

FIRST BIENNIAL UPDATE REPORT COLOMBIA

TO THE UNITED NATIONS FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC)





MINTRANSPORTE



MINAMBIENTE

MINAGRICULTURA



MINMINAS

MINCOMERCIO
INDUSTRIA Y TURISMO



MINVIVIENDA



DANE
Para tomar decisiones



50
AÑOS

El servicio de las personas y las Naciones



Viglado
Superservicios



DNP
Departamento
Nacional
de Planeación



FEDEARROZ
ASOCIACIÓN NACIONAL DE AGRICULTORES



Unidad de Planeación
Rural-Agropecuaria

CORPORACIONES
AUTÓNOMAS
REGIONALES



fedepalma



ipcc
INSTRUMENTO MUNDIAL PARA EL CLIMATE CHANGE



uaesp
Unidad Administrativa Especial
de Servicios Públicos



UNIVERSIDAD
NACIONAL
DE COLOMBIA



Concreto
Están
Ascendo



UNIVERO
UNIVERSIDAD NACIONAL DE INGENIERÍA



UNODC
Oficina de las Naciones Unidas
contra la Droga y el Delito



porkcolombia



EMPAS
Empresas Públicas de Medellín



ISAGEN
ENERGÍA REGULATORIA



epm



Colorado
State



Fundación
Natura



Gobernación del
esar
Escuela del Estado - UPEL



EMCALI



ACUVALLE



USAID
DEL PUEBLO DE LOS ESTADOS
UNIDOS DE AMÉRICA



Filial de isa



acueducto

Colombia

TOTAL AREA **2.070.408 km²**

POPULATION ESTIMATES (2014)

47.661.787



76,3% Urban

23,7% Rural area



60.012.529

NATURAL FORESTS (2012)

17.268.227,29 ha

(59 areas) NATURAL NATIONAL PARKS



166.070 ha/year
DEFORESTATION
(2010-2012)

40,3 people per sq. km

POPULATION DENSITY (2011)



BIODIVERSITY



FAUNA

395

Threatened

35.476

Species



FLORA

1.178

Threatened

27.881

Species

LITERACY RATE

91,6%

UNSATISFIED BASIC NEEDS INDEX (2005)

27,78%

HUMAN DEVELOPMENT
INDEX (2014)

0.711

CROPS (2013)
4.309.916 ha
Harvested area



26.584.615 ton
Crops production



CATTLE (2013)
24.169.212
heads



LIFE EXPECTANCY 2010-2015
75,2 years

Colombia

STRATEGIC ECOSYSTEMS



2.906.137 ha
Páramos



45,3 km²
Glaciers



31.702
Wetlands inventoried



720.000 ha
Dry forests



368.066

**ANNUAL OIL
PRODUCTION (2013)**



62.196,60 GWh

**ELECTRICITY
GENERATION (2013)**



GDP (2014)

at constant 2005 prices



**Total
USD 222.607**

4,6

**GDP growth
(2014)**



**Per capita
USD 4.671**



\$201,5 billion COP
**GROSS PRODUCTION OF
MANUFACTURING SECTOR (2013)**

**ECONOMICALLY
ACTIVE
POPULATION**

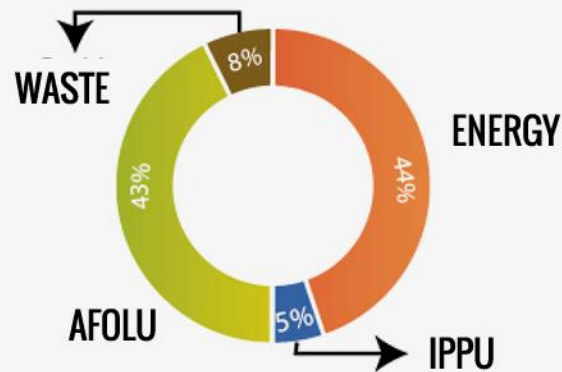
64,2%



GENERAL RESULTS GHG INVENTORY 2012

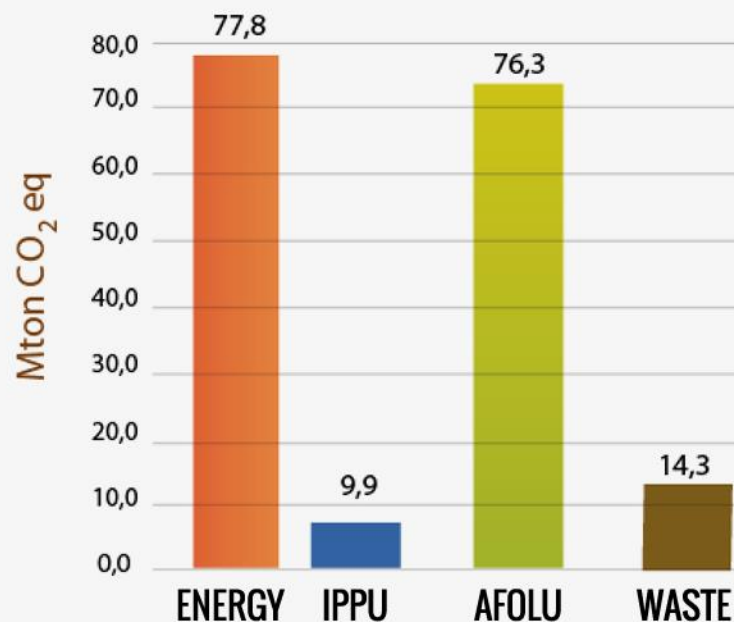
% PARTICIPATION OF EACH MODULE

TOTAL EMISSIONS:
178,3 Mton CO₂eq








GENERAL RESULTS GHG INVENTORY 2012

TOTAL EMISSIONS PER MODULE:

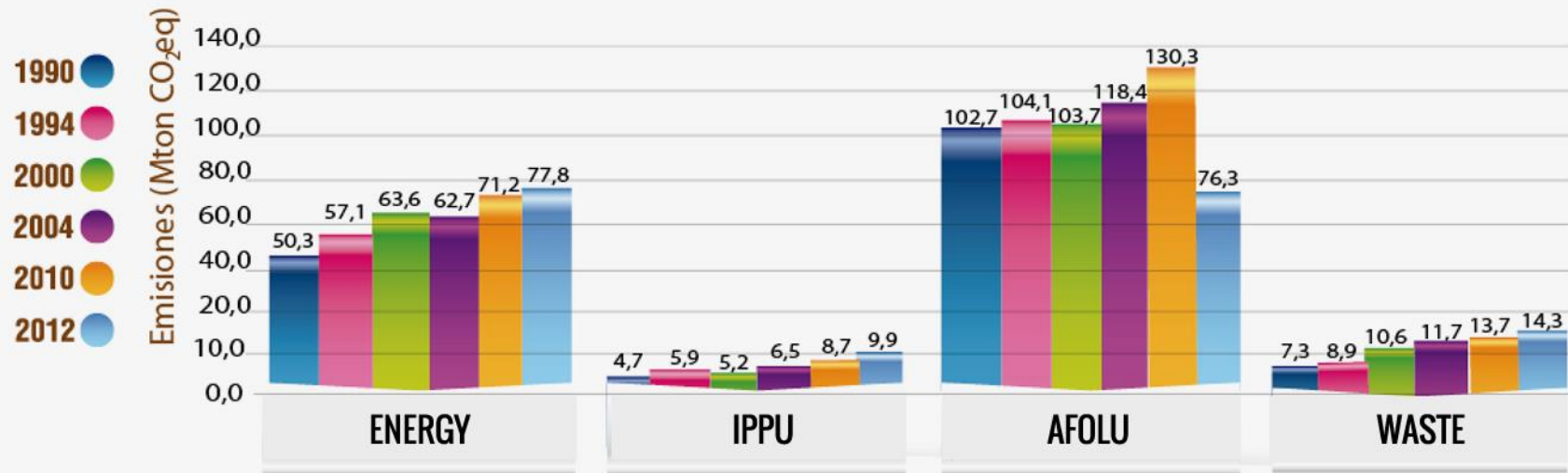


% GHG PARTICIPATION ON EACH MODULE

	ENERGY	IPPU	AFOLU	WASTE
 CO ₂	86,1%	84,6%	47,9%	1,7%
 CH ₄	12,3%	0,1%	30,1%	94,0%
 N ₂ O	1,6%	5,1%	22,0%	4,3%
 HFC _s	-	9,0%	-	-
 SF ₆	-	1,2%	-	-

GENERAL RESULTS GHG INVENTORY 2012

HISTORICAL EVOLUTION OF GHG EMISSIONS PER MODULE



Mitigation **Actions**

Colombian Low Carbon Development Strategy



Increasing carbon efficiency of economic activities of the country.

IMPLEMENTED ACTIONS

12 NAMA

Nationally Appropriate Mitigation Actions

-  Reducing GHG emissions
-  Generation of social, environmental And Economic benefits in sectors and communities

7

 in formulation process

5

 advanced in formulation and initial stage of implementation

8 PAS

Sectoral Action Plans



Electricity



Waste



Mining



Housing



Oil & Gas



Industry



Agriculture



Transport

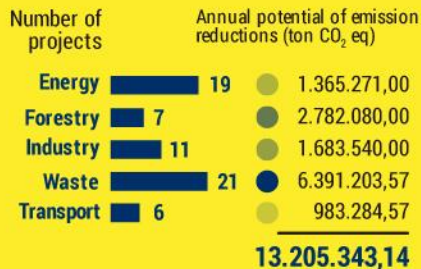
PARTICIPATION OF COLOMBIA IN CARBON MARKETS

Number of projects in Clean Development Mechanism (CDM): 198

Projects registered and with Certified Emission Reduction (CER) issued by the CDM Executive Board:

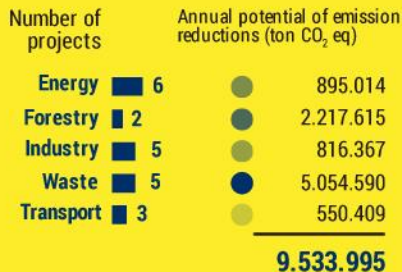
64

Registered projects



21

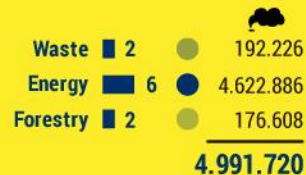
CER projects
Number of projects



Number of projects in Voluntary Markets

10

Registered projects with VCS



2

registered projects with GS



 = Annual potential of emission reductions (ton CO₂ eq)

National REDD+ strategy

Reducing impacts from deforestation and forest degradation.



SOME IMPLEMENTED ACTIONS

Design and implementation of a national system for monitoring and reporting forest cover, deforestation and Forest cover and deforestation.

Creation of structures and institutional arrangements to generate clear guidelines for implementing REDD+ Activities.

Advances in components of the Measurement, Reporting and Verification System (MRV).

NATIONAL GREENHOUSE GAS INVENTORY

As part of the Third National Communication on Climate Change (TNCCC), Colombia is designing a national system a national system to standardize and sustain the periodic reporting of GHG inventories. It is expected to complete the design in:

2017



LOCAL AND REGIONAL GHG INVENTORIES

Some regions and cities with GHG inventories:

- Huila
- Manizales
- Bogotá - Cundinamarca
- Montería
- Barranquilla

32 Departments

WITH GHG INVENTORIES 2010-2012
WILL BE INCLUDED IN THE TNCCC

National Registry of Emissions Reductions

The Registry is under construction and will include information on:

- NAMAs
- CDM Projects
- REDD+ Projects and Programs
- Low Carbon Development Projects

Support Received

Participation and amounts of financial resources and cooperation activities to address climate change

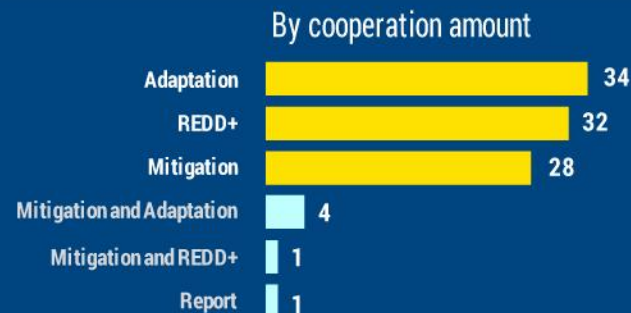
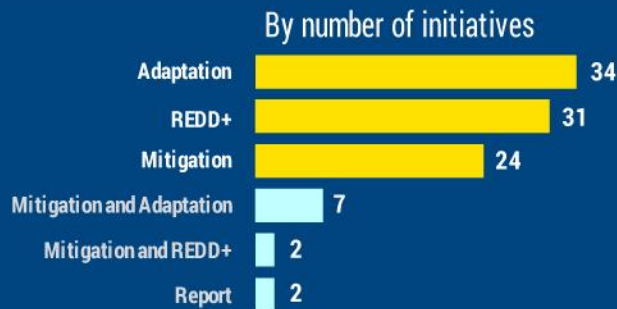
DISTRIBUTION OF AMOUNT BY THEME (%)

137 current initiatives
↓
USD 300.000.000
approximately



Some sources of international cooperation are:

USA, GERMANY,
CANADA, KOREA,
EU, ADAPTATION FUND, GEF, WB



DISTRIBUTION OF AMOUNT BY TYPE OF COOPERATION (%)



Some Needs

For different areas of action against climate change in the country, financial resources and international support are required, as well as some of the following issues:



Reports



Biennial Update Report (BUR)

Effective knowledge transfer to guarantee reporting sustainability



National Communications (NC)

Strengthening regional analysis of Vulnerability and Adaptation.



NATIONAL GHG INVENTORY

IMPLEMENTING A NATIONAL GHG INVENTORY SYSTEM



MITIGATION

ASSISTANCE FOR DESIGNING AND IMPLEMENTING NAMAs



ADAPTATION

IMPLEMENTING CLIMATE CHANGE ADAPTATION PLANS AND STRENGTHENING LOCAL CAPACITIES

Implementing REDD+: key initiatives

National REDD+ Strategy: results-based payments

Colombia's Low Carbon Development Strategy

Public-private
partnerships

Regulation & Law
enforcement

Economic and financial
instruments

Planning instruments

*Key
Implementation
vehicles*

**Amazon
Vision:** REM
Programme (up to
USD 100M), GEF 5,
GEF 6

**BioCarbon Fund
Actions
targeting
Orinoquia
region**

**DOI– National level
(Norway, Germany
and the UK)
Up to USD 200M**

Implementing REDD+: key milestones under the UNFCCC

Establish
Forest
Monitoring
System



Finalize
design and
implemen-
tation of
ENREDD+



Develop a
system to
provide
information
on how
safeguards are
being
addressed and
respected



Submit
reference
level and
undergo
technical
assessment



Generate
emissions
reductions
and include
results in
Biennial
Update
Reports to the
Convention



Results to
undergo ICA
process



Obtain
results-
based
finance
(Green
Climate
Fund and
others)

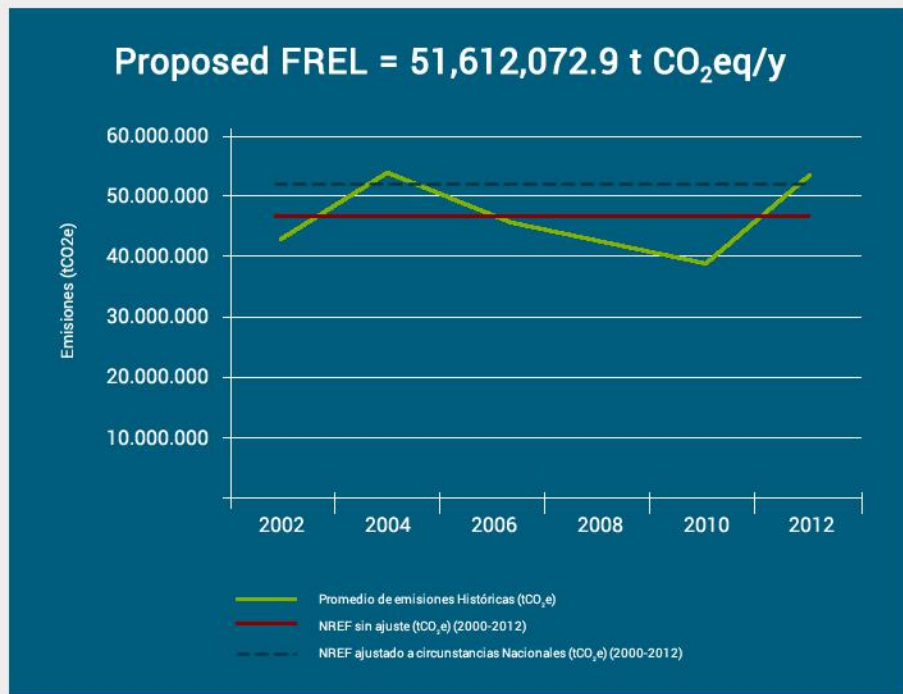


Completed



Ongoing, with significant
progress

Assessed FREL for the Colombian Amazon Biome: **key features**



FREL “in overall accordance with the guidelines for submissions of information on FRELs (...) calculated in a manner consistent with the methods described” .

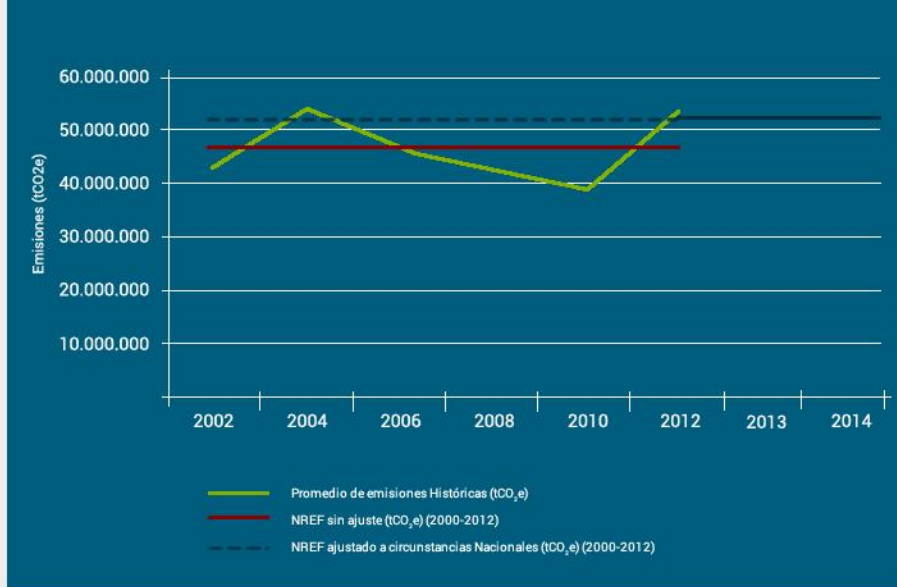
- **Activities:** reducing emissions from gross deforestation.
- **Area:** 458,961 km² (53% of total continental, 63% of total national forest cover).
- **Pools:** above and below ground biomass.
Not included: debris, soil, dead wood.
- **Gases:** CO₂
- Based on historical average on historical emissions from 2000 to 2012, projection covers 2013 – 2017.
- **Emission factor** uses data from 721 plots (1990 – 2014) in the Colombian amazon tropical moist forest.

National circumstances related to postconflict reflected as a 10% upward adjustment of average deforestation.

Consistent with step-wise approach: most important activity, biome and pools included.

REDD+ Results for the Colombian Amazon Biome: **key features**

Proposed FREL = 51,612,072.9 t CO₂e/y



Technical report on the technical analysis of the technical annex to the first biennial update report of Colombia submitted in accordance with decision 14/CP.19, paragraph 7.

Emissions Reduction 2013 = FREL (t CO₂e/y) – ER 2013

Emissions Reduction 2014 = FREL (t CO₂e/y) – ER 2014

- **Activities:** same as FREL (Gross deforestation).
- **Area:** Same as FREL (Colombian Amazon Biome).
- **Pools:** Same as FREL (AGB and BGB).
- **Gases:** Same as FREL (CO₂).
- Calculated annual emissions for the period 2013-2014.
- **Emission factor:** uses the same data from plots in the Colombian Amazon Tropical Moist Forest.
- **National circumstances:** applies the same as FREL.
- **Consistent with step-wise approach:** most important activity, biome and pools included.

MRV roles and tasks in the context of the FREL and results

Colombia's MRV System

