

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Innovation Small Grant

Country/Region: Project Title: Thematic Focal Area Implementing Entity AF Project ID: IE Project ID: Reviewer and conta IE Contact Person:	Chile Comprehensive multi-energy isolated system for community-based food security in the Chilean Patagonia a: Food security 7: Chilean International Development Cooperation Agency (AGCID) Requested Financing from Adaptation Fund (US Dollars): 249,900 Co-reviewer(s): Alyssa Gomes
Technical Summary:	The project aims to design, install, and apply multiple energy supply technology solutions together with an integrated energy management system to cover the electrical and thermal needs of the target community to ensure food provision. This will be done through the three components below: <u>Component 1</u> : Socialization phase (USD 5,000); <u>Component 2</u> : Project definition (USD 5,000); <u>Component 3</u> : Project implementation (USD 208,000). <u>Component 4</u> : Consolidation phase (USD 20,000). <u>Requested financing overview:</u> Project/Programme Execution Cost: USD 0 Total Project/Programme Cost: USD 238,000 Implementing Fee: USD 11,900 Financing Requested: USD 249,900 The initial technical review finds that the proposal is not sufficiently developed. It is unclear from what perspective the idea of introducing multiple renewable energy technology solutions and integrated energy management

	systems is innovative or whether it will be localized or customized in an innovative way. Above all, while the project objective sets out to ensure food provision for the target community, the current project activities do not contain any related adaptation actions. The proposal needs further development altogether.
	A number of clarification requests (CRs) and a few corrective action requests (CARs) have been raised by the technical review.
Date:	

Review Criteria	Questions	Comments
Country Eligibility	1. Is the country party to the Kyoto Protocol?	Yes.
Project Eligibility	 Has the designated government authority for the Adaptation Fund endorsed the 	Yes.
	project/programme?	As per the Endorsement letter dated 1 August 2022.
		CAR 1 : Please correct the date from August 05 2022 to August 01, 2022 (which is the actual date of the endorsement as per the attached letter) on page 13, A. Record of endorsement on behalf of the government.
		Response:
	 Does the project / programme support concrete adaptation actions to assist the country in 	Not cleared.
	addressing adaptive capacity to the adverse effects of climate change and build in climate resilience? ¹	The proposal states that it aims to design and install different renewable energy technologies and an integrated energy management system to supply

¹ A concrete adaptation project/programme is defined as a set of activities aimed at addressing the adverse impacts of and risks posed by climate change. The activities shall aim at producing visible and tangible results on the ground by reducing vulnerability and increasing the adaptive capacity of human and natural systems to respond to the impacts of climate change, including climate variability. Adaptation projects/programmes can be implemented at the community, national, regional and transboundary level. Projects/programmes concern activities with a specific objective(s) and concrete outcome(s) and output(s) that are measurable, monitorable, and verifiable. (Source: Operational Policies and Guidelines, amended October 2017)

	energy for thermal and electrical needs for food provision.
	The project is unclear what adverse impacts and risks of climate change it is tackling and in what way it contributes to climate resilience and enhances the adaptive capacity of the target community.
	While the project objective targets enhancing food security, it is unclear how the project activities will achieve this objective.
	CR 1: Please clarify the project objective to be more aligned with the Adaptation Fund's strategic objective and the themes that it supports for climate change adaptation.
	Response: The project background and context section has been updated to better explain the project objective and its alignment to the AF goals.
	CR 2: Kindly reformulate the project objective by focusing on concrete adaptation activities. According to the AF operational policies and guidelines, a concrete adaptation project is defined as "a set of activities aimed at addressing the adverse impacts of and risks posed by climate change".
	Response: The project objective has been accordingly reformulated.
	CR 3: Please explain further what are the climate vulnerabilities that the target community is facing in terms of food security and how the project activities will address these problems.

	 Response: We have considered this comment in the reformulation of the project background and context, together with more detailed specific objectives. CR 4: Please provide details on the economic, social, development, and environmental context in which the project would operate in the target community. Response: Part B of section Project Justification has been updated to cope with this comment. We present the global effects of climate change in the area and how the project looks at integrating local energy resources to foster their economic activities.
3. Does the project encourage or accelerate development of innovative adaptation practices, tools and technologies?	Not cleared. The project only plans the application of a mitigation technology i.e. combining different renewable energy technology which is not new regardless of whether it is to cover both electricity and thermal needs. In the current form, it is unclear what adaptation practices
	constraint in the analysis and tacaptation process, tools, and technologies are proposed.CR 5: Kindly the justify the adaptation potential and identify what innovative adaptation practices, tools, and technologies will be provided by the project.
	Response: The proposed energy management system (EMS) for integrating diverse energy sources is a novel technological solution that is not available in the market. The EMS is a software-based automatic controller that communicates with the energy resources and operates their operation both in the short (minutes) and medium-term (days). This is an innovative technological solution that can facilitate the integration of the already existent energy resources.

	Part C of the Project Justification section has been reformulated to better explain this.
	CR 6: Please include additional information on the kind of renewable energy technologies are contemplated to tackle the target area's climate change problem, and how this will be related to improving the adaptive capacity of the target community.
	Response: Component 1 of the project justification section has been reformulated to incorporate this comment. In fact, resources that are considered are wind turbines, photovoltaic panels, biodigesters. To integrate these technologies, energy storage systems might also be needed. Parts A, B, and C of the Project Justification section have been reformulated to include this comment.
4 Does the project help generate evidence base of	Not algored
effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up?	In its current form, the project does not generate evidence of effective, efficient adaptation practices, products, or technologies.
effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up?	In its current form, the project does not generate evidence of effective, efficient adaptation practices, products, or technologies. CR 7 : Please elaborate further the climate adaptation problem that the target community is facing.
effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up?	 In its current form, the project does not generate evidence of effective, efficient adaptation practices, products, or technologies. CR 7: Please elaborate further the climate adaptation problem that the target community is facing. Response: The new formulation of the project background and context, and Part B of the Project Justification Section are specifically dealing with this comment.

		Response: The proposed integrated energy
		management system is the innovative technology
		proposed to deal with the climate adaption problem
5.	Does the project engage, empower and/or benefit	Not cleared.
0.	the most vulnerable communities and social	
	aroups?	The proposal aims to improve the feed security of
	9.0000	isolated communities and especially women who are
		the most vulnerable group in the community. However
		it does not provide sufficient information on the target
		community and expected beneficiaries of the project
		CP 0. Diagon provide more information on the torget
		ck 9. Please provide more information on the target
		community, disaggregated by gender.
		Deeperated that at least 70% of the
		Response: It is expected that at least 70% of the
		community involved in the project are woman. This is
		now claimed in Part B of the Project Justification
		section.
		CD 10. Diagon explain further who the direct
		CR IU: Please explain further who the direct
		beneficiaries are and quantity direct and indirect
		beneficiaries.
		Despenses There are a favorant strategic in the set
		Response: There are a few communities in the region
		available and interested in the project, but only one
		community can be the direct beneficiary. Since the
		runding is not yet secured, by responsibility there is no
		community that is already selected. Yet, one a-priori
		one of the potential beneficiaries correspond to an
		indigenous community that commercializes
		agricultural products in a small market with a local
		plantation. The market is run by 9 women and 1 man,
		and the client size can be estimated as 100 per
		month. This characteristic is similar to the other
		potential communities.

6.	Does the project advance gender equality and the	Not cleared
	empowerment of women and girls?	
		The project identifies women as the most vulnerable
		group in the target community and that they will be the
		main focus of the project.
		CR 11: Please explain how women will benefit from
		the project.
		Response: As explained in Parts B and C of the
		Project Justification section, woman will participate in
		the design and implementation of the energy system,
		thus being trained to use and operate it. Plus, they will
		be trained to ensure the replicability of the project, as
		explained in Part D of the Implementation
		Arrangements section.
		CR 12: Please clarify what role women will take in the
		project activities.
		Response: Part A of the Project Justification section
		now identifies how the projects is co-constructed
		together with the community (mainly women). Indeed.
		as indicated in the Implementation Arrangements
		section, the community will be constantly involved in
		the whole process, taking part of all proposed
		activities.
		CR 13: Please explain the objective and contents of
		the training that will be provided to the women in
		component 4.
		Response: The main objective is to ensure the
		replicability of the project in other potential
		communities. Please note the objective written in Part
		D of the Project Arrangements section "Define and

		 implement a training program for ensuring the replicability of the solution in other places." CR 14: Please clarify if there will be other vulnerable social groups to be included in the project. Response: Only one community will be considered in the project. Note that the communities are mainly composed by indigenous women.
Resource Availability	 Is the requested project funding within the parameters for small grants set by the Board? 	Yes (USD 249,900). CAR 2: Please correct the 'total amount of financing requested' on page 2 from 250,000 USD to 249,900 USD. Response: Thank you, this has been corrected.
	 Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project budget before the fee? 	Yes (USD 11,900, equivalent to 5%).
Implementation Arrangements	 Is the project submitted through a National Implementing Entity accredited by the Board? 	Yes. Chilean International Cooperation Agency (Agencia chilena de Cooperacion internacional para el Desarrollo) is an accredited NIE of the AF.
	 Is the timeframe for the proposed activities adequate? 	Not cleared. The information provided on the project objective, scope, and activities is insufficient to determine whether the timeframe is adequate at this stage. Response: The proposal authors are not sure whether this must be responded. Yet, the timeframe is similar to other projects in the experience of the team.
	3. Is a summary breakdown of the budget for the proposed activities included?	Not cleared. CAR 3: The budget cost of the last line of the table in Part III. D (page 12) should be corrected from 5,000 to 20,000.

Response: Thank you, this has been corrected. **CAR 4:** the current monitoring and evaluation arrangement does not include deliverables such as audit report, final report, project performance reports. Please rectify. Response: Thank you for the correction. The deliverables now indicate the project reports. **CAR5**: Please correct the difference of USD 100 between amount requested on components and cover page. Response: Thank you, this has been corrected. **CR 15:** the budget breakdown does not sufficiently explain the execution costs of the activities. It needs further breakdown or further explanation. Response: The activities breakdown is detailed in Part D of the Implementation Arrangements section. An indication of the associated project objective (PO) has been added to the budget. CR 16: Please explain the reason for the absence of project execution cost. How the monitoring and evaluation, audit activity will be conducted? Response: The execution cost is considered as the "Project Implementation" item in the budget. The audit will be realized with the NIE Management Fee. **CR 17:** Please include information on the baseline and

means of verification in the result framework table

(Part III. C., page 10)
Response: A baseline and a means of verification column has been added to the result framework table.



PROGRAMME ON INNOVATION: SMALL GRANTS PROJECTS THROUGH DIRECT ACCESS MODALITY

REQUEST FOR PROJECT FUNDING FROM THE ADAPTATION FUND

The annexed form should be completed and transmitted to the Adaptation Fund Board Secretariat by email or fax.

Please type in the responses using the template provided. The instructions attached to the form provide guidance to filling out the template.

Please note that a project must be fully prepared when the request is submitted.

Complete documentation should be sent to:

The Adaptation Fund Board Secretariat 1818 H Street NW MSN P4-400 Washington, D.C., 20433 U.S.A Fax: +1 (202) 522-3240/5 Email: afbsec@adaptation-fund.org



PROGRAMME ON INNOVATION: SMALL GRANT PROJECT PROPOSAL

PART I: PROJECT INFORMATION

Country:ChileTitle of Project:Comprehensive multi-energy isolated system for community-basedfood security in the Chilean PatagoniaChilean International Cooperation AgencyNational Implementing Entity:Chilean International Cooperation AgencyExecuting Entity/ies:Universidad Austral de ChileAmount of Financing Requested:249,900 USD

Project Background and Context:

Chile is one of the countries worldwide that has more vulnerabilities to climate change. Indeed, its main economic activities are strongly dependent on the availability of water and energy resources. In this context, the agricultural sector is one of the economic sectors more prone to be affected by climate change, putting at risk the food security of a large numbers of farmers and small communities whose main economic activity is the small-scale agriculture, usually located in remote/rural areas.

In this sense, the project aims at designing, sizing, and piloting a technological solution for small-scale agriculture in remote/rural areas that integrates different available local energy resources to cover both thermal and electrical needs. The solution should also incorporate technologies for water capturing and its efficient consumption, to guarantee the agricultural production despite the effects of water scarcity, changes in temperature, and rain regimes.

The project focuses on communities that have an economic activity related with food provision, so that the synergies between the community energy-needs and food provision can be covered holistically. Indeed, articulating the food production with its sustainable transformation (using local energy resources) and local commercialization is also considered in this proposal. In this way, we expect to diversify the economic activities of the benefited communities by adding value to their agricultural products, while adapting their economic activity to the effects of climate change.

Project Objectives:

The main objective of the project is to increase the adaptive capacity and to build resilience of small-scale agricultural producers in the face of the impacts of climate change and climate variability by developing a technological solution that facilitates the integration of diverse small and local energy resources to cover, simultaneously, the electrical and thermal, together with technologies for water capturing and its efficient consumption, to ensure the food provision of a pre-defined community.

The address the main objective, the following specific objectives are defined:

- 1. Enhance the resilience of small-scale agricultural producers of the south of Chile, vulnerable to climate change by identifying, adapting, and implementing appropriate technological solutions (e.g., greenhouses).
- Strengthen energy and water independence of small-scale agricultural producers to mitigate the effects of climate change in their activities using local energy resources (including waste-to-energy approaches), the integration of water/rain capture technologies, and management systems for the efficient use of both energy and water, and therefore guarantee the food provision.
- 3. Identify alternatives for the diversification of the economic activities of communities of small-scale agricultural producers by adding value, in a sustainable way, to their local products and for defining strategies for their local commercialization in a context of climate change.
- 4. Improve the capacities at the territorial level for decision making and management of the implementation of adaptation measures and actions to address the effect of climate change and variability in small-scale agricultural production in the south of Chile.

Project Components and Financing:

Fill in the table presenting the relationships among project components, activities, expected concrete outputs, and the corresponding budgets. If necessary, please refer to the INSTRUCTIONS FOR PREPARING A REQUEST FOR PROGRAMME ON INNOVATION: SMALL GRANTS PROJECTS THROUGH DIRECT ACCESS for a detailed description of each term.

Project Components	Expected Concrete Outputs	Expected Outcomes	<u>Amount</u> (US\$)	
1. Socialization phase	Celebration of meetings	Community engagement	<u>5,000</u>	
	with presentation of	and creation of working		
	general ideal and team	group		
2. Project definition	Identification of energy	Participative definition of	<u>5,000</u>	
	needs and renewable	resources, location, and		
	resources potential	uses		
3. Project implementation	Installation of energy	Identification of skills	<u>172,900</u>	
	resources and control	and services needed to		
	equipment	deploy such projects		
4. Consolidation phase	Adopted skills in the	Training program to	<u>20,000</u>	
	community to	extend the experience in		
	manipulate the system	other places		
5. Project Execution cost	<u>0</u>		<u>39,600</u>	
6. Total Project Cost				
7. Project Cycle Management Fee charged by the Implementing Entity (if				
applicable)				
Amount of Financing Requested				

Projected Calendar:

Indicate the dates of the following milestones for the proposed project/programme

Milestones	Expected Dates
Start of Project Implementation	April 2023
Project Closing	September 2024
Terminal Evaluation	December 2024

PART II: PROJECT JUSTIFICATION¹

A. Describe the project components, particularly focusing on the concrete adaptation activities of the project, and how these activities contribute to climate resilience.

Component 1. Socialization phase. Adaptation is fostered through raising awareness in the community of the effects of climate change and variability in small-scale agricultural production, and how these effects could be reduced by taking advantage of local energy resources such as wind, solar radiation and waste (e.g. by biogas production and utilization); and how water capture and energy and water management help to efficiently use these resources to meet their production needs and move towards energy and water independency and thus towards food security. It contributes to climate resilience by making people active in the process of supplying their energy, water, and food needs.

Component 2. Project definition. Adaptation is fostered by the participative methodology to define the project. The idea is to jointly (community plus implementation team) identify the challenges posed by climate change and variability in small-scale agriculture, and which technologies can be used to reduce the impacts of these challenges and foster the adaptation of the community production to the new climate conditions. In this process the energy and water demands are computed so that the food provision is secured. Furthermore, additional energy/water demands for adding value to the agricultural products are identified as well as the water and energy resources to fulfill the total energy and water needs. Here, solar radiation, wind and waste-to-energy are explored as main energy sources, and rain and environmental humidity are explored as main sources of water.

Component 3. Project implementation. Adaptation is fostered by the involvement of the local community in the implementation. That is, the community will develop skills to install and operate the solution.

Components 2 and 3 contribute to climate resilience by using renewable-energy resources to cover the energy needs.

Component 4. Consolidation phase. Adaptation is fostered by installing capacities in the population to optimize their energy use and maximise energy efficiency. It contributes to climate resilience by making the population capable of extending their new skills to other locations.

B. Describe how the project provides economic, social and environmental benefits, with particular reference to the most vulnerable communities, and vulnerable groups within communities, including gender considerations. Describe how the project will avoid

¹ Parts II and III should jointly not exceed 10 pages.

or mitigate negative impacts, in line with the Environmental and Social Policy of the Adaptation Fund.

The project focuses on small-scale agriculture producers and on how climate change and variability affect them. Specifically, this proposal has interest in the producers of the south of Chile who are reducing their production per year due to changes in temperature and rain regimes (recently, lower temperatures during the winter season and higher temperatures during summer season have changed the timings for growing the agricultural products. This is accompanied by a significant reduction in the rains in the south of Chile). Consequently, food security of the communities composed by smallscale agricultural producers have been threatened. To adapt the production to the new conditions posed by climate change and variation, this project looks for the adaptation of technologies to the environmental conditions of the south of Chile that allow taking advantage of the local energy resources (solar radiation and wind mainly), waste-toenergy applications, water capture technologies, and energy and water management systems to guarantee the food production/provision and its transformation in a sustainable way to add value and diversify the sources of income of the community.

Due to the cultural aspects of the target population, women are usually in charge of food supply and are the most vulnerable group of the community since usually they need to give up formal jobs and well-paid positions. The project aims at making women the most important pillar of the community by fostering their participation in the definition and operation of the solution. Indeed, it is expected that at least 70% of people from the community involved in the execution of this proposal are women. Their activities will cover the definition of the pilot to be implemented, the implementation of several equipment, the growing of different agricultural products using the solution defined in the project definition stage, and the evaluation and further improvements to be done.

Additionally, the project looks at maximizing the energy, water, and food autonomy of the community in time, by strengthening the capabilities of its members to train new users of the energy solution.

C. Describe how the project encourages or accelerates development of innovative adaptation practices, tools or technologies and/or describe how the project helps generate evidence base of effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up.

The project pursues the transition of small-scale agricultural production towards its energy and water independency and thus towards food provision securement. For doing that, technologies for the regulation of environmental conditions for the production, for taking advantage of local energy and water resources, and a system for the efficient use of these resources are considered. Thereby, the project impacts one of the main issues at small-scale renewables integration: the difficulty of getting familiar with the technology. This goal is addressed by implementing a system that automatically coordinates the diverse energy resources to minimize the dependency of external resources (or maximize autonomy). This is a technological solution that is only recently being proposed for electrical systems but has not been proposed for both electrical and thermal system.

Nota that, the considered local energy resources are variable in nature (i.e., not necessarily available when needed). Thus, the use of energy storage devices (both thermal and electrical) might be needed to facilitate the integration of these resources. Indeed, technologies such as Lithium-ion batteries, thermal reservoirs, electrolysers, and fuel cells (these last two for dealing with hydrogen) will be considered as potential technologies to be integrated in the energy management system.

D. Please confirm whether the project meets relevant national technical standards, where applicable, such as standards for environmental assessment, building codes, etc., and is in line with the Environmental and Social Policy of the Adaptation Fund.

The project is fully aligned with the National Energy Strategy that fosters local solutions for energy independence. Although large-scale renewable generation if part of the solutions, the National Adaption Plan emphasises the need of local solutions of social, economic, and environmental sustainability.

E. If applicable, describe the learning and knowledge management component to capture and disseminate lessons learned.

The project explicitly defines one of the components with the goal of systematising a methodology to transfer the lessons learned throughout the project period. Indeed, there will be a person specifically hired for this matter.

Additionally, the project will be supported by the dissemination offices of both the NIE and the executing entity.

F. Provide an overview of the environmental and social impacts and risks identified as being relevant to the project. Describe how the project will engage, empower and/or benefit the most vulnerable communities and social groups, including gender considerations, in line with the Environmental and Social Policy of the Adaptation Fund.

Checklist	Assessment carried out	Potential impacts and risk
Compliance with	The project will comply with the local laws for	Risk: Very low
Law	electrical and thermal installations.	Potential impact: Very high
Access and Equity	The project is focused on communities that	Risk: Very low
	have little access to the standard energy	Potential impact: Very high
	infrastructure, so it explicitly helps to	
	minimize energy poverty.	
Marginalized and	Isolated communities in Chile are usually	Risk: Very low
Vulnerable Groups	marginalized in the municipal development	Potential impact: Very high
	plans. The goal of this project is to give	
	relevance to these communities in the	
	energy plans.	
Human Rights	The project will be cautious at respecting	Risk: Very low
	human rights of people where the project will	Potential impact: High

	be implemented. The reason of the participation process is to ensure this.	
Gender Equity and	Women are the focus of the project, who are	Risk: Very low
Women's	typically more vulnerable than men in the	Potential impact: Very high
Empowerment	country.	. , , , ,
Core Labour	The project will respect the labour rights of	Risk: Low
Rights	people that will take part of the development	Potential impact: High
	and operation of the system.	
Indigenous	Many isolated communities in Chile are part	Risk: Very low
Peoples	of indigenous people. Therefore, the project	Potential impact: Very high
	will be taking especial care of these	
	communities.	_
Involuntary	The project uses the local energy resources	Risk: Very low
Resettlement	of the place where it will be located. Thus,	Potential impact: High
Destautions	no resettlement is considered.	Did March
Protection of	I ne project is respectful of the environment	RISK: Very IOW
Natural Habitats	from design. I hat is, the main goal of the	Potential impact: Medium
	project is to use the available hatural	
	species in the location	
Conservation of	The project is respectful of the environment	Risk: Very low
Biological Diversity	from design. That is, the main goal of the	Potential impact: Medium
Biological Biveloky	project is to use the available natural	r otorniar impact. modiari
	resources without damaging the habitat of	
	species in the location.	
Climate Change	The project will minimize the need of	Risk: Very low
	combustion of any kind (biomass or fossil	Potential impact: Very high
	fuels), changing the current technology	
	which is typically diesel for internal	
	combustion engines.	
Pollution	The main objective of the energy	Risk: Very low
Prevention and	management system will be to maximize the	Potential impact: Very high
Resource	efficiency and minimize the use of energy	
Efficiency	devices that generate particle matter.	
Public Health	No impacts on public health are identified.	Risk: Very low
Distanta		Potential impact: Medium
Physical and	I ne participation of the community in the	RISK: Very IOW
Cultural Heritage	project is especially designed to avoid any	Potential impact: very nigh
	their voice in the design of the colution	
Lands and Soil	Since food security is the goal of the project	Risk: Venulow
Conservation	the use of land the production of fertilizors	Potential impact: Very high
	with natural resources and the water	i otentiai impact. Very nigh
	management are ensured	

G. Provide justification for funding requested, focusing on the full cost of adaptation reasoning.

The total funding requested is 249,900 USD.

As indicated in Part I above, the project has 4 components: Socialization phase, Project definition, Project implementation, and Consolidation phase.

For the socialization phase and the project definition components, 3,000 USD are requested. This budget will fund the trips of the executing team to the location, the organization of meetings, and the salary of the people especially hired for the project which will be: 1 professional for the technological aspects and 1 professional for the social aspects. Both phases are planned to be 1-month long each.

For the project implementation component, lasting 10 months, 208,000 USD are requested. This budget will fund

PART III: IMPLEMENTATION ARRANGEMENTS

A. Describe the arrangements for project / programme implementation.

Since the goal of the project is to maximise the energy autonomy of an isolated community, the planned activities will directly impact on the adaptation to climate change and improving climate resilience by making the community capable of smoothly integrating different energy resources to cover the energy needs. The main difference with existent projects is that the synergy of the different energy resource will be fully exploited, minimizing the overall *energy losses*.

B. Describe the monitoring and evaluation arrangements and provide a budgeted M&E plan.

The project considers one 100% hired person (project manager) to keep track on the activities, the definition and evaluation of KPIs, and the modification of tasks if needed. That is, a monthly salary of 2,000 USD.

The monitoring and evaluation plan is designed as follows:

- 1. Project definition report: 6 months after start
- 2. Project implementation report: 12 months after start
- 3. Final report: 16 months after start

C. Include a simple results framework for the project proposal, including milestones, targets and indicators.

The specific KPIs of the project will be defined collaboratively with the local community to account for their vision, restrictions, and desires.

A list of general KPIs is, therefore, here indicated. Milestones are indicated in months (for example, **M1** means Month 1).

Result	Milestone	Indicator(s)	Baseline	Target	Means of verification
	C	component 1: Socialization	on phase		
Outcome 1.1: Raise	Working group	Number of participating	0	10 (ideally	Project
awareness	(executing entity +	people from the		only women)	definition report
	community) definition.	community			
	M1.				
Component 2: Project definition					
Outcome 2.1:	Definition of location,	Area to be used	- (nonexistent)	< 10 m2	Project
Demonstrated	type, and size of	Local resources used /	10%	> 90%	definition report
community	energy resources.	Local resources			
engagement	M2.	available			
	Со	mponent 3: Project imple	ementation		
Outcome 3.1:	Energy resources	kWh of produced	0	>2	Project
Technology	installed. M7.	energy (electrical and			implementation
familiarization		thermal)			report
Outcome 3.2:	Energy resources	kWh of produced	0	> 50	Project

Installed capacities the community	ity in	fully operational. M12 .	energy (electrical and thermal) Energy efficiency	5%	5%	definition report
Outcome 3.3: F of management system	Pilot t	Energy management system installed. M15 .	kWh of produced energy (electrical and thermal) Energy efficiency	0 5%	> 200 > 5%	Project definition report
			Component 4: Con	solidation phase		
Outcome 4.1: Training progra defined	ims	Implementation of training programs to other people/communities. M18 .	Number of people trained	0	20 (ideally only women)	Final report

D. Demonstrate how the project / programme aligns with the Results Framework of the Adaptation Fund

Project Objective(s) ²	Project Objective Indicator(s)	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
PO1: Involve the local community of a pre-defined location, so that its vision and current capabilities are considered in the development of the project.	Number of participating people from the community	Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	5,000
PO2: Implement a co- construction methodology to design (define the type, size, and location) the energy solution.	Local resources used / Local resources available	Outcome 4: Increased adaptive capacity within relevant development sector services and infrastructure assets	4.2. Physical infrastructure improved to withstand climate change and variability-induced stress	5,000
PO3: Install an energy solution that takes advantage of the local energy resources to cover both electrical and thermal needs, including an energy management system that coordinates the operation of a diverse set of devices.	kWh of produced energy (electrical and thermal)	Outcome 6: Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	6.2. Percentage of targeted population with sustained climate-resilient alternative livelihoods	208<u>172</u>, 0 900
PO4: Define and implement a training program for ensuring the replicability of the solution in other places.	Number of people trained	Outcome 8: Support the development and diffusion of innovative adaptation practices, tools and technologies	8. Innovative adaptation practices are rolled out, scaled up, encouraged and/or accelerated at regional, national and/or subnational level.	20,000
Project Outcome(s)	Project Outcome Indicator(s)	Fund Output	Fund Output Indicator	Grant Amount (USD)

² The AF utilized OECD/DAC terminology for its results framework. Project proponents may use different terminology but the overall principle should still apply

	1			1
Outcome 1.1: Raise	Number of	Output 3.1: Targeted	3.1.1 No. of news outlets in	5,000
awareness	participating	population groups participating	the local press and media	
	people from the	in adaptation and risk	that have covered the topic	
	community	reduction awareness activities		
Outcome 2.1: Demonstrated	Local resources	Output 4: Vulnerable	4.1.2. No. of physical assets	5,000
community engagement	used / Local	development sector services	strengthened or constructed	
	resources	and infrastructure assets	to withstand conditions	
	available	strengthened in response to	resulting from climate	
		climate change impacts,	variability and change (by	
		including variability	sector and scale)	
Outcome 3.1: Technology	kWh of produced			1 <u>3</u> 50, <u>9</u> 0
familiarization	energy (electrical			00
	and thermal)			
Outcome 3.2: Installed	kWh of produced	Output 6: Targeted individual	6.1.1.No. and type of	2 <mark>08</mark> ,000
capacity in the community	energy (electrical	and community livelihood	adaptation assets (tangible	
	and thermal)	strategies strengthened in	and intangible) created or	
	Energy efficiency	relation to climate change	strengthened in support of	
Outcome 3.3: Pilot of	kWh of produced	impacts, including variability	individual of community	30 22,00
management system	energy (electrical		iiveiinood strategies	0
	and thermal)			
	Energy efficiency			
Outcome 4.1: Training	Number of	Output 8: Viable innovations	8.1. No. of innovative	20,000
programs defined	people trained	are rolled out, scaled up,	adaptation practices, tools	, i
		encouraged and/or	and technologies	
		accelerated.	accelerated, scaled-up	
			and/or replicated	

E. Include a budget, including a budget on the Implementing Entity management fee use, and an explanation and a breakdown of the execution costs.

<u>Ac</u>	tivity	<u>Unit</u>	Number of	Unit cost	<u>USD</u>
	Component 1: Soc	ialization phase	units		
Pro	ject presentation to community (PO1)	Presentation	2	1,000	2,000
Vic	eo of the project idea (PO1)	Video	1	1,000	1,000
Me	etings to identify main concerns from the community (PO1)	Meetings	<u>2</u>	<u>1,000</u>	2,000
	Component 2: Pro	oject definition			
Pre	sentation of identified potential energy sources (PO2)	Presentation	<u>1</u>	<u>1,000</u>	<u>1,000</u>
Pre	sentation of identified demand and synergies among	Presentation	<u>1</u>	<u>1,000</u>	<u>1,000</u>
en	ergy sources (PO2)				
Wo	rking tables (PO2)	Meetings	<u>3</u>	<u>1,000</u>	<u>3,000</u>
	Component 3: Project implementation				
Pu	rchase of energy devices (biodigesters, storage devices,	Technology to	To be defined		
ph	ptovoltaic panels, water recirculation, electrolyzers,	be defined	with community		<u>172,900</u>
otr	ers), (PO3)				
	Component 4: Cons	solidation phase		T	
<u> </u>	ining programs (PO4)	<u>1</u>	<u>4</u>	<u>5,000</u>	<u>20,000</u>
	Managem	<u>ent fee</u>		•	
NI	<u>Management Fee (5%)</u>	<u>1</u>	<u>1</u>	<u>11,900</u>	<u>7,500</u>
	Project Exect	ution Cost			
Pro	<u>ect Coordinator</u>	<u>1</u>	<u>1</u>	<u>39600</u>	<u>39600</u>
				TOTAL	250,000

F. Include a disbursement schedule with time-bound milestones.

Schedule disbursement	Upon signing contract	<u>6 months after</u> project starts	<u>12 months after</u> project starts	<u>Amount</u> (USD)
Schedule date	April 2023	October 2023	March 2024	
Project funds	100,000	100,000	<u>2,900</u>	202,900
Project Implementing Entity	7,500	<u>0</u>	<u>0</u>	7,500
Project Execution Cost	<u>39,600</u>	<u>0</u>	<u>0</u>	<u>39,600</u>
Total				250,000

PART IV: ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

A. **Record of endorsement on behalf of the government**³ *Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:*

Jenny Mager Santos Head of Climate Change Office, Designated Authority, Ministry of Environment	Date <i>: August, 01, 2022</i>

B. Implementing Entity certification Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person's name, telephone number and email address

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans in accordance with Chile's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by Climate Change and subject to the approval by the Adaptation Fund Board, <u>commit to implementing the project/programme in</u> <u>compliance with the Environmental and Social Policy of the Adaptation Fund</u> and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

^{3&}lt;sup>6.</sup> Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

ENRIQUE O'FARRILL-JULIENCARL	A GUAZZINI GALDAMES
Acting Executive Director	
Chilean International Cooperation Ag	ency for Development (AGCID)
Implementing Entity Coordinator	
	Tel_and email:+56228275754 /
Date: August, 05, 2022	
	cguazzini@agci.gob.cl
Project Contact Person: Marco Ibarra	a, Policy Analyst.
Tel. And Email: +56228275759 / mib	arra@agci.gob.cl

Г

甗	Ministerio del Medio Ambiente
	Gobierno de Chile

Letter of Endorsement by Government

Letter N°223005/

Santiago, 01-08-2022

To: The Adaptation Fund Board c/o Adaptation Fund Board Secretariat Email: afbsec@adaptation-fund.org Fax: 202 522 3240/5

In my capacity as designated authority for the Adaptation Fund in Chile, I confirm that the project proposal: "Comprehensive multi-energy isolated for community-based food security in the Chilean Patagonia" is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Chile.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by AGCID and executed by Austral University.

Sincerely,

Mager

Jenny Mager Santos Head Climate Change Division Ministry of Environment of Chile Designated Authority of Chile

MJG/GSG/mrs

CC;

- AGCID
- International Affairs Office
- Archivo División de Cambio Climático
- Oficina de Partes