15th REDLAC Annual Assembly Innovative funding mechanisms in climate finance

Costa Rica, November 4th 2013

Walter Vergara Chief Climate Change and Sustainability Innovative funding mechanisms in climate finance

- IDBs Climate Change Action Plan
- Increasing resilience to climate impacts
- Reducing the Carbon Footprint in the Region



Action Plan 2012-2015

- Adaptation is priority one given high vulnerability of economies and ecosystems (adaptation Bank)
 - Water supply
 - Agriculture
 - Coastal Areas
 - Ecosystems
- Focused Approach to Mitigation (sectors that account for most of the carbon footprint of the region)
 - Land use change (agriculture and forestry)
 - Power sector
 - Transport sector



Climate Change Fund at IDB (SECCI)

- Fund analytical work to set up foundations for IDB intervention on climate issues
- Provide resources for pre investment stage of IDB interventions
- Finance first of a kind pioneering solutions



Adaptation in high mountain ecosystems in Colombia: First SCCF project by IDB. Approval expected in 2013

Value proposition/transformative opportunity

The natural water regulation function of these ecosystems is expected to be seriously affected by changes in the water cycle.

These ecosystems and wetlands are the main sources of drinking water for the Bogotá metropolitan area and its adjoining rural communities.

Objective

Implementation of adaptation measures addressing the consequences of climate change in the water supply and hydrological regulation functions provided by high mountain wetlands

Revegetation, natural water storage, land use planning

Status

- GEF CEO approval October 2013
- Scheduled for Board presentation in 2013



Financials

Project size	\$23.3 M
SECCI investment	\$0.9M
Climate Funding SCCF	\$4.2M
IDB Finance	\$11.4 M
Others (JAXA, EAAB, CAR)	\$11.0M
Complementary funding	\$54.4M

Adaptation of Biodiversity in Costa Rica

Value proposition/transformative opportunity

- Costa Rica, 1/20 more biodiverse countries in world;
- Ecosystems and biodiversity being afected by changes in climate

Objective

 Develop the National Strategy of Biodiversity Adaptation to Climate Change impacts and update and redesign 2 existing conservation initiatives (GRUAS II, Biological Corridors System)



Financials			
SECCI	US\$ 400,000		
Local	US\$ 108,000		
тот	AL US\$ 508,000		

Status

In execution. To be finalized by December 2013.

The challenge to move to a low carbon economy

- The region has a modest contribution to the current GHG global budget (11% of total, about 5 Gt/year)
- However, to meet global stabilization goals will have to go to 1 Gt/year by 2050 (2 tpc)
- Carbon signal very focused (80% in land use change, power and transport)
- 94% in eight nations



Source: Own elaboration based on WRI-CAIT data

The challenge to move to a low carbon economy



The challenge to move to a low carbon economy

- What needs to be done?
 - Power sector with 90% zero-carbon capacity
 - Stop net deforestation by 2020.
 - No net emissions from land use change by 2030, net accumulation of carbon sinks to 2050, and a 50% cut in agricultural emissions
 - Abate final energy demand by 40%
 - Widespread electrification of the transport sector
 - Tag: US\$110 billion per year



Our Plan of Action: Promote decarbonization of Power Sector

- Support key analytical pieces for policy actions and investment strategies
- Promote removal of policy and regulatory barriers
- Promote large-scale deployment of renewable energy



Large Scale Deployment: Atacama CSP Plant (100MW)– Chile

Value proposition/transformative opportunity

- Promote use of solar energy in the Atacama desert, a region with the highest solar radiation levels in the world
- Entry of Low Carbon Technology would transform power sector in Chile have replication potential in Peru

SECCI leverage 1: 1000

Objective

 Trigger large scale investments in SCP in northern chile, eventually driving the power sector away from fossil fuels

Status

- BID process closed October 22nd
- BID results to be announced November 15th.



Financials				
Project size	100MW			
SECCI investment KfW investment (up to)	\$0.8M \$130 M			
CTF funding	\$70M			
IDB Finance (est)	\$200M			
Other lenders and equity	\$300M			
Projected GHG emission reductions	10 million tCO2e first 10 years			

Incentive package

- Capital grant of up to USD 20M from GoC (Max 50% of total project cost)
- Free lease of fiscal land (specific site); not mandatory to accept
- USD 66M CTF concessional loan through IDB
- Euros 15M grant from EU (LAIF) through CORFO and KfW
- IDB financing (market based) -> may include also
 US\$30M concessional financing from Canada (C2F)
- Euros 100M credit line from KfW, through CORFO and for on-lending to local commercial banks



Our Plan of Action: Promote reductions in emissions from land use change

- Support key analytical pieces for policy actions and investment strategies
- Promote removal of policy and regulatory barriers
- Promote investments in low carbon agriculture and avoided deforestation



Bioclimate Fund in Peru

Value proposition/transformative opportunity

20% of the carbon emissions in Latin America and 56% of the emissions in Peru are linked to land use change (largely deforestation).

The piedmont areas of the eastern ridge of the Andes, in particular in Peru provides the habitat for some of the highest concentration of biodiversity and a high carbon storage in the Planet.

uncontrolled deforestation and development process, may threaten its large biological and climate capital.

Objective

To structure a financial instrument (Bio-climate Fund) that can be used to stop and revert the deforestation and land degradation process in the most vulnerable areas of influence of the IOH

Status

In preparation for delivery by COP 20



Financials			
Project size	200 Million		
SECCI investment	\$2.0M		
Climate Funding	\$100M		
IDB Finance	\$20M		
Others	\$80M		

Above Ground Carbon Stock Estimations





Fig. 2. Variation in aboveground carbon storage at 0.1 ha resolution throughout a 4.3 million ha region of the Peruvian Amazon, derived from an integrated use of CLASIite, LiDAR and field-plot data. Examples of (i) artisanal gold mining, (ii) selective logging and other forest disturbances, and (iii) deforestation for cattle ranching, road building, and other infrastructure are indicated.



According to bio climate criteria different payments would be considered

Selected Sites	Soil conservation	Hydrological stability	Species Diversity	Additional Payment (ie) %
Site 1	1	1	1	60
Site 2	0	1	0	20
Site 3	0	1	1	40



BioClimate Fund: Madre de Dios

Law Enforcement/Forest Governance 20 Mi USD

> Payment for Carbon Stocks Target: 100 Mi USD

Loan: Increase productivity

ARPA for Life

Permanently protect 15% of the Amazon basin



Preserve the ecological function of an area crucial to global biodiversity, water and climate functions



Secure a significant **reduction in deforestation** and related **CO2 emissions**



Help Brazil meet its commitments under the UN's biodiversity and climate treaties

Builds on the Amazon Region Protected Areas (ARPA) program

Protected Areas (PAs) supported



 World's largest land conservation program

 ARPA for Life seeks to lay the foundation for sustainability of these efforts through the set up of a \$215 M transition fund, while permanent funding in Brasil is secured.

SECCI Investment in ARPA for Life

- US\$4.5 M Grant to FUNBIO will support management and initial implementation of US\$200 M fund to support ARPA for Life
 - Critical studies (climate resilience, optimized monitoring)
 - Professional services
 - Monitoring Equipment
 - Training
 - Administration costs



SECCI Fund Investment Grants, 2013

Project	Country/Region	Amount in USD
Marine Energy Pilot Projects in Southern Chile	Chile	2,400,000
Monitoring Climate-induced Changes in Tropical Glaciers	Andean Region	1,500,000
Adaptation to Climate Change on Peru's Coastal Marine Ecosystem and Fisheries	Peru	1,000,000
Pilot: Battery-Electric Buses	Colombia	1,500,000
Adaptation of the Hydrologial Cycle in Cuyo to the Impacts of Climate Change	Argentina	1,500,000
Analysis and Development of Energy Storage Options	Costa Rica	900,000



Zusammenarbeit für die Zukunft wir wollen

Working together for the future we want

Trabalhando juntos pelo futuro que desejamos

Trabajando juntos por el futuro que anhelamos



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