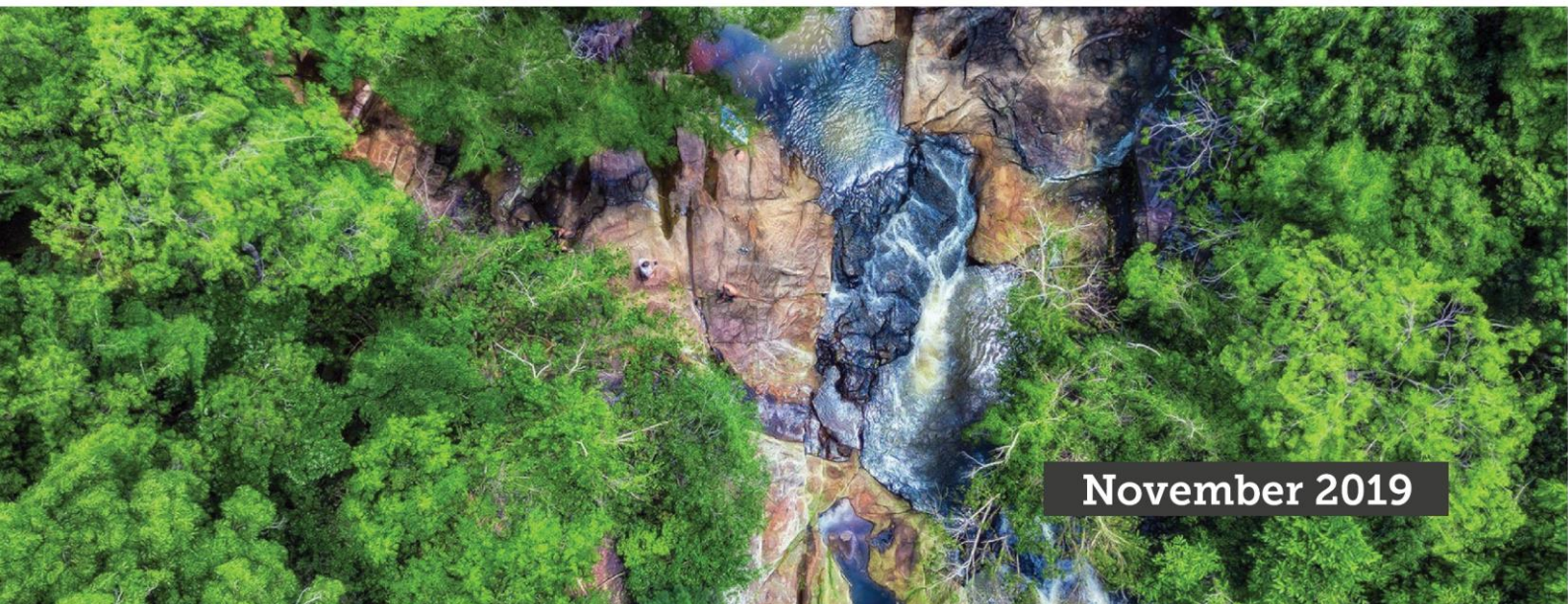


READINESS & PREPARATORY SUPPORT

PROPOSAL TEMPLATE



Proposal title:	Technical guidance and support to conduct a technology needs assessment and a technology action plan for Paraguay
Country:	Paraguay
National designated authority:	His Excellency Mr. Carlos Alberto Olmedo
Implementing Institution:	UNEP – The Climate Technology Centre and Network (CTCN)
Date of first submission:	27 August 2020
Date of current submission / version number	27 August 2020 V.1



November 2019

Before completing this proposal template, please read the guidebook and learn how to access funding under the GCF Readiness & Preparatory Support Programme.

Download the guidebook:
<https://g.cf/xxxxx>



How to complete this document?

This document should be completed by National Designated Authorities (NDA) or focal points with support from their Delivery Partners where relevant. Once completed, this document should be submitted to the GCF by the NDA or focal point via the [online submission system](#), accessible through the Country Portal of the GCF website.

Please be concise. If you need to include any additional information, please attach it to the proposal.

If the Delivery Partner implementing the Readiness support is not a GCF Accredited Entity for project Funding Proposals, please complete the Financial Management Capacity Assessment (FMCA) questionnaire and submit it prior to or with this Readiness proposal. The FMCA is available for download at the [Library](#) page of the GCF website.

Where to get support?

If you are not sure how to complete this document, or require support, please send an e-mail to countries@gcfund.org.

You can also complete as much of this document as you can and then send it to countries@gcfund.org, copying both the Readiness Delivery Partner and the relevant GCF Regional Desks. Please refer to the [Country Profiles](#) page of the GCF website to identify the relevant GCF Country Dialogue Specialist and Regional Advisor.

We will get back to you within five (5) working days to acknowledge receipt of your submission and discuss the way forward.

Note: Environmental and Social Safeguards and Gender

Throughout this document, when answering questions and providing details, please make sure to pay special attention to environmental, social and gender issues, particularly to the situation of vulnerable populations, including women and men. Please be specific about proposed actions to address these issues. Consult Annex IV of the Readiness Guidebook for more information.

Please visit the Country Portal on the GCF website to submit this proposal via the [online system](#).

When submitting the proposal, please name the file:
GCF Readiness -[Country]-[yymmdd]

1. SUMMARY

1.1 Country submitting the proposal

Country name: Paraguay

Name of institution representing NDA or Focal Point: Secretariat of Technical Planning for Economic and Social Development

Name of contact person: His Excellency Mr. Carlos Alberto Olmedo

Contact person's position: Minister- Executive Secretary

Telephone number: +595 21 450 422

Email: ministro@stp.gov.py

Full office address: Estrella Nr. 505 esquina 14 de Mayo, Asunción Paraguay, Asunción, Paraguay

Additional email addresses that need to be copied on correspondences: Ulises Pedro Lovera Gaona uliseslovera@hotmail.com, Nora Paez paeznora09@gmail.com

1.2 Date of initial submission

27 August 2020

1.3 Last date of resubmission

27 August 2020

Version number V.1

1.4 Which institution will implement the Readiness and Preparatory Support project?

- ☐ National designated authority
- ☒ Accredited entity
- ☒ Delivery partner

Please provide contact information if the implementing partner is not the NDA/focal point

Name of institution: United Nations Environment Programme (UNEP) on behalf of The Climate Technology Centre and Network (CTCN)

Name of official: Kelly West

Position: GCF AE Focal Point

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Rajiv Garg, gargr@un.org
Hemini Vrontamitis, Hemini.vrontamitis@un.org; unep-gcf@un.org

1.5 Title of the Readiness support proposal

Technical guidance and support to conduct a technology needs assessment and a technology action plan for Paraguay

1.6 Type of Readiness support sought

Please select the relevant GCF Readiness objective(s) below (click on the box – please refer to Annex I and II in the Guidebook):

- ☐ I. Capacity building
- ☒ II. Strategic frameworks
- ☐ III. Adaptation planning
- ☒ IV. Pipeline development
- ☐ V. Knowledge sharing and learning

1.7 Brief summary of the request

The purpose of this proposal is to offer technical guidance and support to Paraguay to conduct a sectoral technology needs assessment (TNA) and develop a technology action plan (TAP). The sectoral TNA will complement the national processes and enable technology transfer to aid in the realization of the country climate change and development strategies as contained in their National Development Plan (PND) 2030, NDC, National Climate Change Policy (NCCP), National Climate Change Strategy, NAP and National Mitigation Plan.

The sectoral TNA assistance will focus on technology prioritization, whose process will focus on the costs and benefits of technologies within the national context. Additionally, it will focus on a technology action plan that will outline a group of measures for addressing barriers and accelerating the development and transfer of prioritized technologies. It will also incorporate components of capacity building to governmental and non-governmental institutions such as the private sector.

This sectoral TNA work to be conducted in Paraguay will greatly contribute to establishment of coordination mechanism amongst the UNFCCC focal point as well as other key climate stakeholders within the country. These will enhance their capacity to effectively fulfil their roles and responsibilities to drive the country action on climate change. The output of this work, which will include development of technology Action Plans (TAP) and concept notes for the action plan implementation, will contribute to the country programming process. The development of transformational pipeline projects concept note will thus strengthen the framework to channel climate investment and funding in the country.

The process involves institutional strengthening to enable effective coordination of action and will reflect a country-driven, participatory approach among the different actors in the prioritized sectors. The anticipated outcomes are envisioned to present strategies for long-term, participatory transformational measures across the identified and prioritized sectors that will drive climate resilient and low carbon growth. Crucial to its implementation is the achievement of high-level political support, fund mobilization and private sector and key stakeholders' engagement. The work will be conducted taking into consideration the broader context of the Technology Needs Assessments conducted by many countries and recognized by the COP as a key element for technology identification and planning to address climate change challenges. The development of the reports will take into account the guidance developed and available on <http://www.tech-action.org/>

1.8 Total requested amount and currency

USD 299,181

1.9 Implementation period

18 months

1.10 Is this request a multiple-year strategic Readiness implementation request?

- ☐ Yes
- ☒ No

For more information on how a country may be eligible to access Readiness support through this modality, please refer to **Annex IV of the Readiness Guidebook**.

1.11 Complementarity and coherence of existing readiness support

☒ Yes

☐ No

Paraguay is receiving support from the GCF on the following readiness and preparatory support:

- Support for NDA strengthening and country programming, through a readiness support entitled “Strengthen mechanisms for access and financing of projects to address the challenges of climate change”. An extension was granted until March 2021. This includes (i) Design an operational and effective coordination unit within the organizational structure of the STP on matters related to the GCF; (ii) Establish a National Coordination Mechanism (NCM) lead by the NDA for the articulation with other Ministries, including developing the governing instrument for this mechanism (NCM); (iii) Design of the procedure for the no objection for project/programme proposals; (iv) Prepare a Country Work Programme including Paraguay’s Sustainable Development Priorities with respect to the GCF made consistent with country’s existing National Development Plan 2015 -2030, other strategic plans and the Fund’s initial results management framework; (v) Design a strategy to mainstream a gender approach in instances of participation of stakeholders related to GCF matters; (vi) Identify potential direct access entities with strong capacities to initiate the accreditation process; (vii) Designing a mechanism for private sector involvement in the consultation process and presentation of projects related to the actions of GCF.
- “Enhancing the role of Local Development Councils to contribute to the implementation of the country’s NDC and access to climate finance”. This readiness proposal has four objectives: i) assess, diagnose and prioritize emerging municipalities with the potential to contribute to the enhancement of the implementation of the NDCs; ii) strengthen capacities of LDC in the twelve selected municipalities to mainstream climate change in their local development agenda and enhance stakeholder engagement; iii) develop Climate Change Action Strategies and subsequent concept notes to access climate finance from the GCF, and iv) share best practices and lessons learned amongst local governments to serve as basis for the strengthening of regional and national climate change, gender and territorial strategies. This readiness support will finalize in 2020.
- Advancing a regional approach to e-mobility in Latin America: the project will support 14 Latin American countries (namely, Argentina, Costa Rica, Cuba, El Salvador, Guatemala, Honduras, Nicaragua, Panama, Paraguay, Uruguay, Colombia, Ecuador, Mexico and Dominican Republic) to identify and address the main barriers for electric mobility by providing the necessary assessments, capacities and financing alternatives to accelerate adoption of electric mobility technology. It was approved in November 2019 and

it is currently under implementation.

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The country has also other GCF Readiness under preparation:

- Enhancing climate finance and investment in LAC banking sector (ALIDE as the delivery partner):
 1. Undertake a Regional Overview on the state of the art of climate finance in Latin America and recommendations to improve ambition, investment scale and exchange of experiences across the sector. The project emphasizes on supporting potential Direct Access Entities to assess their portfolio on climate change and meet GCF accreditation process standards, while mobilizing interest of national sustainable finance platforms to engage with GCF and climate finance opportunities.
 2. Streamlining Financial Institutions involvement in NDCs and CP implementation processes, by producing situational analysis and recommendations for portfolio prioritization at the regional/national scale, pilot experiences and submission of Concept Notes to the GCF.
 3. Promotion of joint investments and strategic alliances among FIs and AEs, testing pertinence of special vehicle purposes, private public partnerships (PPPs), green bonds and other innovative financial mechanisms for climate investment at scale in Latin America.
- Strengthening Paraguay's capacity to access climate finance through DAEs nomination, sub-national Climate Finance Roadmap development and pipeline strengthening (GGGI as the delivery partner):
 1. Development of Sub-National Climate Finance Roadmap for an effective and efficient climate finance architecture to support NDC implementation and National Climate Finance Strategy
 2. Development of sub-national investment plans and based on these, develop GCF concept notes.
 3. Development of project concept notes based on prioritized sectors' investment plans for submission to the GCF.
 4. Support the country's access to the GCF through candidate DAE nomination and gap assessment for GCF accreditation.
 5. Strengthen capacity to develop green investment projects and access international climate finance
 6. Improve the planning and programming capacity of core country stakeholders to contributed to GCF-funded Readiness Programmes

2. SITUATION ANALYSIS

Paraguay is a landlocked developing country (LLDC) with a highly dependent economy on the primary sector, which makes it highly vulnerable to the effects of climate change, such as temperature increase, pattern change in rainfall, and intensity and frequency increase of extreme weather events.

Since the country acceded to the United Nations Framework Convention on Climate Change (UNFCCC) in 1993 and ratified the Kyoto Protocol in 1999, initiated the setting up of the institutional and regulatory framework to climate change management. The instruments specifically related to the management of Climate Change in Paraguay are mainly framed in the National Development Plan 2030 and the National Environmental Policy.

The National Development Plan 2030 presents Paraguay's Vision 2030 and is organized around three thematic pillars: i) poverty reduction and social development; ii) inclusive economic growth, and iii) insertion of Paraguay in international markets. Among the economic, social and environmental objectives presented in the plan, some are linked to the mitigation and adaptation to climate change, resulting in the need to develop a sustainable energy matrix, to incorporate technologies for the exploitation of new sources of sustainable energy, and to promote the sustainable management of forest ecosystems and promote reforestation activities.

Resulting from its National Climate Change Policy (NCCP, 2011), Paraguay has developed the National Climate Change Plan, which includes the Mitigation Strategy (phase I) and the Adaptation Strategy (phase II), resulting in the National Adaptation Plan and the National Mitigation Plan.

The National Adaptation Plan (NAP, 2016) identifies vulnerable sectors, previously defined in the National Climate Change Policy. These sectors are (i) agricultural production and food security, (ii) water resources - risk management and reduction, (iii) health and epidemiology, (iv) infrastructure, transportation and energy and (v) environment, forests and fragile ecosystems, including the transversal sectors of (vi) education and dissemination, and (vii) regulatory and legal aspects as well. The NAP includes sectorial actions and will lead to the elaboration of sectorial and local adaptation plans. The National Mitigation Plan (NMP, 2017) presents 7 action plans¹ focused mainly on the following sectors: energy, land use, land-use change and forestry (LULUCF) and waste.

In addition, Paraguay presented 3 national communications (April 2002, December 2011, September 2017) with their respective greenhouse gases (GHGs) inventories to the UNFCCC. Signatories of the Convention are requested to report periodically on their inventory of anthropogenic emissions and removal of GHGs not controlled by the Montreal protocol as well as details of the activities the Party has undertaken to implement the Convention.

This Third National Communication (TNC) included GHG inventories for the base years 2012, 2005 and 1994 (recalculation) and covered the following sectors: land use, land-use change and forestry (LULUCF), agriculture – agricultural and livestock activities –, energy, waste and industry. The sector with the highest contribution corresponds to LULUCF, followed by the agriculture sector and the energy sector

Paraguay also presented the first Biennial Update Report (BUR1, 2015), the Second Biennial Report (BUR2, 2018) and is working on the elaboration of its Third Biennial Update Report (to be reported in 2020). According to the last inventory from 2015 presented on the BUR2, emissions from the agricultural sector represent 53% of the country's total GHG emissions, followed by LULUCF and, to a lower extent, energy, Industrial Processes and Product Use (IPPU), and waste.

The country's NDC aims to reduce GHG emissions but no sectors were prioritized; it is mentioned that all sectors that are mentioned on the IPCC methodology guides will be included in the GHG inventory. However, the following priority sectors are prioritized for financing, both for mitigation and adaptation: Food security and sovereignty, water (provision and sanitation), energy, biological diversity and forests, health, clean industries, infrastructure and transportation. Regarding adaptation, the NDC mentions more specifically the following priority sectors: forests, agricultural and livestock production, territorial Planning, energy, infrastructure, health and sanitation, risk management and natural disasters, and early warning systems. However, no specific measures were presented.

¹ (i) integrated management of the transport sector, (ii) clean cooking - construction of stoves for efficient use of biomass conditioned to reforestation, (iii) replacement of stoves with Liquefied Petroleum Gas (LPG) by induction cookers in urban areas, (iv) Chaco-Forest: sustainable use of the Chaco forests, (v) functional restoration of forest landscapes, (vi) waste management and (vii) sustainable architecture.

Technology is an important aspect to be taken into consideration in climate change both in strengthening mitigation and adaptation measures and building resilience. The absence of a comprehensive Technological Need Assessment (TNA) for the country increases the difficulties in determining the level and extent of support needed for implementation of the National Determined Contribution (NDCs) and other national development priorities as well as the Sustainable Development Goals (SDGs). International cooperation is cited as an important prerequisite for leveraging of inputs for the implementations of the NDC. Among them is improving and adoption of technologies for climate change mitigation and adaption.

Paraguay faces obstacles to advance climate technologies adoption needed to strengthen mitigation and adaptation measures and building resilience. The country faces lack of specialized skills required in climate technologies, innovations and knowledge. Other barriers include inadequate infrastructure services to ease acquisition of appropriate technologies, lack of market awareness, lack of research and development of green technologies, inadequate incentives and enabling environment for technology transfer. Generally, these barriers affect the development and transfer of climate technologies in the country.

This proposal will support the country to develop its sectoral technology needs assessment (TNA) and a technology Action Plan (TAP) that will guide the TNA implementation. The concept notes developed through this proposal for the TAP implementation will inform the country's project pipeline that will spur national and multilateral climate financing to enable the country fulfil their NDCs ambitions. The sectoral TNA assistance will focus on technology prioritization for priority sectors guided by the NDC and will include costs and benefits of technologies within the national context. Additionally, it will focus on a technology action plan that will outline a group of measures for addressing barriers and accelerating the development and transfer of prioritized technologies. The sectoral TNA process of identification and prioritization of the climate technology will be conducted in a consultative manner that entail bring together various stakeholders including the NDA, NDE (NDCC-MADES²), and other key institutions: academic, research, indigenous group, private sectors among others. This will ensure enhancement of the stakeholders capacity to support the planning and country programming process and implementation of climate change activities in the country. The work will also incorporate components of capacity building to governmental and non-governmental institutions such as the private sector. The anticipated outcome is to present strategies for a long-term, participatory transformational measures across the identified and prioritized sectors that will drive climate resilient and low carbon growth.

² Dirección Nacional de Cambio Climático - Ministerio del Ambiente y Desarrollo Sostenible del Paraguay

3. LOGICAL FRAMEWORK

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
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³Please briefly elaborate on current baselines on which the proposed activities can be built on, processes that are in place that the current Readiness proposal can strengthen, or any gaps that the proposed activities would fill in. If more space is needed, please elaborate this in Section 4.

⁴ Please include tangible and specific deliverables for each activity proposed, Please note that during implementation all deliverables should be included within the implementation reports for GCF consideration.

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
Outcome 1.3: Relevant country stakeholders (which may include executing entities, civil society organizations and private sector) have established adequate capacity, systems, and networks to support the planning, programming, and implementation of GCF-funded activities.	Communication has been initiated between NDA, NDE and other climate finance focal points to identify points of coordination.	Agreements reached on coordination between NDA, NDE and other climate finance focal points with enhanced capacity to drive climate change action to achieve the countries climate commitments as per the NDC.	Output 1.3.1 Effective coordination mechanism between NDA and NDE for the UNFCCC Technology Mechanism and other climate finance focal points	<p><i>This activities aim to engage key actors from relevant Government Ministries and sectors to prioritize technology options as inputs into the TNA development exercise. The effort will be coordinated by the office of the NDE, in consultation with the NDA, ensuring the interface with the CTCN.</i></p> <p><i>The work along all the outcomes will be executed with the cooperation and support of the NDA – as proponent of the request for technical assistance – and the Secretariat of Technical Planning for Economic and Social Development in particular.</i></p> <p>Activity 1.3.1a: Development of CTCN planning and communication documents</p> <p>A detailed work plan of all activities, deliverables, outputs, deadlines will be prepared by the selected implementing organisation in order to enable all parties involved in the implementation (NDE and NDA included) to track and plan ahead their time around the project execution.</p> <p>In order to ensure proper monitoring and post-evaluation of the project, a monitoring and evaluation plan using the CTCN template and taking into account UNEP guidelines will be developed. This will help the country identify measurable, viable and relevant indicators for assessing the impact of the project in conjunction with a Closure and Data Collection Report at the end of the project implementation (see CTCN's template for guidance).</p> <p>Additionally, at the beginning of implementation, a one-page description of intended outcomes and impacts of the project will be drafted (to be revised at the end of implementation), that considers gender dimensions. This is in order for the country to have a communication document and disseminate in relevant events the objectives, anticipated impacts and alignment with INDCs and SDGs of the current project.</p>	Deliverable 1.3.1a (i): CTCN Work plan
	<p>Stakeholders for the TNA national consultation are not identified.</p> <p>No TNA Committee in place.</p>	<p>Stakeholders are identified in an efficient manner maintaining balance between a reasonable number and an appropriate representation of relevant categories.</p> <p>A TNA Committee is established.</p>		<p>Activity 1.3.1b: Conduct stakeholder's analysis</p> <p>This activity will include:</p> <ol style="list-style-type: none"> 1. Identification of key stakeholders to be directly involved in the National TNA Committee running the project, including key ministries in charge of the different sectors and associated organizations, private sector, research organizations and gender 	Deliverable 1.3.1a (ii): CTCN Monitoring and evaluation plan
					Deliverable 1.3.1a (iii): CTCN Impact description
					Deliverable 1.3.1a (iv): CTCN Closure and Data Collection report
					Deliverable 1.3.1b (i): Stakeholder mapping report, where roles and responsibilities are specified.
					Deliverable 1.3.1.b (ii):

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
				<p>focal points.</p> <p>2. Identification of key stakeholders in the TNA and TAP process and elaborate on how their engagement is incorporated in these processes. The NDE/NDA will be the main reference within the Government for the implementation of the TAP. Clarify roles and responsibilities of each stakeholder at the country level to be consistent with national objectives, recognizing the distinct roles, experience and contributions to technology use and adoption of men and women.</p> <p>This activity will be done in accordance with the guide for "Identification and Engagement of Stakeholders in the TNA Process: A Guide for National TNA teams".</p> <p>Meetings and interviews will be conducted. It is anticipated that the engagement of stakeholders across the public and private sectors of Paraguay will be resource intensive. The stakeholder mapping will be finalized and agreed in a two-day meeting with the NDE and NDA.</p> <p>During the activity, the type of participants to be invited to the various workshops will be defined. The approach will be to reach a representation of institutions, civil society, private sector and academia enabling a proper outreach, dissemination and institutionalization of the project results as well as local communities' involvement. Representatives of main constituencies, e.g. youth, RINGO, BINGO, ENGO will be reached out. Gender aspects will be also considered through fair representation of women and men as well as through participation of gender focal points and associations that promote gender equality and the empowerment of women (GEEW).</p> <p>Each workshop is expected to have a number of participants between 30-40 persons. This activity will be compatible with the general country situation regarding the ongoing pandemic COVID19. The measures being adopted by the CTCN to limit the spread of the pandemic is putting a premium on virtual meetings.</p>	<p>Report of the 2 -day stakeholders' workshop (including list of participants, photo and other relevant documentation)</p>
				<p>Activity 1.3.1c: Support the establishment of a TNA Committee</p> <p>This activity will include:</p> <p>1. Selection of the TNA committee members. The TNA Committee is the key guiding body of the project. Its role is to provide high level guidance and help secure political acceptance for the TAP. The exact composition role and responsibilities will depend on national context. The TNA committee will be formed by approximately 10 members, including the TNA coordinator. The TNA Committee will</p>	<p>Deliverable 1.3.1c (i): Official government circular establishing the national TNA committee</p> <p>Deliverable 1.3.1c (ii): TNA Committee Constitution document informing on the</p>

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
				<p>include representatives from the public, private, and academic sectors and consider gender balance and appropriate representation. The NDE and NDA will play a leading role in supporting the establishment of the TNA Committee. In order to streamline the process, it is recommended that the NDE, in his/her role of technology focal point within UNFCCC, should also take the TNA focal point role.</p> <ol style="list-style-type: none"> 2. Preparation of the TNA Committee Constitution document where rules and procedures of the TNA process, and roles of the different members will be defined. 3. Establishment of a centralized office for TNA coordination to enable the coordination mechanism to commence. 4. Support the TNA Committee on targeted selection of the key stakeholders to engage in the process based on the stakeholder mapping. The TNA Committee will be responsible for appointing key stakeholder groups and ensure their participation and engagement during its execution. The roles and responsibilities of stakeholders will be defined for the TNA process, including for the review of outcomes and for providing technical input. 5. Organization of a capacity building training on the TNA processes across all national stakeholders over 2 workshop sessions (2 days for each workshop) on the overall process and different steps for conducting the TNA (workshop 1), and on the participatory planning and prioritization tools (e.g. multi criteria assessment tool, stakeholder engagement tools, and approaches for gender inclusiveness) (workshop 2). Training material will be shared with the participants. The training will strengthen the knowledge about the TNA process to be followed and the engagement of the national stakeholders involved in the process. Additionally, it will include the importance of understanding and applying environmental and social safeguard approaches, including incorporation of gender considerations throughout the process, developing the TNA and prioritizing technologies. This activity will be compatible with the general country situation regarding the ongoing pandemic COVID19. The measures being adopted by the CTCN to limit the spread of the pandemic is putting a premium on virtual meetings. 6. A work plan that will define and schedule TNA meetings to be conducted in country for stakeholders engaged in the TNA committee will be developed. The TNA Committee will be engaged at all important steps of the TNA process to ensure national consultation and country ownership of the process and results of the work, the 	<p>work of the TNA Committee (terms of reference)</p> <p>Deliverable 1.3.1c (iii): Rental contract of the centralized office for the coordination of activities, if necessary</p> <p>Deliverable 1.3.1c (iv): Report on the 2 workshops organized, including a full list of participants and photo documentation.</p> <p>Deliverable 1.3.1c (v): TNA Committee Work plan</p> <p>Deliverable 1.3.1c (vi): Report of quarterly TNA committee meetings</p>

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
	No formal participation process has been established for engagement of private sector climate technology deployment in the country	Established engagement mechanisms for private sector and enhancing their capacity to get involvement of private sector in climate technology deployment	Output 1.3.2 Private sector (with a focus on SME) capacity is strengthened and an enabling environment for their participation in climate technology adoption through innovative new business identification training programme is created	Activity 1.3.2a Enhancing SME capacity and enabling environment through innovative new business identification training programme The private sector will play a key role in achieving climate goals. This activity aims at engaging with the private sector/ SMEs within the country and assisting in the identification of the country's' business needs and exploring new business opportunities in climate technology. This activity will gain input of the private sector actors and perspective sharing on the market readiness of technologies and the potential deployment. A two-day workshop will be organized for up to 50 public and private stakeholders. The workshop will present the results of the outcome 2.2 activities, including but not limited to the technology identified and the TAP. The workshop will share lessons learned coming from the private sector, engage public and private stakeholders in topic/sector roundtables, and identify innovative business and training programmes. The list of participants will be prepared in consultation with the TNA Committee and will target private sector actors in the country. The identification of these actors well in advance is essential for the success of this activity. Gender balance of participants and facilitators will be promoted.	Deliverable 1.3.2a (i): Workshop report, including a full list of participants, photo documentations. The reports will include the innovative business and training programmes identified.
Outcome 2.2: GCF recipient countries have developed or enhanced strategic frameworks to address policy gaps, improve sectoral expertise, and enhance enabling environments for GCF	Some sectors have been identified in the NDC, NAP and NMP. No appropriate climate technologies have been identified and prioritized.	Four (4) sectors are prioritized, which contribute to the update of the NDC. The most appropriate climate technology solutions are identified and prioritized in accordance with national strategies	Output 2.2.1 Appropriate climate technology solutions are identified and prioritized and relevant action for increased access to finance is identified	Activity 2.2.1a: Pre-selection of sub-sectors for the fulfilment of Paraguay's TNA The objective of this activity is to identify and obtain consensus about priority sectors (and subsectors) to shape the TNA. An analysis of the sectoral priorities expressed in the national development policies and strategies (including national policies for private sector engagements and gender mainstreaming), National Development Plan 2030, the National Climate Change Plan, the National Mitigation Plan, the NAP, the NDC and National Communications to UNFCCC, and other key strategic framework documents will be undertaken. As an outcome of this examination the TNA committee will produce a report describing the alignment of the TNA-TAP with national plans and other relevant grants received by the country. This will represent a participatory	Deliverable 2.2.1a (i) Report on TNA-TAP alignment with national plans/grants Deliverable 2.2.1a (ii) Report on analysis of sectoral priorities expressed in national documents Deliverable 2.2.1a (iii) Report describing the

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
programming in low-emission investment		<p>and plans, based on a comprehensive analysis of technology options to address specific climate impacts.</p> <p>Prioritized climate technologies are operationalized through a Technology Action Plan</p>		<p>work that will contribute to harmonize the national initiatives on climate.</p> <p>Based on this analysis, four (4) sectors will be selected by the TNA committee during a series of meetings facilitated by the provision of selection methodologies. These sectoral priorities will allow for the identification of mitigation and adaptation technologies (up to 4 per sub-sectors), as well as their environmental and social dimensions (incl. gender dimensions).</p> <p>Sectoral working groups will be constituted by the National TNA Committee for each prioritized sector. These will include representatives of government departments that have responsibility for policy formulation and/or regulation; private and public sector industry representatives; delegates from electric utilities and regulators; representatives from technology suppliers, finance, technology end users (e.g., households, small business, farmers), associations that promote GEEW and technology experts (e.g. from universities, consultants, etc.).</p>	<p>methodology utilized for sector and subsector selection and prioritization.</p> <p>Deliverable 2.2.1a (iv)Stakeholders consultation workshop report.</p>
				<p>Activity 2.2.1b: Assess, prioritize and validate key technologies for the fulfillment of Paraguay's TNA</p> <p>The objective of this activity is to assess, validate and prioritize key technologies with sectoral working groups.</p> <p>In preparation of the workshops, technology fact sheets will be prepared (up to 10 per sector). Relevant sources of information include the Climate Techwiki and guidebooks published by UNEP DTU.</p> <p>Additionally, a list of criteria and/or a criteria tree for assessing adaptation and mitigation technologies which will be inputted to the Multi-Criteria Analysis (MCA) will also be prepared. A data information system will be created for capturing input to technology prioritization and selection as well as for having the function of a repository of key documents produced during the assessment process. They could be reused for future updating and further deepening of the TNA process.</p> <p>The prioritization and validation will be done through a series of 4 workshops (one workshop per sector). The stakeholders invited will be selected together with the TNA committee and limited to 20 participants per workshop (see role TNA committee in activity 1.3). Gender balance of participants and facilitators will be promoted.</p> <p>During the workshops, up to 3 technologies per sector will be prioritized using the MCA, based on criteria covering key economic, social and environmental aspects as well as innovation and RD&D factors. This</p>	<p>Deliverable 2.2.1b (i) Up to 40 technology fact sheets (10 per sector)</p> <p>Deliverable 2.2.1b (ii) Report detailing the set of criteria for the MCA exercise</p> <p>Deliverable 2.2.1b (iii) Workshops reports, including a full list of participants and photo documentations.</p> <p>Deliverable 2.2.1b (iv) Final reports including a mitigation TNA report and an adaptation TNA report.</p> <p>Deliverable 2.2.1b(v)</p>

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
				<p>ensures that technologies selected are the best available solution to fulfill key environmental and social safeguards.</p> <p>At the end of the activity, final reports including a mitigation TNA report and an adaptation TNA report resulting from technology prioritization will be developed. Both reports will be gender mainstreamed.</p>	Database in the most suitable format
				<p>Activity 2.2.1c Development of a Technology Action Plan per sector and /or sub sector</p> <p>This activity aims to develop a Technology Action Plan (TAP) comprising recommendations on project ideas for each of the analyzed sectors. It quantifies the potential impact of priority technologies. The process for the development of this TAP will involve interviews and bilateral consultations with key stakeholders across the public, private and academic setting and will target various experts depending on the (sub) sectors and technology prioritized. The TAPs will be gender mainstreamed.</p> <p>The key output will be an identification of programmatic activities, financial costs and a framework identifying the critical path of actions to be undertaken to meet the Paraguay's climate objectives when implementing the TNA.</p> <p>For each sector, the Action Plan will:</p> <ul style="list-style-type: none"> - Elaborate detailed project ideas (circa 10 pages), including time frames and estimated budget requirements for each prioritized technology⁵; - Articulate project idea objectives, outputs, in relation to national policy priorities, deliverables, activities, and monitoring/evaluation methods; - Conduct barriers analysis and assessment of enabling environment for the development and deployment of the identified technology; - Elaborate on innovation and RD&D. This is a topic that has been introduced into the new Technology Framework at COP24. The country will also receive indications on how to strengthen its technology innovation. This may entail an assessment of endogenous technologies and consider elements such as RD&D within the prioritized technologies and action plan; 	<p>Deliverable 2.2.1c (i)</p> <p>Report and executive summary of each Technology Action Plan for each of the priority technologies in compliance with the TNA. It will consist of a TAP providing projects implementation proposals for each prioritized sector. Each sector's section will contain 10 sub-sections (chapters) as per the list presented in the description of Activity 2.2.1c.</p>

⁵ Based on the portfolio of priority technologies within sectors and/or the identified barriers, it may be decided whether or not commonalities exist across multiple prioritized technologies, /and whether these justify a TAP that covers a whole portfolio of technologies

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
				<ul style="list-style-type: none"> - Evaluate capacity-building needs to support the implementation of the TAP; - Include a market assessment, that would entail analysis of financial schemes, value chains, risks, and overall barriers to implementation; - Present a clear financial plan with timelines, benchmarks and indicators; - Include gender assessment of the technology; - Consider regulatory, institutional, financial and information frameworks that may prevent the accelerated development of markets for identified prioritized technologies; - Determine technology impact potential in terms of Paraguay's GHG emissions reduction and adaptation targets (conditional and unconditional), employment impact, potential co-benefits (mitigation and adaptation) resulting from the implementation of technologies prioritized. 	
	Formal consultation process has not been established for climate technology identification process	A coordinated engagement of relevant stakeholders in a consultative process for the identification of adaptation and mitigation technologies	Output 2.2.2 Stakeholders engagement and information dissemination for enhanced country ownership and technology deployment	<p>Activity 2.2.2a Conduct a national consultation workshop to ensure national ownership and technology deployment</p> <p>This activity aims to engage the TNA Committee and key stakeholders (up to 50 participants) in the discussion and validation of the TAPs prepared in activity 2.2.1c during a two-day national consultation workshop, which will be gender-mainstreamed. The workshop is also aiming at selecting the most relevant project ideas within the TAP to be then transformed into concept notes in activity 4.1.1. The concept notes on specific projects will enable Direct Access Entities and the NDA to present a detailed project document to financiers (investors and/or funding institutions).</p> <p>The workshop will enable experience sharing, idea generation, lessons learned and best practices. This is aimed at assisting identified stakeholders with the familiarization of identified technologies, to enhance technical capacity, operation and maintenance, and data collection. Common methods utilized for that process include: interviews with experts and stakeholders; market mapping and problem trees; dedicated workshops; desk studies; and logical problem analyses. A session will be also included to discuss the TNA/TAP integration into governments' own planning processes across priority sectors with the stakeholders involved.</p> <p>Up to 10 regional key financial players will also be invited as well as MDBs, international donors and private sector companies in order to showcase the results of the TNA and present the project ideas selected within the TAPs.</p> <p>Private sector will be an important actor within this consultation in order to</p>	Deliverable 2.2.2a (i) Workshop report including a full list of participants and photo documentation.

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
				<p>contribute to NDC implementation. A market place space for B2B meetings will be reserved during the workshop to offer an early opportunity for business development and implementation actions of the TNA/TAP among local stakeholders and the international participants.</p> <p>The participation of the GCF Latin America and the Caribbean representative will be sought in order to undertake an exchange with NDE and NDA on the Readiness project's effectiveness and results.</p> <p>Activity 2.2.2b Support the implementation of the Technology Action Plan with communications, guidance and training</p> <p>The objective of this activity is to deliver a capacity building package for TNA key stakeholders including training and support materials for the development and application of prioritized technologies. Relevant participants will include the NDA, NDE, GCF and GEF focal points.</p> <p>The training will be delivered to the TNA stakeholders in 4 two-day sub-national workshops. The location of the 4 workshops will be decided in consultation with the TNA committee. The total number of participants per workshop is up to 20.</p> <p>Prior to the workshops, policy briefs and market-use cases for the selected technologies under activity 2.2.1b will be prepared. A dissemination strategy for the regions will also be prepared.</p> <p>Experts will be presenting the following modules:</p> <ul style="list-style-type: none"> a) market mapping and problem trees to enable them to become more familiar with identified technologies; b) gender awareness tools to enhance implementation capacities; c) access to financing of prioritized technologies across domestic and international sources. d) environmental and social risk considerations of each of the technologies; e) technical capacity, operation, maintenance and data collection; f) capacity building and technology development opportunities. 	<p>Deliverable 2.2.2b (i) Policy briefs and market-use cases for the selected technologies.</p> <p>Deliverable 2.2.2b (ii) Report on the dissemination strategy.</p> <p>Deliverable 2.2.2b (iii) Training materials for the sub-national workshops.</p> <p>Deliverable 2.2.2b (iv) Workshops reports, including a full list of participants and photo documentation.</p>
Outcome 4.1 An increase in the number of quality project concept notes developed	No quality project concept notes developed for climate technology deployment in the	Development of quality concept notes to enrich the country project pipeline	Output 4.1.1 Concept Notes for Technology Action Plans operationalization	Activity 4.1.1a Developing concept notes for priority sectors for submission to the GCF Concept notes will be developed based on the Technology Action Plan on the sub-sectoral technologies prioritized. The concept notes developed will	Deliverable 4.1.1a Two concept notes developed for climate technology deployment

Outcomes	Baseline ³	Targets	Outputs	Activities (brief description)	Deliverables ⁴
and submitted	country		developed	enable the NDA to present a detailed project document to the GCF and/or other funding institutions. This activity will take in account discussions from stakeholders' consultation under activity 2.2.2a that will include discussions to select the most relevant project idea within the TAP to be then transformed into concept notes. Concept notes will be gender-mainstreamed.	

4. THEORY OF CHANGE

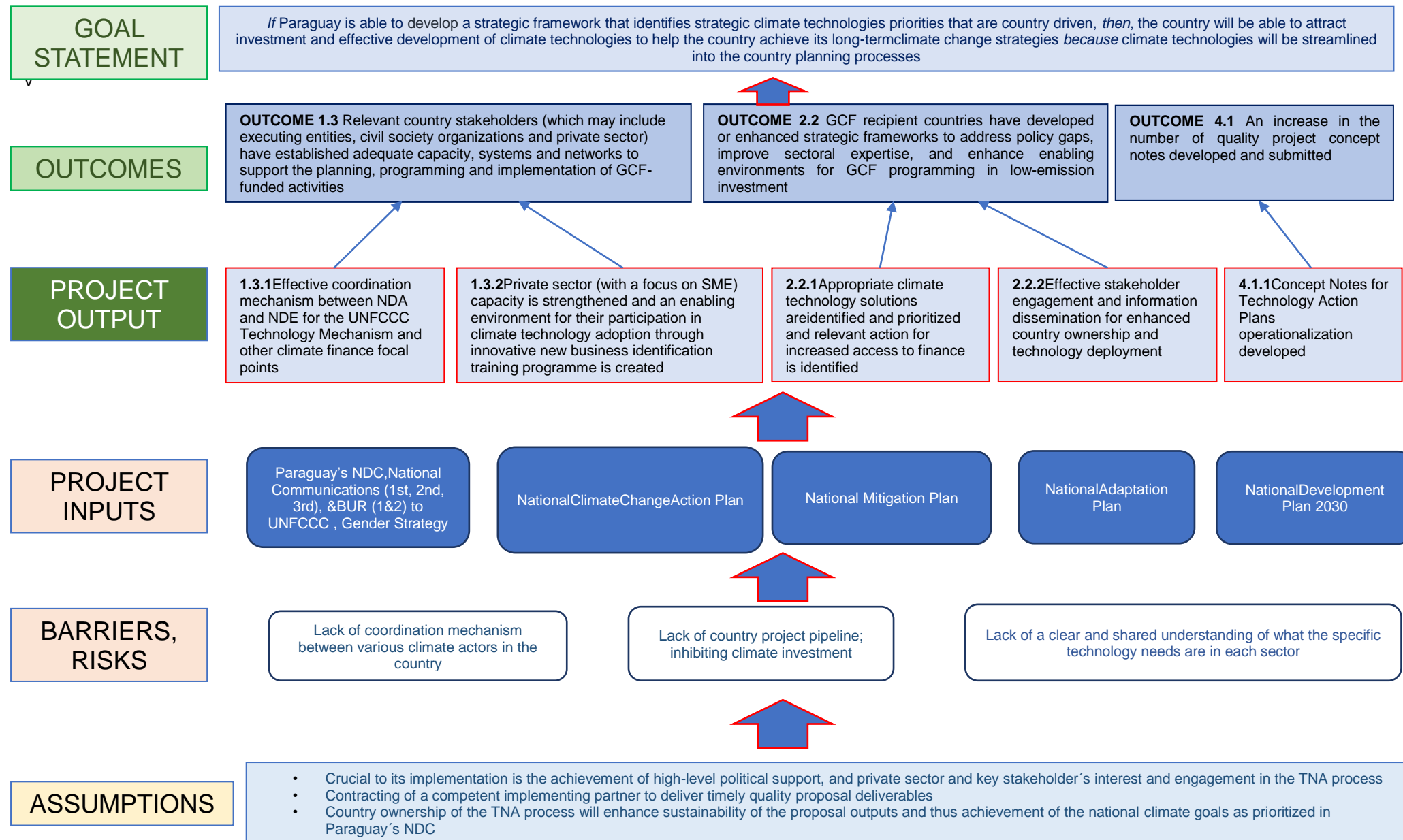
This proposal will support the country to develop its sectoral Technology Needs Assessment (TNA) and a technology Action Plan (TAP) that will guide the TNA implementation. The sectoral TNA assistance will focus on technology prioritization and will include costs and benefits of technologies within the national context. Additionally, it will focus on a TAP that will outline a group of measures for addressing barriers and accelerating the development and transfer of prioritized technologies. It will also incorporate components of capacity building to governmental and non-governmental institutions such as the private sector. The anticipated outcome is to present strategies for a long-term, participatory transformational measures across the identified and prioritized sectors that will drive climate resilient and low carbon growth.

This grant will support the sectoral TNA process that will involve institutional strengthening to enable effective coordination of climate action that will reflect a country-driven, participatory approach among the different actors to drive effective climate technology deployment for Paraguay prioritized sectors. The proposal contributes to the following key outcomes:

- Relevant country stakeholders (NDA/NDE, civil society organizations and private sector) have established adequate capacity, systems, and networks to support the planning, programming, and implementation of GCF-funded activities
- Enhancing Paraguay strategic frameworks to address policy gaps, improve sectoral expertise, and enhance enabling environments for GCF programming in low emission investment
- Development of transformational quality project concept notes to constitute the country's project pipeline

The grant under this proposal main **goal** is therefore to support Paraguay meet their climate change ambitions as elaborated in the National Development Plan 2030, NDC, National Climate Change Policy (NCCP), National Climate Change Strategy, NAP and National Mitigation Plan, which will greatly advice the sectoral TNA process as the key **inputs**. This will thus make a major contribution toward the country paradigm shift towards low emission and climate resilient development pathways. The proposal **outputs** will be achieved through establishment of country coordination mechanism, technology prioritization/action plan/capacity building to all relevant parties: consultation and engagement with relevant stakeholders including the private sector to ensure country ownership of the process and technologies prioritized.

The anticipated **outcomes** are envisioned to present strategies for a long-term, participatory transformational measures across the identified and prioritized sectors that will drive climate resilient and low carbon growth. The key **assumption** to effective TNA process is the achievement of high-level political support, and private sector and key stakeholders' interest and engagement in the TNA process.



5. BUDGET, PROCUREMENT, IMPLEMENTATION AND DISBURSEMENT PLAN

5.1 Budget plan

Please, see attached the completed budget plan developed in the specified GCF format.

5.2 Procurement plan

Please, see attached the completed procurement plan developed in the specified GCF format.

Please, note that the overall financial management and procurement of goods and services under this readiness and preparatory support proposal will be guided by UN regulations, rules, policies and procedures and the Framework Agreement between the GCF and UNEP.

UNEP will be responsible for the implementation of the readiness activities and for procurement and contractual services, as well as reporting on the progress of this implementation in close coordination and strategic guidance from the NDA/FP/NDE. The procurement actions and the operational services will be carried forward in accordance with UN policies and procurement guidelines. None of the parties involved in the preparation of this GCF readiness proposal can bid for the implementation of the project in whole or in part.

CTCN procedure for procurement: for a request that is eligible and prioritized, the Climate Technology Managers in charge of the respective request sources the appropriate expertise to develop the Terms of Reference of the assistance (called 'Response Plan' as per CTCN procedures). The response plan provides specific information on the technical assistance to be delivered, including activities, outputs, expected outcomes and impacts, timeline, indicators or measuring assistance progress and success, stakeholders to be involved, etc. The response plan, once finalized, is signed by the national focal point of the CTCN in the concerned country (National Designated Entity), the institution which originated the CTCN request for technical assistance and the CTCN Director and constitutes the basis of the assistance to be implemented and monitored upon the approval and in cooperation with the NDA. Based on the needs and expertise required in the response plan, a CTCN Network Member will be selected to implement it.

The selection of the institution from the Network of CTCN for the execution of the technical assistance is conducted through a competitive procurement process as per UNEP Rules and Regulations, in line with CTCN procedures and with UN Rules and Regulations (being UNEP the host of the CTCN and a specialized agency established under the UN Charter). The CTCN nurtures a Network of more than 550 expert organizations in the field of low-carbon and climate resilient technologies. The CTCN network members are drawn from organization from different countries worldwide and with work experiences across different countries including conflict and post conflict zones. The procurement criteria for execution of this work with ensure procuring of organization with pre-requisite working experience in such environments. The required expertise to carry out the activities that define this intervention will be sourced from the Network. For this, the following four principles shall be given due consideration when undertaking the procurement functions of UNEP:

- i. Best value for money principle;
- ii. Fairness, accountability, integrity and transparency of the procurement process;
- iii. Effective competition;
- iv. The best interest of UNEP.

5.3 Implementation Plan

Please, see attached the completed implementation plan developed in the specified GCF format.

5.4 Disbursement schedule

UNEP as the Delivery Partner for this Readiness and Preparatory Support Proposal will submit requests for disbursement for approved proposals to the GCF in accordance with the Framework Readiness and Preparatory Support Grant Agreement between the GCF and UNEP. Disbursement requests will be signed by the authorized representative of the UNEP and will include details of the bank account into which the grant will be deposited.

UNEP, the Delivery Partner for this R&P Support Proposal for Paraguay, will administer the grant disbursed by the GCF in accordance with UNEP's regulations, rules, and procedures including maintenance of records of grant, disbursements and expenditure.

☑ Readiness Proposal that falls within a Framework Agreement with the GCF

Disbursements will be made in accordance to Clause 4 "*Disbursement of Grants*" and Clause 5 "*Use of Grant Proceeds by the Delivery Partner*" of the Framework Readiness and Preparatory Support Grant Agreement entered into between GCF and UN Environment Programme on 11 October 2016 as further amended and restated on 2 June 2020. The Delivery Partner is entitled to submit 2 request(s) for disbursement each year and is also entitled to request one interim request for disbursement within 30 days of notification of approval

6. IMPLEMENTATION ARRANGEMENTS AND OTHER INFORMATION

6.1 Implementation arrangements

Please describe how implementation arrangements will be made and how funds will be managed by the NDA and/or the Delivery Partner.

As per UN regulations, rules, and procedures, UNEP will manage the funds for the activities under this readiness proposal. UNEP will agree on a plan with the Paraguay NDA/NDE to monitor the implementation of the activities. However, UNEP will be responsible for the implementation of the activities under this readiness and preparatory support proposal.

The selected entity from the Network will report to UNEP as per their contractual arrangement and in line with UN rules and regulations. They will produce regular progress and financial reports and will submit deliverables to UNEP. Funds will only be released when the deliverables are satisfactory and cleared by UNEP. They will return any unspent funds within ninety days of expiry or notice of termination of the UNEP.

The UNFCCC country focal points for technology (NDE) and finance (NDA) will provide active support to the selected Network Partner in the execution of this technical assistance. Their roles as country focal points will include, but not be limited to ensuring the activities associated with the implementation of this technical assistance are aligned with national climate priorities; promote and engage with key stakeholders as identified by the Network Partner; promote and present this technical assistance in climate change-related events; and participate in CTCN events and in national workshops affiliated with this technical assistance, if required. They will also be expected to provide guidance and review any relevant documents produced and will be kept apprised of the progress of the technical assistance. The role of the NDE and NDA is that of coordination and will play a key role in establishment of a TNA committee that will oversee the TNA process. The committee will ensure effective engagement of the country stakeholders to ensure country ownership of the process.

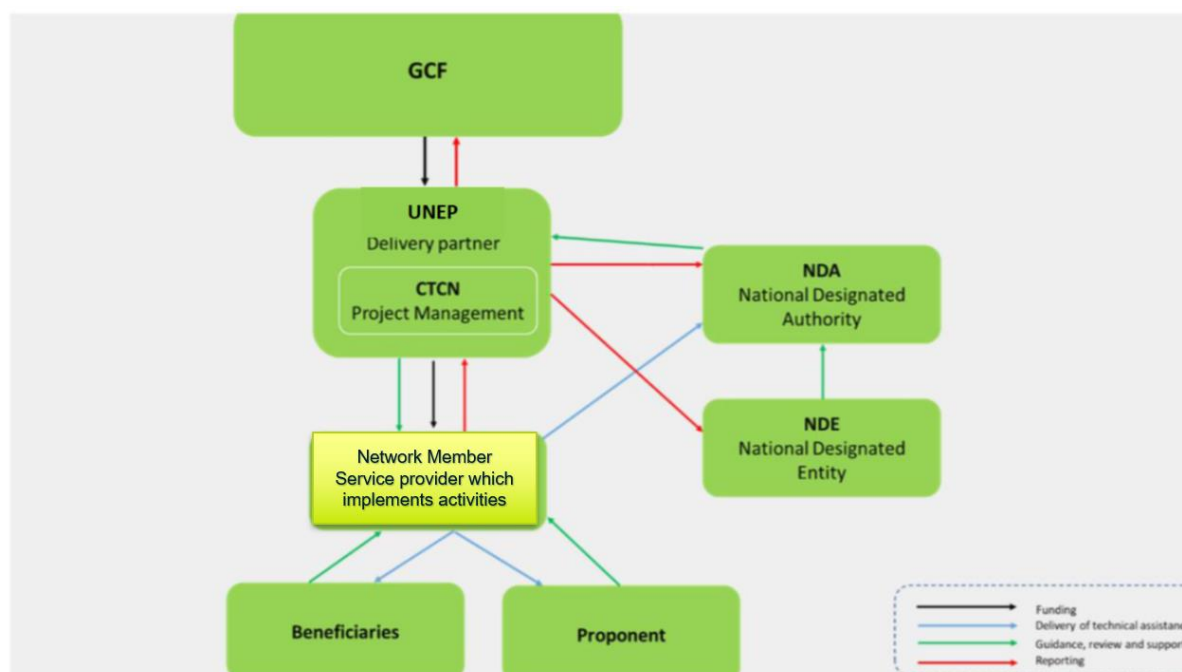
In terms of Governance: Climate Technology Centre and Network (CTCN) was established by Conference of the Parties (COP) in Cancun in December 2010. The CTCN was established to provide technical assistance and capacity building activities responding to requests from developing country parties following competitive bidding, the COP decided that the CTCN would be hosted by UNEP through a consortium to be co-led by UNIDO. This is the CTCN 'host'. CTCN also has an extensive network of organizations that can collaborate to successfully deliver this project. A network of 550 organizations has subsequently joined the CTCN.

The CTCN (hosted by UNEP-UNIDO) aims to provide technical assistance to the Government of Paraguay, as per its COP Mandate, and is thus supporting Paraguay to develop this readiness proposal. The CTCN Engagement with the Government of Paraguay is strong with close co-operation between the NDA and NDE.

For work under this proposal, UNEP will be responsible for the implementation of the readiness activities and for procurement and contractual services, as well as reporting on the progress of this implementation in close coordination and strategic guidance from the NDA/FP/NDE. The procurement actions and the operational services will be carried forward in accordance with UN policies and procurement guidelines. UNEP have significant experience of delivering and supporting similar projects among other projects in developing countries.

The implementation map below summarizes the different interactions between the different parties involved in

this technical assistance.



6.2 Implementation and execution roles and responsibilities

Please briefly describe how the activities will be implemented and outputs delivered by project staff and consultants.

CTCN processes before the selection of the Network Partner:

The CTCN process for managing technical assistance is the following: Requests for technical assistance can be prepared by any applicant organization from a developing country, but all requests must be submitted by the CTCN NDE (national focal point in the concerned country). Once submitted, all requests submitted by developing countries are assessed as per eligibility, balancing and prioritization criteria approved by the CTCN Advisory Board. The three eligibility criteria are the following: 1) The support provided will contribute to increased resilience and/or mitigate emissions, and is aligned with national plans; 2) The support will enhance endogenous capacities; and; 3) Processes are in place in the requesting country to monitor and evaluate any support provided (that is, project accountability is ensured). Balancing criteria are looking at inter and intra-regional a geographical balance (with a preference for requests submitted by LDCs and other highly vulnerable and low capacity countries; balance between adaptation and mitigation objectives, and balance between various types of support spanning the technology cycle. Prioritization criteria consider a number of elements that demonstrate project strengthen and potential for success, including the promotion of endogenous capacities and appropriate technologies, potential for scale up, for South-South cooperation, for leveraging public and private financing, for creating social, economic and social benefits, promoting gender equality etc.

Once a request is deemed eligible and prioritized, the CTCN selects the best expertise among its consortium partners to develop a response plan. The criteria for selection are: Relevant technical expertise, Experience and network in national context, Relevant language capacity, Response Planning track record, Representative use of the consortium partners in Response Planning and Feedback/ preference from the NDE.

Based on the discussion with the NDE, NDA and request proponent and feedback from the CTCN, the consortium partner develops the response plan. Once an advanced version is prepared, it is presented to CTCN's director NDE and NDA for signature. Once the response plan is signed, the Network Partner will be contracted in line with UNEP operational modalities.

6.3 Risks and mitigation measures

Please include a set of identified risks and mitigation actions for each. Please utilize the risk table below that identifies the probability of a given risk occurring and the entity that will manage the risk. Please refer to Part III Section 6.3 of the Readiness Guidebook for further information on how to complete this section.

Risk category	Specific risk(s)/Risk(s) description	Probability of occurrence (low, medium, high)	Impact level (low, medium, high)	Mitigation action(s)	Entity(ies) responsible to manage the risk(s)
Procurement risk	Delay in implementation of readiness programme	Low	Medium	Project management procedures in place. UNEP/ UNIDO will seek requests for proposals through a procurement process via the network of the Climate Technology Centre member organizations	UNEP/CTCN
Ownership of the results	True ownership by the government and other national non-state actors are used and up scaled accordingly	Low	High	Set up of a TNA committee comprising national representatives representing key stakeholders to drive the TNA process and ensure country ownership	Network Partner NDA/NDE
Engagement risk	Lack of engagement from key stakeholders	Low	Medium	Dissemination strategy and an organizational targeting to enhance primary stakeholders attend TNA related events. Local consultants with local language skills and with knowledge of the local conditions (security, culture and social orientation) are critical.	Network Partner NDA/NDE

Risk category	Specific risk(s)/Risk(s) description	Probability of occurrence (low, medium, high)	Impact level (low, medium, high)	Mitigation action(s)	Entity(ies) responsible to manage the risk(s)
Financial	Money laundering and terrorist financing; Opportunities for money laundering, terrorist financing, or other prohibited practices	Low	Medium	Implementation of this proposal will be in line with UN regulation and rules. The contractual agreement with the Network Partner will oblige the Network Partner to comply with the principles of the Anti-Fraud and Anti-Corruption Framework of the United Nations Secretariat, as well as the Green Climate Fund Policy on Prohibited Practices.	CTCN
Operational	Conflicts/ natural disasters/ Epidemics	Medium	High	Adopting alternative working modalities, including a focus on virtual meetings, to ensure project continuity in a safe and suitable manner	Network Partner CTCN/UNEP
Gender Risk	Resistance against or lack of interest in, the project activities from stakeholders, especially with regard to the active promotion of gender equality. Low	Low	Medium	This Project will pursue thorough and gender responsive integration and ensure stakeholder involvement at all levels (especially in the	Network Partner CTCN/UNEP NDE/NDA TNA committee

Risk category	Specific risk(s)/Risk(s) description	Probability of occurrence (low, medium, high)	Impact level (low, medium, high)	Mitigation action(s)	Entity(ies) responsible to manage the risk(s)
	participation rates of suitable female candidates due to lack of interest, inadequate project activity or missing qualified female population within the i.e. engineering sector.			establishment of the TNA Committee and targeting of stakeholder groups), with special regard to involving women and men. This will be done as per the GCF ESS policy.	

6.4 Monitoring

Upon UNEP-CTCN contracting the Network partner, for execution of this proposal, the Network Partner will produce a detailed work plan and a monitoring and evaluation plan for the technical assistance. The monitoring and evaluation plan must include specific, measurable, achievable, relevant, and time-bound indicators that will be used to monitor and evaluate the timeliness and appropriateness of the implementation. The CTCN Technology Manager responsible for the technical assistance will monitor the timeliness and appropriateness of the work Plan and the M&E plan for implementation. Upon completion of all activities and outputs, evaluation forms will be completed by the (i) NDE about overall satisfaction level with the technical assistance service provided; (ii) the Lead Implementer about the knowledge and learning gained through delivery of technical assistance; and (iii) the CTCN Director about timeliness and appropriateness of the delivery of the activities and outputs.

UNEP will submit semi-annual progress reports to GCF in line with the reporting requirements in the Framework Readiness and Preparatory Support Grant Agreement between UNEP and GCF.

6.5 Other Relevant Information

The CTCN (hosted by UNEP-UNIDO) is providing technical assistance to the Government of Paraguay, as per its COP Mandate, and supporting country to develop this readiness proposal. The CTCN has established close co-operation between the NDA and NDE to develop this readiness proposal. The implementing partner will be procured through formal tendering procedures if the Readiness proposal is approved for implementation. The relevant COP decisions are provided below for easy reference:

(Decision 14/CP.22: Linkages between the Technology Mechanism and the Financial Mechanism of the Convention)

Para 4. Welcomes the increased engagement between the Green Climate Fund and the Climate Technology Centre and Network, particularly with respect to utilizing the Readiness and Preparatory Support Programme and the Project Preparation Facility of the fund, noting the potential of such engagement in supporting developing country Parties to build their capacity for implementing technology projects and programmes;

Para 6. Invites Green Climate Fund national designated authorities and focal points to use the support available to them under the Readiness and Preparatory Support Programme to, inter alia, conduct technology needs assessments and develop technology action plans.

Para 7. Also invites developing country Parties to develop and submit technology-related projects, including those resulting from technology needs assessments and from the technical assistance of the Climate

Technology Centre and Network, to the operating entities of the Financial Mechanism for implementation, in accordance with their respective policies and processes;

(Decision 15/CP.22: Enhancing climate technology development and transfer through the Technology Mechanism)

Para 13. Underlines the importance of well-functioning and strengthened collaboration between the national designated authorities for the Green Climate Fund, the focal points for the Global Environment Facility and the national designated entities for technology development and transfer

Para 15. Welcomes the increased engagement between the Green Climate Fund and the Climate Technology Centre and Network, particularly with respect to utilizing the Readiness and Preparatory Support Programme and the Project Preparation Facility of the fund in order to respond to country-driven requests for technical assistance;

Para 16. Encourages the advancement of the engagement referred to in paragraph 15 above, including through the strengthening of collaboration between national designated authorities for the Green Climate Fund and national designated entities for technology development and transfer;

Para 17. Invites the Climate Technology Centre and Network to include the outcomes of the engagement referred to in paragraphs 15 and 16 above in its annual report to the Conference of the Parties at its twenty-third session."

This readiness proposal is as a result of discussions between Paraguay NDA and the CTCN focal point the NDE. This resulted to submission of a technical assistance to CTCN to support the country to conduct its sectoral TNA though the request was submitted to CTCN the NDA endorsed the use of the readiness fund for the execution of this request through UNEP (which hosts the CTCN) as the delivery partner. The proposal provides a detailed collaboration mechanism between the NDA and the NDE in the execution of the proposal which will includes their collaboration in establishment of a TNA committee that will oversee the TNA process. The committee will ensure effective engagement of the country stakeholders to ensure country ownership of the process.

Among the output for this proposal is development of concept notes that would ensure implementation of the Technology Action plan, the CN thus create quality potential project pipeline that can be further developed into proposal for GCF financing. The proposal recognizes the important role of the private sector in advance climate action in the country. The proposal has included a component for capacity building to private sector that would enhances their capacity and knowledge to engage in climate change. This is expected to enhance sustainability of this work.

To avoid any possible conflicts of interest deriving from the delivery partner's role as an accredited entity, the prioritization of investments and projects in the context of this readiness grant, will be made through a broad consultation process with relevant stakeholders, including other potential implementing entities. The final validation of these priorities will be carried out through the countries' own relevant coordination mechanism and institutional arrangements, with the participation of other government agencies, as well as representatives from civil society and private sector as the NDA deems relevant, to ensure chosen priorities are fully aligned with national plans and strategies and adequately includes inputs from consulted stakeholders.