

GREEN GROWTH POLICY

CONPES DOCUMENT 3934 OF 2018 EXECUTIVE SUMMARY



El futuro es de todos

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PREFACE

To contribute to the release of the CONPES Document 3934 "Green Growth Policy", the National Planning Department (DNP, for its acronym in Spanish) publishes this executive summary that presents a comprehensive look at the objectives, scope and the main strategies and actions of such policy, approved in July 2018. This document is the result of multiple technical studies, analysis and expert recommendations, performed under the Green Growth Mission lead by the DNP between 2016 and 2018.

The purpose of the Green Growth Policy is to drive a national climate-compatible increase in productivity and economic competitiveness by 2030, while assuring the sustainable use of the natural wealth and social inclusion. In this way, its strategies, actions and goals, are attuned to the "Pacto por la Sostenibilidad" (Sustainability Pact) contained in the National Development Plan (2018-2022) called "Pacto por Colombia, pacto por la equidad" (Pact for Colombia, pact for equality) that seeks to consolidate actions to achieve an equilibrium between conservation and production in such a way that the natural wealth is assumed as a strategic asset of the nation.

This policy document recognizes the importance of securing the commitment of production activities with sustainability, for the purpose of improving efficiency in the use of water, land, raw materials and power, therefore reducing environmental impacts and advancing towards mitigation of climate change. In the same manner, it supports the development of instruments to promote new economic opportunities based on richness of the natural capital that increases competitiveness and economic growth at a local and national level. These steps drive the movement towards the first premise of "produce by preserving and preserve by producing" set forth by the National Development Plan (PND, for its acronym in Spanish) and compliance with the Sustainable Development Goals.

Ensuring that national growth walks down a sustainable road, strategic courses of action have been prioritized which are in alignment with converting and developing efficient production processes in terms of resource use and low carbon yield. This approach therefore fosters a circular economy and promotes eco-consciousness among the sectors of agriculture, housing industry, non-conventional renewable energies and electric mobility transportation. The development of a forest economy based on the sustainable management of forests and forest plantations is also positioned in the action plan; the push to support a bioeconomy using knowledge on biodiversity, bioprospection and biotechnology; and the consolidation of green businesses for the generation of local economies.

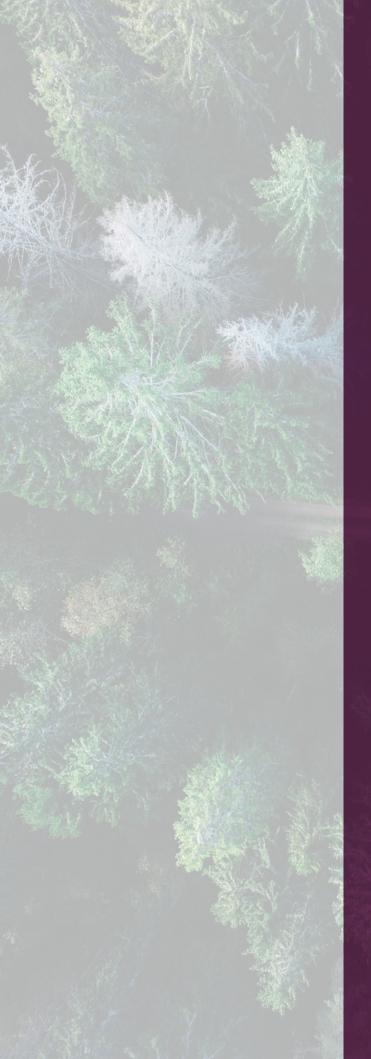
The previous to be leveraged by the development of science, technology and innovation, strengthening of human capital, consolidation of financial instruments, generation of information and the implementation of inter-sectorial coordination mechanisms at a national and regional level.

Through this publication, the idea is also to come closer to all civil society stakeholders to encourage their participation in the implementation of green growth under the frame of a true Pact for Sustainability. This is how this document shall reach the private sector to improve the environmental performance of production activities; academia, in order to forward research and development of new knowledge needed to transition towards this sustainability model; the public sector, to develop instruments and mechanisms necessary to implement the policy; regional entities, to promote articulation of these guidelines within the regional planning instruments; and civil society organizations and the citizens in general, to promote change in the direction of sustainable consumption.

We firmly believe that the implementation of **this policy will make easier the transit of our country towards a more productive, diversified and equitable economy,** that assures sustainability and natural resources for our future generations, adapted forn with the National Development Plan and the priorities of the National Government.



Gloria Amparo Alonso Másmela Director National Planning Department





INTRODUCTION



Green Growth Policy Conpes Document 3934 Executive Summary

Colombia has performed well at a regional level in terms of economic growth. Regardless, it has characterized itself for its low economic diversification, a low productivity in resource utilization and significant environmental impact associated with degradation and depletion of natural resources¹.

Although the country possesses a robust political framework to address the challenges associated to sustainable development, it has not been able to efficiently integrate environmental sustainability aspects within sectorial policies and economic growth strategies. In addition, a road map had not been previously been defined to guide the long term and the transition process towards an economic model based on green growth.

Given the above the Green Growth Policy was drafted and approved on 10 July 2018 through CONPES document 3934.

The national economy had an average growth of 4.26 % between 2000 and Petrol and coal represented 50 % 2015 (National Planning Department of exportations between 2002 and or DNP for its acronym in Spanish, 2015 (DNP and GGGI, 2017) Fedesarrollo, GGGI and UNEP. 2017) CONPES 3934 defines that "green The costs of environmental degragrowth refers to those growth trajecdation and social impacts related to tories that ensure economic and social economic growth, have been valued well-being of the population in the long at 2.08 % of the Gross Domestic term, assuring conservation of the nat-

ural capital and climate security"

Product (GDP) of 2015 (DNP, 2018)

^{1.} This document consolidates, in a summarized manner, the main commitments that resulted from the Green Growth Policy drafting process. It does not intend to be a comprehensive document and, for this reason, if the reader requires further information, please refer to the complete document including its annexes published on the National Planning Department website: https://www.dnp.gov.co/CONPES/documentos-conpes/ Paginas/documentos-conpes.aspx



OBJECTIVE OF THE GREEN GROWTH POLICY Stimulate an **increase in productivity and economic competitiveness** by 2030; while assuring sustainable use of natural capital and social inclusion in a manner compatible with climate change. For the aim of guiding the national economy along a path of green growth, the Policy sets forth 5 strategic pillars (see Figure 1) with 155 actions to be implemented within a 13year horizon (2018–2030), with the participation of 27 national bodies. The Green Growth Policy is composed of five main strategic pillars that correspond to five specific objectives.

Figure 1 - Strategic Pillars of the Green Growth Policy



Generate conditions that promote new economic opportunities based on the wealth of natural capital.

Strengthen mechanisms and instruments to optimize the use of natural resources and energy in production and consumption.





Develop guidelines to build human capital required for green growth.





Strengthen capabilities in Science, Technology and Innovation (STI) for green growth.





Improve inter-institutional coordination, information management and financing to implement a long term Green Growth Policy.



The Green Growth Policy was designed considering its synergy with international instruments such as:

- >> Agreement on Biological Diversity (1994).
- >> OECD Green Growth Strategy (2011).
- >> Paris Agreement on Climate Change (2015).

- >> OECD Declaration on Green Growth (2009).
- >> Rio + 20 Declaration (2012).
- >> Declaration towards a Green Growth platform by the Pacific Alliance (2016).

Green growth has a direct effect by fulfilling 9 Sustainable Development Goals and an indirect effect on 7 of them. It also promotes efforts associated to ensure that the commitments under the Paris Agreement are met.

Green Growth Impact on Sustainable Development Objectives (SDO).

Figure 2 - Relationship of SDO to green growth

Direct impacts

Indirect impacts







Objective:

Generate conditions that promote new economic opportunities based on the wealth of natural capital

3.1.1 Strategy: Drive bioeconomy as a strategic sector for the national economy

Despite its great biodiversity, bioeconomy has not enjoyed a main role in the economic development of the country as there are no figures abut its contribution to the GDP or employment generation. Additionally, there is much unknown about species characterization, few bio-prospection processes and bio-innovative companies to seize the country's potential.

Considering this, the Policy prioritizes 4 causes for low performance in bioeconomy and establishes 5 courses of strategic action with 24 specific actions to develop by 2030. The main actions included in the Policy are included in Table 1.



In Colombia, **305** companies have strengthened their efforts towards developing bio-innovative products; which is only **0.5%** of companies with bioeconomic potential (Biointropic, 2018).





The country has 84 registered bioproducts and 429 verified green businesses (MinAmbiente, 2018).

21 BIO Expeditions have been conducted with the aim of strengthening the country's knowledge on biodiversity. (COLCIENCIAS, 2018).



Table 1 - Main Actions to Drive Bioeconomy





3.1.2 Strategy: Promote forestry sector development

Colombia has about 24.8 million hectares suitable for commercial forestry use and a wide potential for harnessing non-timber products thanks to the diversity of forests and ecosystems. However, the absence of an effective policy for the development of the forest sector, the weakness in managing the required information, the difficulties to attract investment, the scarce assistance for producers and the low levels of research, among others, limit its contribution to the GDP.

To promote forest development in the country by 2030, the Policy prioritizes 4 causes for its low development and presents 4 strategic courses of action with 21 specific actions. Table 2 presents the main actions established by the Policy. Although, by **2015 21.7%** of the national territory was suitable for forestry, only **1.8%** (450,000 hectares) had commercial forestry plantations (UPRA, 2018).





In **2007** it is estimated that the use of non-timber products could add up to **3.2** million dollars with at least **1,500** species (ONF Andina, 2018).

Despite being a country rich in forests, the national economic contribution by the forestry sector remains low. In Colombia, the forestry sector only contributed 0.79% to the GDP for 2017 (DANE, 2018).



Develop the National Forestry Inventory.



15 NDP - National Department of Planning



PROBLEM CAUSE





MAIN POLICY COMMITMENTS

9

Formulate a comprehensive financing strategy for forest management.

Difficulties in price formation, meaning that many products are over-priced in comparison to other countries, in addition to the absense of incentives needed to drive sector growth.

Establish economic and financial instruments to support forestry sector development.



Create specific financing instruments for small and medium enterprises in forestry clusters.



Reform the forestry incentive certificate (CIF for its acronym in Spanish) by means of an administrative act, in order to improve the allocation criteria and the technical support capacity.

Shortcomings in the forestry extension service and there are no systematic R+D processes that allow the development of adequate local technological models.

Promote research, innovation, education and training in the forestry sector.



Develop a program to strengthen the technical capacities of agricultural extension agents, applied to the potential forestry clusters.



Incorporate support actions for the Agriculture and Livestock Extension Subsystem for agroforestry, aimed at improving the capacities, tools and instruments required for the agricultural and livestock extension service.



Incorporate green growth criteria into the dynamic agricultural research agenda.

3.1.3 Strategy: Promote conditions that allow a greater penetration of renewable energy

There is great interest from the Colombian public and private sector, in structuring projects with non-conventional renewable power sources ("FNCER", for its acronym in Spanish) owing to the vulnerability of hydropower generation on account of extreme weather phenomena, the growth in power demand that is expected to be around 51.2% by 2030 (DNP, 2017) and the decreasing trend in power generation costs using FNCER in recent years. Although the country has been structuring policy guidelines focused on harnessing the potential of FNCER, there has been no significant development of these.

With the purpose of generating conditions that allow for a greater penetration of renewable energies grid, the Policy prioritizes 3 causes that have made this process cumbersome and sets forth 3 strategic courses of action with 8 specific actions. Table 3 presents the main actions established by the Policy.



Despite the high potential of non-conventional renewable resources in the country, the non-conventional renewable power sources (FNCER, for its acronym in Spanish) only represent **2%** of the grid (PARATEC, 2018).

Wind power only represents **0.1%** of the Colombian electricity grid, while in Mexico, Peru and Chile it amounts to **1.3%**, **1.7%** and **4.5%**

respectively. (OLADE, 2017).

2. Law 1715 of 2014 "Hereby regulating the integration of non-conventional energies to the national power system" states that biomass, small hydro-electric harnessing, wind energy, geo-thermal, solar and seas are considered as "FNCER".

Table 3 - Main Actions to Promote Renewable Energy



3.1.4 Strategy: Promote Green and Sustainable Businesses ("NVS", for its acronym in Spanish) as a profitable business model in the country

Colombia has the potential to develop and consolidate NVS, ranging from those that require greater technological advancement to those where knowledge transfer has a more significant role. Regardless, according to the Green Business National Plan (MADS, 2014), NVS have been limited by: (i) poorly developed local markets for these products and services; (ii) little knowledge transfer regarding NVS; (iii) low capacities for project formulation and management along with low association between NVS and scarce financing; and (iv) low institutional organization and articulation for the promotion of NVS.

In this regard, the Green Growth Policy seeks to provide continuity and solidify the Green Business National Plan led by the Ministry of Environment and Sustainable Development, through a strategic course of action with 4 specific actions summarized here in Table 4.

The country is currently at the beginnings of developing green and sustainable businesses ('NVS'). Some **800** green enterprises have been identified between **2014 and 2016** within the framework of the Regional Green Business Programs ("PRNV", for its acronym in Spanish) (MADS, 2018).

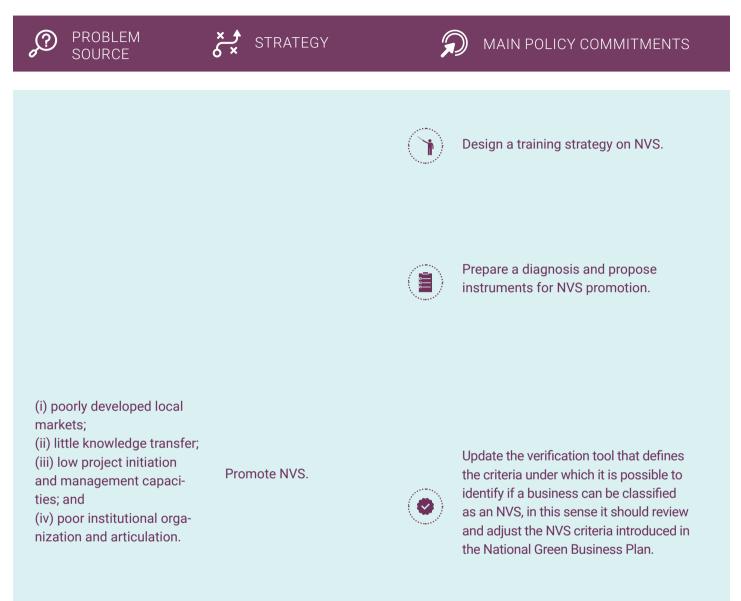




In 2016 only 8%

of companies under the category of sustainable eco-products received consultancy and 0% under the Carbon market category (MADS,2016).

Table 4 - Main Actions to Position NVS





Promote the formation of 12,630 verified NVS, which will be accompanied by the verification tool and supported by an improvement plan by means of technical assistance.



Objective: Strengthen mechanisms and instruments in order to optimize the use of natural resources and energy in production and consumption

3.2.1 Strategy: Implement guidelines that enable performance improvements in the agricultural sector

According to the Food and Agriculture Organization of the United Nations (FAO), the growth in global food demand and its market can be economic growth drivers for the country. However, Colombia presents lower yields in various agricultural products compared to similar countries, resulting in a low efficiency in land use. This low efficiency is caused among others things, by the excessive use of chemical inputs to fertilize or protect crops and by giving uses to land, different to its purposeful one, all of which have a high impact on ecosystems and their related services.

In Colombia, it is expected that the agricultural sector grows in average **2.5%** per year in the next fifteen years, and that the amount of hectares down increase in **43.8%** in comparison to year **2015** (DNR, 2017).





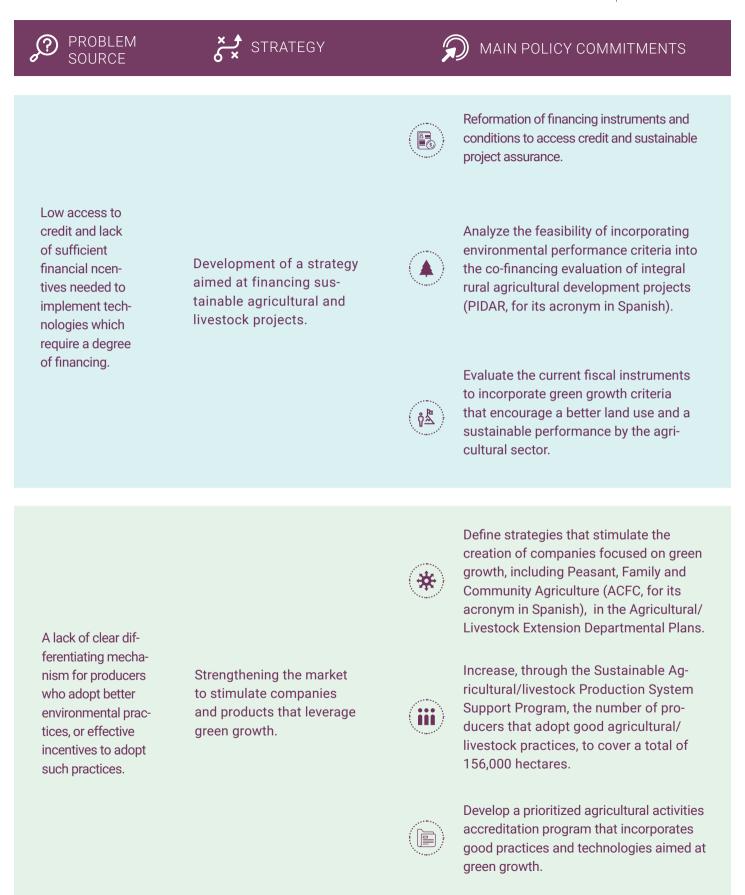
Low productivity in land use and poor environmental performance of the agricultural/ livestock sector.



During year **2013**, Colombia produced **33,200** dollars per km2 of arable land, equivalent to **19%** of the productivity of the countries' land belonging to the OECD (DNP, Fedesarrollo, GGGI y PNUMA, 2017). Focusing on improving land-use productivity, therefore having a knock-on effect on the agricultural and livestock sector performance, the Green Growth Policy prioritizes 3 causes for low performance and establishes 4 courses of action with 14 specific commitments. Table 5 introduces the main actions presented in the Policy.







3.2.2 Strategy: Improve water use efficiency

Low water productivity in the country leads us to conclude that despite an abundance of water resources, this does not necessarily equate to a good use under its economic production capacity. In addition, high levels of contamination are present in Colombian water resources.

Causes for Colombia's low performance regarding efficiency in water use and wastewater treatment are very varied and in many cases correspond to sectorial factors. With the purpose of promoting improvements regarding water productivity, the Green Growth Policy prioritizes 5 causes of low performance and establishes 7 courses of action with 15 specific actions. Table 6 sets out the main actions outlined in the Policy. Colombia produces **18.9** dollars per m3 of extracted water, while, on average, the upper middle income countries produce **27** dollars per m3 (DNP, Fedesarrollo, GGGI y PNUMA, 2017).





Water availability per person in Colombia has decreased by about **31%** between **1992-2014** (World Bank, 2018).

Inefficient use of water resources and low gray water and rainwater reuse levels.

It is expected that by **2030**, water consumption by economic sectors will increase by at least **64.5%** (DNP, 2017).



Table 6 - Main Actions to Improve Water Use Efficiency





3.2.3 Strategy: Promote conditions that lead to the adoption of technologies for the efficient management of energy and sustainable mobility

Although Colombia has a lower energy intensity than other reference countries, there are sectors which have a significantly greater energy intensity. Those sectors with higher consumption, like transport, industry, and residential sectors, have substantial opportunities for improvement through technological advances.

The Green Growth Policy prioritizes 3 causes that contribute to the low transition towards technologies which improve national energy efficiency and establishes 3 strategic lines with 18 specific actions. Table 7 portrays the main actions developed in the Policy. The average power intensity in Colombia is **2.4 MJ** per dollar (DNP, Fedesarrollo, GGGI and UNEP, 2017).





The manufacturing industry presents a energy intensity of **15 MJ** per dollar while the transport sector has **11 MJ** per dollar (Enersinc, 2018).



An electric bus increases travel distances by **85%** using a unit equivalent to a barrel of oil, compared to a diesel bus (Enersinc, 2018).

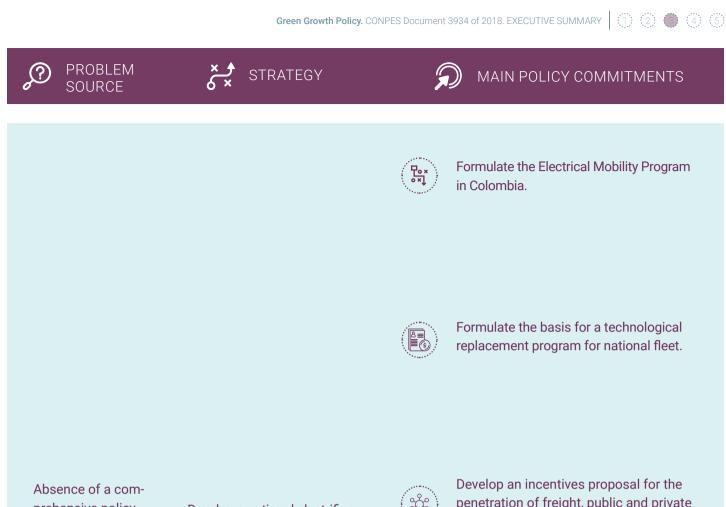


sumption and opportunities to introduce

efficient technologies.

Table 7 - Main Actions to Promote Power Efficiency and Sustainable Mobility





prehensive policy promoting the electrifying of the transport sector.

Develop a national electrification program for transport.



penetration of freight, public and private passenger electric vehicles.

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Develop a strategic proposal for the shift to electric taxi cabs.



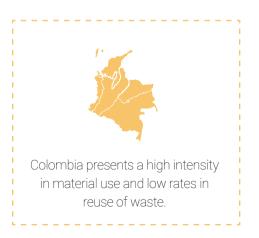
Accompany the evaluation process for alternatives aimed at the integration of electric vehicles to the Integrated Mass Transport System (SITM, for its acronym in Spanish) and the Strategic Public Transportation Systems (SETP, for its acronym in Spanish).

3.2.4 Strategy: Define the road map for the transition towards a circular economy

Despite having a Sustainable Production and Consumption Policy along with the CONPES document 3874 of 2016; National Policy for the Comprehensive Management of Solid Waste, the domestic demand for materials in the country has grown rapidly while material return and recovery from post-consumption into the manufacturing processes is insufficient.

The Policy prioritizes 4 barriers for the transition towards a circular economy and establishes 4 lines of strategic action with 9 specific actions. Table 8 outlines the main actions established by the Policy. In **2012**, Colombia used **2.28 kg** of materials to generate 1 dollar of GDP. This is **2.8** times higher than the OECD average (DNP, UNEP, GGGI, 2017).







The country has recycling rates of 2% for construction materials and 20% for plastic, compared to international potential recycling rates of 50% and 40%, respectively (Tecnalia, 2017).

Table 8 – Main Actions to Promote the Transition to a Circular Economy





Objective: Developing guidelines to build the human capital needed for Green Growth

A transition towards green growth implies profound changes in the labor market, that have the potential to generate new job opportunities and new requirements in the productive sector concerning human capital competences. Not complying with these training expectations may deeply affect the transition process towards green growth.

The Policy prioritizes two causes for gaps in human capital management for green growth, and establishes two strategic courses of action with 5 specific actions. Table 9 presents the main actions established in this document.



For every million dollars invested in clean energy **37** jobs were created in Brazil, **10** in Germany, **100** in Indonesia, **70** in South Africa and **15** in the Republic of Korea (GGGLY UNIDO, 2015).



Human capital scarcity is one of the main limitations in the sophistication and diversification process towards green growth (Hausmann R., 2006) (Rodrik,2004).

Table 9- Main Actions to Build Human Capital for Green Growth





Objective: Strengthen science, technology and innovation (STI) capacities for Green Growth

STI allows the application of knowledge and technology to create new innovative business models, generating great value for all markets, making it an essential basis for the transition towards a green growth approach. However, the current status of STI at a domestic level does not meet the needs to establish such foundations.

The Green Growth Policy identifies 2 causes for weakness, and establishes 2 lines of strategic action with 10 specific actions. The main actions established in the Policy are portrayed in Table 10. The average investment in STI activities over the last **10 years** is just 0.55% of the GDP (OCyT, 2017).





In OECD countries, **70%** of investment in research and development is performed by companies. In Colombia, the major investment is carried out by the public sector (Alarcón, 2016).

The number of patents requested per 1 million of inhabitants in OECD reference countries is around **6,331.1** compared to **38.7** in Colombia (World Bank, 2018).





Table 10 - Main Actions to Strengthen STI Capacities



Little research from the entreprenurial side of the private sector.

Promote the development of innovative enterprises related to green growth.



Associate green growth criteria in the integral departmental/state agendas under the framework for the implementation of the National Productive Development Policy.



Objective: Improve inter-institutional coordination, information management and financing to implement a long term Green Growth Policy

To achieve a transition in the domestic economy towards green growth requires overcoming barriers associated to the inexistence of an institutional architecture that guarantees the implementation of such Policy and establishes a high-level leadership to provide strategic guidance to the parties involved. Likewise, it must overcome the weakness and disarticulation in information management required for decision-making and other weaknesses regarding green growth financing.

With the purpose of overcoming these barriers, the Green Growth Policy establishes 4 lines of strategic actions with 15 specific actions. Table 11 introduces the main actions set forth in the Policy.

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framework, weak information management and insufficient financing to implement Green Growth strategies.

Table 11 - Main Actions to Ensure Implementation of the Green Growth Policy

PROBLEM SOURCE	STRATEGY	MAIN POLICY COMMITMENTS
Inexistence of an institutional	Strengthen interinstitu- tional coordination.	Generate a proposal for the incorporation and articulation of the topics pertaining productivity and competitiveness of this Policy within the National Competitiveness, Science, Technology and Innovation System.
architecture that ensures the implementation of the Green Growth Policy and an as- socuiated leader- ship role.	Strengthen national and regional capacities.	Image: Second



STRATEGY



MAIN POLICY COMMITMENTS



Create a WEB platform, with information modules on the topics prioritized by this Policy.



Consolidate the environmental satellite account focused on establishing relationships between economy and environment in order to generate and measure short and medium term indicators.



Draft the methodological proposal for measuring the composite indicator for adjusted net savings, under the context of the environmental satellite account.



Implement the Environmental Planning and Management Information System for Regional Environmental Agencies (CARs).



Update the policy guidelines for environmental information and the Data and Information Management Protocol, as part of the Environmental Information System for Colombia (SIAC, for its acronym in Spanish).



Propose developing an assessment process to implement Green Growth Policy into the DNP's assessment agenda.



Strengthen capacities in Finagro and Findeter, to promote development, financing and investment for green projects to leverage private capital.



Make the finance tools available to the entrepreneurial sector for facilitating green growth investments through Bancoldex credit lines that allow for financing such iniciatives.



Strengthen the capacities of the "Financiera de Desarrollo Nacional" (National Development Financer) to promote green growth investments by the private sector into areas of great market break-through.



Strengthen, in the framework of the Finance Management Committee of SISCLIMA, coordination and collaboration among the national development banking sector for the mobilization of green financing.

Weaknesses and lack of articulation in information management required for decision making.

Develop an information management strategy for green growth.

Strengthen finances for

green growth.

Weaknesses

growth financing.

in green



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Green Growth Indicators

This Policy document resulted in a dashboard of 12 indicators whose main objective is to capture and analyze economic advancement in the transition towards green growth. Table 12 details a summary of the selected indicators.

Additionally, the Policy identifies the need to implement other indicators in the mid-term, that are an essential part of the dashboard in order to measure the transition towards green growth. Its design shall be led by the DANE along with relevant sectors.

Green growth indicators to be implemented in the mid-term are:



Tabla 12 - Indicators to Monitor Policy Implementation

OBJECTIVE	NAME OF INDICATOR	UNIT OF MEASURE	BASE LINE	2030 GOAL
Generate conditions that promote new economic opportunities based on the wealth of natural capital resour- ces.	Participation of forest economy in GDP.	Percentage	0.79 (2017)	1.5
	Annual national forest loss.	Hectares	276,669 (Average 2000 - 2012) ^(a)	0
	Number of bioproducts.	Number of regis- tered bioproducts	84 (2018)	500
	Verified Green Business.	Verified Green Business	90 (2015)	12.630
Strengthen mechanisms and instruments to optimize the use of natural resour- ces and energy in production and cosumption.	Water productivity.	Pesos of added value per m3 of extratcted water (\$/m3)	3,334 (2015)	4,440
	Participation of agri- cultural production that complies with green growth criteria. ^(b)	Percentage	0.49 (2016)	10
	Energy Intensity. (Power)	Terajoule per thou- sand million pesos of 2005 (TJ/\$)	3.7 (2015)	2.9
	Number of electric vehicles.	Number of vehicles.	1,695 (2016)	600,000
	Recycling rate and new use of solid waste.	Percentage	8.6 (2015)	17.9
	Percentage of solid was- te effectively used.	Percentage	17 (2015)	30
	Reduction of total emissions of greenhou- se gases related to the 2030 projection.	Percentage	0 (2010)	20
Strengthen Ca- pacities in STI for Green Growth.	Public investment in R&D of importance for green growth related to the total public expenditure	Percentage	0.02 (2016)	0.08

Note (a) For the baseline, the annual average for loss of natural forest was taken (2000-2012), for the continental and insular surface. (b) This is an indicator built based on good environmental practices criteria defined in the Domestic Agricultural and Livestock Survey, whose base line and goal may be reviewed and adjusted based on the available information of other criteria or methodological adjustments.



FINANCING



The Green Growth Policy defines a total of 155 specific actions to execute between 2018 and 2030. From these, 120 actions indicate an estimated figure of about 2.3 trillion COP of financing required, intended for the **five objectives defined in the Policy** that are displayed in **Table 13**.

Table 13 – Indicators to Monitor Green Growth Policy Implementation

POLICY OBJECTIVE	REQUIRED FINANCING (MILLIONS OF PESOS)
Generate conditions that promote new economic opportunities based on the richness of natural capital.	1,943,668
Strengthen mechanisms and instru- ments to optimize the use of natural resources and energy in production and cosumption.	363,230
Develop guidelines to build hu- man capital for green growth.	16,851
Foster capacities in STI for green growth.	11,843
Improve interinstitutional coordination, information management and financing to implement the Green Growth Policy in the long term.	16,130
TOTAL	2,351,722

