



Presentation Outline

- Overview of Existing MRP Activities and Progress
- II. Overview of Chile's Mitigation Strategy, Nationally Determined Contribution (NDC) and Carbon Pricing Policies
- **III.** Proposed Activities: Scope of Work and Additionality
- IV. Budget, Timeline and Outputs
- V. Anticipated Risks, Expected Outcomes and Monitoring and Evaluation (M&E)



I. Overview of Existing MRP Activities and Progress



Existing MRP Activities: An Overview

MRP overview

Grant Executed By:	Recipient: Chilean International Cooperation and Development Agency (AGCID)
Grant Effectiveness and Closing Dates:	09/05/2014 - 09/05/2017
Grant Amount (USD):	USD 3,000,000
Funding Mobilized (USD):	Actual estimates pending
Funding Committed (USD):	USD 2,250,000 (contracted to date, 75%)

- Objectives of the original MRP
- (i) to support the implementation of the Chilean carbon tax (MRV, build knowledge);
- (ii) to evaluate alternatives and future scenarios to implement a more comprehensive carbon pricing system (e.g. ETS, offsets);
- (iii) to help positioning carbon pricing developments in Chile at national and international levels.



Existing MRP Activities: Status

COMPONENT 1		Status			
Activity	Delayed	On track	Delivered	Comments	
Activity 1: To analyze international developments on carbon pricing and their implications on Chile's related public policies.			√	Policy analysis to feed into the roadmap	
Activity 2: To evaluate Chile's participation in the CDM			✓	In-depth analysis of CDM, insights from PPs	
Activity 3: To evaluate an design alternatives for a more comprehensive carbon pricing instrument& a roadmap for decision making		√		Carbon tax proposals delivered	
Activity 4: To design a Mandatory Reporting System	√			Tendering process	
Activity 5: To design an MRV Platform and a mitigation recognition program in the energy sector.	✓			Tendering process	
Activity 6: To design an ETS Simulator	✓			TOR design	



Existing MRP Activities: Status

COMPONENT 2		Status		
Activity	Delayed On track Delivered		Comments	
Activity 1: To analyze IT Security and computer procedures			✓	Current security issues improved
Activity 2: To design the Carbon Tax's MRV System		✓		Scalable to other sectors, gases, carbon pricing instruments
Activity 3: To implement the Carbon Tax's MRV System		✓		Scalable to other sectors, gases,
COMPONENT 3 Activity				
Activity 1: To design and implement a Communication, Consultation, and Engagement Strategy		✓		Capacity building Media Plan "Champions"



Existing MRP Activities: Expected Results and Status

Component	Main Deliverables	Start Date	Finish Date	Status	Risk
	Analysis of international developments on carbon pricing and	sep-16	jan-17	100%	
	their implications on Chile's related public policies	36h-10	Jan-17	10070	
	Detailed evaluation of Chile's participation in the CDM,				
	considering the new scenario of commitments under the Paris	nov-16	feb-17	95%	
	Agreement				
	Alternatives of design and additional measures to decide on a				
1	more comprehensive carbon pricing instrument, including a	dec-17	jul-17	30%	
	roadmap for decision making				
	Design of a robust MRV system (MRV 3.0), based on a	apr 17	2ug 17	5%	
	Mandatory Reporting System	apr-17	aug-17	370	
	Design of an MRV Platform and a mitigation recognition	apr 17	200 17	5%	
	program in the energy sector	apr-17	aug-17		
	Design of an ETS Simulator for the energy sector	apr-17	aug-17	1%	
	Diagnosis of computer security system for the emissions registry	nov-16	mar-17	100%	
2		1107 10	mar 17		
	Design of Carbon Tax MRV	jan-17	jul-17	35%	
	Implementation of Carbon Tax MRV	dec-17	jul-17	30%	
	Comunication, Consultation, and Capacity Building Strategy	aug-16	jun-17	60%	
3	Project webpage, merchandising and overall dissemination	jun-16	mar-17	100%	
	materials	juii 10	mar 17	10070	
	Technical Workshop program	oct-16	aug-17	30%	
	Impacts of the Carbon Tax in thermal power generation	nov-15	mar-16	100%	
UPA/PAW*	Interaction between the Carbon Tax and the Energy and	nov-15	mar-16	100%	
	Environmental Policies	1104-13	mar-10	10070	
	Energy Sector Mitigation Plan (Policy package for NDC	jun-16	mar-17	050/	
compliance)		Juli-10	11101-17	95%	
TWP*	Survey of emitting industries	jun-16	mar-17	100%	

Policy Analysis Work Program Activities: An Overview

PAWP: scope, funding allocation(s) and expected outcomes

Scope	Funding Allocation	Expected outcomes	Comments
Carbon Tax (1)	79.000 USD	Interactions with other policies in the energy sector	Inputs to study on carbon pricing alternatives
Carbon Tax (2)	165.000 USD	Impacts of carbon tax on energy tariffs, emissions reduction, fuel shifting	Inputs to study on carbon pricing alternatives
NDC	215.700 USD	Mitigation Action Plan	Under public consultation

- Complementarity of PAWP activities with other ongoing activities
 - National Energy Policy Implementation (linked NDC);
 - National Climate Change Action Plan
 - MRP Deliverables
 - OECD Environmental Outlook Chile 2016



Existing PMR-supported Activities: Lessons Learned

- Main lessons learned during the first proposal implementation
 - Carbon pricing is still not sufficiently mature in Chile
 - Carbon tax has helped in installing the debate (private sector is engaged and looking for ways forward)
 - MRV capacities need further strengthening
 - Competitiveness considerations must be taken into account, as well as competition of environmental services associated.
 - Complementarity with related policies is a must
 - There is a good opportunity to consider other instruments (offsets)

Existing PMR-supported Activities: Lessons Learned

- Key readiness gaps identified during the first proposal implementation
 - Lack of knowledge at the technical and political levels on carbon pricing
 - Environmental information gaps (emissions)
 - Limited MRV capacities (carbon pricing)
 - Limited environmental service industry (emissions)
 - Legal attributes regarding emissions regulation (Superintendence of the Environment)
 - Institutional and financial resources
 - Role of carbon pricing in achieving NDC is not well understood.



II. Overview of Mitigation Strategy, Nationally Determined Contribution (NDC) and Carbon Pricing Policies



- Overview of the overall mitigation strategy
- Chile is firmly committed to contribute to international mitigation efforts:
- Pre and post-2020 mitigation commitments
- Paris Agreement ratification submitted to UNFCCC on February 2017
- National Climate Change Action Plan is being revised and updated
- NAMA portfolio/GCF portfolio
- Mitigation Action Plan in the Energy Sector is under public consultation (relevance of EE, Renewable Energy and Transport measures; Carbon Pricing and PMR highlighted as part of enabling instruments)

- Other important policy developments
- National Energy Policy (for 2050)



- Launched by President Bachelet on December 2015
- Long term view on energy development
- Multistakeholder engagement
- Relevant goals on RE and EE
- Climate change as important topic



National Energy Policy and Climate Change

GOALS FOR 2035

- To reduce the intensity of GHG emissions committed under the Paris Agreement.
- o To implement a **GHG Emissions Mitigation Plan**, as well as an **Adaptation Plan** for the energy sector.

GOALS FOR 2050

 GHG emissions of the energy sector are consistent with international thresholds and NDCs.

RELEVANT RELATED GOALS

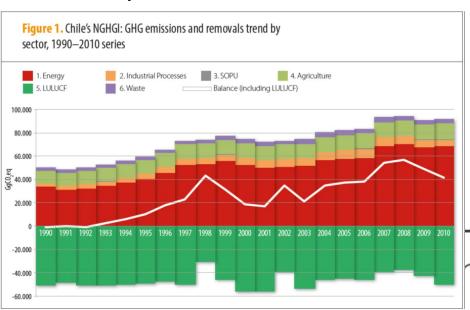
- At least 60% of electricity generated in Chile comes from RE sources (2035).
- At least 70% of electricity generated in Chile comes from RE sources (2050).
- o Promote the use of **low emissions fuels.**
- EE Law (in preparation), initial focus: big consumers.



- Other important policy developments
- National Sustainable Consumption and Production Strategy
 - Approved in July 2016 by the Council of Ministers for Sustainability, it contains actions in several sectors, with energy as a crosscutting theme. In line with the National Energy Policy, it highlights carbon pricing and the role of the PMR.
- Climate Change and Sustainable Development Agency
 - Operational since January 1st, 2017, has the aim of promoting an integral transformation towards a low carbon economy (higher levels of efficiency in the use of resources, lower pollution levels).

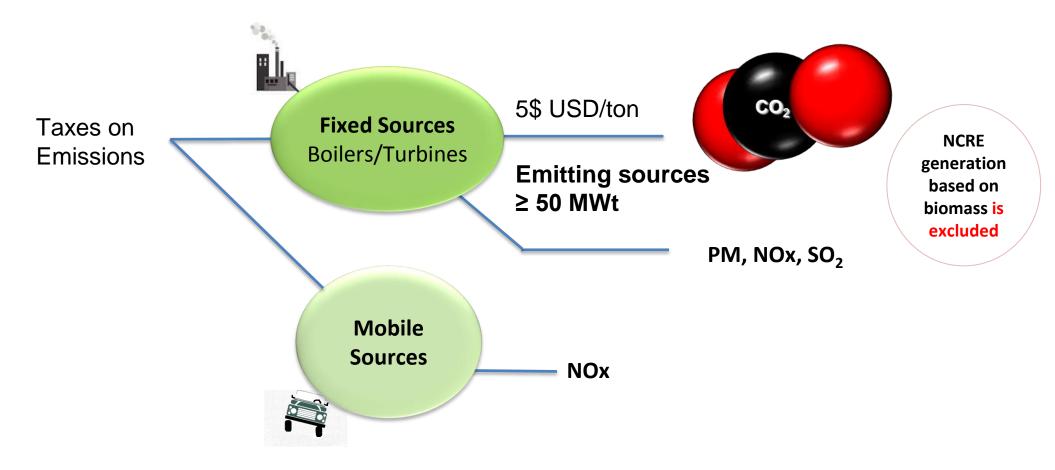


- Main features of Chile 's NDC, including stated emission reductions objectives and targets
- 30% reduction of Chile's emissions intensity (CO₂/GDP) by 2030, compared to 2007 levels.
- Increasing up to 45% with international support
- Role and responsibility of the Energy Sector is very high (77.4 % share of total emissions in 2013).



Forests: recovery of 100,000
 hectares of native land/reforest
 100,000 hectares of native forest

Existing carbon pricing instrument(s): green taxes



Entry into force: 1st of January 2017



Planned carbon pricing instrument(s): PMR

1. Enhancement of the current Carbon Tax Scheme

- Broadening the scope
- Review for an incremental tax rate

2. Inclusion of Supplementary Measures to the Tax

- Use of offsetting mechanisms
- Income recycling
- Measures to reduce low income households impacts
- Other alternatives

3. Transition to an Emissions Trading Scheme

- Evaluation of the design for a Chilean ETS Scheme (sectors, allocations, scope, MRV system, etc.)
- Pilot with real data but no enforcement of an ETS with the private sector

Proposals by August 2017

- The role of carbon pricing instruments in achieving mitigation ambition
 - Needs to be better understood
 - The carbon tax is covering around 40% of total CO₂ emissions (85 installations).
 - If not applied to the variable cost, impacts on emissions reduction is low.
 - In combination with higher rates and included in VC, it could change the merit order between different forms of thermal generation.
 - Role of ETS and offsets should be included in modelling exercises/decision making



- Legislative basis and institutional arrangements for planned/existing carbon pricing instrument(s) Legislative basis:
 - Tax Reform, Law 20.780 (green taxes)
 - **Bylaw, Decree No. 18** (MMA): This legal instrument enables green taxes to operate.
 - Instructions for the quantification of emissions from fixed sources. Establishes the protocols (methodologies and procedures) to measure emissions of PM, NOx, SO₂ and CO₂.



Institutional arrangements for existing/planned carbon pricing instrument(s)

Ministry of the Environment

- Defines an annual list of entities that are subject to the carbon tax and local contaminants, starting in 2017
- Opened a register of installations

Superintendence of Environment

Defines the MRV system for CO₂ and other pollutants, and the requirements to certify those emissions (ex post) that are reportable for carbon tax purposes.

National Energy Commission/Dispatch Energy Centers (1)

 Estimate and apply the apportionment mechanism established in the Law, concerning electricity generation and how the CO₂ tax is being applied.

Planned Institutional Arrangements

For a more
 comprehensive
 carbon pricing
 instrument, such
 as an ETS, the
 analysis and design
 will be done
 through Chile's
 PMR Project.

(1) System Operator



- Political support and commitment for planned/existing carbon pricing instrument(s)
- President Bachelet as member of High Level Panel on CP and strong support to CPLC.
- Carbon tax as a relevant figure in official statements and op-eds at local newspapers and specialized magazines.
- Ministries of Energy, Environment, Finance and the Superintendence of Environment, are highly committed towards a sound implementation of the carbon tax.
- The PMR-Chile Project will provide robust evidence to promote political debate on future carbon pricing options.



III. Proposed Activities: Scope of Work and Additionality



Additional Funding Proposal: An Overview

 Objectives and outline of the proposed activities and related deliverable(s)

refated deliverable(5)					
Overall Objective	Activity	Deliverable(s)			
To provide solid training and hard evidence to all relevant stakeholders, with the purpose of: -Mainstreaming carbon pricing instruments within a	decision making on future carbon	 Discussion papers & policy drafts on Carbon Pricing proposals (Tax, ETS) Evaluation of carbon tax´s first implementation year Technical workshops and seminars briefings In-country visits High level decision-making agreements Technical documents Press releases and notes Dissemination materials and documents 			
national climate change policy; -Understanding their role in achieving the	A2. To implement a Mandatory Reporting and Verification System (MRV 3.0), compatible to operate an ETS in Chile and compatible with similar regional reporting systems	Registry platformTechnical cooperation agreements (Mexico, California,.)			
country's NDC; -Building on the progress and	A3. To Implement an MRV Platform and Mitigation Recognition Program for the energy sector				
readiness achieved through the initial PMR	A4. ETS Simulator Implementation	-ETS Simulation Software/implementation - Cooperation agreements - Technical workshop documents/briefs - Case study documents			

Additional Funding Proposal: Additionality of Proposed Activities

- Complementarity of proposed activities
- The proposed activities are complementary to ongoing MRP activities:
- They are seeking to provide continuity and be operational to what was defined and executed during initial PMR project.
- ◆ They are expected **to broaden the scope** for the use of carbon pricing instruments, by **resetting the focus** on alternatives for the carbon tax, as well as an ETS proposal (complemented by an ETS simulator) and the use of offsets.
- They would allow for a "Leap frogging" from the Carbon Tax MRV to a Mandatory Reporting System.
- They will provide the foundations to build an accounting system in line with Paris Agreement requirements.



Additional Funding Proposal: Additionality of Proposed Activities

- Ways in which they are expected to fill readiness gaps identified in Section I of the PPT
 - The implementation of a CP Roadmap aims mainly at reducing the knowledge gap, aiming at training decisionmakers and high level officials in CP and its applications
 - The implementation of a Robust MRV System will help continue efforts towards MRV capacity building and accounting robustness both on a top-down and a bottom-up approach
 - An ETS pilot program aims at providing evidence for stakeholders and further engaging with the private sector and helping increase coordination between government agencies involved in monitoring and regulating emitters



Additional Funding Proposal: Additionality of Proposed Activities

- Ways in which they are expected to fill readiness gaps identified in Section I of the PPT
- Knowledge at technical and political level will be strengthened through workshops, high-level meetings and seminars, in-country visits, technical briefings and policy papers on carbon pricing alternatives, among others...
- Local emission factors and other relevant data will be elaborated;
- MRV capacities at government and industry will be strengthened through capacity building activities;
- Market of environmental service providers will be increased;
- Financial resources options to sustain the implementation of the carbon tax and other CP instruments will be explored;
- In depth analysis of CP and NDC will be performed.



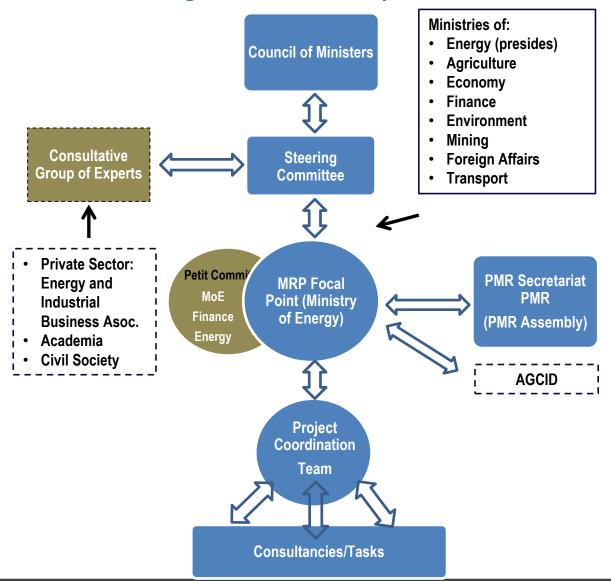
Additional Funding Proposal: Institutional Arrangements

- Institutional arrangements: Proposal development (key agencies involved)
 - Ministry of Energy in collaboration with:
 - Ministry of Environment
 - Consultative Group of Experts
 - Steering Committee
 - AGCID



Additional Funding Proposal: Institutional Arrangements

Institutional arrangements: Proposed activities implementation





Additional Funding Proposal: Institutional Arrangements

Demonstration of political support for proposed activities

- No-Objection letter from the Ministry of Finance
- Cooperation Agreement with the Ministry of the Environment:
 - specific provisions for MRP implementation/coordination



Additional Funding Proposal: Eligibility Criteria

- A snapshot of how the proposal complies with the agreed eligibility criteria for additional funding
 - Committed funding is 75% at present
 - The proposal strengthens and complements the implementation of existing activities
 - It will help achieve the MRP objectives
 - It is expected to overcome the existing barriers to implementation, and
 - Improves readiness for the implementation of carbon pricing instruments



IV. Budget, Timeline and Outputs



Additional Funding Proposal: Timeline and Budget

Activity	Output(s)	Time required for completion	Estimated completion date	Budget allocation (PMR)	Budget allocation from other sources
of roadmap for decision making on	 Discussion papers & policy drafts Evaluation of carbon tax´s first implementation year Technical workshops and seminars briefings In-country visits High level decision-making agreements Technical documents Press releases and notes Dissemination materials and documents 	36 months	August 2020	420.000	80.000
(MRV 3.0), compatible to	Registry platformTechnical cooperation agreements	24 months	January 2020	480.000	20.000



Additional Funding Proposal: Timeline and Budget

Activity	Output(s)	Time required for completion	Estimated completion date	Budget allocation (PMR)	Budget allocation from other sources
A3. MRV Platform and Mitigation Recognition Program for the energy sector	07	20 months	March 2019	380.000	20.000
A4. ETS Simulator Implementation	 -ETS Sim Software Cooperation agreements Technical workshop documents/briefs - Case study documents 	30 months	June 2020	720.000	80.000
			Total	2.000.000	200.000



V. Anticipated Risks, Expected Outcomes and Monitoring and Evaluation (M&E)



Additional Funding Proposal: Identified Challenges and Risk Mitigation Strategy

- Potential risks to implementation or successful completion of outcomes
 - Funding Accession process and Change in Administration (potential delays)
 - Knowledge level and infrastructure capacity for carbon pricing
- Strategy for risk mitigation
 - Concrete and feasible proposals on carbon tax evolution and ETS, ready for the new Administration
 - Implementation of the roadmap for decision making
 - Frequent discussions and technical workshops with high level decision makers/in-country visits.



Additional Funding Proposal: Overview of M&E Arrangements

Proposed M&E arrangements

Activity/Output	Indicator	Baseline	Target	Method for Measuring Progress
Implementation of roadmap for decision making	-n° of issued discussion/policy papers, high level meetings, consultations made	Original MRP	-Final reports	-PDO and intermediate results indicators -Status Reports
Mandatory Reporting	-n° of companies adding to the reporting,	Current MRV System	Final Reports	-Completion Reports -Financial
MRV Platform/recog- nition program	n° of Mitigation actions registered/recogni zed; amount of emissions being quantified	Current NAMA portfolio, other mitigation follow-up	Final Reports	Statements -PMR country updates



Key impacts stemmed from Chile 's PMR Project.

"The PMR has made a significant contribution to creating the bases for a path for a low carbon economy in Chile, strengthening carbon pricing and the policies, institutions and instruments directly related to carbon pricing".



- Key impacts stemmed from Chile 's PMR Project.
 - Has been crucial in substantially improving the implementation of the carbon tax (institutional and human resources);
 - Has been instrumental in defining the scope of regulated entities (TPW study, "survey of emitting industries") and in exploring possible pathways for carbon tax changes in the electricity sector.
 - Has created new knowledge, raised awareness and built new capacities in CP through technical workshops, high level meetings and studies;
 - Has contributed to raising consciousness towards climate change in society as a whole.



- Key impacts stemmed from Chile 's PMR Project.
 - Has contributed to a close interministerial collaboration (Ministry of Environment, Ministry of Energy, Ministry of Finance);
 - Has contributed to bringing together key public and private actors, by means of the Advisory Group of the project. All relevant industry associations actively collaborating in the Project;
 - Has caught the attention of Congressmen;
 - Has provided the key input to the Climate Change Mitigation Plan in the Energy Sector.





Key impacts stemmed from Chile 's PMR Project.

"The PMR has been a cornerstone not only in carbon pricing itself, but has made a significant contribution in laying the foundations for more solid institutions and instruments regarding climate change in Chile".

IT'S CONTINUATION IS KEY!!



Thank You for Your Attention

MITIGATION ACTION PLAN:

HTTP://WWW.ENERGIA.GOB.CL/PARTICIPA/CONSULTAS-CIUDADANAS/CONSULTA-PUBLICA-3

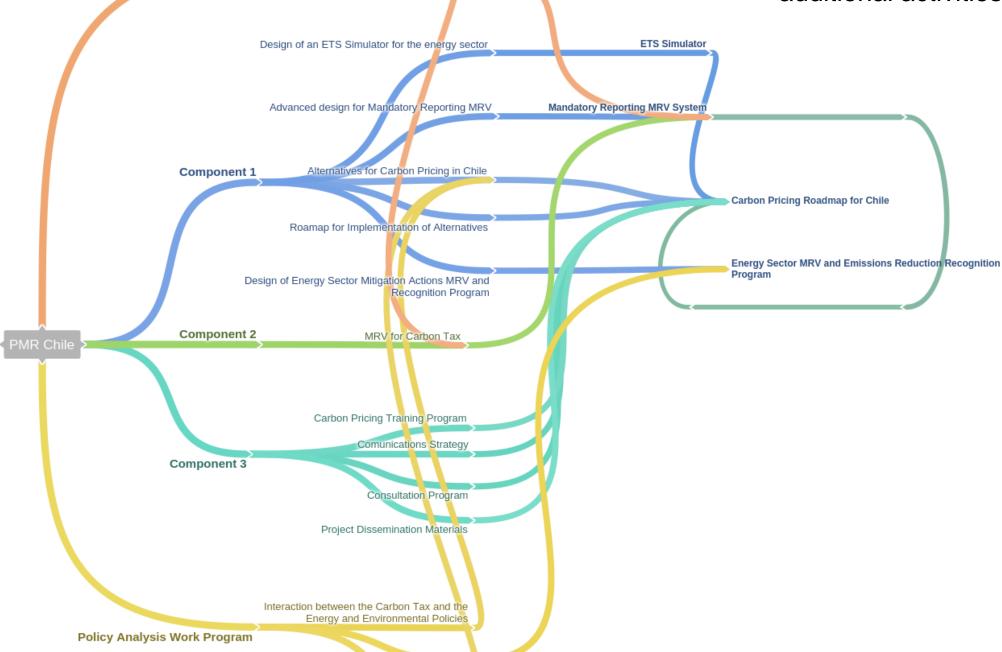
FOR MORE INFORMATION, PLEASE CONTACT:

JSEARLE@MINENERGIA.CL



Technical Work Program Survey of Emitting Industries

Project overview: Original MRP + additional activities



compliance)

Energy Sector Mitigation Plan (Policy package for NDC

Impacts of the Carbon Tax in thermal power generation