

Summary of Ghana's BUR

Facilitative Sharing of Views (FSV) workshop under ICA

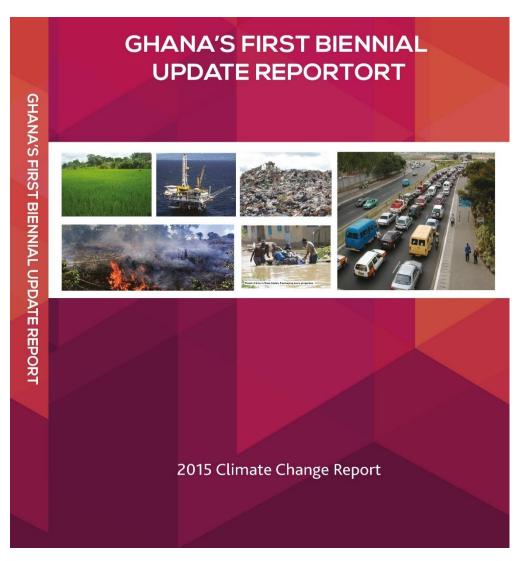
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Submissions and TTE review timelines

✓ Submission of BUR to UNFCCC secretariat : 21 July, 2015

✓ Centralized technical analysis by TTE: 16-18 November, 2015

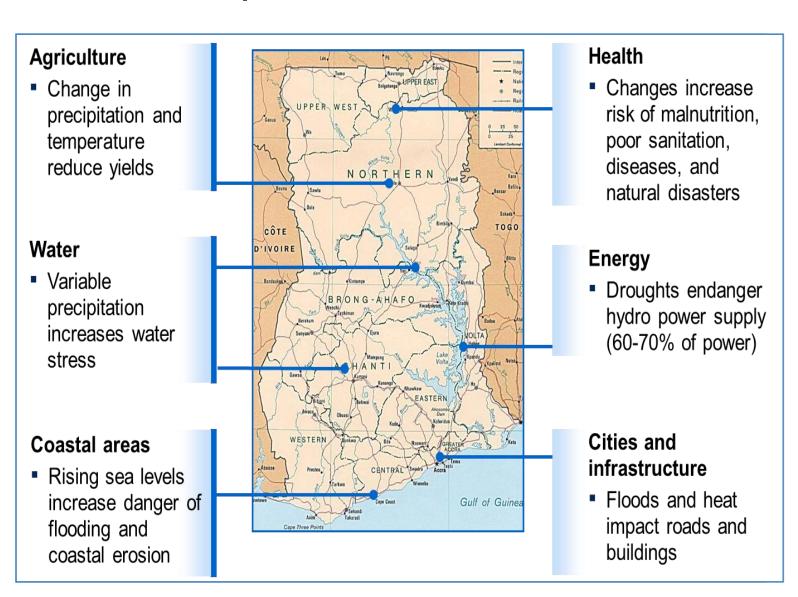
✓ Website publication of summary report : 12 February, 2016



Summary of information in the reports

1. National circumstances

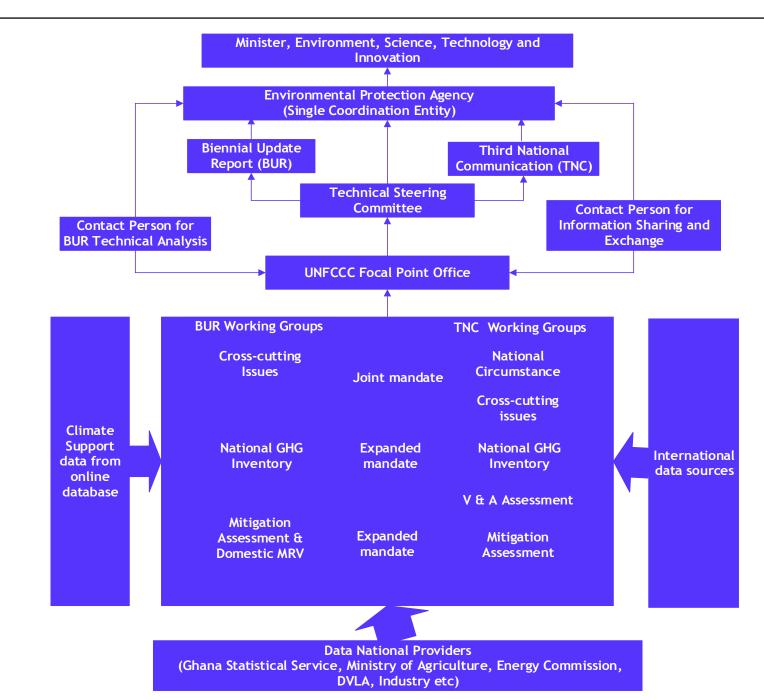
- ✓ economic outlook
- ✓ geography and demography
- ✓ development and environment
- ✓ Spread of climate vulnerabilities



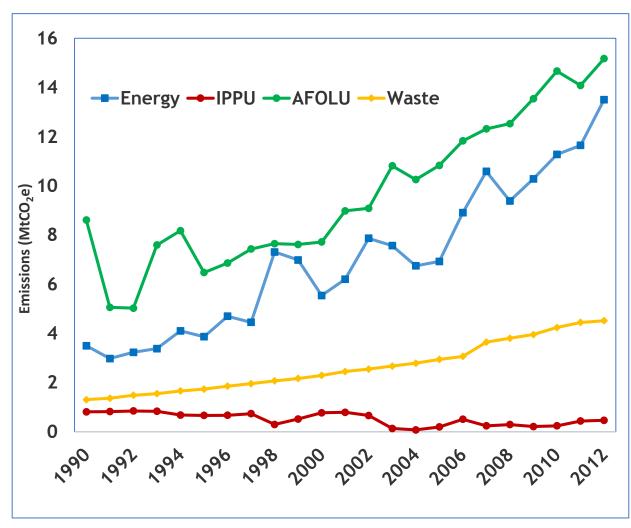
2. Institutional arrangement relevant to climate change

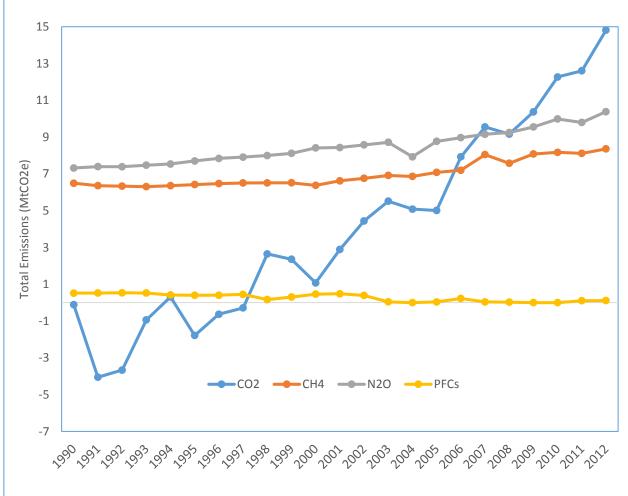
Institutional arrangement for the preparation action BUR/TNC





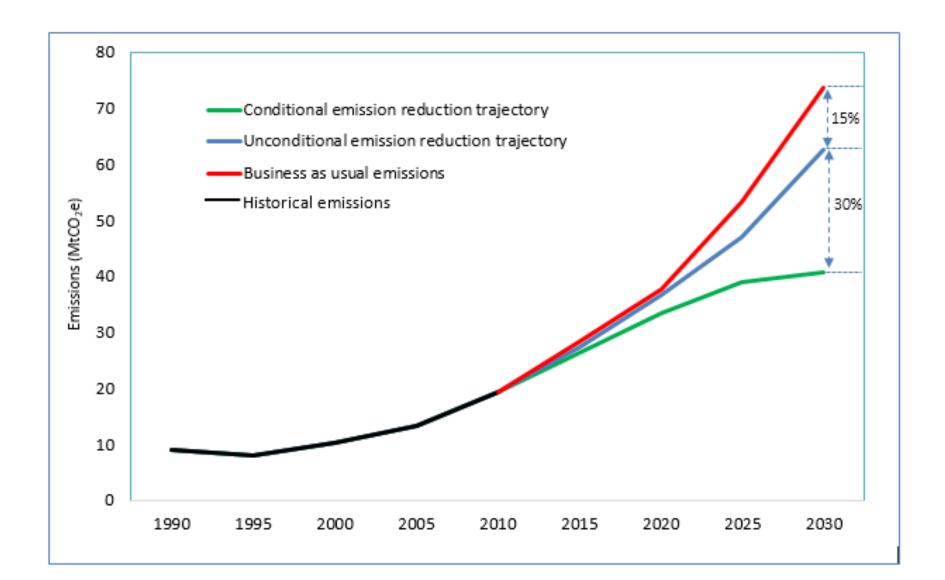
3. Greenhouse gas emissions profile





Emission trends by sectors

4. GHG emissions mitigation opportunities



5. Summary table of mitigation actions and their effects

No	Mitigation Actions	GHG Impact (kt)	Co-benefits	Cost (\$) in mil	Status
1	Solar Lantern Replacement Programme	1.29	Avoided US\$ 34million annual kerosene subsidy	2	On-going
2	Solar Electrification Programme	5.21	Support Rural development	Unknown	On-going
3	Efficient Lightning - CFL replacement programme	121	Saved 124MW peak hour electricity	15	Completed
4	Efficient fridge market transformation and rebate programme	3.6	Save energy, money for households, ODS phase out and create downstream jobs	6.1	Completed
5	Installation of Power Factor Correction Devices (Capacitors)	6	Monthly electricity cost saving to consumer	5.9	On-going
6	Bus Rapid Transit in Accra	10.2	5% increase in Non-motorized transport	29	On-going

No	Mitigation Actions		GHG Impact (kt)	Co-benefits	Cost (\$) in mil	Status
6	Fuel diversification for thermal electricity generations Domestic Gas Nigerian Gas		148.8	Annual US\$ 500 million savings from crude oil import and foreign exchange cost	1000	Started
			235.9	94-109million savings from crude oil cost	500	On-going
7	National Forest Plantation Programme		44.7	Annual 29,000 jobs, 370 metric ton of staple food, 15,300 (ha) rehabilitated areas	52	On-going
8	Cocoa REDD+ Programme		1,200	Double cocoa productivity, reduce deforestation	60	Planned
9	Forest Investment Programme		440	Reduce deforestation, Promote Biodiversity conservation	50	On-going
10	Sustainable Land Water Management Project		2.6	Livelihood support, Soil land restoration	8.75	On-going

Selected examples of mitigation actions and their effects

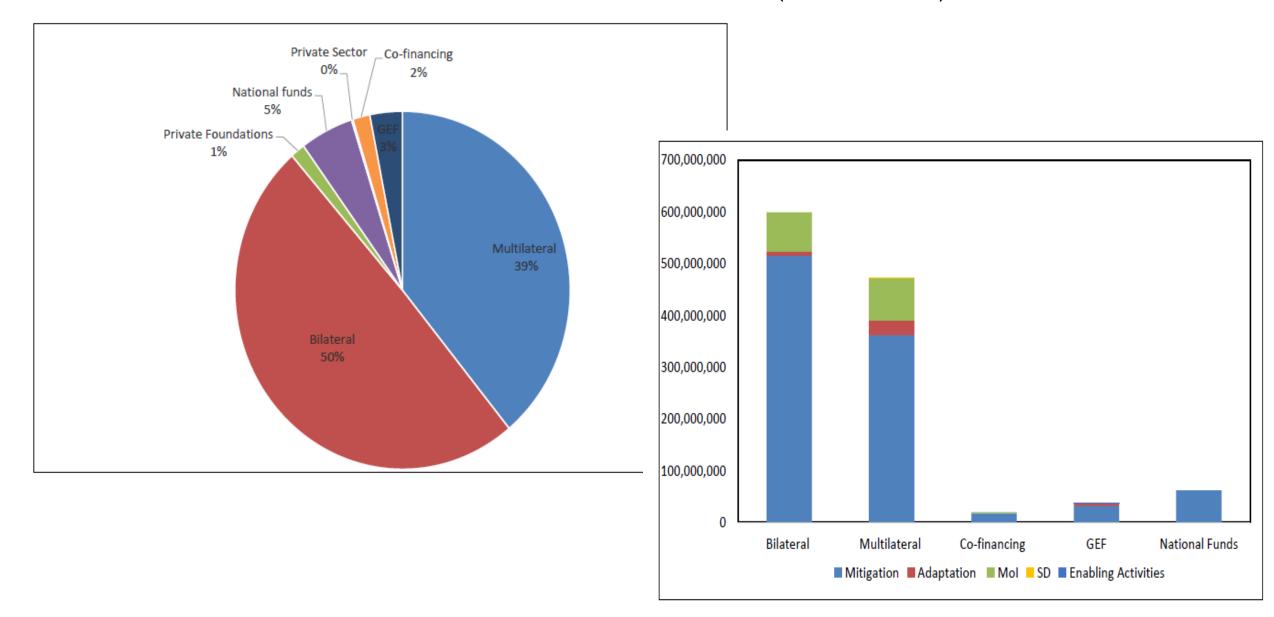
Mitigation Actions	Description	
National Forest Plantation Development	 Restore forest cover to 15,300ha in degraded forestlands every year. Create an average of 29,000 direct jobs yearly. Produce 370Mt food annually. 44.7ktCO₂e/yr. emission reduction. 	
	Cost: \$52 million. GoG and Private sector	20
Cocoa REDD+ Programme	 REDD+ result-based payment in Cocoa Landscape Double yield per ha, average production of 400 kg/ha, and would result in an additional annual income of \$650/ha. 1,200 ktCO2e/yr emission reduction. Cost: ~\$60 million. World Bank 	
Forest Investment Programme	 Promote Climate-Smart Cocoa Landscapes on 110,000 ha cocoa landscape Conservation of biodiversity ecological networks and corridors 440ktCO₂e/yr emission reduction Cost: \$ 50million. World Bank, IFC, AFDB 	
SLWMP	Landscape approach to sustainable land and watershed management. Livelihood support	100
	2.6 ktCO e/yr. emission reduction	
	Cost: \$8.75million. GEF/World Bank	

6. Support received and needed

a. non-monetized capacity building and technology support received for the period 2011-2014

No	Description of Activity	Climate Relevance	Donor	Status
1	Information matter project: training on GHG data management, emission baseline and domestic MRV. Third Party Review of National GHG Inventory Review - Energy Section.	Mitigation (GHG Inventory Energy Sector)	German Federal Ministry for Economic Cooperation and Development (BMZ), GIZ	On-going till 2016
2	Sustainable GHG Management Project in West Africa: Third Party Review of NGHGI- AFOLU Section. Training on Land use mapping using Google map engine tool.	Mitigation (GHG Inventory AFOLU sector	Australia, USA, Netherlands, UK, Belgium, New Zealand, UNFCCC, FAO, UNDP, UNDP	On-going till 2017
3	Capacity Development for REDD Project: Hands on training on Use of 2006 IPCC guidelines and ALU software for AFOLU GHG Accounting.	Mitigation (GHG Inventory AFOLU sector	German Federal Ministry for the Environment (BMU). International Climate Initiative, Coalition for Rainforest Nations (CfRN).	2012- 2014. Phase 2
4	Training on Non-Annex 1 GHG Inventory software	Mitigation (GHG Inventory Management)	United Nations Framework Convention on Climate Change (UNFCCC) Secretariat	2014
5	Training on Annex 1 Party GHG Review including methodological, reporting and review guidelines.	Mitigation (GHG Inventory Reviews)	United Nations Framework Convention on Climate Change (UNFCCC) Secretariat	On-going
6	CGE Training programmes on National Communications and BUR	Mitigation, Adaptation	United Nations Framework Convention on Climate Change (UNFCCC) Secretariat	On-going
7	Training on Long-range energy alternatives planning system	Mitigation	Stockholm Environment Institute	2013

b. International climate finance flows to Ghana (2011-2014) in US\$



c. support needed

Sector/Activity	Outcome/purpose	Alignment to policy/measures	Amount Needed (US\$)	Implementing Entities	Scope of support requested			Type of
					Finance	Technology	Technical Assistance	support needed
Improvements in national data system for continuous data collection AFOLU	Ensure continuous generation of high quality activity data	Focus programme 10: National Climate Change Policy	120,000	Forestry Commission, EPA CERGIS & MoFA	X		X	Grant
Comprehensive study of fugitive emissions in the emerging oil & gas sector	Make available high quality activity and emission factor for the major oil and gas operations	Focus programme 10: National Climate Change Policy	200,000	EPA, Energy Commission, Petroleum Commission	X		X	Grant
Development of country-specific emission factors for road transport, livestock, solid and domestic liquid waste and improvement in data collection systems	Increase confidents in the transport GHG emission estimation	Focus programme 10: National Climate Change Policy	350,000	EPA, Ministry of transport, DVLA, Energy Commission	X		X	Grant
Conduct climate impacts assessment: Use of statistical and dynamic crop and hydrological modeling	Improve methodology for conduct climate impacts assessment as basis for effective adaptation	Focus programme 1 to 9: National Climate Change Policy	300,000	EPA, relevant research and sectors institutions	X			Grant

c. support needed

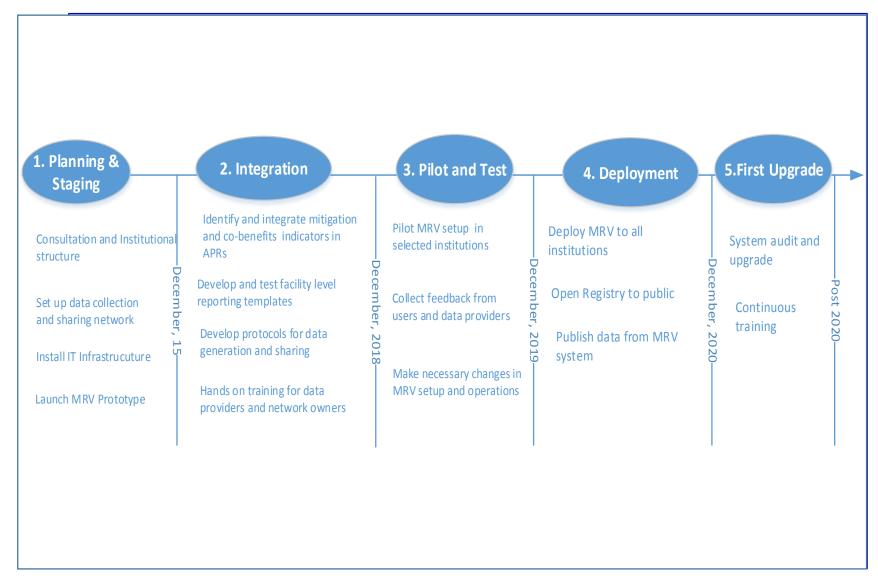
Sector/Activity	Outcome/purpose	Alignment to policy/measures	Amount Needed (US\$)	Implementing Entities	Scope of support requested			Type of support
					Finance	Technology	Technical Assistance	needed
Development and improvement of non-energy sector mitigation assessment	Estimate mitigation potential in non-energy sectors with increased certainty	Low Carbon Development Strategy	70,000	EPA and relevant sectors	х		x	Grant
Facility level carbon accounting programme	Facilitate regular reporting of emission and activity from industry.	Low Carbon Development Strategy	120,000	EPA, Ministry of Trade, Associations of Industry	х			Grant
Waste sector activity data improvement and management project	Identify, collect activity data and improve ways for continuous collection.	Low Carbon Development Strategy	190,000	EPA and Ministry of Local Government and Rural Development				Grant
Energy statistics development and improvement project	Improve quality of energy statistics including its metadata and uncertainty estimation	National Energy Planning, Domestic MRV	150,000	Energy Commission, EPA, Ghana Statistical Service	X			Grant
Industry and ODS Activity data collection project	Collect relevant industry and ODS activity data through a national survey	Focus programme 10: National Climate Change Policy	150,000	EPA, Ministry of Trade, Ghana Custom Services	х			Grant

c. support needed

Sector/Activity	Outcome/purpose	Alignment to policy/measures	Amount Needed (US\$)	Implementing Entities	Scope of support requested			Type of support needed
					Finance	Technology	Technical Assistance	
Development of guidelines for MRV implementation in M&E institutions	Operationalize domestic MRV system including GHG, Support and policies/measures	Focus programme 10: National Climate Change Policy	120,000	EPA, NDPC, Ghana Statistical Services, Ministry of Finance				Grant
Support to water conservation and irrigation systems	Ensure availability of water for multiple uses (including rainwater harvesting) in a changing climate whilst reducing flood related disaster risk in rural communities.	Focus programme 1: National Climate Change Policy	150,000,000	Local Government Authorities	X		X	Grant
Sustainable wood-based fuel production and development for domestic energy supply	improve efficiency of wood fuel production and ensure development of alternative bio-fuels for sustainable energy supply in Ghana	Focus programme: 4 & 5 of National Climate Change Policy	150,000,000	Ministries of Lands and Natural Resources of Food and Agriculture	х		X	Grant

7. Domestic MRV

- ✓ MRV system focuses on integration into existing national development M&E framework.
- efficient and cost-effective way of mobilizing institutions and setting up processes for performing MRV functions on sustainable basis at both project, sector and national levels
 - ✓ Road map



On-going MRV work

- 1. Comprehensive institutional arrangement set-up
- 2. Online data climate data hub developed and deployed



WELCOME

The Ghana's Climate Change Data Hub and project registry has been developed as part of the reforms introduced into the national system for climate reporting. The hub contains data and information collected from various actors in the implementation of climate change activities in

The hub provides seamless access to three datasets on Climate Change in Ghana. These are:

- . GHG Emissions Database
- Domestic Registry of Climate Change Initiatives & Projects
- . Dashboard of climate change policies and measures

The data and information contained in hub are already processed and updated to 2012 and will be regularly updated as new datasets come through the data exchange pipeline.



GHG Emissions Database

The GHG emissions database contains archive data used for the generation of the national estimates. It is designed to help improve archiving of all data used in the National GHG Inventory and also ensure that the general public have access to them.



Domestic Electronic Registry System

The DERS is a centralized data point for climate change and related initiatives in Ghana. The database contains information on all climate change initiatives in Ghana that have been implemented or under implementation and being planned.



Climate Policies & Measures Database

The D-PaMs is the dashboard of policies and measures of all climate related policies and measures in the productive economic sectors in Ghana. The dashboard has a tracker which is meant to track the progress of

Country Documents

CO2 emission estimates per capita

GDP per capita

Thank you