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CDM POTENTIAL PROJECTS

*Laurence Livemore
assessment of Brazil CDM
potential*

ENERGY PROJECTS									
PROJECT	QUALITATIVE INFORMATION							QUANTITATIVE INFORMATION	
	TECHNICAL PERFORMANCE	FINANCIAL VIABILITY	RETURN OF INVESTMENT	SOURCE OF C OFFSET	LOCAL ECONOMIC AND ENVIR. BENEFITS	NATIONAL EC. AND ENV. BENEFITS	RISKS	LEVEL OF EXTERNAL INVEST.	ESTIMATED C OFFSET
SMALL HYDRO IN GOIAS	proved	moderate	moderate	Diesel and fuel oil replacement	air quality improvement better electricity services	federal subsidy reduction	moderate	US\$ 6 million	13,000 tonnes / year
40MW WIND PROJECTS IN NORTHEAST	proved	moderate	good	replacement of N.G.	air quality improvements	C emission reduction	small	US\$ 15 million	U.F. = 30% 22,000 tonnes/year
HYDROELECTRICITY GENERATION FOR THE STATE OF AMAPÁ	proved	good	good	Diesel oil replacement	air quality improvement	C emission reduction	small	US\$ 1,600/kW US\$ 110million	110,000 tonnes /year
WATER CLEANING FOR HYDROELECTRIC FACILITY NEAR SÃO PAULO	requires a demonstration project	good	good	coal and NG replacement	less investment in energy supply air quality improvement	less investment in energy supply less fuel importation	moderate	US\$ 100million	385,000 tonnes / year
VILLAGE ELECTRICITY GENERATION USING PALM OIL	proved	moderate	moderate	Diesel Oil	job creation electricity supply	improvement in life quality	small	US\$ 50,000	88 tonnes / year
LIGHTING FIXTURE RETROFIT	proved	good	good	Coal and N.G. replacement	air quality improvement	less investment in energy supply	small	US\$ 200,000 or US\$ 75,000	1,500 or 750 tonnes / year
TOYOTA HYBRID MOTOR AUTOMOBILE	proved	weak	weak	increased fuel efficiency	air quality improvements	C emission reduction	nihil	US\$ 1,500/car	1 tonnes of C/year per car
CHARCOAL FROM FOREST PLANTATION FOR PIG IRON INDUSTRY	proved	moderate	moderate	displacement of coal reduction of deforestation	job creation avoidance of investments for use of coal	C emission reduction Hard currency savings	nihil	US\$ 17 million in 14 years	930,000 tC
EUCALYPTUS PLANTATION IN SOUTHWEST OF BRAZIL	proved	moderate	good	displacement of fuel oil	job creation	C emission reduction Hard currency savings	nihil	US\$ 120,000 in 2 years	24,000 tC

CDM POTENTIAL PROJECTS

CARBON SEQUESTRATION PROJECTS									
PROJECT	QUALITATIVE INFORMATION							QUANTITATIVE INFORMATION	
	TECHNICAL PERFORMANCE	FINANCIAL VIABILITY	RETURN OF INVESTMENT	SOURCE OF C OFFSET	LOCAL ECONOMIC AND ENVIR. BENEFITS	NATIONAL EC. AND ENV. BENEFITS	RISKS	LEVEL OF EXTERNAL INVEST.	ESTIMATED C OFFSET
OIL PALM PLANTATION IN STATE OF PARÁ	proved	good	good	C sequestration	job creation	reduction on importation	small	US\$ 900/ha 5000ha US\$4.5 million	34 tonnes / ha
RUBBER PLANTATION	proved	good	good	C storage	job creation increase in rural economic activity	C sequestration	nihil	US\$ 3,000/ha 5000 ha US\$ 15 million	100 t of C/ha 500,000 tonnes of C after 10 years and for 50 years
CARBON SEQUESTRATION BY SMALL FARMERS	requires demonstration	moderate	moderate	C storage	regional development	soil protection	medium	US\$ 1.5 million	1,200 tonnes/year
TEAKWOOD PLANTATION IN THE CENTERWEST OF BRAZIL	proved	moderate	good	C storage	job creation regional development	external investments	small	US\$ 60 million	1.17 million tonnes

OTHER PROJECTS									
PROJECT	QUALITATIVE INFORMATION							QUANTITATIVE INFORMATION	
	TECHNICAL PERFORMANCE	FINANCIAL VIABILITY	RETURN OF INVESTMENT	SOURCE OF C OFFSET	LOCAL ECONOMIC AND ENVIR. BENEFITS	NATIONAL EC. AND ENV. BENEFITS	RISKS	LEVEL OF EXTERNAL INVEST.	ESTIMATED C OFFSET
REDUCTION OF CO2 USE IN COCA-COLA PRODUCTION	proved	good	good	switch from CO ₂ to N ₂ gas	none	C emission reduction	nihil	US\$ 1,000,000	1,637 tonnes / year

CLIMATE CHANGE WORKSHOP WITH COLUMBIA DELEGATION

2 June 1999

9:30-12:30

Room 7A-019

**U.S. Department of Energy
1000 Independence Ave, SW
Washington, DC 20585**

CONTACTS

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AGENDA

Welcoming Remarks:

Mark Mazur, Acting Director, Office of Policy
David L. Goldwyn, Counselor to the Secretary
Joseph Aldy, President's Council of Economic Advisors

Issues Related Setting an Emissions Target

- Advantages of Adopting a Target
- Concepts of Growth Target and Additionality
- Process of Selecting a Growth Target
 - Estimating Baseline Scenario
 - Estimating Benefits and Costs of Reductions
 - Identifying Policies to Realize Target
- Data and Modeling Requirements
- Time Frame for Selecting a Targets

Comments by Representatives of Columbia Delegation

Issues Related to CDM Projects

- Status of CDM and Role of Early Start Projects
- Certification, Verification and Crediting
- Securing Partners and Investors and Role of Governments
- Examples of Potential Projects

LIST OF INVITEES

COLUMBIA

Luisa Fernanda Lafaurie, Viceminister of Mines
Giovanna Sardi, Chief Advisor, Minister of Mines and Energy
Thomas Black, Chief Economist, Ministry of Environment
Andrea Alban, Advisor for the Environment, Ministry of Foreign Affairs

UNITED STATES

Joseph Aldy, Senior Economist, President's Council of Economic Advisors
Dan Balzar, Department of State
Ted Craig, Department of State
Kate English, Office of International Affairs, Department of Energy
Mike Fourcher, Office of Policy, Department of Energy
David L. Goldwyn, Counselor to the Secretary, Department of Energy
Steven Lee, Office of Policy, Department of Energy
Jane Leggett, Environmental Protection Agency (invited)
Mark Mazur, Acting Director, Office of Policy, Department of Energy
Adele Morris, Treasury Department
Raymond Prince, Office of Policy, Department of Energy
Phillip Tseng, Office of Policy, Department of Energy
Brooks Yeager, Department of State

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Folder: World Bank Study CO2

From: Adele.Morris@do.treas.gov [Save Address](#) [Block Sender](#)**To:** thblack@hotmail.com**Subject:** developing country forestry models**Date:** Mon, 12 Jul 1999 14:41:44 -0400 (EDT)

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Date: 07/12/1999 02:37 pm (Monday)

From: Adele Morris

To: ex.mail("thblack@hotmail.com")

Subject: developing country forestry models

Hi Thomas,

I emailed a person at the State Department who will have a much better idea than I do about funding sources for forestry models. I'll see what I can find out about where money could come from and get back to you.

Meanwhile, I suggest you contact John Perez-Garcia directly and ask him to help you identify the kind of forestry modeling capacity you need and what resources it would take to construct and maintain it. Then you could draft a proposal you could share with the US govt. and with other possible funders.

When you get a good idea of what sort of project would be the most useful for you, that will help us identify the best funding sources. For example, Colombian experts could collaborate with U.S. experts through a university. John or his colleagues at University of Washington might be interested in a collaboration on the project. Or you might prefer to invite consultants to Colombia to work with your forest service or a local university program. I expect it will be important to document Colombia's existing capacity and what resources you have available to devote to the project.

I think John can be helpful, but there are other forestry experts I can put you in touch with if you would like other viewpoints or different expertise.

You may also wish to talk with your counterparts in other Andean countries and see if they'd like to participate in a joint project to model forests (though of course you ultimately want something that can give you national-level results). I'm just guessing that getting funding will be easier if more countries can benefit from the work.

John's contact info is:

John Perez-Garcia
Associate Professor in Forest Economics
Center for International Trade in Forest Products

Jackson Room - Control

Belize GCC Director
- Carlos Filler

Oak Room
Inter-Continental

CLIMATE CHANGE MEETING BETWEEN COLOMBIA AND UNITED STATES DELEGATIONS

New Orleans

28 July 1999

3:00-6:00

AGENDA

- Welcoming Remarks
 - Review of highlights from previous meeting
 - Activities since the last meeting
 - Macro-economic forecasting capabilities
 - Capacity for identifying Mitigation and/or Sequestration opportunities
 - Export sector assumptions and implications
 - Agricultural and Forestry
 - Primary Energy Production
 - Electricity Generation
 - Industry
 - Buildings
 - Regional Workshop on greenhouse gas emissions reduction opportunities
 - Joint work program for COP-5/COP-6
- COLOMBIA**

Luisa Fernanda Lafaurie, Viceminister of Mines

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Raymond Prince, Office of Policy, Department of Energy

Colombia: GDP growth forecast

1999: -1.5% to 0.5%

2000: 2.6%

2001: 3.5%

2002: 4.2%

2003: 5.1%

2004: 5.1%

source: World Bank and International Monetary Fund

Columbia

45% of exports in coal, oil

OECD
Standard EMF } get papers

energy sector - want to know the advantages
need analytic work to inform sectors

very difficult to do a netl forestry emis baseline

Watershed degradation serious

CDM

eth CDM, refo, conservation - US MC = \$20/t

Columbia - National Strategy Study to Implement CDM

→ CDM unit analysis

institutional analysis - what are necessary Col. inst; design?

evaluate GHG reduction projects (MAC curves)

major fixed sources, mobile sources, commercial
forests, conservation, watershed protection.

Follow-up

forestry - opportunities, inventory, ^{modeling} need strategy for going
energy sector / subsectors forward

integrated modeling (market)

3 flex mech - where can we team up (do before COP5)

indexed target