

# 8<sup>th</sup> workshop of the Facilitative sharing of views

## Chile



**CHILE LO  
HACEMOS  
TODOS**

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09/12/2019

# **Part I: Summary of 3<sup>rd</sup> BUR and recent development**



# Brief context of Chile

- Despite representing only 0.25% of global GHG emissions, Chile is highly vulnerable to Climate Change
- Developing country with increasing GHG emissions
- According to economic assessments, the effects of Climate Change could cost 1.1% of National GDP annually



2009

2010

2012

2014

2015

2016

2017

2018

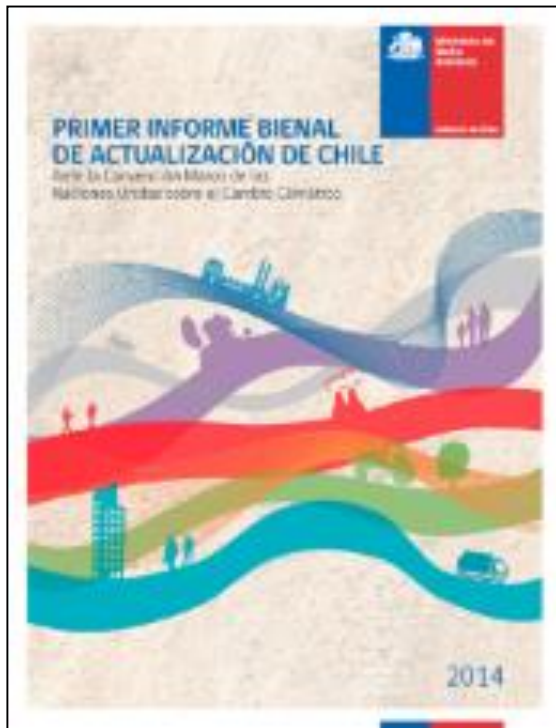
2019

Chile presents its voluntary mitigation commitment (COP15, Copenhagen)	Ratification of the voluntary commitment	MAPS-Chile Project begins: Key information for decision making process	Public consultation of the INDC and Submission of the 1st BUR	President Bachelet announces the Chile's INDC in the UN general Assembly	Public consultation of the National Action Plan on Climate Change; 2 <sup>nd</sup> BUR	Ratification of the Paris Agreement and publication of the PANCC (next)	Submission of the 3rd BUR	Public consultation of Chile's new NDC. Presidency of COP 25 in Madrid
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# Past BURs submitted by Chile

**Chile's second biennial  
update report  
November 2014**



**Chile's second biennial  
update report  
November 2016**



# Chile's third biennial update report

November 2018



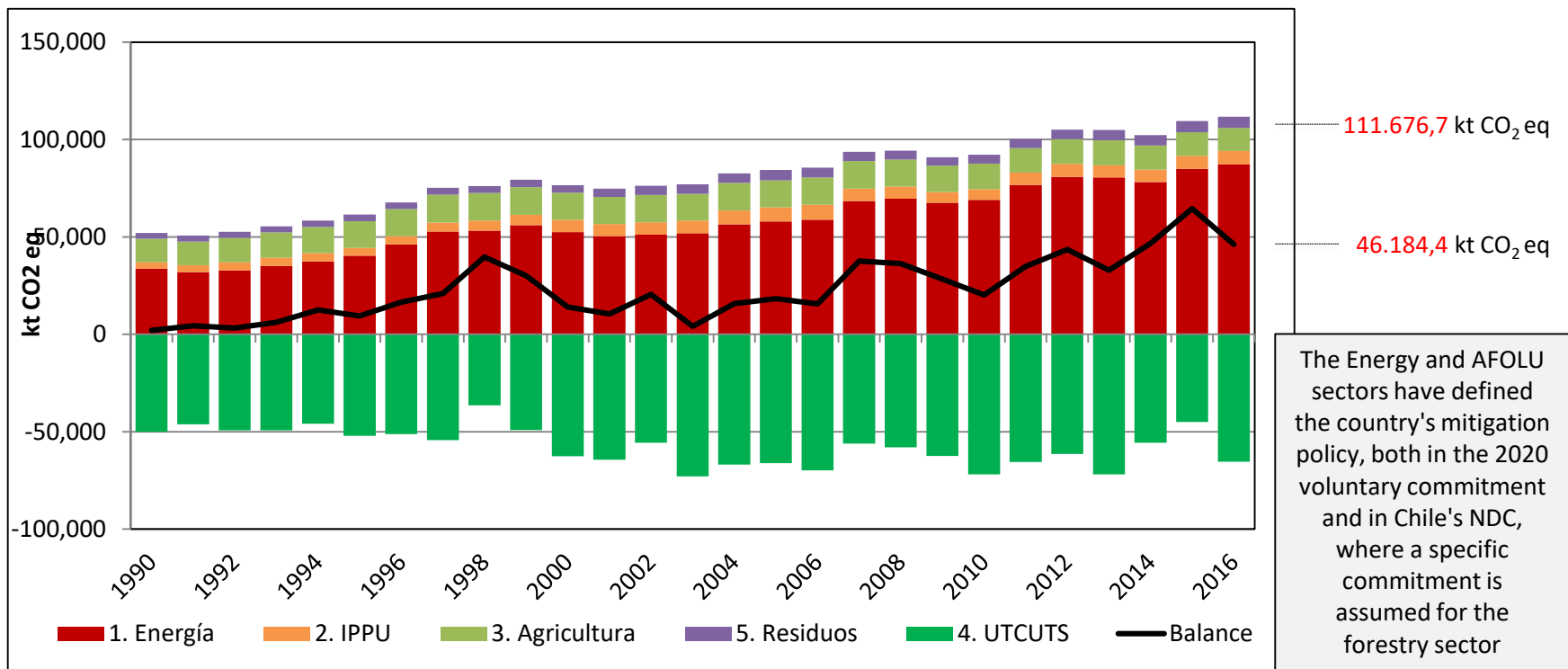
TERCER  
INFORME BIENAL DE  
**ACTUALIZACIÓN DE CHILE  
SOBRE CAMBIO CLIMÁTICO**  
2018



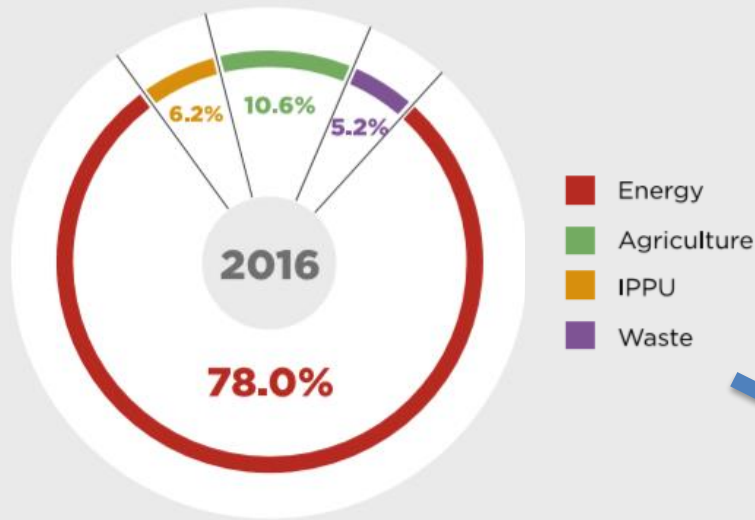
# GHG inventory – Trends

- In 2016, Chile's balance of GHG emissions and removals (inc. FOLU) amounted to **46,184.4 Gg CO<sub>2</sub> eq.**
- Chile's total GHG emissions (exc. FOLU) amounted to **111,676.7 Gg CO<sub>2</sub> eq,**
- An increase of **115%** since 1990 and of **7%** since 2013. The main GHG emitted by Chile was CO<sub>2</sub> (**79%**), followed by CH<sub>4</sub> (**12%**), N<sub>2</sub>O (**6%**), and F-gases (**3%**).

Chile's NGHGI: emissions and removals of GHG (Gg CO<sub>2</sub> eq) by sector, series 1990-2016

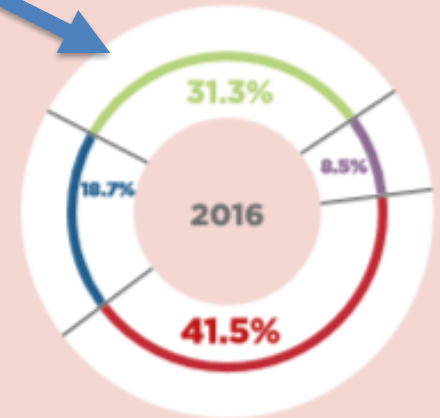
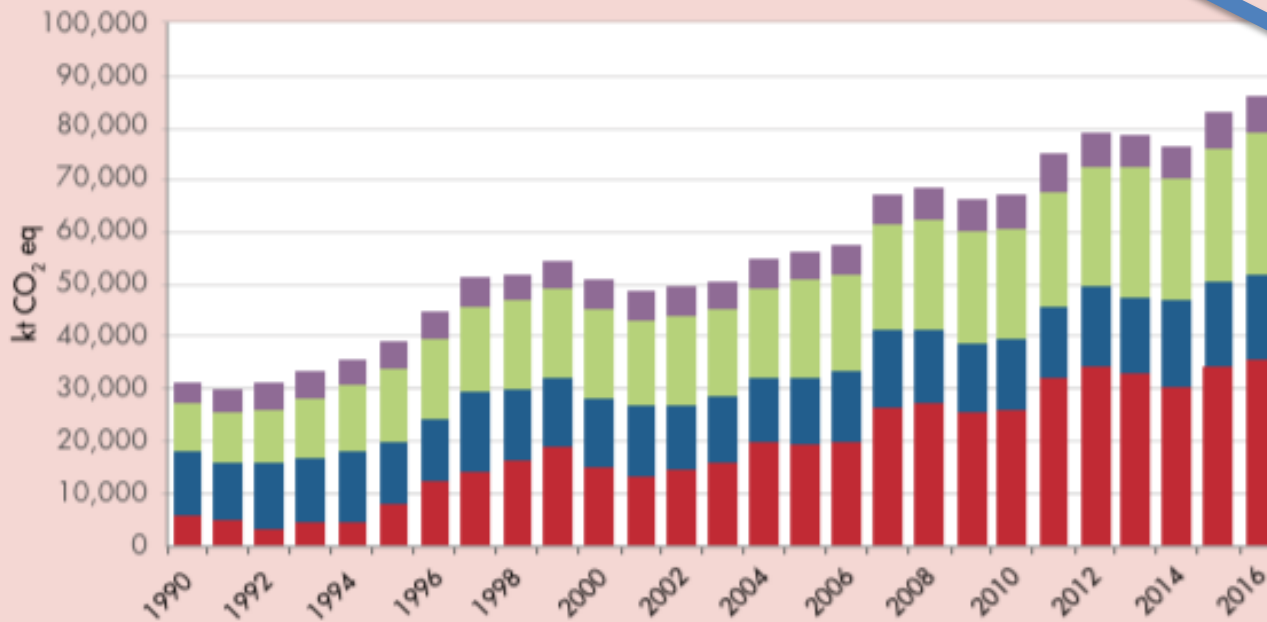


# Energy sector subcategory



Chile's NGHGI – Total GHG emissions (kt CO<sub>2</sub> eq) by sector,

Energy – GHG emissions (kt CO<sub>2</sub> eq) per subcategory, series 1990-2016



■ 1.A.1. Energy industries   ■ 1.A.2 Manufacturing industries and construction   ■ 1.A.3. Transport   ■ 1.A.4. Other sectors



# Recalculation

When comparing the GHG balance of both inventories for the year 2013, a considerable difference is detected in the results. (approximate values).



Parameter (ktCO <sub>2</sub> e)	Year 2013 (NGHGI 2016)	Year 2013 (NGHGI 2018)
<b>GHG Balance</b>	<b>+70.000</b>	<b>+33.000</b>
GHG Emissions	+95.000	+105.000
GHG Removals	-25.000	-72.000

The main difference is attributed to improvements in the management of data in the LULUCF sector, the inclusion of new sinks and the development of new country-specific emission factors. Specifically:

- Incorporation of parks and reserves, such as forests under management;
- State of equilibrium of renewable forests (changed from 50 to 60 cm mean square diameter);
- Period of permanence of forests with management plans (extends to perpetuity);
- Reconstruction of the time series of the forest species *Eucalyptus nitens*;
- Incorporation of soil carbon deposition and litterfall according to the 2006 IPCC Guidelines;
- More detailed information for fires; and parametric data on growth by forest type with greater precision.

# Mitigation Actions

## Sectoral actions and policies

e.g. National Energy Policy (PEN 2050); Energy Route 2018-2022; National Electromobility Strategy; REP Law; ENCCRV; Infrastructure Plan 2017-2022

## Nationally Appropriate Mitigation Actions (NAMA)

6 NAMA registered (transport, APLs, energy, forestry, waste and agriculture)

## Mitigation efforts at subnational level

e.g. Regional Efforts on Climate Change; SCAM Certification

## Mitigation initiatives in the private sector

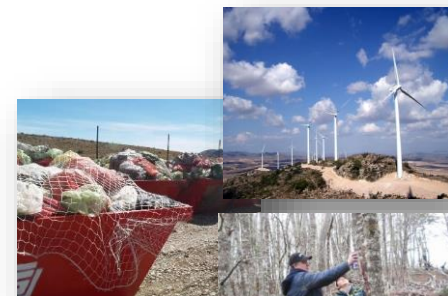
Public-private actions (APL, HuellaChile); Voluntary actions developed by the energy, forestry, agricultural, mining and cement sectors, among others.

## Implementation of carbon pricing instruments and mechanisms

e.g. CDM; PRM; Carbon tax; Social price of carbon

## Measurement, Reporting and Verification

MRV initiatives and actions in development and vision for the future



# Mitigation actions and their effects

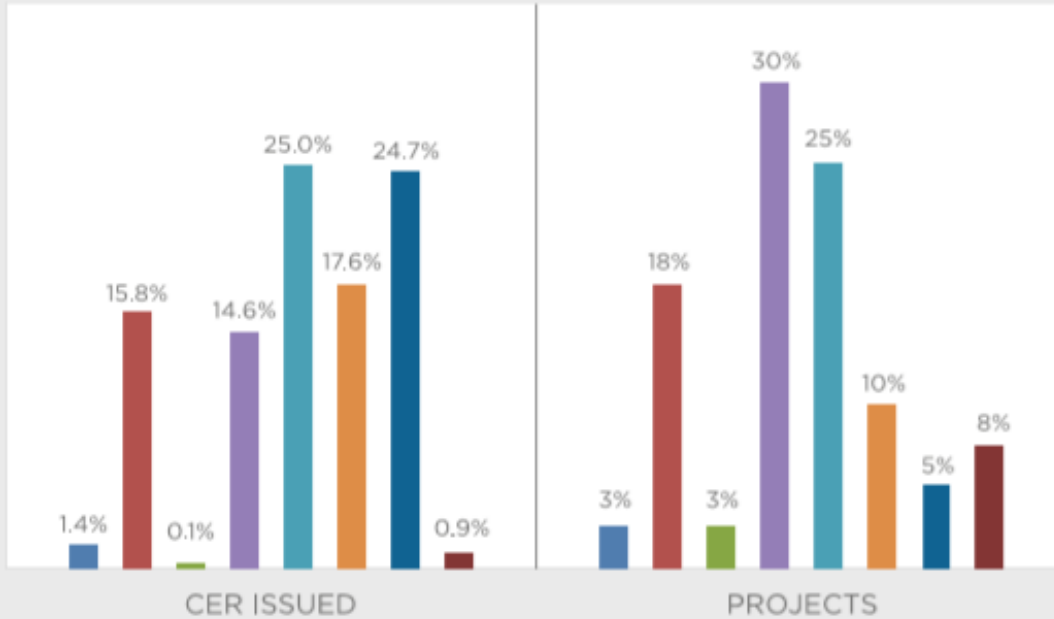
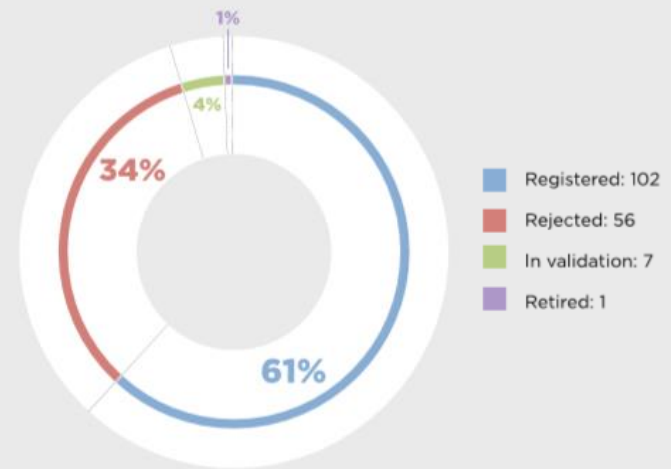
**Table 3. Measures related to the mitigation of GHG emissions in the energy sector**

Name	Type <sup>a</sup>	Year and status	Description	Objectives/Goal	Implemented actions	Progress
Short Law I (Law 19.940) (*)	Regulatory and incentive	2004 Implemented	It establishes incentives and right of connection to the grid for non-conventional means of generation and small means of generation (less than 9MW and between 9 and 20 MW).	<b>Short Law I:</b> Exception of payment by transmission to means of non-conventional generation. Right to distribution connection for small generators.	Development of technical regulations and standards. Advertising campaign. Pre-investment support instruments.	Fully operational law. More than 100 projects connected to distribution using the mechanisms contemplated by the Law. Estimated quantification in the package of "Non-Conventional Renewable Energy (NCRE) in Generation"
Regulation on Geothermal Energy Concessions (Law 19.657 of 2000) (*)	Regulatory	2004 Implemented	Within the framework of this Law and its regulations, the established procedure empowers the natural or legal person to request thermal energy concessions and participate in a public bidding process for the granting of a geothermal concession.	The exploration concession: the established procedure empowers the natural or legal person to request thermal energy concessions and participate in a public bidding process for the granting of a geothermal concession.	The Regulation was amended in 2004 (Law 19.657) to allow the participation of NCRE in the electricity generation matrix in Chile.	10 Exploration concessions, 22 explorative concessions.
Non-Conventional Renewable Energy Act (NCRE) (*)	Regulatory	2008 Implemented	It introduces modifications to the General Law of Electric Services, which establishes for electricity generation companies, with installed capacity above 200MW, the obligation to provide evidence of the participation of NCRE in the electricity generation matrix in Chile.	<b>Name of action: NON-CONVENTIONAL RENEWABLE ENERGY ACT (NCRE)</b> <b>Official Institution:</b> Ministry of Energy <b>Description / Objectives:</b> It introduces modifications to the General Law of Electric Services, which establishes for electricity generation companies, with installed capacity above 200MW, the obligation to provide evidence of the participation of NCRE in the electricity generation matrix in Chile. <b>Sector(s):</b> Electric generation <b>Gas(es) covered:</b> CO <sub>2</sub> ; CH <sub>4</sub> ; N <sub>2</sub> O	<b>Methodology:</b> The emission reduction is quantified using the following formula: $\Delta E = E(\text{MWh}) \times FE(\text{tCO}_2\text{eq/MWh})$ Where E is the energy generated and FE is the emission factor. In the SING the reduction is calculated considering the energy generated in the SIC and the emission factor of the SIC. The emission reduction in the SING is calculated analogously. Only the reduction of emissions associated to projects that started operations between 2007 and 2013 is counted. <b>Assumptions:</b> - The real energy information generated during the year 2013 is raised with NCRE sources for both SIC and SING. According to these references, the SIC and SING generated 3,245 GWh <sup>2</sup> and 22 GWh with NCRE during 2013, respectively. - A sensitivity analysis is performed with respect to the emission factor: 1) Emission factor for the SIC and SING estimated in the study of the electricity generation sector of the MAPS-Chile project. The 2013 emission factor was estimated based on the energy projection for 2013, not real energy from 2013. The values used are: 1,03 tCO <sub>2</sub> e/MWh for SING and 0,31 tCO <sub>2</sub> e/MWh for SIC. 2) Emission factor for the SIC and SING estimated from the real energy generated by the plant during the year 2013, considering the specific consumption, higher calorific value and the emission factor of the IPCC 2006 guidelines. The resulting emission factors are: 0,78 tCO <sub>2</sub> e/MWh for SING and 0,38 tCO <sub>2</sub> e/MWh for SIC. 3) Emission factor of a diesel engine was calculated assuming that, had there been no generation with NCRE sources, it would have been replaced by the generation of one or more diesel units. The emission factor used in this case is 1,06 tCO <sub>2</sub> e/MWh. - Sensitivity analysis regarding the recognition of contribution due to the promulgation of the Law. Five scenarios are defined: <b>Scenario 1 (most optimistic one):</b> 100% of the emission reduction associated to the NCRE sources is recognized. <b>Scenario 2:</b> It recognizes 100% of the reductions associated with solar and wind sources. Only 75% of biomass and hydraulic sources are recognized. <b>Scenario 3:</b> It recognizes 50% of the energy generated for all types of sources. <b>Scenario 4:</b> It recognizes 25% of the energy generated from wind, solar and biomass sources. The contribution of the hydraulic energy is not recognized. <b>Scenario 5 (most pessimistic one):</b> The contribution of any ERNC source is not recognized.	
<b>Expected / Reached Reductions:</b> The estimated reduction to the year 2013 (MMtCO <sub>2</sub> e) is estimated between 0.44-3.05						

# Carbon Pricing

## - CDM Status

Status of Chilean Projects submitted



% of CER Issued and type of projects

## - Green Taxes

Tax on CO<sub>2</sub> emissions of USD 5 a ton: sources made up of boilers or turbines that together add a thermal power greater than or equal to 50 MWt

# Needs and Support received

Table 2. Summary of needs, gaps and barriers reported by the energy sector (mitigation)

Area	Action/measure	Need	Gap	Barrier	Priority
Financial Resources	Action plan of Energy Efficiency (PAEE2020)*	<b>Agency for Energy Sustainability</b> To expand coverage of energy efficiency projects.	Lack of financial resources (USD 13,000,000) to replicate and expand the recipients of energy efficiency projects.	Potential beneficiaries have limited resources allocated to priority actions, making the necessary investment for the execution of the project difficult.  Little trained market, client/beneficiary does not have information and knowledge on the subject.	High
	2018-2022 Energy Pathway 2050 Energy Policy	<b>Ministry of Energy</b> Financial resources are required to enable industries implementing an energy management system within the framework of the future Energy Efficiency and to support the thermal reconditioning of existing housing.	Lack of adequate financial instruments to finance energy efficiency projects in the industrial and housing sectors. (USD 326,000,000 per year).	Projects financing	Very High
Capacity building and technical assistance	2018-2022 Energy Pathway 2050 Energy Policy	<b>Ministry of Energy</b> Technical assistance to define, implement and monitor a portfolio of PM Mitigation Plan in the energy sector.	It is required a prioritization methodology to carry out the mitigation project portfolio, with coordination between the public and private sectors. (USD 1,400,000 per year).	Projects financing. Access to and/or development of cost-effective technologies to mitigate, store, renewable energy and/or deliver flexibility to the network in supporting the renewable energy. Regulatory policies.	High
		<b>Ministry of Energy</b> Generate sub-national capacity on the mitigation issue and adaptation in the energy sector.	It is required to improve the knowledge on the climate change issues in the energy sector. To increase the number of professionals trained in the climate change issues at an institutional level in the sub-national level. Not quantified.	This is a new work line that will require allocating funds, professional support, advice and taking advantage of synergies with other lines of work	Very high
		<b>Ministry of Energy</b> Capacity building to implement the MRV system of local energy strategy	It is required to increase the knowledge on the climate change issues and specifically on the monitoring, reporting and verification of mitigation measures at a local level. This gap is valued at USD 100,000.		
		<b>Ministry of Energy</b> Increased participation of Non-conventional Renewable Energy in the	There is a need to improve forecasting systems, implementation of the market of complementary services (entry in force) and development of transmission systems to avoid cuts of renewable generation, and maintain the safety standard of the system.		
		<b>Ministry of Energy</b> Technical and technological assistance to maintain information platform Renewable Energies.	It is required to increase the technical knowledge and technology improvements to develop a high-quality platform information.		
		Promotion of biogas in the industry.	Lack of information with regarding quantification and georeferencing of organic waste generated in the industry		



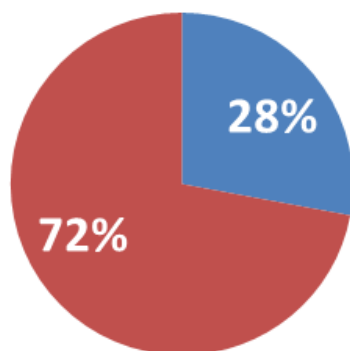
## IV. NEEDS AND SUPPORT RECEIVED IN THE FIELD OF CLIMATE CHANGE

# Needs and Support received **poyo** Recibido en Materia de Cambio Climático

USD \$40.327.701

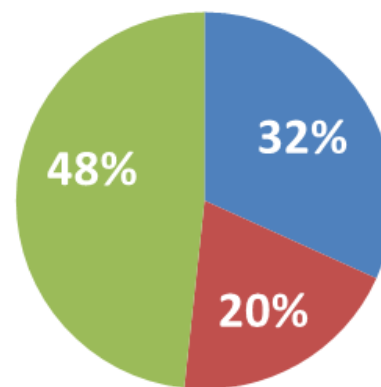
awarded to Chile during the reporting period

Support received by type of source  
(percentage)



■ Bilateral ■ Iniciativas e Instituciones Financieras Multilaterales

Support received by climate action area  
(percentage)



■ Adaptacion ■ Mitigación ■ Transversal

It includes initiatives that also correspond to support received for capacity building. Resources committed/allocated in reporting period (July 2016 - March 2018). Amounts correspond to donations

# Needs and Support received

## Main Needs

### Transversal Level

**Institutional strengthening for long-term planning and implementation of climate action**

Financing	Capacity Building	Technology
Increased availability of resources, consistent with current agenda and NDC commitments.  Climate finance strategy.	Permanent and specialized teams in public agencies.  Capacity building at sub-national level.	Updating of the country's technological needs, consistent with sectoral agendas and climate finance strategy.

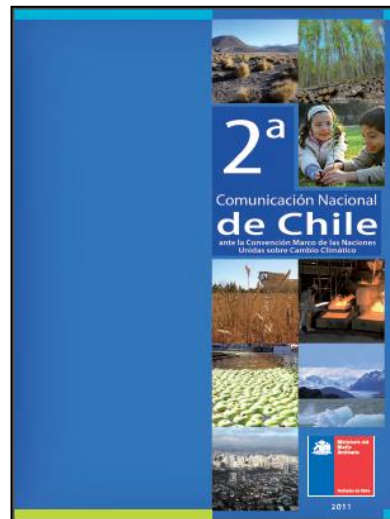
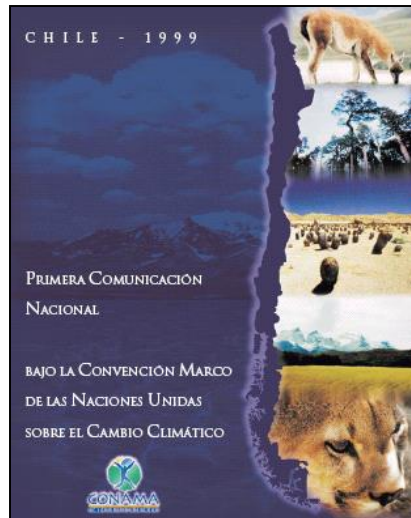
**Part II: Experience and lessons  
learned in participating in the ICA  
process**



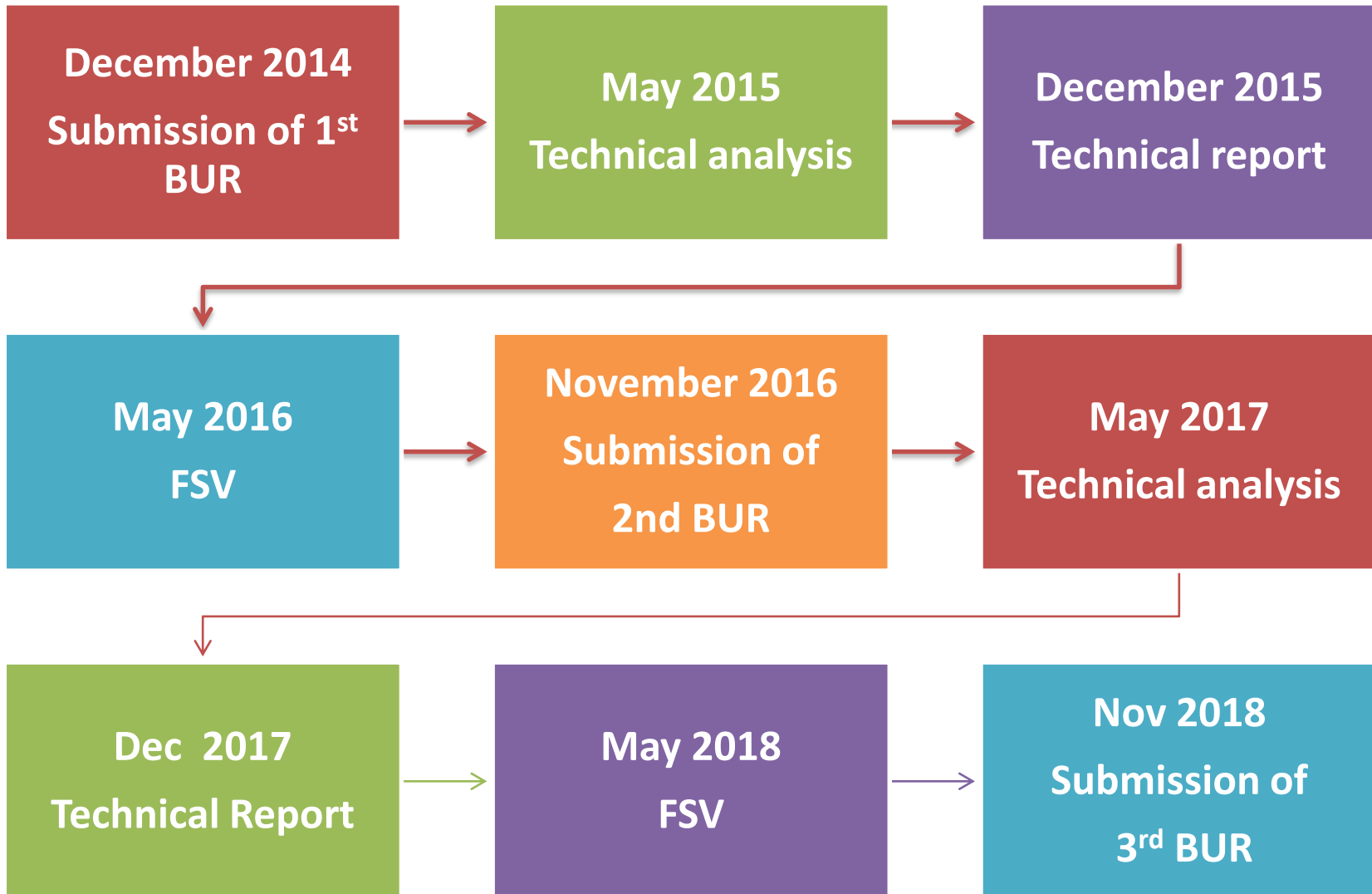


# Information on Chile's climate action

- Chile has submitted 6 National reports to de UNFCCC
- After COP16 and COP 17. Chile established some new institutional arrangement in order to meet the requirements.
- Chile was the First Latin American Country to submitted first and second BURs on time.



# Chile's BUR and ICA Cycle



# Elements for the improvement of the BUR

Chapter teams addressed different recommendation and needs as part of our QA/QC process

## GHG Inventory

- Need for improvement identified by the country
- Recommendations from voluntary review by International experts
- TTE recommendation from the ICA process (In depth)

## Mitigation actions

- Need for improvement identified by the country
- TTE recommendation from the ICA process

# Remaining challenges

- Sustainability of current arrangements
- Integration of climate change indicators and MRV as an assessment tool for sectoral institutions
- Improve capacities on tools for estimate mitigation impacts
- Centralize information gathering and management trough a unique platform, to improve and optimize reporting times (MRV hub)
- Include the lesson learned during BUR elaboration process and ICA for the new arrangement and design for the NDC's MRV

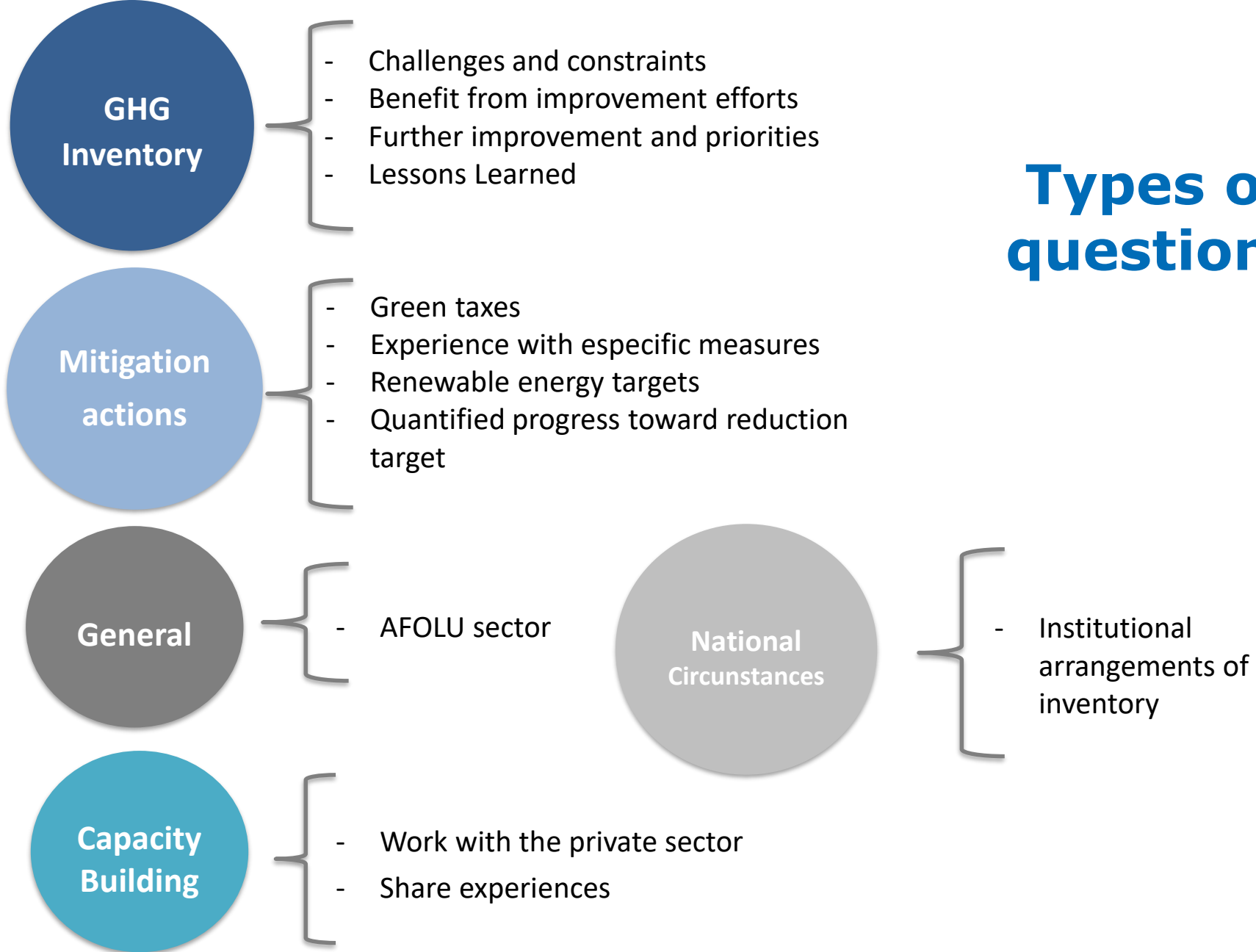
# **Part III: Response to questions received**



# Questions Categories



# Types of questions





**CHILE LO  
HACEMOS  
TODOS**



Category	Question	Answer	From
<b>National circumstances and institutional arrangements</b>	<p>1. Chile reports its national GHG inventory for the years 1990 – 2016, providing consistent time series and overachieving the requirements for BUR reporting, which requires developing for the reporting time frame of no more than four years prior to the date of submission. Could Chile provide some more information on the robustness of its arrangements, that have allowed the country report BURs (and NIRs) regularly and overachieving current requirements?</p>	<p>Three main activities from the SNICHILE allows us to meet the requirements for BUR reporting: first is the creation and strengthening of technical capacities, focusing on the individuals that develop the inventory and assuring that this created capacity stays in the institutions. Second, the reporting tables and system are organized in a simple and easily accessible way, facilitating the compiling process. And third, the methodologies and assumptions are transparent in the National Inventory Report.</p>	<b>Germany</b>
<b>National GHG inventories</b>	<p>2. What are the challenges for Chile in developing and reporting a consistent time series up to 1990 and what experiences can Chile share on how they have been overcome?</p>	<p>The reporting process has many challenges, mostly because every source and sink is different in terms of data collection. In general terms, techniques such as extrapolation, overlapping and proxies are used when data is not available. Additionally, recalculations are carried out whenever a better methodology or parameter is used. This increases significantly the amount of work needed but its worth it. It is very useful to have the timeseries because it help us understand better the history of our emissions and what triggers the main changes in them.</p>	<b>Germany</b>

Category	Question	Answer	From
<b>National GHG inventories</b>	<p>3. "Chile reports for most GHG inventory categories applying tier 1 methods. Tier 2 methods were used for some categories, e.g. for non-CO2 GHG emissions from transport, CH4 emissions from enteric fermentation for cattle, and some LULUCF subcategories, such as CO2 emissions from living biomass for forest land. During the technical analysis, Chile clarified that determining country-specific EFs for key categories, especially in the energy sector, may require additional capacity-building. Could Chile provide more information on what challenges and constraints it is experiencing to apply tier 2 methods to other key categories in the GHG inventory, especially those in the energy (and IPPU) sector(s)?"</p>	<p>Currently we are undertaking studies to apply <b>tier 2 in 2.F, 5A, 5D, all of them key categories. Additionally we are planning to determine country specific EFs for the energy sector starting with some fuels during 2020.</b> The main challenge is to have information for the whole timeseries.</p>	Germany
<b>Mitigation actions and their effects</b>	<p>4. Chile frames its national mitigation planning and actions in the context of its voluntary goal to reduce emissions by 20 per cent by 2020 below the 'business as usual' scenario projected from the 2007 level of emissions. In tracking progress towards achieving its 2020 goal, Chile reports a GHG Balance 1990- 2016 compared to BAU 2007-2020 revised, and 20 % progressive deviation respect to the BAU. Can Chile share its experiences and challenges reporting on the implementation and achievement of its 2020 goal?</p>	<p>The 2020 voluntary commitment led to the development of various mitigation actions in the country, such as NAMAs, whose main objective is to reduce GHG emissions. In addition, it has triggered the identification of sectoral actions that, despite not having as main objective the reduction of GHG emissions, contribute to the mentioned goal. Regarding the challenges, the Ministry of Environment is looking for different ways to strengthen the capacity to quantify the real and expected GHG impact of mitigation actions within the different sectors. <b>So far, the most relevant progress has been the development of the Chilean Climate Change Law (draft), where certain sectoral responsibilities are expected to be define, including the reporting of emissions and reductions.</b></p>	Germany

Category	Question	Answer	From
<b>Mitigation actions and their effects</b>	<p>5. Chile reports in its 3BUR that the energy sector is the main GHG emitter in the country, representing 78.0 % of total emissions in 2016. Accordingly, 31 mitigation actions, tackling emissions from this sector, are being implemented and reported in the BUR, mainly in the areas of renewable energy and energy efficiency. Estimated emissions reduction outcomes as well as the emission reductions achieved so far are given for some measures.</p> <p>Can Chile provide more information on the impact of these measures in the development of its GHG emissions in the energy sector? What are the challenges Chile is experiencing to measure progress and providing GHG emissions reduction estimates in the implementation of these measures?</p>	<p>The Ministry of Energy (MEN), in coordination with the Ministry of Environment, is implementing a Measurement Reporting and Verification (MRV) platform for the mitigation actions implemented in the energy sector. Currently, the ministry is developing quantification methodologies that will allow us to measure the climate impact of our policies and projects. The platform is expected to be launched during 2020.</p> <p>The main challenge is collecting the data needed to measure the GHG reduction in order to have a robust number to present in our reports, and also the capacity building in all the sectorial divisions of the MEN. The Climate Change Unit of the MEN is working on an internal MRV technical group to train potential MRV platform users.</p>	Germany
<b>Mitigation actions and their effects</b>	<p>6. "In its BUR3, Chile describes a national energy policy, with a medium-term goal for 60 percent of the country's electricity generation to come from renewable energy sources by 2035. Can Chile elaborate on the steps it is taking to achieve this goal, as well as clarify the specific renewable sources it expects to install?"</p>	<p>Chile has established a coal phase out by the year 2040 and is currently working on a Flexibility Strategy that will allow greater integration of renewable generation, as well as a new power auction system. The electric transmission system also plays an important role, enabling renewable sources set in different parts of the country.</p> <p>As for the specific technologies, preliminary analysis indicate that coal phase out along with the projected electricity demand will lead to an increase in renewable participation (mainly solar and wind), as well as natural gas and energy storage in its different technologies (batteries , hydro pumping, compressed air, salts, etc).</p>	New Zealand

Category	Question	Answer	From
<b>National GHG inventories</b>	<p>7. "Could Chile share its data collection regulations and processes to collect and track activity data for the IPPU category of "product uses as substitutes for ozone depleting substances", including how Chile had uncovered a change in activity data that led to recalculations for this category (Section 8.3)?"</p>	<p>The climate change office (in charge of the elaboration of the BUR and the NGHGI) has been working together with the office in charge of the Montreal Protocol and with Customs. Many studies have been carried out, in the context of the Kigali amendment, to describe and quantify the HFCs market. A study was done to analyze the information of imports and exports reported to Custom with the information of the main users and equipment fabricators. This study, ended in the first trimester of 2018, was the basis to the NGHGI. This new information suppose a change in the previous information, including data from 1999 to 2016. The data implied a increase of the bank, and also bank emissions, changing the trend of IPPU emissions.</p>	Singapore
<b>National GHG inventories</b>	<p>8. Does Chile have any plans to improve the completeness of its GHG inventory through the acquisition of national activity data that were identified as missing sources in its previous NIR e.g. to enable estimates of PFCs in its future GHG inventories?</p>	<p>Yes, in the past the country has agreed that our NE categories are not significant GHG sources, so they have not been a priority in the previous NGHGIs. However, after three (3) voluntary reviews the country is checking for new data sources to improve the completeness of its inventory. This process has already started, with the commitment of submitting the 4th BUR in December of the next year (2020), were some sources in IPPU are also being checked.</p>	European Union

Category	Question	Answer	From
<b>Mitigation actions and their effects</b>	<p><b>9.</b> Chile indicated during its 2019 BUR review that it expected to achieve greater completeness in terms of quantifying the impact of its mitigation measures (and transparently outlining its methods and assumptions) as a result of its new accounting rules and centralized MRV platform development.</p> <p>Can Chile provide an update on its implementation of the national MRV system, and how this is enabling them to provide the greater detail of information for future reporting on climate actions and expected GHG savings?</p>	<p>As pointed out during the technical analysis of the Third BUR, the reason for not having a quantification of the impact for each mitigation action is because many of them are already contained within larger policies or programs, such as the Energy Sector Mitigation Plan, where it is possible to find much of the information on assumptions and methodological considerations for the estimations. By evaluating only broader packages of actions, double counting is avoided, and the effort its more efficient. In addition, in 2020 the design and implementation of a platform for monitoring and reporting mitigation actions will start. This platform, will pursue to maintain permanent communication and systematization of mitigation actions such as sectoral policies, but all also information on issues related to climate change, generated by various public institutions, private, academia, etc., with differentiated privileges for institutional use and citizenship. This work will be supported by the CBIT-Chile project.</p>	European Union
<b>General</b>	<p><b>10.</b> What measures are being undertaken to reduce emissions from the AFOLU sector?</p>	<p>Currently, Chile is developing sectorial mitigation actions for the AFOLU sector, which contribute to the mitigation of GHG emissions and promote carbon sequestration. A key instrument for this goal is the National Strategy for Climate Change and Vegetation Resources (ENCCRV), which aims to reduce the social, environmental and economic vulnerability generated by climate change, in order to increase ecosystems' resilience and contribute to mitigate climate change, promoting emissions reduction and increased capture of greenhouse gas in Chile.</p> <p>To meet this goal, 26 measures were established with operational goals, considering seven activities associated to the prioritized causes, and a crosswise activity to all causes, which respond to various areas of application. For this, there are two types of measures, the ones that directly impact mitigation actions in the territory and those that support and/or facilitate the implementation of the first ones.</p>	European Union

Category	Question	Answer	From
<p><b>Constraints and gaps, and related financial, technical and capacity building needs, including support needed and received</b></p>	<p><b>11.</b> "The TTE, in consultation with Chile, identified twelve capacity-building needs (TASR.3/CHIL paragraph 96).          Could Chile elaborate on its plan to enhance and formalize working relationships with private companies to ensure continuous and automated data collection for the GHG inventory(paragraph 96(a))?          Could Chile share its experiences with internalizing the knowledge by building the capacity of all relevant ministries and institutions to provide the information needed for the BUR (paragraph 96(d))?"</p>	<p>1. The country is currently working in two agreements. One with a company that has confidentiality issues but is willing to give us information with a confidentiality agreement. <b>The second is a workplan with the RETC (registry of emissions and transferences of pollutants), an office of the Ministry of the Environment, which can make private companies to report emissions and are currently working in including GHGs for some sources.</b> RETC still needs to improve some quality control issues, but in the future will be a reliable, automated and continuous source of data.</p> <p>2- The Ministry of the Environment created the Climate Change Interministerial Technical Committee (ETICC, in spanish), which is conformed by 30 institutions of the public sector, related to climate change. The main objective is to participate in the elaboration, implementation and monitoring of climate change policies and plans, coordinated by the Ministry of Environment. The ETICC has been the workspace to train officials of public sector institutions that must present background information for the development of the BUR. Through formal meetings, they have been trained on how to deliver information, complementing it with specific guidelines and instructions, within the framework of data collection for the BUR. The creation of the ETICC has allowed the continuity of the work carried out with the representatives of each institution, improving the coordination at the intersectoral level and allowing the capacities to be installed in the different ministries and institutions that comprise it.</p>	<p>European Union</p>

Category	Question	Answer	From
<b>National GHG inventories</b>	<p>12. Canada commends Chile for voluntarily using the 2006 IPCC Guidelines. Can Chile share how their key categories have been taken into account as part of their inventory improvement planning?</p>	<p>Chile has not made explicit the link between our key categories and our improvement plan, however, when the system prioritizes actions of improvement, these key categories are considered, both at the national and sectoral level. <b>It is important to highlight that even though the National inventory system started in 2012, there is not a regular budget to improve the inventory itself.</b> This happens in all the ministries and institutions involved in the inventory process. In 2018, for the first time the system received a national budget and it is being used to improve the waste sector data. Given the lack of a regular budget it's difficult to elaborate a formal and robust improvement plan. In order to overcome this issue, the System will be formally established in the Climate Change Law of Chile. This will allow the system to ask for a budget for improvement.</p>	Canada

Category	Question	Answer	From
<b>Mitigation actions and their effects</b>	<p><b>13.</b> Chile's BUR indicates that it has completed the first two years of its implementation of "green taxes" emission levies for large energy producers, including an emission levy for CO2 (BUR p. 156). Are there lessons learned that Chile can share with other Parties, including issues related to monitoring, reporting, and verification of CO2 emissions from large energy producers? Does Chile have any current information about the impact of the CO2 emission levy in reducing CO2 emissions in the electricity sector? Has Chile applied the proceeds received from the CO2 emission levy to emission reduction projects, or used it for other purposes? Feel free to address your presentation as appropriate.</p>	<p>1. There are many lessons to be shared, mainly due to the nature of the national levy. Unlike other countries in the region, and a few others at the global level, Chile established that the taxable event are the emissions of CO2. Therefore, the MRV system is much more complex, since it requires multiple quantification methodologies, ranging from estimation (for less significant sources), through discrete monitoring requirements and, in the case of higher demands, continuous monitoring through CEMS systems. The implementation of the green tax has generated an institutional expertise that puts Chile in the regional vanguard, facilitating the transition to more complex carbon price instruments (complementary to the carbon tax) such as offsets systems and carbon markets (ETS)</p> <p>2. Regarding the impact of the tax in CO2 emission reductions, the relationship is not direct due to the composition of the electricity generation market. However, an indirect relationship can be established with regards to the influence of the carbon tax on investment decisions and expectations in the sector. In this sense, the decision on the process of voluntary decarbonization of the sector is one of the main examples.</p> <p>3. It is not possible. Constitutionally, it is established the "non-affectation" of tax collection. Therefore, all tax collections are included in a common income fund of the state, which finances its operation according to the budget approved the previous year."</p>	United States



Category	Question	Answer	From
<b>Mitigation actions and their effects</b>	<p><b>14.</b> "Congrats on your 3rd BUR submission! The BUR describes Chile's current Nationally Determined Contribution (NDC) to reduce its CO2 emissions intensity per unit of gross domestic product (GDP) by 30 percent below 2007 levels by 2030 (BUR p. 102). The description in the BUR indicates that the NDC target is predicated at least in part on "considering a future economic growth which allows [Chile] to implement adequate measures to reach this commitment." Can Chile clarify the meaning of this consideration or explain how this qualitative metric will be addressed? Alternatively, has Chile identified quantitative metrics of economic growth to address this consideration? For example, is this level of adequate economic growth tied to a level commensurate with that during the base period for the target (2007)?"</p>	<p>The current commitment assumes a growth rate for the economy similar to the growth path the country has experienced in the last decade, except for the most critical years of the international financial crisis (2008-2009).</p>	<p>United States</p>



**Thanks!**

