1 internal¹ workshop in Lima, and 1 external² workshop.

Systematization:

- Prepare a systematization report for the diagnostic workshops.
- Prepare a systematization report for the formulation workshops of ADIM-2030.

Formulation of ADIM-2030:

Document review and technical systematization:

- Gather and systematize existing information (diagnostics, GHG inventories, sectoral mitigation measures, national and international decarbonization plans for the manufacturing industry).
- Review comparative experiences in Latin America (e.g., Costa Rica, Chile, Colombia).

Sectoral assessment:

- Identify GHG emission sources within the manufacturing sector.
- Analyze critical industrial processes (cement, bricks, plastics, glass, beverages, etc.).
- Assess current national regulations and their alignment with international climate policy.
- Identify gaps, barriers, and technological, financial, and institutional opportunities for the decarbonization of the manufacturing industry, with emphasis on the cement industry.

Definition of vision, objectives, and targets:

- Propose the 2030 vision for the manufacturing industry.
- Define strategic objectives, indicators, and quantitative targets (e.g., reduction of GHG emission intensity).

Formulation of action lines and action plan:

- Identify short, medium and long-term measures.
- Establish enabling conditions (financing, innovation, infrastructure).
- Propose a governance framework for implementation.

Design of the mechanism for voluntary business actions or contributions:

- Design a mechanism enabling manufacturing sector companies to identify and report concrete and voluntary decarbonization actions (aligned with the priority activities of the Agenda).
- Establish its governance scheme, its articulation with the action plan, and its connection to other reporting systems within the national and international climate change ecosystem.

| Deliverable | Deliverable Date | Percentage of Payment |
|--|---|-----------------------|
| 1. Document containing the Work Plan and timeline (including the methodology, the stakeholder participation strategy with the definition of their roles), validated by UNDP and DGAAMI. | Within 7 calendar days from the signing of the contract. | 5% |
| 2. Report detailing the methodological design of the workshops, including the proposed agenda and all facilitation materials (such as presentations, templates, and other supporting tools). | Within 20 calendar days from the signing of the contract. | 15% |

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| 3. Diagnostic report, including an analysis of emissions from the manufacturing sector, regulations, technological opportunities and barriers, as well as a review of existing sectoral measures and the systematization of the diagnostic workshops. | Within 65 calendar days from the signing of the contract. | 35% |
| 4. Preliminary proposal of the ADIM-2030: Document containing the 2030 vision, strategic objectives, indicators, targets, and preliminary action lines. | Within 90 calendar days from the signing of the contract. | 20% |
| 5. Final ADIM-2030 document: Final version of the document incorporating the results of the workshops with sectoral stakeholders (diagnosis and formulation stages), including an action plan, governance framework, and indicators. In addition, it must include a specific section on voluntary actions or contributions, detailing the conceptual framework, the types of possible actions by prioritized activity, reporting mechanisms, institutional governance, and the relationship with the NDC and other national instruments. | Within 120 calendar days from the signing of the contract. | 25% |

6. Travel requirements³

The consultant is expected to carry out missions to Peru during the course of the consultancy. The preliminary travel schedule is presented below:

| Mission | Tentative period | Tentative duration | Likely main mission activities |
|--|--|--|---|
| Development and facilitation of diagnostic and formulation workshops for the Decarbonization Agenda for the Manufacturing Industry through 2030 (ADIM-2030). | Diagnostic workshops: May–June Formulation workshops: July–August | Diagnostic workshops: The consultant is expected to participate in 5 diagnostic workshops, 1 day per workshop (locations to be defined). Formulation workshops: The consultant is expected to participate in 2 formulation workshops, 1 day per workshop (locations to be defined). | Facilitation and moderation of the workshops; stakeholder meetings; among others. |

7. Institutional arrangements/reporting lines

- The consultant’s contract will be administered by the Peru UNDP Country Office.
- The consultant will be supervised by the UNDP Environment and Energy Programme Officer.
- The consultant shall submit the expected deliverables detailed in Section 3, in accordance with the established timeline, which will serve as the basis for payment.

³ The consultancy is all-inclusive. Travel expenses for the workshops will be covered by the consultant, subject to prior coordination and authorization. Only the spaces and coffee breaks for the workshops will be co-financed by PRODUCE.

8. Experience and qualifications

I. Academic Qualifications:

- Master's degree in industrial, chemical, or environmental engineering, or a related field.

II. Years of experience:

- Minimum three (3) experiences in industrial production processes, energy efficiency, clean technologies, or decarbonization in LAC region.
- Minimum one (1) experience in the formulation of plans, policies, and/or instruments related to the environmental sector and/or climate change in LAC region.

III. Language:

- Excellent oral and written communication skills in Spanish.

9. Payment Modality

Payment to the individual contractor will be made based on the deliverables accepted and upon certification of satisfactory completion by the manager.