INTERNATIONAL TROPICAL TIMBER ORGANIZATION

Highlights of the month



RED-PD093/12Rev.3(F)

ADVANCING REDD+ IN GHANA: PREPARATION OF REDD+ PILOT SCHEMES IN OFF-

Approval Level: Project Manager

TitleADVANCING REDD+ IN GHANA: PREPARATION OF REDD+ PILOT SCHEMES IN OFF-RESERVE FORESTS AND AGRO-FORESTS

Serial Number11 Host Government: GH Executing Agency: GHANAIAN NATIONAL REDD+ SECRETARIAT Starting date of the project: 29/03/2013 Project Duration: 12

Version:11.0

Date:04/02/2014

Approval Level: Project Manager

Executing Agency's full name:

GHANAIAN NATIONAL REDD+ SECRETARIAT

Executing Agency's address:

C/O FORESTRY COMMISSION OF GHANA P.O. BOX MB. 434, ACCRA, GHANA

Executing Agency's telephone:

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Information on Collaborating Agency(ies):

SCHOOL OF AGRICULTURE, FOREST AND FOOD SCIENCES (HALF) / BERN UNIVERSITY OF APPLIED SCIENCES

LAENGGASE 85, CH-3052 ZOLLIKOFEN, SWITZERLAND

Technical Staff / Scientific Staff:



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Commencement and/or Completion of major activities:

Activity 3.1 Capacity building for community groups about the potential of forest/tree protection has been carried out.

Planning and preparation for the following activities have also started:

(a) Activity 3.2 Workshops for the sharing of results and conclusions of analytical studies, and

(b) Activity 3.3 Publication of studies results and dissemination through ITTO.

Summarize major progress and achievements:

The draft report for activity 3.1 (capacity building workshop) is prepared and attached.

The aim of the capacity building exercise was to enhance knowledge among various stakeholder groups, especially local communities, so that they are equipped to actively participate in the developments and policy building regarding climate change. The training was conducted at the three project sites at Breman Asikuma, Enchi, and Kintampo. At each site, participants were invited from different communities to attend the day's training workshop. Ninety four (94) participants from ten (10) communities in the three project sites participated in the training programme. The participants were mainly farmers, community opinion leaders, as well as staff of Ministry of Food and Agriculture, Forest Services Division of the Forestry Commission, COCOBOD, and produce buying companies. Scientists from CSIR-FORIG conducted the training using different training methods and techniques, including interactive presentations with illustrations; discussions; brainstorming; and question and answers. Training handouts and other relevant literature were presented to the participants as reference materials. The draft workshop report is attached as Annex E of this report.

Under output 2, the draft reports for activities 2.1 and 2.3 have been reviewed and the final reports are under preparation for validation as Technical reports.

List of products/outputs (reports, publications, maps, guidelines etc.):

Draft Report (2014). Capacity building for community groups about the potential of forest/tree protection. Draft Training Workshop Report. Unpublished. 10pp.

Difficulties/obstacles encountered:

Nothing to report

Follow-up on PSC/PTC recommendations, ITTO monitoring visits:

Nothing to report

		PROJI	ECT FINANCIA	L STATEME	NT			
Project			RED-PD 093/12			Period ending o		
Project		ADVANCING REDD+ IN GHANA: PREPARATION OF	-					
				Modified				
		Component	Original	Approved		Expenditures To-	date	Available
			Amount	Amount	Accrued	Expended	Total	Funds
			(A)	(A)	(B)	(C)	(D)	(E)
					a/		{ B + C }	{ A - D }
l.	<u>Funds</u>							
10.	Projec						\$0.00	\$0.00
	11.	National Experts (long term)	\$13,800.00			\$11,500.00	\$11,500.00	\$2,300.00
		11.1 Project Coordinator	\$1,800.00			\$1,500.00	\$1,500.00	\$300.00
		12.1 5 National Researchers/Experts	\$6,000.00			\$5,000.00	\$5,000.00	\$1,000.00
		13.1 6 Research Assistants	\$5,400.00			\$4,500.00	\$4,500.00	\$900.00
		14.1 Administrative staff	\$600.00			\$500.00	\$500.00	\$100.00
	19.	Component Total:	\$13,800.00			\$11,500.00	\$11,500.00	\$2,300.00
40.	Capita		\$5,000.00			\$5,000.00	\$5,000.00	\$0.00
	41.	Premises (Contribution to secretariat in Forig and	\$5,000.00			\$5,000.00	\$5,000.00	\$0.00
		the FC, Ghana)						

	49.	Component Total:	\$5,000.00		\$5,000.00	\$5,000.00	\$0.00
50.	Consu		\$2,000.00		\$2,000.00	\$2,000.00	\$0.00
	51.	Office supplies, utilities and other supplies	\$2,000.00		\$2,000.00	\$2,000.00	\$0.00
	59.	Component Total:	\$2,000.00		\$2,000.00	\$2,000.00	\$0.00
60.	Miscel		\$5,000.00		\$0.00	\$0.00	\$5,000.00
	61.	Steering committee meeting	\$5,000.00			\$0.00	\$5,000.00
	69.	Component Total:	\$5,000.00		\$0.00	\$0.00	\$5,000.00
70.	Execu	t	\$43,949.00		\$36,624.20	\$36,624.20	\$7,324.80
	71.	Executing Agency Management Costs	\$43,949.00		\$36,624.20	\$36,624.20	\$7,324.80
	79.	Component Total:	\$43,949.00		\$36,624.20	\$36,624.20	\$7,324.80
		Sub Tatalı	¢60,740,00		¢55 124 20	¢55 124 20	¢14 624 80
		Sub-Total:	\$09,749.00		\$55,124.20	\$33,124.20	\$14,024.00
100.		GRAND TOTAL:	\$69,749.00		\$55,124.20	\$55,124.20	\$14,624.80
	-						

	1	PROJECT CASH FLOW	SIAIEMI	=IN I			
Project		RED-PD 093/12 Rev.3 (F)		Period ending or			
Project		ADVANCING REDD+ IN GHANA: PREPARATION OF REDD+					
		Component			Amount		
			Reference	Date	in US\$	Local Currency	
						Gh¢	
А.	Funds						
	-				+17 500 00		
	1.	First instalment		April 13	\$17,500.00	33,687.50	
	2.	Second Instalment		June 13	\$17,500.00	35,857.50	
	3.	I hird instalment		November 13	\$17,500.00	34,982.50	
	4.	Fourth instalment		January '14	\$17,249.00	38,465.27	
		EIC.					
					+ 7	1 40 000 77	
		Total Funds Received:			\$69,749.00	142,992.77	
D	5						
В.	Expen						
10	Ductor						
10.	Project				#11 FOO OO	22 001 15	
		National Experts (long term)			\$11,500.00	23,001.15	
		11.1 Project Coordinator			\$1,500.00	3,000.15	
		12.1 5 National Researchers/Experts			\$5,000.00	10,000.50	
		13.1 6 Research Assistants			\$4,500.00	9,000.45	
	10	14.1 Administrative staff			\$500.00	1,000.05	
	19.	Component Total:			\$11,500.00	23,001.15	
10	<u> </u>	•			+= 000 00	0 707 50	
40.	Capita				\$5,000.00	9,787.50	
	41.	Premises (Contribution to secretariat in Forig and				0 707 50	
		the FC, Ghana)			\$5,000.00	9,787.50	
					1		
	49.	Component Total:			\$5,000.00	9,787.50	
					1		
50.	Consu	1			\$2,000.00	3,850.00	

	51.	Office supplies, utilities and other supplies	\$2,000.00	3,850.00	
	50			2 050 00	
	59.	Component Total:	\$2,000.00	3,850.00	
60.	Miscel		\$0.00	0.00	
	61.	Steering committee meeting			
	69.	Component Total:	\$0.00	0.00	
70.	Execut		\$36,624.20	73,252.06	
	71.	Executing Agency Management Costs	\$36,624.20	73,252.06	
	79.	Component Total:	\$36,624.20	73,252.06	
		Total Expenditures To-date:	\$55,124.20	109,890.71	
		Remaining Balance of Funds (A-B):	\$14,624.80	33,102.06	

PROJECT FINANCIAL STATEMENT

Project			RED-PD 093/12			Period ending o		
Project		ADVANCING REDD+ IN GHANA: PREPARAT						
				Madified				
		Component	Original	Approved		Expanditures To	data	Available
		Component	Original	Approved	A	Expenditures ro-		Available
			Amount	Amount	Accruea	Expended		Funas
			(A)	(A)	(В)	(C)		
					d/		{ B + C }	{ A - D }
1	Funds							
	ranas							
10.	Projec						\$0.00	\$0.00
	11.	National Experts (Researcher)	\$39,200.00			\$26,619.48	\$26,619.48	\$12,580.52
		11.1 Project Coordinator	\$4,200.00			\$3,700.00	\$3,700.00	\$500.00
		11.2 Climate change and REDD experts	\$12,000.00			\$12,000.00	\$12,000.00	\$0.00
		11.3 Inventory and Ecologist Expert	\$7,000.00			\$4,119.48	\$4,119.48	\$2,880.52
		11.4 Forester	\$6,000.00			\$2,000.00	\$2,000.00	\$4,000.00
		11.5 Socio-Economist	\$5,000.00			\$2,000.00	\$2,000.00	\$3,000.00
		11.6 Agroforester	\$5,000.00			\$2,800.00	\$2,800.00	\$2,200.00
	12.	Other Personnel	\$35,280.00			\$17,711.99	\$17,711.99	\$17,568.01
		12.1 Assistant (Climate Change and REDD)	\$6,000.00			\$5,563.47	\$5,563.47	\$436.53
		12.2 Assistant (Inventory and Ecology)	\$2,000.00			\$338.69	\$338.69	\$1,661.31
		12.3 National Research Assistant (MSc)	\$750.00			\$738.28	\$738.28	\$11.72
		12.4 Research Assistant (Forestry)					\$0.00	\$0.00
		12.5 Research Assistant (Socio-economist)	\$3,000.00			\$1,400.00	\$1,400.00	\$1,600.00
		12.6 Research Assistant (Agroforester)	\$3,000.00			\$1,520.29	\$1,520.29	\$1,479.71
		12.7 Research Assistant (coord. of publi.)	\$5,000.00				\$0.00	\$5,000.00
		12.8 Administrative staff	\$1,800.00			\$1,751.26	\$1,751.26	\$48.74
		12.9 National Research Associate	\$5,750.00			\$2,800.00	\$2,800.00	\$2,950.00
		12.91 National Senior Consultant	\$7,000.00			\$3,600.00	\$3,600.00	\$3,400.00
		12.92 Community staff	\$980.00				\$0.00	\$980.00
	13.	International Consultants (HAFL)	\$57,500.00			\$0.00	\$0.00	\$57,500.00
		13.1 Senior Forestry Consultant	\$17,500.00				\$0.00	\$17,500.00
		13.2 Senior Agricultural Consultant	\$7,000.00				\$0.00	\$7,000.00
		13.3 Research Manager, HAFL	\$33,000.00				\$0.00	\$33,000.00
	14.	Fellowships and Training	\$28,200.00			\$0.00	\$0.00	\$28,200.00
		14.1 Training (MSc)	\$28,200.00				\$0.00	\$28,200.00
	15.	Workshops	\$19,900.00			\$6,434.40	\$6,434.40	\$13,465.60
		15.1 Workshops (verification & proj. comp)	\$12,600.00			\$330.94	\$330.94	\$12,269.06

		15.2 Capacity building for community groups	\$6,300.00	\$6,103.46	\$6,103.46	\$196.54
		15.3 Scientific Advisor	\$1,000.00		\$0.00	\$1,000.00
	19.	Component Total:	\$180,080.00	\$50,765.86	\$50,765.86	\$129,314.14
20.	Sub-co		\$0.00	\$0.00	\$0.00	\$0.00
	21.	Sub-contract (Topic e.g. mapping, etc.)			\$0.00	\$0.00
	22.	Sub-contract (Topic 2)			\$0.00	\$0.00
	29.	Component Total:	\$0.00	\$0.00	\$0.00	\$0.00
30.	Travel				\$0.00	\$0.00
	31.	Daily Subsistence Allowance	\$25,710.00	\$12,203.34	\$12,203.34	\$13,506.66
		31.1 National Experts and Assistants	\$12,750.00	\$10,703.44	\$10,703.44	\$2,046.56
		31.2 International Consultant(s)	\$10,000.00		\$0.00	\$10,000.00
		31.3 Others (Research Assistants)	\$800.00		\$0.00	\$800.00
		31.4 Driver	\$2,160.00	\$1,499.89	\$1,499.89	\$660.11
	32.	International Travel	\$25,000.00	\$0.00	\$0.00	\$25,000.00
		32.1 International Consultants	\$12,000.00		\$0.00	\$12,000.00
		32.2 Communication and Visa costs	\$3,000.00		\$0.00	\$3,000.00
		32.3 Travel Costs HAFL Collaborators	\$10,000.00		\$0.00	\$10,000.00
	33.	Local Transport Costs	\$16,500.00	\$13,889.96	\$13,889.96	\$2,610.04
		33.1 Vehicle Hire/Transportation	\$6,900.00	\$6,579.21	\$6,579.21	\$320.79
		33.2 Fuel	\$9,600.00	\$7,310.75	\$7,310.75	\$2,289.25
		33.3 Others			\$0.00	\$0.00
	39.	Component Total:	\$67,210.00	\$26,093.29	\$26,093.29	\$41,116.71
40.	Capita		\$4,500.00	\$3,176.93	\$3,176.93	\$1,323.07
	41.	Premises			\$0.00	\$0.00
	42.	Land			\$0.00	\$0.00
	43.	Vehicle(s)			\$0.00	\$0.00
	44.	Capital Equipment	\$4,500.00	\$3,176.93	\$3,176.93	\$1,323.07

		44.1 Laptop Computers	\$2,500.00	\$2,296.30	\$2,296.30	\$203.70
		44.2 Printers	\$1,000.00	\$880.63	\$880.63	\$119.37
		44.3 GPS	\$1,000.00		\$0.00	\$1,000.00
	40	Component Totali	¢4 500 00	¢2 176 02	¢2 176 02	¢1 222 07
	49.		\$4,500.00	\$3,170.93	\$3,170.93	\$1,323.07
50.	Consu		\$13,400.00	\$2,661.72	\$2,661.72	\$10,738.28
	51.	Layout and printing of documents	\$4,500.00		\$0.00	\$4,500.00
	52.	Dissemination of publications	\$1,500.00	\$295.75	\$295.75	\$1,204.25
	53.	Stationery and other supplies	\$2,000.00	 \$365.97	\$365.97	\$1,634.03
	54.	Contribution to office maintenance	\$2,400.00	\$2,000.00	\$2,000.00	\$400.00
	55	Contribution to HAFL Secretariat	\$2,000.00		\$0.00	\$2,000.00
	56	Public Awareness support (Media)	\$1,000.00		\$0.00	\$1,000.00
	59.	Component Total:	\$13,400.00	\$2,661.72	\$2,661.72	\$10,738.28
60	Minor		¢2,000,00	¢124.12	¢124.12	¢1 065 07
60.	MISCEI	Sundar	\$2,000.00	 \$134.13 (124.12)	\$134.13 ¢124.12	\$1,805.87 (¢124.12)
	01. 62	Sundry Audit Costs	¢2,000,00	 \$134.13	\$134.13	(\$134.13)
	62	Audit Costs	\$2,000.00		\$0.00	\$2,000.00
	05.	Contingencies			\$0.00	\$0.00
	69.	Component Total:	\$2,000.00	\$134.13	\$134.13	\$1,865.87
70.	Nation		\$0.00	\$0.00	\$0.00	\$0.00
	71.	Executing Agency Management Costs			\$0.00	\$0.00
	72.	Focal Point Monitoring			\$0.00	\$0.00
	79.	Component Total:	\$0.00	\$0.00	\$0.00	\$0.00
		Sub-Total:	\$267,190.00	\$82,831.94	\$82,831.94	\$184,358.06
80.	Projec		\$30,015.00			b/
	81.	ITTO Monitoring and Review	\$8,000.00			b/
	82.	ITTO Mid-term and Ex-post Evaluation				b/
	83.	ITTO Programme Support Costs	\$22,015.00			b/

	83.	Donor Monitoring Costs					
	89.	Component Total:	\$30,015.00				b/
90.	Refund						b/
		Sub-Total:	\$30,015.00	\$0.00	\$0.00	\$0.00	b/
100.		GRAND TOTAL:	\$297,205.00	\$0.00	\$82,831.94	\$82,831.94	\$214,373.06

		PROJECT CASH FL	OW STAT	EMENT			
Project	t	RED-PD 093/12 Rev.3 (F)		Period ending			
Project		ADVANCING REDD+ IN GHANA: PREPARATION					
		Component			Amount		
		Component	Reference	Date	in US\$	Local Currency	
						Gh¢	
						- T	
А.	Funds						
	1.	First instalment		3rd April '13	\$100,000.00	192,500.00	
	2.	Second Instalment					
	3.	Third instalment					
	4.	Fourth instalment					
		ETC.					
		Total Funds Received:			\$100,000.00	192,500.00	
В.	Expen						
10.	Project				+00.010.40	== == = = = = =	
	11.	National Experts (long term)			\$26,619.48	52,200.00	
		11.1 Project Coordinator			\$3,700.00	7,334.00	
		11.2 Climate change and REDD experts			\$12,000.00	23,586.00	
		11.3 Inventory and Ecologist Expert			\$4,119.48	7,930.00	
		11.4 Forester			\$2,000.00	3,980.00	
		11.5 Socio-Economist			\$2,000.00	3,980.00	
		11.6 Agroforester			\$2,800.00	5,390.00	
	12.	Other Personnel			\$17,711.99	34,722.81	
		12.1 Assistant (Climate Change and REDD)			\$5,563.47	11,180.00	
		12.2 Assistant (Inventory and Ecology)			\$338.69	674.00	

		12.3 National Research Assistant (MSc)	\$738.28	1,440.00	
		12.4 Research Assistant (Forestry)		0.00	
		12.5 Research Assistant (Socio-economist)	\$1,400.00	2,695.00	
		12.6 Research Assistant (Agroforester)	\$1,520.29	2,926.56	
		12.7 Research Assistant (coord. of publi.)		0.00	
		12.8 Administrative staff	\$1,751.26	3,487.25	
		12.9 National Research Associate	\$2,800.00	5,390.00	
		12.91 National Senior Consultant	\$3,600.00	6,930.00	
		12.92 Community staff		0.00	
	13.	International Consultants (HAFL)	\$0.00	0.00	
		13.1 Senior Forestry Consultant		0.00	
		13.2 Senior Agricultural Consultant		0.00	
		13.3 Research Manager, HAFL		0.00	
	14.	Fellowships and Training	\$0.00	0.00	
		14.1 Training (MSc)		0.00	
	15.	Workshops	\$6,434.40	12,934.00	
		15.1 Workshops (verification &proj. comp)	\$330.94	738.00	
		15.2 Capacity building for community groups	\$6,103.46	12,196.00	
		15.3 Scientific Advisor		0.00	
	10	Component Total:		00.956.91	
	19.		00.201,02	99,050,01	
20.	Sub-co)	\$0.00	0.00	
	21.	Sub-contract (Topic e.g. mapping, etc.))		0.00	
	22.	Sub-contract (Topic 2)		0.00	
	20	Component Totali	¢0.00	0.00	
	29.		\$0.00	0.00	
30.	Travel				
	31.	Daily Subsistence Allowance	\$12,203.34	23,774.00	
		31.1 National Experts and Assistants	\$10,703.44	20,882.00	
		31.2 International Consultant(s)		0.00	

		31.3 Others (Research Assistants)		0.00	
		31.4 Driver	\$1,499.89	2,892.00	
	32.	International Travel	\$0.00	0.00	
		32.1 International Consultants		0.00	
		32.2 Communication and Visa costs		0.00	
		32.3 Travel Costs HAFL Collaborators		0.00	
	33.	Local Transport Costs	\$13,889.96	27,210.50	
		33.1 Vehicle Hire/Transportation	\$6,579.21	12,745.00	
		33.2 Fuel	\$7,310.75	14,465.50	
		33.3 Others		0.00	
	39.	Component Total:	\$26,093.29	50,984.50	
40.	Capita	al	\$3.176.93	6.253.03	
	41.	Premises	+ <i>-</i> ,	0.00	
	42.	Land		0.00	
	43.	Vehicle(s)		0.00	
	44.	Capital Equipment	\$3,176.93	6,253.03	
		44.1 Laptop Computers	\$2,296.30	4,420.37	
		44.2 Printers	\$880.63	1,832.66	
		44.3 GPS		0.00	
	49.	Component Total:	\$3,176.93	6,253.03	
50	Canal		¢2.661.72	E 202 07	
50.		I avout and printing of decuments	φ2,001./2	5,262.67	
	51.	Discomination of publications	 ¢205.75	507 12	
	52.	Stationary and other supplies	¢265.07	207.12 713 75	
	55.	Contribution to office maintenance	¢2 000 00	2 002 00	
	55		\$2,000.00	3,963.00	
	55	Public Awarapass support (Modia)		0.00	
	50	rubiic Awareness support (Meula)		0.00	

	59.	Component Total:	\$2,661.72	5,282.87	
60.	Miscell		\$134.13	266.88	
	61.	Sundry	\$134.13	266.88	
	62.	Audit costs		0.00	
	63.	Contingencies		0.00	
	69.	Component Total:	\$134.13	266.88	
70	Nation		\$0.00	0.00	
70.	71	Executing Agency Management Costs	40.00	0.00	
	72	Exceding Agency Management costs		0.00	
	, 2.			0.00	
	79.	Component Total:	\$0.00	0.00	
		Total Expenditures To-date:	\$82,831.94	162,644.09	
		Remaining Balance of Funds (A-B):	\$17,168.06	29,855.91	
				-	

INTERNATIONAL TROPICAL TIMBER ORGANIZATION

Annexes







What is global warming

- □ Greenhouse gases (GHGs) are water vapor, carbon dioxide, methane and others
- These gases cause green house effect. How? They allow sun's rays to pass through them and prevent the returning heat from earth to escape
- Greenhouse effect: when gases such as carbon dioxide prevent the energy generated by the sun and radiated back from the earth in the form of heat to escape the Earth's atmosphere

ncrease in average global temperaturelimate change-Is it human caused

- Economic analysis shows human activities cause changes in the climate
 - That such changes could have harmful and irreversible consequences
- There is the need for society to take some steps to guard against such extreme events
- Steps should be taken to reduce CO2 and the GHG emissions
- Countries need to take steps to adapt to the global warming
- Economically sound and politically feasible policies need to be adopted

International agreement and carbon sinks

- World Meteorological Organization (WMO) and United Nations Environment Program (UNEP) form Intergovernmental Panel on Climate Change(IPCC) in 1988
 Purpose: to address GHG emissions
- First IPCC report in 1990, led to signing of UN framework convention on climate change (UNFCCC) by 174 countries in 1992
- UNFCCC committed signatories to stabilize atmospheric CO2
- Developed countries (Annex I) to reduce emissions to 1990 level by 2000
- In Kyoto meeting (COP3),11-12-1997, industrialized countries agreed to reduce CO2 emissions (by an average of 5.2% from 1990 level)
- They were to do this in 2008-2012

Kyoto protocol

- Kyoto Protocol(KP): an international agreement covering the period 2008-2012 to slow climate change.
- Under the protocol industrialized countries agreed to reduce their collective greenhouse gas emissions by 5.2 percent from 1990 levels
- Clean Development Mechanism (CDM): a scheme that helps industrialized countries meet their Kyoto Protocol emission targets in two ways
- 1. Reducing their own emissions:
- 2. Invest in reducing GHG-CO2 emissions or in enhancing GHG-CO2 sinks in developing countries.

Kyoto protocol

- Joint implementation (JI) Industrialized country undertake GHG-CO2 reduction activities in another industrialized country
- Assigned amount units(AAUs): Industrialized country can purchase AAUs from another industrialized country
- AAU: Emission permits in excess of what a country needs to meet its target







Overview of carbon markets Compliance Market Voluntary Carbon Markets Voluntary and Compliance Carbon Market Size The Stages of the CDM Project Cycle Who Is Who in a Carbon Offset Project Key Elements of Offset Standards

What are carbon markets

- Carbon markets: financing bodies and mechanisms that can exchange the
- carbon credits generated from verified REDD activities.
- This could take the form of 'voluntary markets' (that are formed under agreed bilateral mechanisms between the trading parties) or
- compliance market' (that are legally regulated to meet emission reduction target under multilateral agreements).

Compliance and voluntary markets

- Carbon offsetting -paying someone else to reduce GHG emissions elsewhere
- the purchaser of a carbon offset aims to compensate for – or "offset" – their own emissions
- Individuals seek to offset their travel emissions
- companies buy large quantities of carbon offsets to "neutralize" their carbon footprint or that of their products.



but it is also growing rapidly

Reasons for voluntary carbon markets

- They enable those in unregulated sectors or countries that have not ratified Kyoto, such as the US, to offset their emissions
- They enable companies to gain experience with carbon inventories
 - emissions reductions and
 - carbon markets.
- This may facilitate future participation in a regulated cap-and-trade system



emissions



Standards/schemes for Reducing GHG emission

- There are different standards in the carbon market for reducing emissions
- The compliant market-CDM standard/scheme exist
- The voluntary carbon-voluntary standards exist e.g.
- Verified Carbon Standard(VCS)
- □ The Climate, Community & **Biodiversity Standards (CCBS)**

Plan Vivo System etc



Standards/schemes for Reducing GHG emission

- differences exist among standards is how projects are reviewed and approved
- CDM, projects are verified by third-party auditors , reviewed, approved or rejected by the CDM Executive Board
 voluntary offset standards do not have such a body to review and approve the projects after the auditors have verified them
- The lack of a standard body which approves projects increase conflicts of interest,
- particularly where auditors are selected and paid for by the project developer



Registries Used by Each Standard

- Carbon offset registries keep track of offsets
- □ They minimize the risk of double-counting, that is, having multiple stakeholders take credit for the same offset.
- Registries also clarify ownership of offsets
- Offset Transactions
- Pricing of Offsets
- Price of Offsets' indicates the cost of one offset representing the reduction of 1 tonne of CO2e.
- Offset prices depend on many different parameters,
- e.g. type of project, the location, market demand, stringency of the standard requirements

Review of Standards Used In the Voluntary Offset Market

- Each standard accepts different types of offset projects
- The CDM, for example accepts all projects that reduce the six GHGs listed in the Kyoto Protocol,
 with the exception of the protection of existing forests
- with the exception of the protection of existing forests (REDD), nuclear energy, and HFC destruction from new facilities
- Offset Project Types
- REDD = Reduced Emissions from Degradation and Deforestation
- EE = Energy Efficiency
- RE = Renewable Energy
- LULUCF = Land Use, Land-Use Change and Forestry = Bio-Sequestration

Full-fledged Standards

- Clean Development Mechanism
- Gold Standard
- Voluntary Carbon Standard 2007 (VCS 2007)
- VER+
- Chicago Climate Exchange (CCX)
- ISO 14064-2
- GHG Protocol for Project Accounting

Bio-Sequestration Standards

- CDM Afforestation and Reforestation Standard (CDM A/R)
- VCS AFOLU Standard
- The Climate, Community & Biodiversity Standards (CCBS)
- Plan Vivo System
- Characteristic of each standard

Forestry carbon markets The forest carbon markets are not well standardized in terms of contractual set-up of carbon transactions there are many different carbon payment arrangements between project developers and buyers of credits.



Structure of carbon markets Voluntary Carbon Standard and the CarbonFix Standard are the most preferred carbon accounting standards for the

- OTC market The others are Forest Carbon Standards i.e.
 - A/R CDM,
 - American Carbon Registry (ACR),
 - Climate, Community and Biodiversity Standards (CCBS),
 - Climate Action Reserve (CAR), and
 - Plan Vivo Standards

Structure of carbon markets

- Among all carbon accounting standards the
 A/R CDM was regarded as most popular.
- However, project developers considered
 - voluntary carbon accounting standards,
 - voluntary carbon standards (VCS) and
 - the CarbonFix Standard as the most favored choices in 2010





Overview of PES and REDD+ Lawrence Damnyag, Kwame Antwi Oduro Ernest G. Foli and Angella Adjei-Darko

Content

- What is PES
- What is REDD+
- Concept of PES and REDD+
- How REDD+ works
- Concerns/issues to be addressed for REDD+ to work
- What to do before the main REDD+
- · Conclusion-what to keep in mind

What is PES

- Environmental services, referred to as ecosystem services, are resources and processes supplied by forest for the benefit of human beings.
- Four broad categories of ecosystems services have been identified (UN MEA, 2004) as:
 - UN IVILA, 2004) as.
 - Provisioning production of food and water;
 - Regulating control of climate and disease;
 - Supporting nutrient cycles and crop pollination; and
 - Cultural- spiritual and recreational benefits (e.g., sacred groves, etc).
- Payments for environmental services (PES): schemes where beneficiaries of ecosystem services pay those who manage them to ensure the services continue.
- PES is an economic instrument that provides incentives to land owners to supply environmental services, which benefit society broadly.

WHAT IS REDD+

REDD-Plus connotes reducing emissions from deforestation and forest degradation (DFD), conservation, sustainable forest management and enhancing carbon stocks. International forest policy to regulate climate change impact resulting from emissions of GHG-CO2.

*Opportunity for developing countries to get compensation for CO2 reduction actions from their forests Yet to be included in Post Kyoto protocol-

2008-2012



Concept of PES and REDD+

- Resource users, communities that provide Ecosystem Services to be compensated for the cost of provision
- Those who benefit from these services should be made to pay for them
- REDD initiatives can deliver significant climate change mitigation benefits along with co-benefits
- These include protecting the environmental services that forests offer, improving the livelihoods of forest-dwelling communities and clarifying land tenure right Ecosystem Services that forests provide include:
- Watershed protection
- Biodiversity conservation/protection
- Carbon sequestration and storage
- Landscape beauty-nature based tourism
- No compensation is paid to land users for the services generated from their lands.
- They do not take these services into account in making decisions about the land use

HOW REDD+ WORKS (APPROACHES)

B. Phases-1,2,3

A. Levels at providing • Phase 1

payments

Direct REDD

- project support Build capacity in MRV: Demonstration activities.
- Direct support to countries-• Phase 2
- national level Combination of 2
- National level favored globally
- Advantages
 - policies + measures easy
- Make policies and measures to reduce emissions. • Phase 3

Readiness phase: prepare a national REDD+ strategy;

- Full UNFCCC compliance REDD+ countries paid for reduced emissions and enhanced carbon stocks relative to agreed reference level;
- Advantage of phase approach-flexibility

How REDD+ Works (Approaches)

- · Credits from reduced emissions, also called 'avoided deforestation', would be quantified
- That positive quantity would then become a credit that could be sold in an international carbon market
- the credit could be handed to an international fund set up
 - to provide financial compensation to participating countries that conserve their forest
- REDD schemes allow forest conservation to compete on economic terms with the drivers of deforestation
- Current economic drivers favor destructive logging practices and conversion of forest to other uses, such as pasture for livestock and farmlands





Accountability

- If a REDD payment is made, but a forest still gets destroyed, what then?
- What can be done to ensure that carbon payments lead to sustained forest protection?
- • Funding
- Should developed countries create a fund to reward countries that reduce emissions from deforestation?
- Or, should these emissions reductions be linked to a market-based carbon trading system?
- · How would such a market system work in practice?



Concerns/issues to be addressed for REDD+ to work

- Leakage: what occurs when a reduction of emissions in one area leads to an increase in emissions in another area.
- Additionality
- Monitoring, reporting and verifications (MRV)
- Reference level
- Revenue distribution-international-national-local
- Cost and certification standards
- Project-based REDD+ to start before?
- Involvement of stakeholders-Agric, mines, transport, industry to let REDD+ be well implemented
- REDD+ safeguards? to cater for negative impacts e.g. environmental & Social -risk of loss of farmland- if low funds

Conclusion-what to keep in mind

- We should put in measures and strategies to address DFD
- Recall a strategy plan(s) to overcome a difficult task
- e.g of strategy -Vietnam-American War, Alex Fergusson/David Mores Manchester United, etc

THANK YOU





Why Community Participation?

Different reasons why community participation is promoted: Local communities have been effective in forest conservation

- Strengthen the capacities of communities or to empower communities (increase control over critical resources and decisions)
- A global study showed that there are both high carbon storage and livelihood benefits in places where communities have control over larger forest areas
- To make projects more effective and efficient



Why Community Participation?

- When participation of local communities is guided by the principle of FPIC, we can say that it is genuinely <u>empowering</u>. It creates the precondition under which the communities freely, on their own will and thus with full <u>commitment</u> engage in the initiative.
- A REDD+ project which is based on such a genuine partnership with local communities can be called <u>community-based REDD+.</u>
- For a REDD+ project, FPIC means that everyone residing within a project area must have knowledge of the proposed REDD+ project and must give their consent openly and freely.

DISCUSSION • How would you feel if outsiders will make decisions that affect your community without consulting you? Or • What may be the effects if outsiders will make decisions that affect your community without







Outline

consulting you?

- Costs and benefits of REDD+ to local communities
- Potential impact of REDD+ on local community livelihood
- What will make REDD+ feasible
 Stable land tenure-land registration from LAP project
- What are REDD+ activities and which are not

REDD + activities

- Replanting initiatives in deforested and degraded areas
- Conservation enhancing activities -e.g.
- forest plantation establishment on farmlands and agroforestry,
- nurturing of trees on farmlands



Activities that are not REDD+ • Difficulty in undertaking REDD+ intervention on sun grown cocoa and rice growing farmlands

- Shift from shaded to open cocoa farming,
- Prevalence of illegal mining and chainsaw operation
- Charcoal production and bush fires
- Insufficient incentives to conserve or plant trees on farmlands outside forest reserves











What will make REDD feasible

- Stable land tenure
- Land registration under LAP
- Sustainable practices that help poor people, such as allowing communities to have access to forest goods





Defining Rights

... Carbon rights involve the question:

Who owns the carbon stored in forests?

- ...REDD+ is based on the right to benefit from (or compensated for) reducing forest based emissions of greenhouse gases, either through:
 -fund-based payments,
 -carbon market payments or
 -combination of these
- Should an entitlement to payment depend on who owns the so-called 'carbon rights'?
 - Raises legal issues of how to define and allocate carbon rights in national REDD+ framework

Defining Rights What do we mean by carbon rights? ... Put simply, the registration of a carbon right over a block of land will <u>clarify the ownership of the right</u> to the <u>benefits</u> and liabilities that arise from changes to the atmosphere that are caused by carbon sequestration and carbon release on that block of land. – Government of Australia ... Currently, Ghana has no legal provisions in place which define carbon or characterize carbon ownership





Local communities and carbon rights

Potential benefits

REDD+ could bring income

- For local communities the real value of REDD+ may lie in bringing the wider issues of benefit sharing of all forests resources into focus
- Negotiation of tenure and use rights is the key to making forest carbon markets work. This is the only secure route for local people to benefit from the whole range of forest products

DISCUSSION Who should own carbon rights? Or who can benefit from carbon emission credits, and what systems should be in place to protect local communities rights in the design of carbon market systems? What should be in place to ensure that somebody holds carbon rights?



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