

Technical Assistance Response Plan - Terms of Reference

Country	Chile
Request ID#	2021000010
Title	<i>Technology needs assessment (TNA) and technology action plan (TAP) to implement the NDCs</i>
NDE	<p><i>Mr. Giovanni Calderón, Executive Director Climate Change and Sustainability Agency Phone: +56 2 2688 4500 Email: giovanni.calderon@ascc.cl Santiago de Chile</i></p>
Proponent	<p><i>Ms. Carolina Urmeneta Head of the Climate Change Office Ministry of Environment +562 2573 5800 curmeneta@mma.gob.cl</i></p> <p><i>Mr. Leonardo Muñoz Cabinet Advisor Ministry of Science, Technology, Innovation and Knowledge +56 9 92982745 lmunoz@minciencia.gob.cl</i></p> <p><i>Mr. Giovanni Calderón, Executive Director Climate Change and Sustainability Agency +56 2 2688 4500 giovanni.calderon@ascc.cl</i></p>

Summary of the CTCN technical assistance

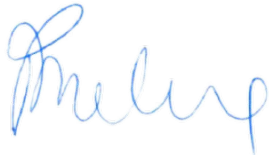
The summary should provide a brief description of the problem (barrier to climate technology deployment) and how the technical assistance will address it (brief summary of outputs and activities). Please also briefly indicate national actors involved and the anticipated timeline. Please note this summary will be used for public communication purposes so it is important that it is well written. (maximum 1250 characters including spaces)

In order to transition to a climate-resilient and low-carbon development, Chile needs to structurally adopt environmentally and socially sound, cost-effective, and better-performing climate technologies on a large and widespread scale. As prioritized in its 2015 NDC, Chile aims to conduct a Technology Needs Assessment (TNA) for which it has already started the identification process of prioritized sectors in 2018. At this stage, Chile has prioritized the following four sectors for a detailed assessment of specific technology needs: (1) Water Resources; (2) Forestry and Agriculture; (3) Energy; and (4) Waste Management.

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The CTCN technical assistance will carry out and coordinate the TNA-TAP process by strengthening Chile’s institutional capacity and coordination mechanisms; to identify technology solutions in accordance with the prioritized sectors and national strategies; developing a Technology Action Plan per challenge, sector and/or sub (sector); and to ensure national ownership and technology deployment; supporting the implementation of the Technology Action Plan with communications, guidance and training; enhancing SME capacity and improving their enabling environment while supporting the country contributions detailed in the “Implementing and operating mechanisms and instruments for the analysis of needs and for the implementation of technological action plans in specific areas.” of its NDC.

Agreement:	
<i>(If possible, please use electronic signatures in Microsoft Word file format)</i>	
National Designated Entity to the UNFCCC Technology Mechanism	Proponent (signature of the Proponent is optional)
Name: Mr. Giovanni Calderón	Name:
Title: Executive Director	Title:
Date: Please find at the end of the document the electronic signature with its date. Signature: Please find at the end of the document the electronic signature with its date.	Date: Signature:
UNFCCC Climate Technology Centre and Network (CTCN)	
Name: Rose Mwebaza	
Title: CTCN Director	
Date: 18.06.2021 Signature: 	

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1. Background and context

Please provide a brief description of the background and context for the CTCN Response Plan. Please include national and sectoral information using recognized and publicly available sources. (maximum 2500 characters including spaces).

Transitioning to a Climate-Resilient and Low-Carbon development means adopting environmentally and socially sound, cost-effective, and better-performing climate technologies on a large and widespread scale, which are generally lacking in developing countries. A comprehensive assessment of technical and technology needs appears urgent in order to align Chile's development vision with its commitments under the NDC. In fact, the undertaking of a TNA has been, in itself, part of the Chilean NDC since 2015.

In 2018 Chile took the first steps of a TNA process. As a result, and through an analytic hierarchy process that involved multi-attribute utility analysis, simple multiple attribute ranking theory and expert judgement, three sectors were prioritized out of 14 outlined in the third national communication: Water Resources; forestry and agriculture; and Energy.

During 2020, the Inter-Ministerial Technical Team on Climate Change, a technical body that oversees climate policy, validated the development of a TNA request with the aforementioned three sectors on the April 30th session. The final version of the Strategy for the Development and Transfer of Technology for Climate Change, confirmed these 3 three sectors as the sectors to be included in the request. During consultation with several public sectors and in line with one of the 2020 NDC Circular Economy commitments, and confirmation with the proponents while reviewing the response plan, the waste management sector was included due to the increasing importance this sector is having in the last decades in the total GHG national mix. Chile now plans to continue the TNA process for these sectors.

With the CTCN assistance, Chile expects to complete the TNA process for the prioritized sectors by strengthening its Institutional capacity and coordination mechanisms; to identify technology solutions in accordance with the prioritized sectors and national strategies; developing a Technology Action Plan per challenge, sector and/or sub (sector); and to ensure national ownership and technology deployment; supporting the implementation of the Technology Action Plan with communications, guidance and training; enhancing SME capacity and improving their enabling environment.

The results are expected to provide strategies for long-term participatory transformational action in all identified and prioritized sectors to drive climate-resilient and low-carbon growth. It is also expected to strengthen the fulfilment of country contributions detailed in the “Implementing and operating mechanisms and instruments for the analysis of needs and for the implementation of technological action plans in specific areas.” of the country NDC. High-level political support, mobilization of funds and engagement of the private sector and key stakeholders are critical to their implementation. The work will be undertaken within the broader context of the technology needs assessments undertaken by many countries and recognized by the COP as a key element in identifying and planning for technology to address the challenges of climate change. Guidance developed and available at <http://www.tech-action.org/> will be considered in the development of the reports.

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2. Problem statement

Based on the national and sectoral context as detailed in the section above, please include a brief problem statement clarifying the main problems and barriers for climate change mitigation and/or adaptation in terms of climate technologies that the CTCN Response Plan will address and overcome. (maximum 1250 characters including spaces).

Chile faces obstacles to advance climate technologies needed to strengthen mitigation and adaptation measures and build resilience. Regarding the TNA process that is part of its national commitment, the most immediate barrier that needs addressing is that several prioritized challenges have no technologies identified. The lack of a clear and shared understanding of what are the specific needs in each sector is the first big barrier that hinder national efforts. Down the line, there is a lack of expertise, or a lack of knowledge regarding who has the expertise, to select the technologies that fulfill those needs. In addition, the variability of climatic and geographic conditions make it difficult to select a one-that-fits-all technology for each sector, demanding a nuanced approach to the technology selection and barrier analysis.

The CTCN technical assistance is requested in order to carry out and coordinate the assessment of technology needs for the sectors identified by Chile in order to support the country’s climate strategies and objectives. The transfer of technology in these sectors will have an impact on reducing the population’s vulnerability and, therefore, increasing resilience to climate change, as well as orient the country towards a low-carbon development path.

The sectors, sub-sectors and challenges have already been largely identified, but a final stakeholder validation will be conducted as part of the project. The challenges already preselected by the public sector are the following:

Sector	Sub-sector	Challenges ¹
Water Resources	Urban Drinkable Water	<ul style="list-style-type: none"> 1. Drought and water continuity in urban drinking water supply. 1. Alternative sources for the provision of drinking water. 1. Reuse of waters. (Grey and treated wastewater) 1. Decrease of Losses in drinking water distribution systems. 1. Risk Disaster Management in water utilities. 1. Sustainable sewage and stormwater management. 1. Water utilities and harmonious cities’ growth.
	Rural Drinkable Water	<ul style="list-style-type: none"> 1. Technology for operation and maintenance of drinking water in rural systems. 2. Access to drinking water in rural areas. 3. Water quality of drinking water in rural areas. 4. Treatment and Reuse of rural wastewater. 5. Strengthening of communities in the management of rural drinking water systems
Forestry and Agriculture ²	Forestry	<ul style="list-style-type: none"> 1. Management of silvo-agricultural climatic information at the national level.
	Agriculture	<ul style="list-style-type: none"> 1. Agroclimatic Information.

¹ Numbers reflect order of priority as indicated by sectoral agencies, starting with 1 as the highest priority.

² The activities under these challenges are expected to be synergistic to the "Activity 2.3.2: Analyze sources of information and existing systems related to the management and updating of climate information linked to the Forestry, Agriculture and Livestock sector" of the Adaptation planning support for Chile GCF project.

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Energy	Electric Generation Network	<p>1. Electric Network Climate Resilience. (including resilience metrics for decision making).</p> <p>1. Integral solutions for energy auto consumption. (Renewable Generation and storage, Distributed Active Demand, Hybrid Combinations)</p> <p>1. Energy network supply chain. (Fossil fuels and water availability)</p> <p>2. Hydrothermal coordination of the National Electric System. (including Flexibility of the National Electric System and Technology Diversification)</p> <p>2. Climatic information. (Hydro, wind radiation and extreme events)</p> <p>2. Electric Network Expansion.</p> <p>3. Energy certification and traceability.</p>
	Transport	<p>1. Freight transportation logistics. (focus on Last mile, traffic control center and urban transit)</p> <p>2. Mobility as a Service. (focus on data management, platforms, micro mobility, System Architecture for Intelligent Transport Systems)</p> <p>3. Urban transport management. (focus on analysis for decision making)</p> <p>4. Green Hydrogen for freight and public transport.</p> <p>5. Support infrastructure and charging technologies for Electromobility.</p>
Waste Management	Municipal Waste	Circular Economy applied to municipal organic waste ³ .

³ There is already a selection and prioritization of technologies for the organic waste, with several measures considered in the national organic waste strategy. An implementation plan to support their adoption, especially at the household level, is needed.

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3. Logical Framework for the CTCN Technical Assistance:

(Guidance: Please note that multiple activities lead to one Output, and multiple Outputs lead to one Outcome. There can be several Outputs, but only one Outcome description capturing the CTCN technical assistance. Deliverables are the products or services to be delivered to the NDE/Proponent/CTCN based on the Activities and the Outputs.)

		<p>Objective: Please provide a one sentence description of the Objective of the technical assistance. The objective of the CTCN technical assistance reflects what the assistance aims to produce and impact.</p> <p>The objective of this technical assistance is to carry out and coordinate the assessment of technology needs within Chile in order to advance the implementation of climate technologies in the area of adaptation and mitigation in the country and to strengthen the fulfillment of the technology component of the country's NDC.</p>
		<p>Outcome: (Guidance: The Outcome articulates changes in the institutional and behavioural capacities for climate technology development or deployment. Activities and Outputs contribute to the Outcome but the Outcome is not within the direct control of the CTCN activities). (maximum 400 characters including spaces)</p> <p>The key outcome of this technical assistance will be the accelerated adoption of technologies for climate change mitigation and adaptation leading to a reduction in national GHG emissions and an enhanced resilience of Chile’s population to climate change.</p>
		Month
		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Output 1: Development of implementation planning and communication documents		
<p>Activity 1: All implementers must undertake the following activities at the beginning and at the end of the CTCN technical assistance.</p> <p>i) A detailed work plan of all activities, deliveries, outputs, deadlines and responsible persons/organisations and detailed budget to implement the Response Plan. The detailed work plan and budget must be based directly on this Response Plan;</p> <p>ii) Based on the work plan, a monitoring and evaluation plan with specific, measurable, achievable, relevant, and time-bound indicators used to monitor and evaluate the timeliness and appropriateness of the implementation. The monitoring and evaluation plan should apply selected indicators from the Closure and Data Collection report template and enable the lead implementer to complete the CTCN Closure and Data collection report at the end of the assignment (please refer to item iv below and section 14 in the Response Plan);</p> <p>iii) A two-page CTCN Impact Description formulated in the beginning of the technical assistance and update/revised once the technical assistance is fully delivered (a template will be provided);</p> <p>iv) A Closure and Data Collection report completed at the end of the technical assistance (a template will be provided).</p>		

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<p>Deliverable 1: i) Detailed work plan ii) Monitoring and evaluation plan iii) CTCN Impact Description iv) Closure and Data Collection report</p>	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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<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, financiers 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 taken into account through equal 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) when applicable. Each workshop is expected to have a number of participants between 30-40 persons.</p> <p>The mapping of stakeholders should focus on the four pre-selected sectoral focus areas of (1) Water Resources; (2) Forestry and Agriculture; (3) Energy; and (4) Waste Management.</p>												
<p>Activity 2.2: Support the establishment of a TNA Committee</p> <p>Selection of the TNA committee members. The TNA committee will be formed by 10 members including the TNA coordinator. The TNA Committee will include representatives from the public, private, and academic sectors and consider gender balance and appropriate representation. The proponents (Ministries of Environment and Science and NDE) will play a leading role in supporting the establishment of the TNA Committee. In order to streamline the process, the NDE, in his/her role of technology focal point within UNFCCC, with the other 2 proponents, should take the TNA focal point.</p> <p>Preparation of the TNA Committee Constitution document where rules and procedures of the TNA process, and roles of the different members will be defined, taking into consideration the roles already defined in the table contained in section 11: “Main in-country stakeholders in implementation of the technical assistance activities”.</p> <p>Validation of the previously identified priority sectors and subsectors as stated in table contained in section 2 “problem statement” for this TNA process. An analysis of the sectoral priorities expressed in the national development policies and strategies, the NDC, NAP, National Communications to UNFCCC, and the GCF Country Programme will be conducted in order to produce a report describing the alignment of the TNA-TAP sectors with national priorities and relevant assistance received by Chile.</p>												

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Activity 2.3: Sector working group formation and capacity building

Support the TNA Committee in the targeted selection of key stakeholders to engage in the process based on the stakeholder mapping. Following the selection of key stakeholders, the TNA Committee will be responsible for appointing sector working groups: (1) Water Resources; (2) Forestry and Agriculture; (3) Energy; and (4) Waste Management⁴. Sectoral working groups will include the representatives of government departments who have responsibility for policy formulation and/or regulation already identified in **section 11 “Main in-country stakeholders in implementation of the technical assistance activities”**; 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.).

The TNA Committee will also ensure the participation and engagement of the sectoral working groups 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.

Organization of a capacity building training on the TNA processes across all national stakeholders over 2 workshop sessions. On the overall process and different steps for conducting the TNA, and on the participatory planning and prioritization tools (e.g. multi criteria assessment tool, stakeholder engagement tools, and approaches for gender inclusiveness). 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.

⁴ This might change depending on the results of deliverable 2.4 and activity 2.2.

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Activity 3.3: Development of a Technology Action Plan per sector and /or sub-sector

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 a few interviews and 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.

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 Chile's climate objectives when implementing the TNA.

For each group of related technologies⁶, the Action Plan will:

1. Elaborate very detailed project ideas (circa 8 pages), including time frames and estimated budget requirements for each prioritized technology. These project concepts should already identify the target scale up funding source, and channeled in particular towards PPF, full size projects and the private sector facility of the GCF.
2. Articulate project idea objectives, outputs, in relation to national policy priorities, deliverables, activities, and monitoring/evaluation methods.
3. Conduct barriers analysis and assessment of the enabling environment for the development and deployment of the identified technologies, including identification of existing mechanisms and instruments to promote the adoption of the selected technologies and/or proposal of new ones that address identified barriers.
4. 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 relevant to the challenge addressed by the selected technology by suggesting promotion tools and mechanisms to focus and articulate processes in Development and Technology Transfer for Climate Change Research Centers, Public Technology Institutes, R&D+i initiatives and International Centers, among others existing capabilities. This will be consolidated in a shared inventory of the ones identified for the selected technologies and challenges.
5. Evaluate capacity-building needs to support the implementation of the TAP, including the insertion and training of necessary human capital.

⁶ As the implementer judges to be more synergistic.

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4. Resources required and itemized budget:

Please provide an indicative overview of the resources required and itemized budget required to implement the CTCN technical assistance, including for M&E-related activities, using the table below. Important to note that minimum 1% of the budget should explicitly target gender specific activities related to the technical assistance (please see section 10 for further information on gender). Once the Response Plan is completed, a Response Implementation partner(s) will be selected by the Climate Technology Centre (CTC). A detailed activity-based budget for the CTCN assistance will be finalized by the CTCN and selected Implementer.

Activities and Outputs	Input: Human Resources (Title, role, estimated number of days)	Input: Travel (Purpose, national vs. international, number of days)	Inputs: Meetings/events (Meeting title, number of participants, number of days)	Input: Equipment/Material (Item, purpose, buy/rent, quantity)	Estimated cost Please accumulate the costing at Activity and Output level and provide an estimated costing range for each activity and the total Response Plan	
					Minimum	Maximum
Output 1: Development of implementation planning and communication documents	Team leader: 4 days Local experts: 12 days				USD 4,400	USD 4,840
Output 2: Establishment of a TNA Committee					USD 53,600	USD 58,960
Activity 2.1: Conduct stakeholder's analysis	Team leader: 2 days International expert: 10 days Local experts: 15 days Gender specialist: 1 day Finance expert: 1 day Communication expert: 1 day				USD 12,800	USD 14,080
Activity 2.2: Support the establishment of a TNA Committee	Team leader: 2 days International expert: 5 days Local experts: 20 days				USD 11,500	USD 12,650

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Activity 2.3: Sector working group formation and capacity building	<i>Team leader: 5 days International expert: 10 days Local experts: 15 days Communication expert: 2 days</i>		<i>4 Capacity Building workshops with sectoral working groups (up to 20 participants each)</i>		<i>USD 17,800</i>	<i>USD 19,580</i>
Activity 2.4: Development and endorsement of TNA committee work plan for monitoring and oversight	<i>Team leader: 2 days International expert: 5 days Local experts: 10 days</i>				<i>USD 11,500</i>	<i>USD 12,650</i>
Output 3: Prioritization of technologies and relevant action for increased access to finance					<i>USD 82,800</i>	<i>USD 91,080</i>
Activity 3.1: Validation of prioritized sectors, sub-sectors and challenges	<i>Team leader: 2 days International expert: 2 days Local experts: 5 days</i>				<i>USD 3,000</i>	<i>USD 3,300</i>
Activity 3.2: Assessment, prioritization and validation of key technologies for the fulfillment of Chile's TNA	<i>Team leader: 5 days International expert: 15 days Local experts: 25 days Gender specialist: 2 days Finance expert: 5 days Communication expert: 2 days</i>		<i>4 sectoral working group meetings (up to 20 participants each)</i>		<i>USD 33,400</i>	<i>USD 36,740</i>

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Activity 3.3: Development of a Technology Action Plan per sector and /or sub-sector	<i>Team leader: 5 days</i> <i>International experts: 20 days</i> <i>Local experts: 10 days</i> <i>Gender specialist: 2 days</i> <i>Finance expert: 5 days</i> <i>Communication expert: 2 days</i>				<i>USD</i> <i>31,000</i>	<i>USD</i> <i>34,100</i>
Activity 3.4: National Consultation workshop to ensure national ownership and technology deployment	<i>Team leader: 5 days</i> <i>International expert: 5 days</i> <i>Local experts 10 days</i> <i>Gender specialist: 2 days</i> <i>Finance expert. 5 days</i> <i>Communication expert: 5 days</i>		<i>4 national consultations workshops with TNA Committee and sectoral working group meetings (up to 40 participants each)</i>		<i>USD</i> <i>15,400</i>	<i>USD</i> <i>16,340</i>
Output 4: Support for the implementation of the Technology Action Plan with communications, guidance and training					<i>USD</i> <i>28,200</i>	<i>USD</i> <i>31,020</i>
Activity 4.1: Development of training materials and dissemination strategy	<i>Team leader: 2 days</i> <i>International expert: 5 days</i> <i>Local experts: 10 days</i> <i>Gender specialist: 2 days</i> <i>Finance expert: 2 days</i> <i>Communications expert: 15 days</i>				<i>USD 11,800</i>	<i>USD</i> <i>12,980</i>

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Activity 4.2: Delivery of TNA training workshops	<i>Team leader: 4 days International expert 4 days Local experts: 8 days Gender specialist: 4 days Finance expert 4 days Communication expert: 10 days</i>		<i>4 sectoral training workshops (up to 20 participants each)</i>		<i>USD 16,400</i>	<i>USD 18,040</i>
Estimated range of costing for the entire Response Plan					<i>USD 169,000</i>	<i>USD 185,900</i>

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5. Profile and experience of experts

Based on the required Human Resources identified in section 4 (Resources required and itemized budget) please provide a description of the required profile of all involved experts for the implementation of the CTCN Response Plan.

Experts required	Brief description of required profile
<i>Please use the same titles for all experts as applied in section 4.</i>	<i>Please provide a short description of expertise and experience needed (education, sectors of expertise, years of experience, country experience, language requirements, etc.).</i>
Team leader	<ul style="list-style-type: none"> • Master’s degree in science/technology, finance, project management/climate change adaptation and mitigation / or another relevant field. • Minimum 10 years of relevant expertise; expertise in climate change mitigation work with a focus on policy development, project management, high-level negotiations; • Familiarity with the UN process, technology needs assessment methodology, market assessment methodology and policy actions planning. and technology actions planning; • Previous experience in the development of policies. • Language skills: excellent command of oral and written English and Spanish is required

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<p>International expert</p>	<ul style="list-style-type: none"> • At least a Master’s degree in science/technology, natural resources management, business, climate change, engineering or other relevant field • 15 years’ experience of providing technical consultancy services within a developing country, especially within LAC; • Experience of developing national plans that involve rigorous assessment of technology options and sectoral analysis at a country or regional level; • Demonstrated technical and policy development expertise. • Familiarity with the UN process, technology needs assessment methodology, market assessment methodology and policy actions planning; • Experience of engaging with multiple actors in the development of initiatives aimed at building regional/national capacity within the region; • Facilitation skills in delivering dedicated training workshops around the policy development process; • Experience of conducting technology prioritization and multi-criteria analysis; • Nexus experience across Energy, Water, Waste Management and Forestry/Agriculture sectors, especially in the LAC region. • Language skills: excellent command of oral and written English and Spanish is required. <p>Highly Desirable</p> <ul style="list-style-type: none"> • Understanding of wider policy measures and drivers to overcome barriers to the deployment of technologies and sectors for climate change mitigation and adaptation; • Knowledge of enabling environments and stimulus for SME development.
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Local experts	<ul style="list-style-type: none"> • A formal academic qualification in science/technology, business, engineering, climate change or other related field. • Experience of developing, facilitating and delivering stakeholder workshops and group facilitating aimed at engaging multiple actors; • 10 years' experience of appropriate sectors within the country. • 5 years' experience of policy development within the country • Awareness of the methodology of market assessment and /or policy actions plans. • A formal academic qualification in science/technology, business, engineering, climate change or other related fields. • Excellent command of oral and written Spanish is required. Fluency in English is highly preferred <p>Highly Desirable</p> <ul style="list-style-type: none"> • Understanding of wider policy measures and drivers to overcome barriers to the deployment of technologies and sectors for mitigation and adaptation. • Knowledge of enabling environments and stimulus for SME development.
Gender specialist	<ul style="list-style-type: none"> • Master's degree in gender studies or other discipline with focus on the field of gender issues in a developing country context • Relevant master's degree in Gender studies or other discipline with focus on the field of gender issues in a developing country context. • At least 7 years working experience with gender mainstreaming issues in a developing country context; • Knowledge and experience of gender mainstreaming in climate change adaptation and mitigation; • Excellent command of oral and written Spanish is required. Fluency in English highly preferred.

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Finance expert	<ul style="list-style-type: none"> • A University degree in accounting, economics or finance is required and further studies on public service, building or infrastructure finance desirable • Minimum 8 years working experience in financial mechanisms and procedures, preferably in relation with government work. • Knowledge and experience in working with the government and private sector. • Knowledge and experience in designing and implementing loan applications and programmes as well as funding proposals • Ability and willingness to travel at short notice • Adequate computer literacy • Language skills: excellent command of oral and written English and Spanish is required.
Communication expert	<ul style="list-style-type: none"> • A University degree in communications, journalism or other closely related field • Minimum 7 years professional experience in the field of communications • Proven expertise in developing and implementing consumer awareness strategies. • Excellent organizational skills and attention to detail • Excellent computer skills using Excel and MS office Suite • Language skills: excellent command of oral and written English and Spanish is required.

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6. Intended contribution to impact over time

Please provide a brief description of the intended contribution to impact over time of the outcome and outputs provided by this technical assistance on resilience to climate change and/or carbon abatement. To the extent possible, please quantify the intended impact contribution, for example by indicating estimated number of people potentially impacted over time, GDP contribution of the focus sector, carbon emissions by the focus sector, etc. This intended contribution to impact is what will happen if the objective (as articulated in section 3) is met. Please ensure relevant complementarity with text in sections 7 to 12. (maximum 1250 characters including spaces)

The successful completion of a TNA / TAP process will accelerate the adoption of technologies for climate change mitigation and adaptation. A high quality TNA and TAP will enable Chile to:

- (i) Improve institutional processes, policies and regulations for climate technology deployment;
- (ii) Develop strong NAMAs, technology programmes and projects;
- (iii) Develop more in-depth roadmaps or “technology specific” action plans; and
- (iv) Generate sound requests for CTCN and other private and public sector institutions responding to national priorities in terms of technologies.
- (v) Fulfill technology commitments on it’s NDC.

The final outcome of this technical assistance will be a reduction of national GHG emissions and an enhanced ability to adapt to climate change across the priority sectors.

7. Relevance to NDCs and other national priorities

Please identify relevance and contribution from the technical assistance to the Nationally Intended Contributions (NDC) and other relevant national prioritized efforts (TNAs, TAPs, NAPs, NAMAs, etc.). (maximum 2500 characters including spaces)

The purpose of this proposal is to offer technical guidance and support to Chile to conduct a sectoral technology needs assessment (TNA) and develop a technology action plan. The TNA process is at the center of the Implementation of the Technology Framework under the Paris Agreement, Decision 15 CMA 1.

It will allow the fulfillment and strengthening of several commitments established in the technology chapter of the country's NDC. In particular the commitment IM2 on page 76. The full commitment will be included next. The points directly supported by this technology assistance will be highlighted using a bold format:

IM2 Commitment:

Chile will present its “Climate Change Technology Transfer and Development Strategy”(EDTTCC) and it will initiate the implementation of this strategy to encourage and strengthen technology transfer and development and transfer to support and promote the cultural, social, environmental and economic transformations necessary to achieve sustainable, resilient and carbon neutral development by 2050. To achieve this, state institutions work in coordination with each other and different actors in society, generating multiple co-benefits for different ecosystems, regions and productive sectors. This will enable Chile to take on a leading role in technology development and transfer, transforming this crosscutting challenge into an opportunity for development and wellbeing at national and global levels.

Specifically, the following climate actions will be developed:

The implementation of the Strategy will require the establishment of institutionality and governance, and any other areas in which it is necessary to focus the development and transfer of climate technologies. The Strategy will be evaluated and updated at least every 5 years and shall consider at least the following contributions:

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- a. Setting EDTTCC's institutionality and governance:
 - By 2020, Chile will have established a governance and institutional framework for the implementation of the EDTTCC and will support the national contribution in mitigation and adaptation, as well as the global long-term response to climate change.
 - By 2025, Chile will have reviewed and evaluated its EDTTCC, based on the Long-Term Climate Strategy and the current climate plans.
 - By 2030, Chile will have evaluated and updated its EDTTCC, from the evaluation and monitoring done during the implementation in climate change.
 - **By 2030 Chile will generate, focus and link the supporting tools for technology development and transfer, both for the local development and for the transfer of existing technologies at the local and global level in mitigation and adaptation for the various and/or different prioritized productive sectors at national and regional level.**
- b. **Implementing and operating mechanisms and instruments for the analysis of needs and for the implementation of technological action plans in specific areas.**
 - Chile will have operating mechanisms and instruments for the analysis of needs and for the implementation of technological action plans in the targeted areas.
 - **Between 2020 and 2025, Chile shall implement the first cycle of the EDTTCC Technological Needs Action Plan for at least three prioritized areas and/or sectors.**
 - **By 2021, Chile will have a Climate Technology Inventory System to be transferred that includes the local generation, such as also, the adoption of existing technologies worldwide.**
 - **By 2021, Chile will have the promotion tools and mechanisms to focus and articulate processes in Development and Technology Transfer for Climate Change Research Centers, Public Technology Institutes and International Centers, among others. As well as the insertion and training of necessary human capital.**
 - **By 2021, Chile will have mechanisms and instruments to promote the adoption of the existing technologies worldwide.**
 - **By 2022, Chile will have an inventory of Research Centers, R&D+i initiatives and projects related with mitigation and adaptation, and skills to coordinate Technology Development and Transfer for climate change.**
 - **By 2030, Chile will have generated, focused and linked with supporting instruments for technology development and transfer, for local development, such as the adoption of existing technologies at global level, for prioritized area in mitigation and adaptation in various and/or different priority productive sectors.**

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8. Linkages to relevant parallel on-going activities:

Please identify relevant previous and ongoing public and private sector initiatives, projects or programmes that the CTCN assistance will specifically build on and contribute to. To the extent possible, please add practical and operational details on the linkages between existing activities and the CTCN assistance. (maximum 2500 characters including spaces)

Chile conducted its first “TNA” process in 2003. In 2009 a technology transfer strategy for Climate Change was proposed, and a technology analysis for 5 sectors was performed. One relevant conclusion was the “need for assessments of technological needs that are adapted and reviewed over time”.

This request is a needed final step of a process initiated in 2015. That year Chile committed the undertaking of a Technology Need Assessment in the INDC, being one of the key elements of the Strategy for the Development and Transfer of Technology for Climate Change. In 2017, the Council of Ministers for Sustainability approved the National Climate Change Action Plan, furthering this commitment. In 2018 three TNA processes were undertaken by different agencies. Two of these processes delivered TNA for the Chilean cement and steel industry during the 2020. The other one identified existing capacities in technology transfer at the country level, and three sectors were prioritized: Water Resources; forestry and agriculture; and Energy.

Also, in 2018 the Ministry of Science, Technology, Knowledge and Innovation was put in place, and a coordination Committee for the Climate Change strategy for Technology Development and Transfer was set up in 2019. At the beginning of the present year, the final version of the Climate Change Strategy for Technology Development and Transfer was delivered. NGO’s, Private Sector and Research Centers participated in the writing of the document and the TNA process is one of its core components. The update of the National Determined Contribution (NDC), presented in April 2020, ratifies and deepens the 2015 commitment.

9. Anticipated follow up activities after this technical assistance is completed:

Please describe the expected future use of the outputs and deliveries produced by this technical assistance, after the CTCN implementation is completed, towards contributing to the anticipated impacts over time articulated in section 6. For example, what organizations or stakeholders will use the outputs of the technical assistance after it is completed, for what purpose, at what scale and scope the outputs and deliveries will be applied, when and what will be the next steps undertaken, etc. (maximum 2500 characters including spaces)

This technical assistance will be the beginning of a set of activities that will lead to a reduction in GHG emissions and an increased resilience to climate change. However, the continuity and impact of this will be underpinned by the following actions:

- (a) Continuous communication and promotion of the TNA and TAP
- (b) Dissemination of the results and benefits of the prioritized technologies at a government, business, academic and social organization level.
- (c) Development and submission of technology concept notes and project proposals for private and/or public sector funding

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10. Gender and co-benefits:

<p>Imbedded in design of the activities:</p>	<p><i>A gender mainstreaming analysis is mandatory to include for all technical assistance. A gender expert will be assigned to carry out an assessment and evaluation regarding gender mainstreaming during the implementation of the TA.</i></p> <p><i>In addition, please describe all support to gender aspects, women’s equality and other co-benefits embedded into the Response Plan (please include a reference to the actual activities and outputs as described in section 3).</i></p> <p>During the preparation of the technical assistance, consultations were held with the gender focal points, and a set of gender requisites and approaches for activities have been defined:</p> <ul style="list-style-type: none"> • The Guidance for a gender-responsive Technology Needs Assessment must be used in the development of the TNA. • Sector and subsector technology analysis and stakeholder participation must take into consideration gender labour balance. Some masculinized industries may have specific barriers that discourage women participation. • Stakeholder selection and engagement must be gender balanced. • The Coordination Committee for the Climate Change strategy for Technology Development and Transfer, that will oversee the TNA process must be gender balanced to ensure that women and men are both fully engaged in decision-making processes, development and use of technologies, and benefit from them. • Workshops must be at least gender balanced, and take into account specific social dynamics that impact participation or the willingness to address gender related issues within technical assistance. The team that will deliver the implementation of this request should comprehend a gender/social specialist, in order to provide advisory on gender analysis during the response deliverance. This would enable the identification, assessment and planning of gender-sensitive technological solutions that could take into consideration specific social, economic and cultural differences between women and men. • During the Technical Assistance the “Checklist to integrate gender approach in climate changes management instruments” will be used.⁷ Gender gaps should be identified for different technological solutions. <p>This should contribute to the fifth Sustainable Development Goal.</p>
<p>Gender and co-benefits intended as result of the activities:</p>	<p><i>Please describe all gender aspects, women’s equality and other co-benefits expected as a result of the CTCN technical assistance.</i></p> <p>Through the transversal integration of gender perspectives along the TNA-TAP process, the identified technologies are expected to contribute to the resilience and livelihoods of women. Also, based on the specific challenges already identified, this technical assistance is expected to provide a contribution towards several other SDG objectives, namely 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16 and 17.</p>

⁷ <https://mma.gob.cl/wp-content/uploads/2020/06/GENERO-3.pdf>

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11. Main in-country stakeholders in implementation of the technical assistance activities:

Using the table below, please list and describe the role of in-country stakeholders, participants and beneficiaries who will be involved in or directly consulted during implementation of the assistance.

In country stakeholder	Role in implementation of the technical assistance
Ministry of Finance (GCF NDA)	Key decision maker regarding the development of concept notes and technical support on the financial aspects of the TAPS.
Climate Change and Sustainability Agency (Proponent of Technical assistance and CTCN NDE)	Preparation of request, secure support and continuity for the TNA process and the implementation of the TAP's. CTCN NDE. Coordination with Business Associations. Project Managers, i.e. the cross-cutting meetings, deliverables and deadlines with the CTCN and consultants, as well as the overall project decisions, overall products and coordination. Ambrosio Yobánolo ambrosio.yobanolo@ascc.cl and Ismael Diaz ismael.diaz@ascc.cl are assigned to support the management of the implementation of this request
Ministry of Environment (Proponent of Technical assistance and Sectoral Authority)	Secures support and continuity for the TNA process and the implementation of the TAP's. Provide sectoral information, and support the development of technology action plans relevant to the challenges of their sectors. Also Focal Point of the GEF. Project Managers, i.e. the cross-cutting meetings, deliverables and deadlines with the CTCN and consultants, as well as the overall project decisions, overall products and coordination. Ms. Carolina Urmeneta curmeneta@mma.gob.cl is assigned to support the management of the implementation of this request. Pablo Fernandois Ramirez pfernandois@mma.gob.cl is assigned to support the technical implementation of this request regarding the organic waste challenge.
Ministry of Science (Proponent of Technical assistance)	Secures support and continuity for the TNA process and the implementation of the TAP's, provides strategic view regarding development and transfer of technologies. Coordination with research centers, and institutions that provide research grants. Project Managers, i.e. the cross-cutting meetings, deliverables and deadlines with the CTCN and consultants, as well as the overall project decisions, overall products and coordination. Mr. Leonardo Muñoz lmunoz@minciencia.gob.cl is assigned to support the management of the implementation of this request.
Women's and Gender Equality Ministry (Gender Focal Point)	Make sure that a gender sensitive approach is used in the interventions, and in the criteria for selecting stakeholders, selecting technologies, and identifying barriers. Ms. Loreto Maza lmaza@minmujeryeg.gob.cl is assigned to ensure that a gender sensitive approach is used in the interventions.

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<i>Ministry of Agriculture (Sectoral Authority)</i>	<p>Provides sectoral information, and supports the development of technology action plans relevant to the challenges of their sectors.</p> <p>Angelina Espinoza Oyarzún jespinoz@odepa.gob.cl is assigned to support the implementation of this request regarding the Forestry and Agriculture challenges.</p>
<i>Ministry of Energy (Sectoral Authority)</i>	<p>Provides sectoral information, and supports the development of technology action plans relevant to the challenges of their sectors.</p> <p>Francisco Dall'Orso León fdallorso@minenergia.cl, are assigned to support the implementation of this request regarding the Electric Generation Network challenges.</p>
<i>Ministry of Public Works and Superintendency of Water Services (Sectoral Authority)</i>	<p>Provides sectoral information, and supports the development of technology action plans relevant to the challenges of their sectors.</p> <p>Alvaro Sola Alcazar alvaro.sola@mop.gov.cl, Vicente Castillo Sarmiento vicente.castillo@mop.gov.cl and Miguel Pinochet Andrade miguel.pinochet@mop.gov.cl, are assigned to support the implementation of this request regarding the Rural Drinkable Water challenges. Victor Galvez vgalvez@siss.gob.cl is assigned to support the implementation of this request regarding the Urban Drinkable Water challenges.</p>
<i>Ministry of Transport (Sectoral Authority)</i>	<p>Provides sectoral information, and supports the development of technology action plans relevant to the challenges of their sectors.</p> <p>Paula María Vidal Mohr pvidalm@mtt.gob.cl is assigned to support the implementation of this request regarding the transport challenges.</p>
<i>Relevant Business Associations (sectoral)</i>	<p>Provides market knowledge and engagement and feedback regarding the different steps of the proposal. Will be engaged and a representative(s) will be selected under activity 1.3.1.</p>
<i>Ministry of Foreign Affairs</i>	<p>Maintains coordination regarding international assistance and international processes.</p>
<i>CORFO (Economic Development Agency)</i>	<p>Provides a strategic and practical view regarding interventions for technology transfer with the private sector. Could provide access to financial and technical instruments that support the TAP's.</p>
<i>Banco Estado</i>	<p>Bank owned by the state, provides experience regarding financial instruments, and could spearhead financial initiatives regarding technology transfer within the banking sector.</p>
<i>Relevant Research and Technology Centers</i>	<p>Provides specific knowledge regarding the technologies, their possible adaptations and feedback regarding the different steps of the proposal. Will be engaged and a representative(s) will be selected under activity 1.3.1</p>

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Others

Provides specific capabilities or resources that are deemed necessary or desirable in the context of the TNA committee. Will be engaged and a representative(s) will be selected under activity 1.3.1, if applicable.

12. SDG Contributions:

Instructions: Please complete the grey section below for a maximum of three SDGs that will be advanced through this TA. A complete list of SDGs and their targets is available here:

<https://sustainabledevelopment.un.org/partnership/register/>.

Goal	Sustainable Development Goal	Direct contribution from CTCN TA (1 sentence for top 1-3 SDGs)
1	End poverty in all its forms everywhere	
2	End hunger, achieve food security and improved nutrition, and promote sustainable agriculture	
3	Ensure healthy lives and promote well-being for all at all ages	
4	Ensure inclusive and equitable quality education and promote life-long learning opportunities for all	
5	Achieve gender equality and empower all women and girls	Empowers women by ensuring Gender Balance in the workshops and decision making process regarding the technologies selected and the implementation plans.
6	Ensure availability and sustainable management of water and sanitation for all	Secures access to drinking water Both water subsectors are about drinkable water.
7	Ensure access to affordable, reliable, sustainable, and modern energy for all (consider adding targets for 7)	
	7.1 - By 2030, ensure universal access to affordable, reliable and modern energy services	
	7.2 - By 2030, increase substantially the share of renewable energy in the global energy mix	
	7.3 - By 2030, double the global rate of improvement in energy efficiency	
	7.a - By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology	
	7.b - By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support	
8	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	
9	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	
10	Reduce inequality within and among countries	
11	Make cities and human settlements inclusive, safe, resilient and sustainable	
12	Ensure sustainable consumption and production patterns	
13	Take urgent action to combat climate change and its impacts	<i>All TAs should indicate relevance to Goal 13 and at least one target below (13.1 to 13.b).</i>
	13.1 - Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	Through the TNA-TAP process, climate change adaptation technologies across several sectors and sub-sectors will be identified that will increase the resilience and adaptive capacity of Chile.
	13.2 - Integrate climate change measures into national policies, strategies and planning	
	13.3 - Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	
	13.a - Implement the commitment undertaken by developed-country parties to the United Nations Framework Convention on Climate Change to a goal of mobilizing jointly \$100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible	The TNA-TAP process will result in a set of prioritized mitigation and adaptation technologies including financing opportunities through the public and private sector (e.g. GCF).

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	13.b - Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities	
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	
15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	
16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	
17	Strengthen the means of implementation and revitalize the global partnership for sustainable development	

13. Classification of technical assistance:

Please indicate the primary type of technical assistance. Optional: If desired, indicate a secondary type of technical assistance.

<i>Please tick off the relevant boxes below</i>	<i>Primary</i>	<i>Secondary</i>
<input type="checkbox"/> 1. Decision-making tools and/or information provision	<input type="checkbox"/>	x
<input type="checkbox"/> 2. Sectoral roadmaps and strategies	<input type="checkbox"/>	x
<input type="checkbox"/> 3. Recommendations for law, policy and regulations	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 4. Financing facilitation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 5. Private sector engagement and market creation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 6. Research and development of technologies	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 7. Feasibility of technology options	<input type="checkbox"/>	x
<input type="checkbox"/> 8. Piloting and deployment of technologies in local conditions	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 9. Technology identification and prioritisation	x	<input type="checkbox"/>

Please note that all CTCN technical assistance contributes to strengthening the capacity of in-country actors.

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14. Monitoring and Evaluation process

Upon contracting of the implementing partners to implement this Response Plan, the lead implementer will produce 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 Response Plan 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.



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DIRECTOR EJECUTIVO
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CLIMÁTICO
FECHA: 17/06/2021 HORA:16:17:59

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