



Libertad y Orden

**Ministerio de Ambiente
y Desarrollo Sostenible**



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República de Colombia



DIRECCIÓN DE CAMBIO CLIMÁTICO





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para todos

COLOMBIAN LOW CARBON DEVELOPMENT STRATEGY CLCDS AND COLOMBIAN NAMAS

Ministry of Environment and Sustainable Development
Climate Change Division



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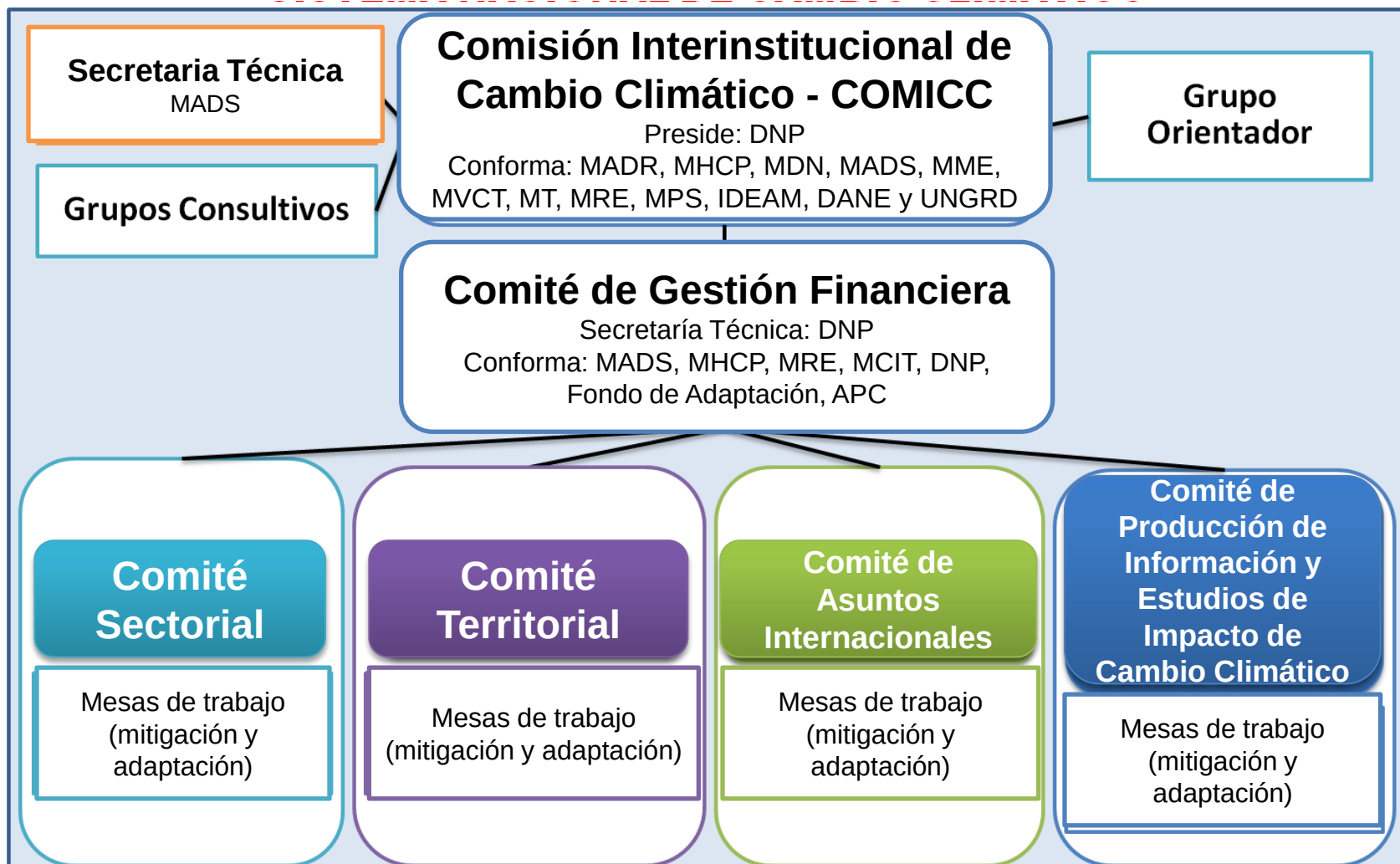
NATIONAL INSTITUTIONAL ARRANGEMENTS



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Financial Management Committee

1. Assess the financial feasibility and financing options for projects and programs for mitigation, adaptation, and research on climate change, presented by sectors, territories or agents project developers seeking funding and have been prioritized by the Committees.
2. Inform regularly to the Technical Secretariat of the COMICC all projects submitted for funding.
3. Support the achievement of financial sources for projects and climate change programs.
4. Manage budget resources to finance national policies, programs that contribute to adaptation or mitigation of climate change at the national or territorial level.



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Members of Financial Management Committee

- 1. The Ministry of Environment and Sustainable Development.
- 2. The Ministry of Foreign Affairs.
- 3. The Ministry of Finance and Public Credit.
- 4. The Ministry of Commerce, Industry and Tourism
- 5. The National Planning Department.
- 6. The Adaptation Fund Management team.
- 7. The Technical Secretaries of the Standing Committees and ad hoc Committees
- 8. The Presidential Agency for International Cooperation of Colombia.



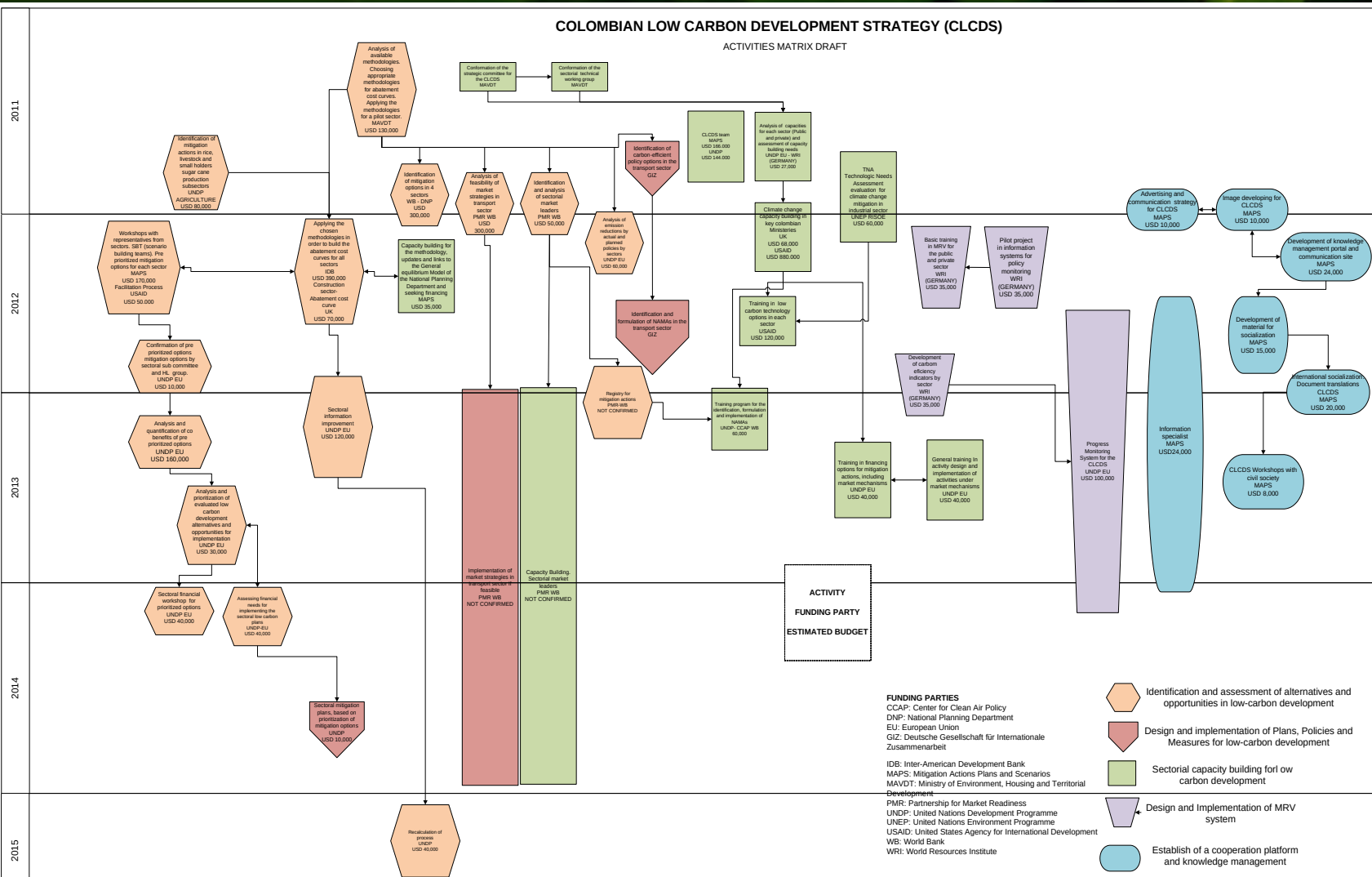
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COLOMBIAN LOW CARBON DEVELOPMENT STRATEGY (CLCDS)

ACTIVITIES MATRIX DRAFT





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CLCDS AND NAMAS



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Why CLCDS?

- CLCDS will take advantage of international finance and TT, and incentives that promote low carbon development.
- A low carbon development path favors sustainable development through social, economic and environmental co-benefits
- Promote TT and best practices
- Prepare our economy for a future carbon conscious global economy
- Involve government and main stakeholders in a long-term planning process to envision the future development of the country

Be part of the solution before we become part of the problem

Structure of the CLCDS

COMPONENT 1: Identification and assessment of alternatives and opportunities in low carbon development

- Diagnosis and methodology adaptation for the identification of alternatives and opportunities in mitigation
- Sectoral reference emissions scenarios for sectors involving current & expected emissions and technologies.
- Research on economical, social and environmental impacts of the selected mitigation alternatives and their viability.

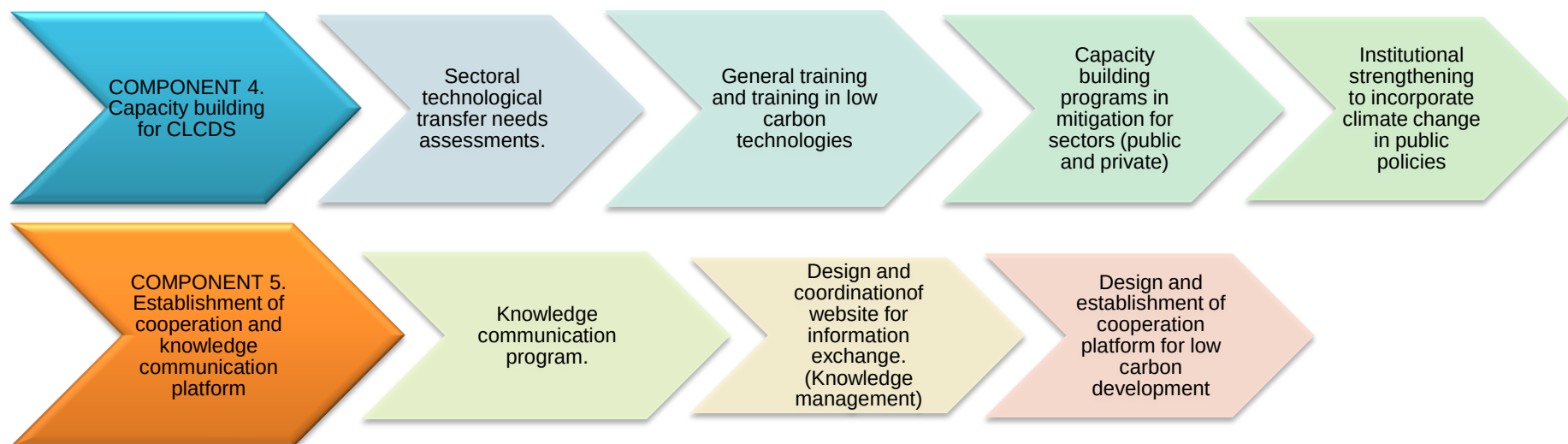
COMPONENT 2: Design and implementation of Plans, Policies and Measurements in low carbon development

- Sectoral action plans.
- Design of policies and measures.
- Formulation of NAMAs, programs and mitigation projects by different public and private actors

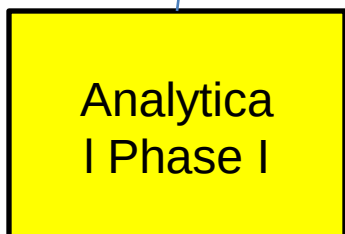
COMPONENT 3: Design and construction of MRV System

- Design and institutional arrangements for MRV system
- Establishment of methodologies and monitoring standards
- Undertaking of criteria, procedures and formats for emissions report and verification, and complementary information
- Design and implementation of computing platform for MRV system.

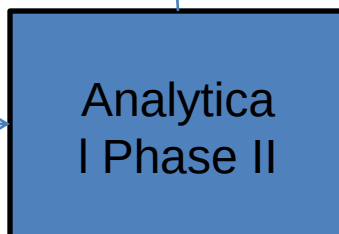
Structure of the CLCDS



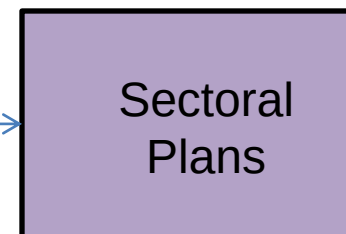
- Scenarios
 - Abatement
- Cost
Curves



- Co benefits
- GEM by
NPD



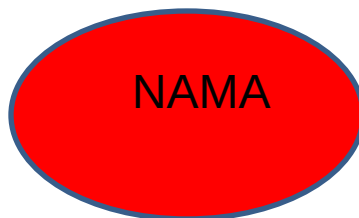
**BIG
RESULT**



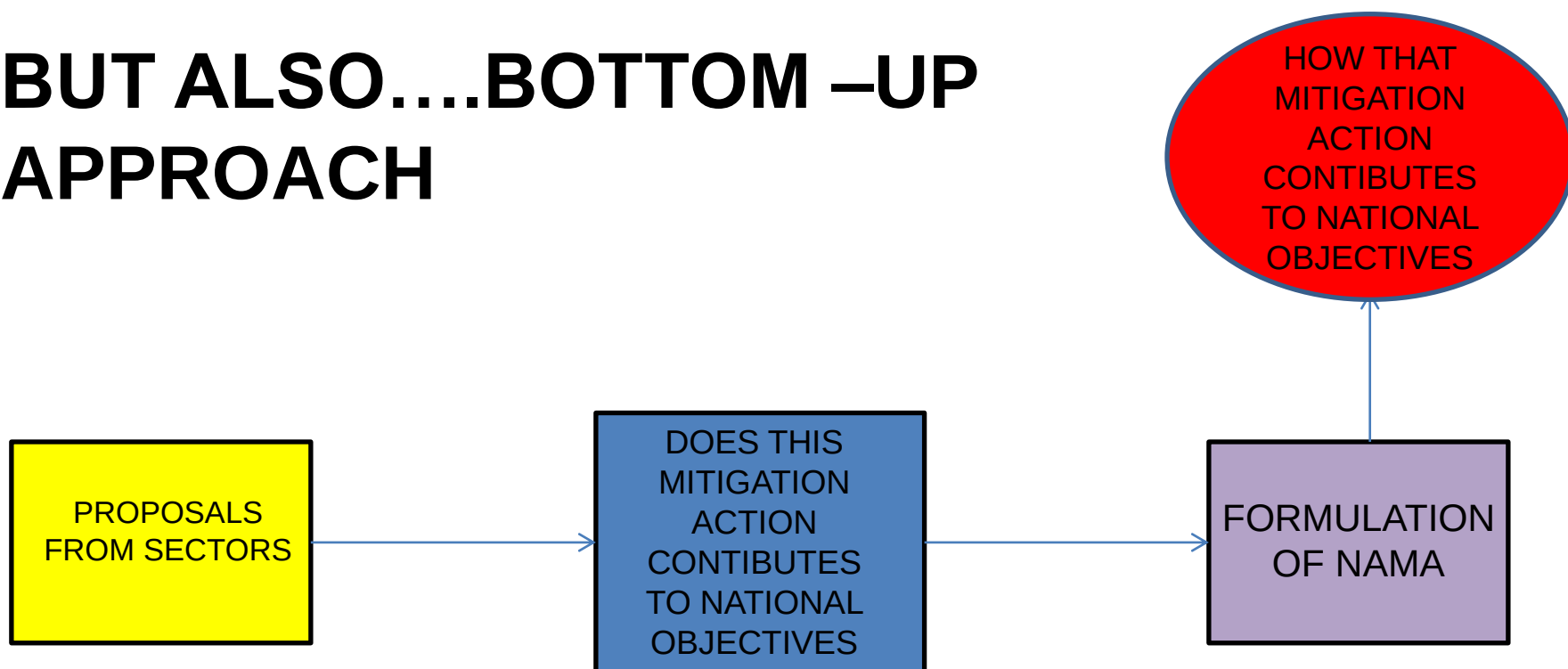
**NAMAS AND LCDS
TOP –DOWN
APPROACH**

Plans and
Projects

Policies



BUT ALSO....BOTTOM –UP APPROACH





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PROJECT NAME

BRIEF OUTLINE

STATUS

LOCAL PARTNERS INVOLVED

INTERNATIONAL PARTNERS INVOLVED

Transport

Freight Fleet Renovation

Regulatory and economic instruments to renovate the freight vehicle fleet, rationalize supply of vehicles, mitigate negative impacts on CO2 and increase sector competitiveness

In formulation, preliminary modeling developed.

Ministry of Transport

GIZ (German International Cooperation)

Electric Vehicles

Introduction of electric vehicles for private and public transport in Colombia. Pilot project for Bogotá.

Preliminary abatement cost calculated (WB) Baseline in calculation (by private sector)

CODENSA
EPM (local energy companies)
Ministry of Transport
DNP

WB (World Bank)

Transit-Oriented Development

Integrate climate change mitigation variables into local land use plans (POTs) and urban planning in Colombia.

In formulation

Ministry of Transport,
Ministry of Housing



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Industry

Substitution of boilers and furnaces in the industry sector	Implementation of energy efficiency measures and substitution of boilers and furnaces in the industry sector	In formulation (GEF PIF)	Environmental Corporation of Chamber of Commerce of Bogota	GEF (but only for the central region)
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Energy

Geothermal	explore the geothermal field, build and operate the first Colombian geothermal power plant, with an estimated capacity of 50 MW and potential generation of 394GWh.	In formulation	ISAGEN, MINISTRY OF ENVIRONMENT, MINISTRY OF MINES AND ENERGY	JAPANESE Government
Replacement of refrigerators in households and businesses	Replacement and scrapping of old energy intensive refrigerators for households and businesses in Colombia.	In formulation	ENERGY AND MINING PLANNING DEPARTMENT , ANDI, COMPANIES	Looking for finance

Waste Management

Capture and use of biogas from Waste Water Treatment Plans	Include capture and energy generation systems from biogas in Waste Water Treatment Plans.	Pre-identified	KFW and CAF
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Recycling Program

• Mechanical and biological facilities. Production of fuels from waste, recyclable materials and compost. • Integrating tariff reform into the waste NAMA evaluation • Potentially implementing landfill gas to energy on active landfills that currently collect and flare the gas • Separation at the sources of organic and recyclable materials.	In formulation (Selection of pilot cities and feasibility analysis)	Ministry of Environment and Sustainable Development, Ministry of Housing, Cities and Territory, Superintendence of public services	Supported by Environment Canada, facilitated by Center for Clean Air Policy (CCAP)
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Lessons learned so far

- Analyzing emissions and mitigation options by sector enables to create a clearer picture of Colombia's potential and facilitates the formulation of NAMAs.
- Participation of public and private stakeholders in the construction and socialization of mitigation actions gives the LCDS credibility and the support needed for implementation.

Lessons learned so far

- Feasibility studies of mitigation options are vital for the future implementation and interest of the private sector and other stakeholders.
- Mitigation options' feasibility studies must include not only economic aspects, but political, cultural, methodological and other key variables that can in fact determine implementation.



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THANK YOU



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Funds

Colombia has received technical and financial support from 14 different international initiatives and partners

- National funds
- Bilateral funds:
USA (LEDS, Program), Germany (GiZ, WRI), EU-UNDP, UK,
- Multilateral Funds and Foundations:
UNDP (LECBP), UNEP RISOE (TNA) MAPS, CCAP,
Partnership for Market Readiness (WB)
- Multilateral agencies:
IADB, World Bank