

MINISTRY OF EMPLOYMENT AND LABOUR RELATIONS

REPUBLIC OF GHANA

NATIONAL GREEN JOBS STRATEGY 2021-2025

Supporting Green Enterprises for Decent Job Creation



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ACKNOWLEDGEMENT

The Ministry of Employment and Labour Relations is grateful to the International Labour Organisation (ILO) for the collaboration and support towards the development of this National Green Jobs Strategy.

We are also thankful for the commitment and the spirit of tripartism shown by the Ghana Employers' Association (GEA) and the Trade Unions Congress (TUC).

We acknowledge that this milestone could not have been achieved without the contribution of sister Ministries, Departments and Agencies (MDAs) as well as Municipal, Metropolitan and District Assemblies (MMDAs) that took part in the stakeholder consultations and the validation workshop.

We would continue to count on your support, collaboration, partnership, enthusiasm and commitment for the implementation of this novelty.

FOREWORD

The Government of Ghana is committed to contributing to the achievement of the Paris Agreement on Climate Change targets. Government has demonstrated its commitment to this objective by ratifying the agreement in 2016 and implementing the Nationally Determined Contributions (NDCs). These are a set of Climate change mitigation and adaptation programmes designed to reduce the emission of Carbondioxide (CO_2) and other Greenhouse Gas into the atmosphere. In addition, Ghana is a signatory and Co-chair to the United Nations Sustainable Development Goals (SDGs) which obliges countries to adopt development approaches or pathways that are environmentally friendly and socially inclusive.

The implementation of environmental sustainable policies and Climate change mitigation or response measures are known to have some effects on the labour market, in terms of job losses, job gains, modification of skills and income streams. According to the International Labour Organisation (ILO), an estimated 18 million net jobs are expected to be created if the necessary policies and measures are put in place to support a just transition from the brown to green economy. This requires Government to pay attention to the impact of Climate change measures on workers and their families through the enforcement of decent work standards.

The green economy holds a huge potential for job creation and livelihood empowerment, if the right mix of economic and labour policies are implemented. Currently, a number of green interventions are being implemented across the economic sectors without any framework to coordinate and ascertain their impact on decent job creation. There are also critical challenges facing the emerging green economy that need to be addressed in a coherent manner in order to accelerate growth and increase the creation of decent green jobs.

The National Green Jobs Strategy has been developed with the intention to create platforms, develop capacities and institute measures that would Organise and harmonise on-going green interventions through effective coordination. The strategy adopts a multi-sectoral approach to ensure effective delivery of goods and services by specialised state and non-state actors through the implementation of measures that support the growth and expansion of the green economy in Ghana. This is expected to be done by strengthening institutional capacities, development of green skills and occupations, promotion of green enterprises and mobilisation of funding to support economic activities in the green sectors in order to harness the job creation potentials.

It is my fervent hope that stakeholders in the public and private sectors would continue to show enthusiasm, commitment and support in the operationalisation of the objectives of this strategy. We should do this through strong inter-sectoral collaborations, creation of synergies, partnerships and cooperation towards the development of green enterprises and the promotion of a just transition to an environmentally friendly economy and socially inclusive way of life.

HON. IGNATIUS BAFFOUR AWUAH (MP) MINISTER OF EMPLOYMENT AN D LABOUR RELATIONS

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List of Acronyms and Abbreviation

1D1F	One District One Factory
ASSI	Association of Small Scale Industries
BDS	Business Development Services
CBT	Competency Based Training
COTVET	Council for Technical and Vocational Education and Training
CPESDP	Coordinated Programme of Economic and Social Development
	Policies
CSIR	Council for Scientific and Industrial Research
CSOs	Civil Society Organisations
DACF	District Assemblies Common Fund
DOC	Department of Cooperatives
DPs	Development Partners
EPA	Environmental Protection Agency
FBOs	Faith Based Organisations
FC	Forestry Commission
GGJoP	Ghana Green Jobs Programme
GHG	Green House Gas
GIPC	Ghana Investment Promotion Center
GLMIS	Ghana Labour Market Information System
GOG	Government of Ghana
GRA	Ghana Revenue Authority
GRATIS	Ghana Regional Appropriate Technology Industrial Service
GSA	Ghana Standards Authority
GSGDA	Ghana Shared Growth Development Agenda
IGF	Internally Generated Fund
ILO	International Labour Organisation
LED	Local Economic Development
LGSS	Local Government Services Secretariat
M&E	Monitoring and Evaluation
MASLOC	Micro and Small Loans Centre
MDAs	Ministries, Departments and Agencies
MELR	Ministry of Employment and Labour Relations
MESTI	Ministry of Environment, Science, Technology and Innovation
MGCSP	Ministry of Gender, Children and Social Protection
MMDAs	Metropolitan Municipal and District Assemblies

MODD	
MOBD	Ministry of Business Development
MOE	Ministry of Education
MoEn	Ministry of Energy
MOF	Ministry of Finance
MoFA	Ministry of Food and Agriculture
MoTAC	Ministry of Tourism, Arts and Culture
MOTI	Ministry of Trade and Industry
MoU	Memoranda of Understanding
MSWR	Ministry of Sanitation and Water Resources
MTNDPF	Medium-Term National Development Policy Framework
MWH	Ministry of Works and Housing
NBSSI	National Board for Small Scale Industries
NDCs	Nationally Determined Contributions
NDPC	National Development Planning Commission
NGOs	Non-Governmental Organisations
NYA	National Youth Authority
PEF	Private Enterprise Federation
PS	Private Sector
PWDs	Persons with Disabilities
SMEs	Small and Medium Enterprises
ТоТ	Trainer of Trainers
TVET	Technical and Vocational Education Training
UNFCCC	United Nations Framework Conventions on Climate Change
YEA	Youth Employment Agency

1. EXECUTIVE SUMMARY

Climate change is a serious concern with implications for global economic growth and development. Climate change includes both the global warming driven by human emissions of greenhouse gases, and the resulting large-scale shifts in weather patterns with dire consequences for sustainable development and human survival.

In view of consequences, there are several policy recommendations both at the global and regional levels for nations to adopt environmentally friendly pathways to development. The Paris Agreement on climate change obliges party countries to implement measures that contribute to reduction of emission of carbon, methane and other dangerous gases into the atmosphere. This is aimed at achieving an average global temperature of 1.5-2.0 Degree Celsius over the long-term.

As a party to the agreement, Ghana implemented the National Determined Contributions (NDCs) which is the national framework that outlines programmes and projects for the mitigation and adaptation of Climate change measures. These measures have been found to impact on the labour market because they seek to change methods of production that result in emission of greenhouse gases. As a result, workers would have to adopt new technologies, innovations and means of production that require different set of employable skills.

In order to ensure that the transition from the current brown economy to a green or circular economy is "just" and socially inclusive, the Ministry of Employment and Labour Relations (MELR) in collaboration with stakeholders developed this National Green Jobs Strategy. It is aimed at ensuring that the transition in Ghana do not negatively impact on the livelihoods of workers and the labour force is adequately prepared to take advantage of the enormous decent job creation potentials of the green or circular economy.

As a strategy, the framework focuses on enterprise development as the channel for the maximisation of decent green job creation potentials in the green and circular economy. The key assumption is that if measures are put in place to support the development of green enterprises then they would grow and expand in a sustainable manner to create the expected decent green jobs across the economic sectors.

In view of the overall goal of creating more decent green jobs in Ghana, the strategy concentrates on four key components. The first component is aimed at strengthening capacities at MELR and sister Ministries for effective coordination of green jobs

initiatives. The second component is designed to facilitate the acquisition of green skills by workers and jobseekers to enable them nurture enterprises or work in enterprises engaged in the green economy. The third component dubbed "Green Enterprise Development" is meant to facilitate individuals and groups to develop green enterprises across the economic sectors that can be nurtured to grow and create the jobs. Component four focuses on ensuring that adequate funds or financial resources are mobilised to promote the operations of green enterprises.

The strategy is hinged on strong institutional and inter-sectoral collaboration as well as effective coordination at all levels. The strategy assumes that there are interventions ongoing in the public and the private sectors that can be coordinated and harmonised to achieve the overall goal. In line with this, coordination platforms would be established at the national and sub-national level to ensure that activities within the green economy are well coordinated and streamlined towards the sustainable national development objectives.

It is expect that the state and non-state actors would continue to play their respective roles towards enterprise development within the context of this strategy. For example, the Council for Technical, Vocational Education and Training (COTVET) would lead the development of curricula and delivery of critical skills required by the green and circular economy. The Ministry of Education would also ensure mainstreaming of green and sustainable development principles into the national education system. The Ministry of Trade and Industrial, particularly its enterprise development agencies such as the National Board for Small Scale Industries, is expected to lead green entrepreneurial development initiatives, including the provision of incubation services. In addition, MoTI would ensure promotion of green products and services in the local and international markets in order to safeguard the sustainability of the green enterprises. The Ministry of Finance in collaboration with the Bank of Ghana, Commercial Banks, other Financial Institutions, business owners and cooperatives would institute a strong framework for the mobilisation of financial resources to support green enterprises. The Ghana Investment Promotion Centre also would undertake investment promotion campaign to attract green investments into the green economy.

The goal of MELR is to ensure that these efforts are effectively coordinated and harmonized to support green enterprise development for the creation of decent jobs in the green or circular economy.

1.1 INTRODUCTION

This strategy has been developed for the operationalisation of national green jobs objectives formulated by the Ministry of Employment and Labour Relations as a result of consultations in the key sectors. The objectives are embodiments of agreements reached at stakeholder consultations Organised for stakeholders at the national, regional and district levels.

The strategy therefore expatiates on these objectives within the broader framework of the Ghana Green Jobs Programme for coherent conceptualization of activities and deliverables under four (4) programme components. The strategy also takes into account background information provided in the National Green Jobs Policy Analysis Document on past interventions, opportunities and challenges in the green sectors as well as policy recommendations that should be implemented to address the issues for the maximisation of decent green job creation.

1.2 Background

The overall goal of the National Employment Policy (NEP), 2015 is to create gainful and decent employment opportunities for the growing labour force, to improve living conditions whiles contributing to economic growth and national development within the framework of equity, fairness, security and dignity. The Policy also provides for Government and the Private Sector to put in place measures to ensure that potential in the green economy are harnessed for accelerated decent job creation. This involves the promotion of productive economic activities for the unemployed and jobseekers in an environmentally sustainable and social inclusive manner. To this end, there is high priority in focusing on sectors such as agriculture, energy, transportation, construction and waste management as well as services where there is huge potential for the creation of green jobs. Since most jobs in green sectors or circular economy are not by default decent, there is the need to ensure that the jobs that are promoted are decent.

The Government of Ghana's objective of creating more decent jobs to meet the demand for employment and improve the quality of jobs for those employed, is clearly in line with the transition to a more sustainable economy currently being advocated under the ILO's Guidelines for a Just Transition Towards Environmentally Sustainable Economies and Societies For All. Under the principles of environmental sustainability, good governance, decent work, social dialogue, partnerships, and the commitment to achieving the Sustainable Development Goals

as espoused in the Coordinated Programme of Economic and Social Development Policies (CPESDP) and other national development policies, the government is promoting and supporting initiatives for the creation of green jobs and the expansion of social protection mechanisms for workers exposed to external shocks and to develop new learning strategies to help them cope with these socio-economic shocks.

Ghana is party to the Paris Agreement on climate change and the United Nations Framework Conventions on climate change (UNFCCC) aimed at protecting the environment, ensuring sustainable growth and development as well as minimizing the negative effects of Climate Change. In view of this, Ghana developed and implemented its Nationally Determined Contributions (NDCs) towards achieving global targets for reducing carbon emissions and its effects on the environment and livelihoods. Despite the positive intentions of the NDCs, evidence shows that efforts towards reducing carbon emission levels themselves have implications for the labour market.

Estimates indicate that though the overall job gains in the green economy is high (24 million jobs globally), it is expected that some job losses will occur, and the structure of the labour market will be altered significantly as the economy transitions. The analysis also shows that developing countries in general, and the vulnerable, particularly women and low-skilled workers, would be most affected by climate change measures and environmental protection policies. As a result, there have been calls at all levels, particularly among ILO constituents to ensure that the transition from carbon-based economies to green or circular economies is fair and just for all. This principle demands measures to be put in place to ensure that the transition itself becomes an opportunity to develop new skills, professions, occupations, technologies and innovations that deliver job creation and avert possible job losses.

Green jobs are crucial vehicles to realising job and social gains while supporting environmental goals, and therefore can play a vital role in the advancement of national development priorities. Green jobs are decent jobs that contribute to improving the efficiency of energy and raw materials and limiting Green House Gas (GHG) emissions whilst protecting and restoring ecosystems. The promotion of green jobs would therefore influence positively the country's quest to mitigate and adapt to the effects of climate change. It is against this background that this strategy has been designed for the implementation by all stakeholders to facilitate the transition to a green and circular economy through the development of viable green enterprises.

1.3 Purpose

The purpose of this Strategy (programme) and its components is to provide a framework for the promotion of green jobs in Ghana.

1.4 Rationale

Due to effects of climate change, Ghana is facing many environmental challenges that impact the economy and social networks negatively. Some sectors of the economy such as agriculture and forestry have been significantly affected negatively by effects of climate change.

The 2018 Ghana Climate Change Risk Index value of 68.33 which measures the capacity of the country to anticipate, cope with, resist and recover from the impact of climate change, shows that Ghana faces a high level of exposure and vulnerability to climate related events. Land degradation, unsustainable agricultural practices, among others, have led to declining soil quality, and accelerated erosion, which have in turn reduced crop yields and viability. Over-exploitation of forest resources for logging, fuel wood extraction, charcoal production, and agriculture have resulted in rapid deforestation. Other environmental issues such as illegal mining, which has been a major source of environmental degradation, with severe consequences in terms of soil and water contamination; poor management of domestic, municipal, agricultural and industrial wastes have also led to problems of pollution and contamination of soil and water bodies with health implications.

Though many efforts have been advanced to solve these challenges, there continues to be a number of them that needs more attention. The creation of green jobs would help address some of these numerous environmental challenges. The rationale for this strategy is to create decent job opportunities for the teeming population of jobseekers, particularly the youth, which will further enhance the protection of the environment and the achievement of environmental goals.

1.5 Key Objectives

The overall objective of this strategy is to **support the creation of green jobs through coherent and effective policy coordination of sectoral approaches**. Specifically, the Strategy focuses on operationalizing the following objectives:

- 1. To ensure policy alignment, coherence and coordination for the maximisation of green jobs.
- 2. To develop employable skills, particularly for the youth, women and PWDs to take advantage of existing and emerging green jobs potential.
- 3. To support the creation of green job across sectors through the promotion of sustainable and competitive green enterprises and markets."
- 4. To mobilise and facilitate access to sustainable financing for green enterprises through inter-sectoral collaboration and cooperation.

It is expected that implementation would be done in a harmonised in a harmonised manner in order to maximize the interrelated and complementary impact of the emanating components of the Ghana Green Jobs Programme for sustainable job creation.

2.0 GHANA GREEN JOBS PROGRAMME

This strategy is conceptualised in terms of the "Ghana Green Jobs Programme" for the operationalisation of the key objectives. The programme is composed of four (4) interrelated components designed to focus on specific aspects of green jobs Ghana. promotion in The implementation of the components



is therefore, envisaged to contribute and culminate into the realization of the overall goal of "**creating more decent green jobs in Ghana**" for jobseekers, particularly the teeming youth, women and the vulnerable.

The successful implementation of the strategy requires that there is effective coordination among implementing agencies. The MELR in collaboration with the National Development Planning Commission (NDPC) would ensure that relevant sector policies and medium term plans are aligned with the green jobs promotion strategies. This would enable the implementing agencies to drive operationalisation of the objectives through sectoral approaches and to leverage synergies among them. In addition, MELR and NDPC would coordinate implementation, monitoring and evaluation activities by all actors at national, regional, district and local levels. In collaboration with the existing structures at the national and sub-national levels, MELR would establish platforms to facilitate effective coordination of interventions.

The Ghana Green Jobs Programme covers four pathways critical for the promotion of green jobs through inter-sectoral approaches, effective coordination and enterprise development.

Firstly, the programme intends to build the capacity of MELR, including its Departments and Agencies, to monitor, regulate, coordinate and facilitate policy



coherence among MDAs, **MMDAs** and Private involved in the promotion and creation of green jobs. This includes private enterprises, skills development institutions and state agencies that provide support or consume the services and products generated bv the

enterprises. Through its capacity building initiatives MELR would ensure that the appropriate measures are put in place to empower the relevant state and non-state actors to play their respective roles effectively. In order to ensure that green jobs promotion is integral to the national development agenda, the National Development Planning Commission (NDPC) is responsible for incorporating green jobs and their strategies into the National Medium Term Development Policy Frameworks. In the same vein, the Ministry of Finance would ensure that green jobs and green financing is central to the Medium Term National Expenditure Frameworks and mainstreamed in all aspects of the national development financing and related processes.

Secondly, the programme would promote the development of skills for green jobs in areas critical for the transformational agenda of Government and sustained economic growth. In view of this, the component dedicated to green skills development would focus on building green skill sets in specific or selected economic sectors that give Ghana competitive and comparative advantages.

Thirdly, the programme aims to empower the private sector, including Small and Medium Enterprises (SMEs), to expand and create opportunities for employment green enterprises. It seeks to provide a conducive environment for green businesses to thrive. The third component of the strategy therefore focuses on supporting individuals and groups trained in green skills to establish and manage their own green enterprises through the provision of green business support. This includes continuous training on management practices, provision of incubation services, productivity enhancement and market facilitation services. Existing well-to-do green enterprises would also be identified and supported with business development services to enable them grow and expand. Where feasible, new and existing green enterprises, particularly those in the informal sectors, would be encouraged to form cooperative societies to enable them take advantage of the integral opportunities of the cooperative system and the benefits of pooling resources for business growth. To this end, the third component of this programme focuses on providing support to persons and businesses in priority economic sectors to establish and grow sustainable green enterprises.

The fourth component is designed for the mobilisation of sustainable and adequate financial resources to support green entrepreneurs. Finance is a critical factor for the promotion and development of green enterprises. This component would therefore focus on ensuring that financial resources are available in both public and private sources, including development partners, NGOs and CSOs are mobilized and managed to support the growth of green enterprises. Since the role of the banks and other financial institutions are important in realizing the financing needs of green enterprises, this strategy focuses on supporting green enterprises to access financing opportunities for development of their business enterprises. The promotion of access to capital finance includes taxation incentives that generate jobs and environmental outcomes, and support for green technologies and innovations. Existing green interventions would be harmonised in order to ascertain their financial values and ensure that their activities contribute to the achievement of the objectives of this strategy.

The Bank of Ghana would also develop guidelines for Commercial Banks and Financial Institutions to prioritize green enterprise financing. Financial institutions would work closely with MMDAs and the private sector to finance green job initiatives in the districts. MMDAs would also put in place measures at the local levels to create the enabling business environment for green enterprises to thrive and create decent green jobs in line with the principles of the National Local Economic Development Policy. The Ghana Investment Promotion Centre (GIPC) would complement sectoral interventions by promoting business opportunities in the green economy to attract local and foreign direct investments as well as partnerships and collaborations.

The following are the components of the Ghana Green Jobs Programme (GGJoP):

- 1. Green Jobs Coordination Capacity Development Projects
- 2. Green Skills Development Projects
- 3. Green Enterprise Development Project and Access for Green Products
- 4. Green Enterprises Finance Project.

2.1 Programme Conceptualisation Framework

The Ghana Green Jobs Programme is technically conceived in terms of the interrelated components dedicated to the critical aspects required for the promotion of green jobs in sustainable manner. The implementation of the specific components of the programme hinges on the principles of coordination, collaboration, cooperation and complementarity of the interventions.

The interrelation and complementarity of the components towards the overall goal of the programme or strategy can be depicted in Figure 1.

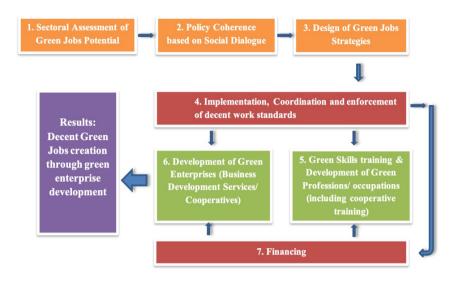


Figure 1 Program Conceptual Framework

The promotion of green jobs at the national and sub-national levels would hinge, first, on the sectoral assessment of potential green jobs. This is followed by policy formulation and coordination processes using social dialogue at all levels to ensure coherence of all policies and sectoral interventions to drive the process. The social dialogue process involves negotiations and consultations, where information is shared among all relevant stakeholders including government, employers' and workers' organisations, CSOs, the private sector, among others, on issues of common interest, partnerships and cooperation. These processes are necessary to facilitate policy coherence and timely achievement of the expected green jobs outcomes. The implementation structure of the National Green Jobs Strategy is shown in Figure 2.

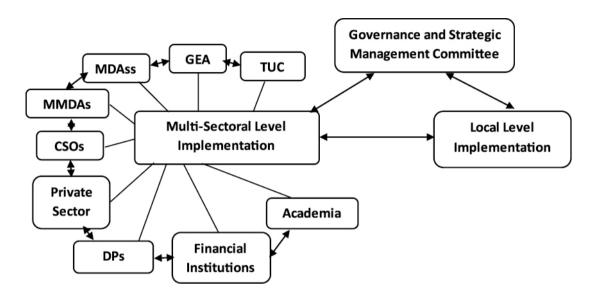


Figure 2 National Green Jobs Strategy Implementation Structure

The implementation structure of this strategy comprises a Governance and Strategic Management Committee or an Inter-Sectoral Coordination Working Group made up of representatives of the main driving institutions, including MELR, NDPC, MOF, BOG, MoFA, MESTI, EPA, Parliamentary Select Committees, Forestry Commission (FC), PEF, CSOs, LGSS, COTVET, Energy Commission, Financial Institutions, Development Partners and Academia. This Working Group would be jointly chaired by MELR, NDPC and EPA is to provide oversight as well as provide strategic management support in ensuring that the drivers necessary for green jobs promotion are effectively implemented. The Working Group would also be responsible for the overall implementation of this strategy, including the monitoring and evaluation framework. It would also help in keeping the outcomes of the strategy on track through close engagement with the implementing agencies.

The implementation of the key objectives and strategies would however be done in a multi-sectoral manner. Ministries, Departments, and Agencies (MDAs) and Metropolitan, Municipal and District Assemblies (MMDAs) would play their respective leading and collaborating roles in all areas relating to their mandates and operations. Government agencies would use existing policies and regulatory frameworks to improve institutional structures and ensure effective implementation

of the activities. For the implementation of the specific components or components, particular MDAs and MMDAs would play the leading role. In some cases, MDAs, MMDAs and the Private Sector would be required to assume joint lead roles to ensure effective implementation of specific interventions.

The Ministry of Employment and Labour Relations (MELR) would play its coordination role by establishing mechanisms and measures that augment existing capacities for implementation. MELR would conduct monitoring and evaluation of interventions and provide policy coordination support services to implementing agencies to ensure that implementation is effective and the overall agenda of decent job creation is achieved in an efficient and timely manner.

2.2 Component One (1): Green Jobs Coordination Capacity Development

2.2.1 Description

The Ministry of Employment and Labour Relations is mandated to coordinate job creation interventions in both the public and private sectors in Ghana. The Ministry, being the advisor to Government on employment and labour issues, is responsible for the collection and dissemination of data/information on all aspects of the labour market to inform the development of responsive policies and strategies that promote



decent job creation. In addition, the Ministry is responsible to ensure that participation in the employment sector conform to existing laws and regulations; including decent work standards and that activities are in tandem with national development objectives and priorities.

Further to this, there are existing strategies, laws and policies instituted by the Ministry to provide the administrative and regulatory framework for the enforcement of standards in the employment sector to promote decent job creation. These include the Labour Act, 2003 (Act 651), the National Pensions Act, 2008 (Act, 766), the National Employment Policy, 2015, the National Labour Migration Policy, 2020, the National Green Jobs Strategy, among others.

To this end, MELR requires capacities in terms of institutional structures, human resources and logistical support to enable it monitor, coordinate and regulate the employment sector, including the green jobs sub-sector. The Ministry must also ensure that there is a sense of common purpose among all implementing agencies and stakeholders in order to facilitate the achievement of the national green jobs objectives conceptualised in this strategy. This involves constant communication and engagement with all stakeholders, the development and maintenance of value chains, promotion of green skill development, enterprise development and effective management of interactions within the green jobs sub-sectors.

Currently, MELR has established the basic institutional structures for the regulation of the employment sector and promotion of decent jobs. However, there is no specialised unit to coordinate green jobs. The MELR staff at the national, regional and district levels also lack the core competencies and technical expertise to effectively coordinate and promote green jobs. The existing offices also lack the technological support that would enable them identify, monitor and harmonise green jobs initiatives in the public and private sectors.

The Green Jobs Coordination Capacity Development Component is therefore designed to build the required institutional structures, technical know-how and expertise of staff and provide the necessary logistical support to make the MELR and its Department and Agencies capable of coordinating activities in the green jobs sub-sectors. The capacity building activities would also involve other MDAs, MMDAs, Organised labour, employers' Organisations, private sector actors, among others, to enable them acquire the necessary competencies to deliver activities outlined in the strategy. This component also focuses on strengthening communication and information sharing with stakeholders in the green jobs subsectors (public and private), disseminating policy briefs and labour market information relevant to green jobs. It would further focus on promoting cooperation among green enterprises and developing value chains, enforcing decent work standards, among others, through workshops, technical meetings, focus group discussions, media engagements, partnership with development partners, among others.

2.2.2 Objective

The objective of component one (1) is to "ensure policy alignment, coherence and coordination for the maximisation of green jobs".

2.2.3 Expected Key Result

The Green Jobs Coordination Capacity Development Component is aimed at achieving "a well-coordinated administrative and regulatory system that supports the development of green skills and enterprises for decent job creation".

2.2.4 Stakeholder Analysis

Table 1: Stakeholder Analysis Matrix for Component 1

No.	Stakeholder	Threat	Opportunities	Role
1.	Cabinet	Cabinet may	Cabinet has shown	Cabinet is
		suspend the	commitment in	responsible for
		implementation	sustaining job	providing overall
		of the strategy or	creation through	policy oversight
		specific	specific green	and vision for
		component(s) for	initiatives in	national
		alternatives.	agriculture.	development.
2.	Parliament	Over	Parliament may	Parliament is
		politicisation	advocate for	responsible for
		may affect	increased annual	oversight,
		implementation	budget allocations	accountability
		of the strategy.	for implementation	and judicious use
			of the strategy.	of state funds.
3.	National	NDPC may	Integration of the	NDPC is
	Development	advocate for the	strategy into the	responsible for
	Planning	suspension of the	national medium-	the harmonisation
	Commission	strategy if	term development	of national
	(NDPC)	objectives are	agenda to ensure	development
		not in line with	effective	planning,
		national	mainstreaming by	monitoring and
		development	actors at all levels.	evaluation at all
		objectives.		levels.

No.	Stakeholder	Threat	Opportunities	Role	
4.	Ministry of	The shrinking	MOF may undertake	MOF is	
	Finance	fiscal space and	financial	responsible for	
	(MOF)	increasing	engineering to create	fiscal and	
		demand for	more fiscal space or	economic policy	
		funding by	develop incentives	management and	
		MDAs and	and facilitate	mobilisation of	
		MMDAs may	acquisition of	funds for the	
		constrain MOF	funding.	implementation	
		ability to allocate		of policies and	
		adequate funding		strategies.	
		for the strategy.			
5.	Ministry of	Inadequate	MOFA has the	MOFA is	
	Food and	funding may	technical expertise	responsible to	
	Agriculture	affect the	and institutional	ensure food	
	(MOFA)	implementation	structures at all	security through	
		of innovative	levels to support	the adoption of	
		interventions for	green agriculture	innovative	
		greening of	initiatives.	technologies.	
		agriculture.			
6.	Ministry of	Limited services	There is a large pool	Ministry of	
	Sanitation	to support green	of private sector	Sanitation and	
	and Water	enterprises in the	actors willing to	Water Resources	
	Resources	WASH sector.	engage in green	has the oversight	
			enterprises provided	responsibility for	
			given the required	WASH policies.	
			incentives.		
7.	Ministry of	There is the	MESTI may	MESTI is	
	Environment	possibility of	leverage its existing	responsible for	
, Science,		duplication since	technical expertise	policy oversight	
	Technology green job		and institutional	for the protection	
	and	strongly relates	structures to support	of the	
	Innovation	to climate	technological	environment and	
	(MESTI)	change and	development for	promotion of	
		environmental	green enterprises in	green	
		sustainability.	collaboration with	technological	
			stakeholders	innovations.	

No.	Stakeholder	Threat	Opportunities	Role	
8.	Environ-	Duplication of	EPA has the	EPA is the	
	mental	activities and	technical expertise	technical wing	
	Protection	lack of	and institutional	responsible for	
	Agency	transparency in	structures to address	the enforcement	
	(EPA)	climate finance	issues of Climate	of standards and	
		may stifle efforts	change and	policies for the	
		in managing the	environmental	protection of the	
		climate space.	degradation.	environment.	
9.	Ghana	GSA may adopt	GSA may adopt	GSA is	
	Standards	high and costly	standards that give	responsible for	
	Authority	standards that	indigenous	the maintenance	
	(GSA)	put indigenous	businesses a fair	of standards in	
		businesses,	start to encourage	the productive	
		partly small-	them become	sectors for the	
		scale business at	innovative and	assurance of	
		a competitive	competitive in the	consumer	
		disadvantage.	long run.	protection and	
				value for money.	
10.	Metropolitan	MMDAs may	Green Enterprise	MMDAs are	
	, Municipal	feel a bit distant	development is an	required by law to	
	and District	d District and reluctant to integral component		support LED to	
	Assemblies	blies implement a of the National		accelerate private	
	(MMDAs)	IMDAs) strategic Local Economic		sector growth and	
		emanating from	Development (LED)	poverty reduction.	
		the center.	Policy.		
11.	Private	Private sector	There are a wide	The private sector	
	Sector	entities in the	range of private	propels economic	
Entities and		green economy	enterprises currently	growth by taking	
	Entrepre-	face critical	operating in the	initiatives or	
	neurs	regulatory,	circular economy.	developing	
	marketing and		These can be	businesses for	
		financial	supported to expand	economic returns.	
		challenges that	to create more		
		impede growth.	decent green jobs.		

No.	Stakeholder	Threat	Opportunities	Role
12.	Ministry of	Rapid depletion	Government is a	MLNR through
	Lands and	of the vegetation	signatory to the	the Forestry
	Natural	cover and illegal	Sustainable	Commission
	Resources	mining activities	Development Goals,	implements
	(MLNR)		which provides the	schemes that
			framework for	protect the
			environmental	vegetation cover
			sustainability.	and the integrity
				of the eco-system.
13.	Development	Development	DPs have a pool of	DPs complement
	Partners	Partners may	technical and	development
	(DPs)	pursue agenda	financial assistance	efforts of
		different from	capacities that can	Government
		the national	be harnessed to	through technical
		green agenda.	support the	and financial
			development of	support.
			green jobs initiatives	
			at all levels.	

2.2.5 Key Assumptions for Component One (1)

Effective implementation of this component is based on the following assumptions:

- 1. Government and other stakeholders support the promotion of green jobs in the productive sectors.
- 2. All stakeholders would collaborate and cooperate with MELR to ensure effective coordination and implementation.
- 3. MELR would constantly engage all stakeholders every step of the way to share successes, challenges and opportunities.
- 4. The existing structures at MDAs and MMDAs levels facilitate operations of private sector actors in the green economy.
- 5. Development Partners would assist in the provision of technical support to facilitate implementation of this component.
- 6. Effective communication channels would be created to receive feedback from all stakeholders.

- 7. A database on the activities of all stakeholders would be created to facilitate effective coordination.
- 8. Issues of duplication of functions would be addressed.
- 9. MELR Staff and others involved in coordination activities would be adequately trained to enable them play their respective roles effectively.

2.2.6 Implementation Arrangement for Component One (1)

This component would be implemented by the Ministry of Employment and Labour Relations in collaboration with the National Development Planning Commission (NDPC) and the Environmental Protection Agency (EPA). Other Ministries, Departments and Agencies (MDAs), MMDAs, Organised labour, employers Organisations, Private Entities, Civil Society Organisations (CSOs), Non-Governmental Organisations (NGOs) and Development Partners (DPs) would support implementation by undertaking activities that relate to their functions and mandate. MELR would play the leading role and host structures, including a green jobs coordination database, meetings and workshops as well as stakeholder engagements to facilitate policy harmonisation and coordination of green jobs.

However, the Ministry will rely on the collaboration and cooperation of relevant MDAs, subnational organisations, organised labour, employers' organisations, private sector entities, CSOs, NGOs and DPs with relevant roles for effective coordination. The Ministry would also enter into MoUs and other agreements with the relevant organisations, including international development agencies, to mobilise resources and technical contributions to aid seamless implementation of all major activities slated under this subproject.

At the subnational level, activities of MMDAs would be critical for the achievement of the objective of this component. This is because MMDAs are responsible for the management of environmental activities, particularly waste management and natural resource conservation. As a result, there are a number of existing interventions at the MMDAs level that could be strengthened to support decent green jobs creation.

It is expected that MELR would take advantage of its position in governance to mobilize internal contributions within Government, as much as possible, to accelerate implementation of activities at national and subnational levels.

MELR would develop a specific Monitoring and Evaluation (M&E) Framework as an integral part of this programme to facilitate the assessment of progress towards the delivery of expected outputs and outcomes of this component (Green Jobs Coordination Capacity Development Component).

2.2.6.1 Estimated Cost of Implementation

It is estimated that the cost of building capacities to support the coordination of green jobs interventions across the sectors is GHC 4,640,000.00, approximately USD 800,000.00.

Table 2: Component One (1) Annual Workplan Matrix

Component 1: Institutional Coordination Capacity Development Project

Objective 1: To ensure policy alignment, coherence and coordination for the maximisation of green jobs.

					Means of		
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	Responsibility
1.	Mainstream	1.1 Incorporate green	Green jobs objectives	Inclusions of green jobs	2022-2024 Medium	Year 1	Lead: NDPC
	green jobs	jobs objectives into the	incorporated into the	objectives under the	Term National		
	objectives in	Medium Term National	Medium Term National	employment focus area of	Development		Collaborators:
	national	Development Policy	Development	the Medium Term National	Frameworks.		MELR, MDAs,
	planning and	Framework.	Framework.	Development Framework.			MMDAs, DPs,
	development	1.2 Formulate specific	National green jobs	National Green Jobs	National/Sub-national		TUC, GEA.
	frameworks,	national green jobs	indicators formulated.	Indicators	Green Jobs		
	and ensure	indicators.			Indicators.		
	coherence	1.3 Incorporate	Objectives of the	No. of green jobs objectives	National LED Policy	Year 1 - 2	Lead: MELR
	between	objectives of the	National Green Jobs	and strategies in the	Document.		Collaborators:
	employment	national green jobs	Strategy incorporated into	National LED Policy			MLGRD,
	and	strategy into the National	the National LED Policy.				MDAs,
	environment-	Local Economic					MMDAs
	related policies	Development (LED)					
		Policy					
		1.4 Incorporate	Green Jobs objectives	No. of sectoral policies	Sectoral Policies.	Year 1 - 5	Lead: MELR
		objectives of the national	incorporated into other	responsive to green jobs.			Collaborators:
		green jobs strategy into	sectoral policies				MLGRD,
		other sectoral policies.	(Housing, Sanitation,				MDAs,
			Agriculture etc.)				MMDAs
		1.5 Organise orientation	Orientation on green	No. of orientations	Minutes/ Reports	Year 1-5	Lead: MELR
		on the adoption of green	approaches and	Organised	Audio-visual		Collaborators:
		approaches/technologies	technologies organised		materials		PECs, YEA,
		in public employment	for public employment				MDAs,
		programmes.	programmes.				MMDAs, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		1.6 Produce annual	National Green Jobs	Availability of National	National Green Jobs	Year 1-5	Lead: MELR
		National Green Jobs	Report produced.	Green Jobs Report.	Report		Collaborators:
		Report.					MDAs,
							MMDAs
2.	Develop a	2.1 Conduct mapping of	Mapping of industries	Availability of Mapping	Mapping Report	Year 1	Lead: MELR
	mechanism to	industries and	and interventions	Report.			~
	support the	interventions in the	conducted				Collaborators:
	coordination of	various sectors at both					MDAs,
	green economic	national and local levels.	D + 1			4	MMDAs,
	activities and	2.2 Develop a database	Database on green industries and	No. of green industries and interventions identified.	Catalogue of industries and		TUC, GEA, Private Sector, CSOs, FBOs,
	interventions	on all existing green industries and		interventions identified.	industries and interventions.		
	across sectors by	interventions.	interventions developed.		interventions.		DPs.
	strengthening	2.3 Establish Green Jobs	Inter-Sector Coordinating	Membership of Green Jobs	Reports, list of	-	Drs.
	existing	Inter-Sectoral	Platform(s) established.	Coordinating Platform(s).	participants, pictures		
	structures at all	Coordinating	Thatform(s) established.	Coordinating Flatform(s).	and videos.		
	levels.	Platform(s).			und videos.		
		2.4 Establish functional	Effective referral systems	No. of referrals.	Reports.	Year 1-5	_
		linkages between	established between		1	_	
		institutions providing	institutions providing				
		services for the	green support services.				
		promotion of the green					
		economy.					
		2.5 Organise workshops,	Green jobs promotional	No. of green jobs	Pictures, videos,	Year 1-5]
		events, meetings, fairs	workshops, events,	promotional workshops,	Posters, fliers and		
		and advertisements to	meetings, fairs and	events, meetings, fairs and	adverts.		
		create awareness of	advertisements done.	advertisements at all levels.			
		green jobs opportunities					
		in the national and local					
		economies.					

N 7				.	Means of	T1 A	D
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	Responsibility
		2.6 Collate and	Green jobs information	Frequency of green jobs	GLMIS Reports.		
		disseminate green jobs information on the	collated and disseminated on GLMIS	features in GLMIS Reports.			
		GLMIS	on GLMIS				
		2.7 Assess the extent to which existing green	Government development objectives supported by	1. No. of existing green funding sources.	List of existing green funding sources.		Lead: MOF
		funding support	green funding.	2. Extent to which green	List of beneficiaries		Collaborators:
		Government	green runung.	funding supports	of existing green		MELR, MDAs,
		development objectives.		Government development	funding.		MMDAs,
		jj		objectives.	8		Private Sector,
				5			DPs.
		2.8 Organise annual	Annual green jobs	Consolidated Annual Green	Consolidated Annual	Year 1-5	Lead: MELR
		green jobs planning	planning sessions and	Jobs Workplans available.	Green Jobs Workplan		
		sessions and mid-year	mid-year review meetings		and Workshop		Collaborators:
		review meetings.	held.		Report.		MDAs,
							MMDAs,
							TUC, GEA,
							Private Sector,
							CSOs, FBOs,
3.	Assess green	3.1. Conduct research	Research into topical	No. of research on topical	Reports.	Year 1-5	DPs. Lead:
5.	jobs potential	into topical issues	green jobs issues	green jobs issues conducted.	Reports.		Academia,
	and embed data	concerning green jobs.	conducted.	green jobs issues conducted.			ricuciónia,
	collection in	3.2 Undertake sector	Green job prospects and	No. of green jobs	A catalogue of green	Year 1-3	Collaborators:
	relevant	specific appraisal of	opportunities identified in	opportunities/ prospects	jobs opportunities/		MELR, MDAs,
	national	green jobs prospects.	each sector of the	identified in each sector.	prospects in each		MMDAs DPs.
	instruments		economy.		sector.		TUC, GEA,
							Private Sector.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		3.3 Perform a Green job Needs Assessment.	Green Jobs Needs Assessment conducted	Availability Green jobs Needs Assessment Reports	Green jobs Need Assessment Reports published/produced.	Year 1-2	Lead: Academia,
		3.4 Develop green jobs policy briefs.	Green jobs policy briefs developed.	Availability of Green Jobs Policy Briefs	Green Jobs Policy Briefs.	Year 1-4	Collaborators : MELR, MDAs,
		3.5 Organise green jobs advocacy meetings, workshops and events based on the policy briefs.	Green Jobs Advocacy meetings, workshops and events organised.	No. of green jobs advocacy meetings organised.	Reports, Pictures	Year 1-5	MMDAs DPs. TUC, GEA, Private Sector.
		3.6 Conduct research into value chains in the green economy and disseminate findings.	Information on green economy value chains disseminated.	No. of green economy value chain reports disseminated.	Reports, IEC Materials, Pictures, Minutes.	Year 1-4	Lead: Academia Collaborators: MELR, MDAs, MMDAs, Private Sector, DPs.
4.	Establish a monitoring and evaluation system to track	4.1 Constitute a Green Jobs Monitoring and Evaluation Team.	Green Jobs Monitoring and Evaluation team constituted.	Membership of the Green Jobs Monitoring and Evaluation Team.	List of team members.	Year 1	Lead: MELR Collaborators: NDPC, MME,
	and assess progress in promoting	4.2 Train members of Green Jobs monitoring and evaluation team.	Green Jobs M&E team trained.	No. of training programmes organised for Green Jobs M&E Team.	Training Reports, pictures, participant lists and videos.	Year 1-5	MDAs, MMDAs, TUC, GEA,
	green jobs	4.3 Develop a green jobs Monitoring and Evaluation system to track progress.	Green Jobs Monitoring and Evaluation system developed.	Availability of Green Jobs M&E Framework.	Green Jobs M&E Framework.	Year 1	Private Sector, CSOs, FBOs, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		4.4 Conduct regular monitoring of existing green interventions.	Existing green interventions monitored.	No. of green jobs monitoring reports.	Green Jobs Monitoring Reports.	Year 1-5	Lead: MELR Collaborators: NDPC, MME,
		4.5 Hold regular review meetings to disseminate green jobs monitoring results.	Green jobs monitoring report review meetings held.	No. of green jobs monitoring review meetings held.	Monitoring review Meeting Reports.	-	MDAs, MMDAs, Private Sector, TUC, GEA, CSOs, FBOs,
		4.6 Monitor implementation of M&E recommendations on the strategy.	M&E recommendations implemented.	No. of M&E recommendations implemented.	Minutes and Reports.		DPs.
5.	Strengthen and establish mechanisms of social dialogue on green jobs	5. 1 Engage tripartite plus on Green Jobs social dialogue mechanisms.	Tripartite plus representation engaged.	No. of tripartite plus representatives engaged.	Minutes, reports, pictures and videos.	Year 1-5	Lead: MELR Collaborators: MDAs, MMDAs,
	policies and initiatives with tripartite plus representation.	5.2 Organise social dialogue events on green jobs policies in collaboration with tripartite plus representatives.	Social dialogue events Organised.	No. of social dialogue events Organised.	Minutes, Reports, pictures and videos.		TUC, GEA, Private Sector, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
6.	Review, and where necessary, enhance	6.1 Evaluate the effectiveness of green interventions.	Green interventions evaluated.	No. of green interventions evaluated.	Evaluation Reports.	Year 3-5	Lead: MELR Collaborators: MME, NDPC,
	implementation mechanisms for programmes that promote	6.2 Organise workshops to review flagship green interventions for effectiveness.	Flagship green interventions reviewed.	No. of flagship green interventions reviewed.	Reports, minutes, pictures and Videos.	Year 1-5	MDAs, MMDAs, TUC, GEA, Private Sector,
	green jobs	6.3 Monitor implementation of recommendations for flagship green interventions.	Implementation of recommendations for flagship green interventions monitored.	No. of recommendations on flagship green interventions implemented.	Reports	Year 1-5	Academia, DPs.
7.	Develop and enhance plans to promote green jobs at the local level.	7.1 Incorporate national green jobs objectives in the Medium Term Plans of Regional Coordinating Councils and District Assemblies.	National Green Jobs objectives incorporated in regional and local medium term plans.	No. of District Assemblies and Regional Coordinating Councils with green jobs objective in their plans.	RCCs and MMDAs Medium Term Plans.	Year 1-2	Lead: NDPC Collaborators: MELR, MDAs, MMDAs, TUC, GEA, Private Sector, DPs.
		7.2 Advocate for green jobs interventions based on available information on green value chains.	Advocacy programmes on green jobs value chains interventions Organised.	No. of advocacy events Organised.	Reports, pictures and videos.	Year 1-5	Lead: MELR Collaborators: NDPC, EPA, MESTI,
		7.3 Advertise green job opportunities in the media.	Opportunities for green jobs advertised.	No. of advertisements conducted.	Media reports.		MOEn, MDAs, MMDAs, DPs Private Sector.

					Means of		
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	Responsibility
		7.4 Organise community	Community sensitization	No. of community	Reports, pictures and	Year 1 - 5	Lead: MELR
		sensitization and	and awareness creation	sensitization and awareness	videos.		
		awareness creation on	events organised.	creation events Organised.			Collaborators:
		green jobs.					NDPC, EPA,
							MESTI,
							MOEn, MDAs,
							MMDAs, DPs
						_	Private Sector.
		7.5 Facilitate re-design	Re-design of existing	No. of local interventions	List of re-designed		Lead: MDAs,
		of existing local level	interventions facilitated.	redesigned to reflect green	interventions.		MMDAs.
		intervention to adopt		jobs.			~
		green technologies and innovations.					Collaborators: MELR, Private
							Sectors, CSOs,
							Academia,
							DPs.
8.	Support	8.1 Develop	Green Jobs	Availability Green jobs	Green Jobs	Year 2-4	Lead: MELR
	accountability	accountability	Accountability	Accountability Framework.	Accountability		
	on promoting	framework for	Framework developed.		Framework.		Collaborators:
	green jobs.	promoting green jobs.					NDPC, MDAs,
		8.2 Train stakeholders/	Stakeholders/ actors	No. of stakeholders/actors	Reports, videos,		MMDAs,
		actors within sectors to	trained to monitor Green	trained.	pictures and list of		Private Sector,
		monitor Green Jobs	Jobs Accountability		actors.		DPs.
		Accountability	Framework.				
		Framework.					

2.3 Component Two (2): Green Skills Development

2.3.1 Description

The transition to environmentally friendly and social inclusive economy presupposes that there would be deliberate efforts by the relevant stakeholders,



particularly industry, to apply technologies, innovations and approaches that are environmentally sustainable and generate decent green jobs. This also suggests that business operators and workers in the green economy would acquire the skills requisite and expertise

needed to start, maintain and grow the productive sectors in the green and circular economy.

The application of *green technologies for business production* hinges on the identification of *specific professions and occupations* that are critical and required for the promotion and growth of the green economy. It is important that deliberate efforts are put in place for the development of such professions, occupations or skill sets to facilitate the production and marketing of green goods and services as well as the management of the green enterprises.

This component of the Ghana Green Jobs Programme has therefore been designed to facilitate the identification of skill set for green jobs and development of professions

or occupations in green economy to enable individuals and groups start and manage green businesses in Ghana. It involves strategic greening of existing skill sets and the development of entirely new green skills and professions to respond to potentials in the green economy.

This component focuses on developing



an observatory as part of the Ghana Labour Market Information System to enable Government and stakeholders anticipate future green skills demands and institute proactive measures to develop those critical skill sets and professions required by the green and circular economy in Ghana.

The observatory would conduct periodic scan of the green economy and identify the skills required so that training institutions would train individuals and groups to acquire the skills to enable them take advantage of job opportunities in the green economy. This is required to ensure that Ghana is able to develop the pool of skills needed for the green economy to thrive. Again, it involves the acquisition and provision of the appropriate training tools, workshops, curriculum and resources centres capable of delivering the green skills as well as training and retraining of teachers or instructors.

Once the skill sets are developed, appropriate steps would be taken to ensure that skill development translates into self and wage employment. Those interested in self-employment would be assisted to go through the rudiments of business development or entrepreneurship training and supported with business development services, including incubation, start-ups and access to capital finance. As part of the entrepreneurship training, beneficiaries would be encouraged to form cooperative societies to enable them pool resources and take advantage of the integral benefits of cooperatives. Others seeking to be engaged in wage/salary employment would be registered on the various labour market platforms, including GLMIS, and supported to locate job opportunities appropriate for the green skills that they possess.

The Green Skills Development Component would facilitate the provision of the necessary tools, teaching and learning materials for the delivery of skills in green job in the following economic sectors subject to further studies, consultations, collaborations and cooperation:

- 1. Clean and Renewable Energy
- 2. Agriculture, Forestry and Fisheries
- 3. Waste Management and Recycling
- 4. Construction
- 5. Nature and Eco-tourism
- 6. Efficiency Technologies for Energy and Water Conservation
- 7. Finance

There would also be awareness creation of officials working in public administration, entrepreneurship development, finance, etc., to enable them provide the needed support (including financing) to green entrepreneurs.

In order to achieve these expected outcomes, there is the need for extensive stakeholder consultations, structural adjustment of training, reprioritisation, sensitisation and awareness creation, as well as most importantly investment.

2.3.2 Objective

The objective of the Green Skills Development Component is "to develop green employable skills, particularly for the youth, women and PWDs to take advantage of existing and emerging green jobs potential".

2.3.3 Expected Key Result

The key result of the "Green Skills Development Component" is to ensure that there is "adequate supply of green skill sets, professionals and occupations necessary for the growth of the green economy in Ghana, considering gender needs".

2.3.4. Stakeholder Analysis

No.	Stakeholder	Threat	Opportunities	Role
1.	Ministry of	There is the	Green education	MOE has policy
	Education	possibility of	and training can	oversight over
	(MOE)	excessive	be	education and
		bureaucratic	mainstreamed	training.
		hurdles for the	in the existing	
		development of	educational	
		green curricula.	system.	
2.	Ministry of	Existing	MOTI has	MOTI has policy
	Trade and	industrialisation	structures for	oversight over
	Industry	and economic	the	entrepreneurial
	(MOTI)	transformation	development of	skills
		policies focus	businesses and	development.
		largely on	the facilitation	
		conventional	of commerce.	
		enterprises.		

Table 3: Stakeholders Analysis for Component Two (2)

No.	Stakeholder	Threat	Opportunities	Role
3.	Ministry of	Inadequate funding	MESTI has	MESTI is
	Environment,	of technological	structures to	responsible for
	Science,	development	facilitate	environmental
	Technology	initiatives and	training in the	sustainability and
	and	training.	development of	promotion of
	Innovation		technologies	green
	(MESTI)		and	technologies and
			innovations.	innovations.
4.	Ministry of	Current fiscal	MOF has	MOF has
	Finance	constraints may not	oversight on	oversight on the
	(MOF)	allow for increased	annual national	management of
		budgetary	budgets. MOF	fiscal and
		allocation for the	may put in	economic
		development of	place fiscal	policies. MOF
		green skills.	policies to	has the mandate
			favour green	to direct national
			skills	development
			development.	financing.
5.	Ministry of	Weak collaboration	MOEn	The Ministry of
	Energy	and cooperation	implements	Energy is
	(MoEn)	from other actors.	training	responsible
			programmes for	training in the
			private sector	renewable energy
			actors in the	sub-sector.
			renewable	
			energy sub-	
			sector.	
6.	Ministry of	Overlap	MSWR has	MSWR has
	Sanitation and	responsibility of	capacity to	policy oversight
	Water	MSWR and District	support	on WASH
	Resources	Assemblies.	education and	policies and
	(MSWR)		training	expected to work
			programmes in	with other
			the WASH	institutions to
			sector.	address issues
				related to WASH.

No.	Stakeholder	Threat	Opportunities	Role	
7.	Ministry of Works and Housing (MWH)	Limited advocacy and sectoral initiatives for training.in green construction.	MWH is reviewing the Building Regulations to reflect green housing requirements.	MWH would provide information on training needs based on the standards for green.	
8.	Ministry of Employment and Labour Relations (MELR)	Inadequate labour market information on green skills to informed training green skills training initiatives.	MELR is developing a web-based Labour Market Information System.	MELR is responsible for the coordination of employment opportunities and active labour market policies.	
9.	Ministry of Business Development (MOBD)	MOBD may not have adequate funding to support all green enterprises.	MOBD has mandate to provide business development services, including training.	MOBD is responsible for promoting private sector growth through specific business development interventions.	
10.	Ministry of Food and Agriculture (MOFA)	High initial cost of green agriculture technologies, products and services.	MOFA is implementing some green technologies and innovation and could support green skills training initiatives.	MOFA would provide information in skills demands by existing and emerging green technologies to inform training programmes.	

No.	Stakeholder	Threat	Opportunities	Role
11.	Ministry of Tourism, Arts and Culture (MoTAC)	Depletion of vegetation cover and disruption in the eco-system.	MoTAC has plans to revamp the Tourism Sector for income generation and job creation.	MoTAC is responsible for developing all aspects of the tourism sector to improve livelihoods and decent job creation.
12.	Ministry of Gender, Children and Social Protection (MGCSP)	Climate change and environmental degradation impact negatively on the livelihoods of the vulnerable in society, particularly the youth, women and PWDs.	MGCSP implements initiatives to provide safety net for the vulnerable in society.	MGCSP is responsible to adopt green skills approaches develop alternative livelihoods for the vulnerable.
13.	Ministry of Lands and Natural Resources (MLNR)	Rapid environmental degradation and insufficient mobilisation of local human resources to address the issues.	The teeming youth, including women can be mobilised into labour-intensive projects for the protection of the eco-system.	MLNR is responsible for the mobilisation of the necessary human resources for the protection and conservation of the eco-system.
14.	Ministry of Local Government and Rural Development (MLGRD)	Inadequate support at the local level to support green skills development initiatives.	The National LED Policy provides for the provision of skills training to support local development.	MLGRD is responsible to coordinate implementation of all aspects of the National LED Policy.

No.	Stakeholder	Threat	Opportunities	Role
15.	Council for	Inadequate	The new TVET	COTVET is
	Technical,	infrastructure at	law gives	responsible to
	Vocational	TVET institutions	COTVET an	lead
	Education and	for innovative skills	enhanced	implementation
	Training	training.	oversight over	of this component
	(COTVET).		all TVET	by streamlining
			institutions.	green skills
				training in every
				aspect of TVET.
16.	National	Limited resources	NBSSI has	NBSSI is
	Board for	to support green	structures for	responsible for
	Small Scale	skills in enterprise	the	improving the
	Industries	development across	development of	competitiveness
	(NBSSI)	the sectors.	small	of Micro, Small
			enterprises and	and Medium
			may support the	enterprises
			delivery of	(MSMEs)
			green skills.	through green
				skills training.
17.	National	Limited focus on	The National	NYA coordinates
	Youth	the provision of	Youth Policy	green skills
	Authority	green skills	recognizes the	training initiatives
	(NYA)	training.	need for green	for economic
			skills for	empowerment of
			economic	the youth at all
			empowerment	levels.
			of the youth.	
18.	Department of	Insufficient	DOC has	DOC may
	Cooperatives	information on	structures at	incorporate green
	(DOC)	green initiatives for	national and	skills training as
		job creation.	subnational	part of its
			levels for the	mandatory
			development of	cooperative
			cooperatives	sensitization and
			societies.	education
				programmes.

No.	Stakeholder	Threat	Opportunities	Role
17.	Training Institutions	Training institutions may lack the requisite technology, teaching and learning materials to support the development of green skills.	There exist enough public and private training institutions that can be mobilized and supported to deliver specific training in green skills.	Public and Private Training Institutions support human resource development agenda by meeting skills demands.
18.	Municipal, Metropolitan and District Assemblies (MMDA)	Limited initiatives for local economic development promotion at the MMDA level.	The National L ED Policy that incorporates strategies on green jobs, including green skills development.	MMDAs are responsible to implement measures to support green skills development relevant to local economic activities.
19.	Development Partners (DPs)	Development Partners may pursue agenda different from the national greening agenda.	There is a large pool of funding available for the development of green skills under the control of DPs.	DPs are expected to support Government efforts in green skills training through the provision of technical and financial assistance.

2.3.5 Key Assumptions for Component Two (2)

Effective implementation of this component is based on the following assumptions:

- 1. All stakeholders would collaborate and cooperate for the implementation of activities under this component.
- 2. COTVET would lead the implementation of this component.
- 3. MELR would play the overall coordinating role.
- 4. Appropriate studies would be conducted to identify and map the requisite skill sets in all the sectors with inputs from the relevant institutions.
- 5. The list of types of green skills and professions required would be selected in consultation with the relevant actors.
- 6. The environmental scanning of green skills would involve stakeholders and focus on the needs of all the priority sectors.
- 7. The Ghana Labour Market Information System would be capable of hosting information on green skills available in Ghana.
- 8. Adequate funding would be mobilised to facilitate implementation of all component activities in a timely manner.
- 9. Training institutions would receive support in adjusting their teaching and learning structures to support effective training in green skills.
- 10. Curriculum development processes would not be prolonged by bureaucratic bottlenecks.
- 11. The required training material, including tools and manuals would be provided to facilitate the delivery of green skills.
- 12. Effective monitoring and evaluation systems would be put in place to ensure delivery of green skills to specifications and standards.
- 13. The link between green skills development, environmental policies and business development services, including incubation would be strengthened.

2.3.6 Implementation Arrangements for Component Two (2)

The Council for Technical, Vocational Education and Training (COTVET), under the policy oversight of the Ministry of Education (MOE), is the leading implementing agency of this component. As the apex body of TVET, COTVET is responsible for regulating all public and private technical and vocational training institutions in the country. This makes COTVET a strategic partner in the operationalisation of objective two of the programme. COTVET would ensure that technical and stakeholder consultations, including assessments, are organised to identify the skill needs of the green economy in Ghana. COTVET may engage consultants and researchers to conduct studies into the various sectors and identify the required green skills. The stakeholders include MDAs, MMDAs, existing green enterprises, organised labour, professional bodies, associations, among others. As a result of the needs assessments or evaluations, COTVET would develop green skills reports and recommendation papers for the review and development of TVET curricula. COTVET would institute measures for greening existing skills training programmes, identifying professions/ occupations and setting training standards for the training institutions.

The Ministry of Education, represented by COTVET, in collaboration with MELR would ensure that training institutions at all levels have created the appropriate training environment for trainees to receive training in green skills. In collaboration with Development Partners, both Ministries would ensure that training institutions are provided with the needed tools, training of trainers, teaching and learning materials to facilitate training and adherence to standards.

As the overall coordinator of the implementation of this strategy, MELR would ensure that training institutions have created the appropriate training environment for trainees to receive training in green skills.

MELR would ensure coordination of implementation by organising coordination meetings for stakeholders, conducting independent monitoring of green skills programmes and ensuring that there are linkages between green skills training and human resource needs of the green and circular economy. MELR would organise periodic performance review meetings with COTVET and training institutions to share monitoring data, institute corrective measures and ensure training is done in accordance with ILO green skills training standards. Continuous monitoring data and periodic evaluation results would be uploaded on the Ghana Labour Market Information System for the attention of policy makers, jobseekers, employers and training institutions.

In collaboration with Development Partners, both Ministries would ensure that training institutions are provided with the needed tools, curriculum, training of training, teaching and learning materials to facilitate training and adherence to standards. MOE, MELR and COTVET in collaboration with Development Partners would ensure that capacities for implementation are improved and adequate

resources are mobilized to facilitate timely implementation of activities outlined under this component.

2.3.6.1 Estimated Cost of Implementation

The estimated cost of developing assessing and conducting trainings to meet the green skills needs of Ghana in view of activities under component 2 is GHC 21,576,000.00, approximately USD 3,720,000.00.

Table 4: Component Two (2) Annual Workplan Matrix

Component 2: Green Jobs Skills Development Project

Objective 2: To develop green employable skills, particularly for the youth, to take advantage of current and future green jobs opportunities.

					Means of		
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	Responsibility
1.	Establish	1.1 Organise consultative	Consultative meetings on	No. of consultative	Consultative	Year 1	Lead: COTVET
	mechanisms to	meetings for relevant	green occupational	meetings on green	meeting reports.		
	assess and	sector skill	standards for skill bodies/	occupational standards	List of skill		Collaborators:
	monitor skill	bodies/councils to	councils organised.	organised for skills	bodies/ councils		MELR, TVET
	needs for green	discuss existing green		bodies/councils	consulted.		Service, Ghana
	jobs based on	occupational standards.					Hubs Network,
	sound labour	1.2 Conduct national	National green skills gap	Availability of	National Green	Year 1-2	Technical
	market	green skills gap	audit/analysis report	national of national	Skills Gaps		Universities,
	information	audit/analysis	generated.	green skills gap report.	Report.		TUC, GEA, AGI,
		1.3 Profile and conduct	Green skills need	Availability of TVET	TVET Green	Year 1-2	MDAs, MMDAs.
		green skills needs	assessment of TVET	Green Skills Needs	Skills Needs		Private Sector,
		assessment of TVET	institutions report	Assessment Report.	Assessment		CSOs, DPs.
		institutions	conducted.		Report.		
		1.4 Identify and develop	Demand-driven industry-	Availability of green	Training modules		
		green training	led green skills training	skills Training	and CBT		
		programmes relevant to	programs developed	modules, CBT	Materials		
		bridging the skills gap of	document	Materials and			
		industry		Certification			
				Mechanisms.			
		1.5 Organise green skills	Green skill stakeholder	No. of stakeholder	Workshop reports,		
		development stakeholder	consultation workshop	consultation workshop	pictures and		
		consultation meetings/	and meetings held.	and meetings	videos.		
		workshops.		workshops held.			

					Means of		
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	Responsibility
		1.6 Develop green skill profiles for viable green	Green skill profiles developed for viable value	No. of green skill profiles developed for	Registry of green skill profiles for	Year 1-2	Lead: COTVET
		value chains.	chains.	viable value chains.	viable value chains.		Collaborators: Academia, MDAs, MMDAs, Private Sector, DPs
		1.7 Develop national green skills charter.	National Green Skills charter developed.	National Green Skills Charter Available.	National Green Skills Charter.	Year 1-2	Lead: COTVET
		1.8 Institute mechanisms to monitor and assess skills needs for green jobs	Skills Monitoring and Evaluation mechanisms instituted.	No. of Skills Monitoring and Evaluation mechanisms instituted.	Monitoring and Evaluation Mechanism document.		Collaborators: MOE, Training Institutions, AGI, Private Sector, Academia, CSOs,
2	F		Course Chillerenit		Durant	Vers 1.2	DPs.
2.	Ensure policy coherence across skill development	2.1 Establish Green Skills Unit at COTVET	Green Skills unit established	Existence of Green Skills Unit at COTVET.	Document establishing Green Skills Unit	Year 1-2	Lead: COTVET Collaborators: MELR, MOE,
1	programmes, and environmental policies and	2.2 Integrate Green Skills goals in the operations of COTEVT.	Green Skills goals integrated in the operations of COTVET.	No. of COTVET interventions with greening objectives.	Reports.	-	TVET Service, MDAs, MMDAs, Private Sector, DPs.
	programmes	2.3 Organise training for TVET sector actors on green skills programming.	TVET sector actors trained on green skills programming.	No. of TVET sector actors trained on green skills.	Training attendance list		

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
	Strategy	2.4 Organise workshops and meetings for policy coherence interventions and skills development	Policy alignment meetings/ workshops Organised.	No. of Policy workshops/meetings Organised for policy coherence.	Workshop/ meeting reports.	Year 1 to 2	Responsionity
3.	Align qualification frameworks and	3.1 Update and align TVET Manuals with green skills requirements.	No. of manuals updated and aligned.	No. of Times Manual was updated.	Approved updated TVET Manuals.	Year 1	Lead: COTVET
	curricula to the skills needs for green jobs.	3.2 Conduct ToT based on updated CBT curricula for TVET Institutions.	ToT for TVET Institutions Conducted.	No. of trainers trained.	Certified green professional ToTs.	Year 1-2	Collaborators: MOF, MELR, TVET Service, MDAs, MMDAs,
		3.3 Retool TVET training centres with requisite green facilities and equipment.	TVET training centers retooled with requisite green facilities and equipment.	No. of TVET training centres retooled with green facilities and equipment.	Upgraded and revamped TVET centres with greening facilities.	Year 1-4	Private Sector, DPs.
		3.4 Develop green professional and occupational courses.	Green professional and occupation courses developed.	No. of green professional and occupational courses developed.	List of green professional and occupational courses.	Year 1-2	Lead: COTVET/ TVET Training Institutions
		3.5 Develop green skills curricula in collaboration with stakeholders, including the private sector actors	Green skills curricula developed.	No. of Green skills curricula developed.	Green skills curricula.	Year 1 -2	Collaborators: MELR, TVET Service, MDAs, MMDAs, Private Sector, DPs.
		3.6 Organise professional green skill training courses.	Professional green skills training courses organised	No. of professional green skills training courses organised.	Green Skills Training Reports.	Year 2-5	

					Means of		Responsibility
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	
		3.7 Organise green skills	Needs of vulnerable	No. of women, PWDs	Attendance lists	Year 1-5	Lead: COTEVT
		training sessions,	groups; women, PWDs and	and Indigents trained	Training Reports.		
		considering the needs of	indigents considered in	in green skills.	Pictures and		Collaborators:
		vulnerable groups; women,	green skills trainings.		Videos.		Training
		PWDs and indigents.					Institutions
4.	Ensure	4.1 Increase availability of	Availability to green skills	1. No. of vulnerable	Enrolment list.	Year 1-2	Lead: COTVET
	inclusive and	green training programmes	training expanded to rural	persons enrolled on			
	equal	to vulnerable groups.	communities and	green skills trainings.			Collaborators:
	access to Green		vulnerable groups.	2. No. of TVET			MELR,
	Training			centers admitting			MOGCSP,
	opportunities			vulnerable groups.			TVET, LD,
							Institutions,
		4.2 Conduct specialised	Specialised green training	No. of specialised	Enrolment list.	Year 1-5	NYA, YEA,
		green training programmes	programmes for vulnerable	green training	Training Reports.		MLGRD MDAs,
		for the vulnerable youth,	youth, women and PWDs	programmes organised	Pictures and		MMDAs, CSOs,
		women and PWDs.	conducted.	for the vulnerable.	videos.		FBOs, Private
							Sector, DPs.
		4.3 Collect and analyse	Gender disaggregated data	Availability of Gender	Reports	Year 1-5	
		gender disaggregated data	on green skills training	disaggregated data on			
		on green skills training	programmes produced.	green skills training			
		programmes.		programmes.			
		4.4 Identify prior learning	Green PL Recognition	Availability of Green	Green PL	Year 1 - 2	
		in green training and	Framework developed.	PL Recognition	Recognition		
		develop a green PL		Framework.	Framework.		
		Recognition Framework.					

					Means of		Responsibility
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	
		4.5 Implement recognition of prior learning approaches in good environmental and occupational health and	Recognition of Prior learning approaches implemented.	No. of approaches implemented for waste collectors.	Reports, pictures and videos.	Year 1-5	
		safety practices for waste- collectors 4.6 Implement training programmes to promote	Training programmes on green skills necessary for	No. of green training programmes necessary	Reports, minutes, pictures and	Year 2- 5	Lead: Academia
		green skills necessary for novelty, exploration and advancement in green technology.	novelty, exploration and advancement in green technology implemented.	for technological advancement implemented.	videos.		Collaborators: MDAs, MMDAs, Private Sector, DPs.
		4.7 Implement a special (inclusive) regime on quota for women, men and vulnerable groups in green training.	Special quota regime implemented.	No. of women, men and vulnerable groups engaged in green training opportunities	Records of women, men and vulnerable groups in green training opportunities.	Year 1- 5	Lead: MOGCSP Collaborators: NBSSI, COTVET, MMDAs, MDAs, Private Sector, CSOs, FBOs, DPs.
		4.8 Update existing manuals on green skills requirements with renewable energy and support for local employment benefits.	Green skills requirement manuals updated.	No. of existing manuals updated.	Copies of updated manual.	Year 1	Lead: MOEn Collaborators: NBSSI, MMDAs, MDAs, Private Sector, CSOs DPs.

NT	<u></u>	A			Means of	TT: C	Responsibility
No.	Strategy	Activities	Expected Outputs	Indicators	Verification	Timeframe	
5.	Prioritise	5.1 Review and Upgrade	Basic education curricula	Availability	Basic education	Year 1-3	Lead: MOE,
	environmental	existing basic education	upgraded to include	environmental	curricula.		
	sustainability	curricula to include	environmental	sustainability and			Collaborators:
	and green jobs	environmental	sustainability and green	green jobs contents in			COTVET, NVTI,
	in educational	sustainability and green	jobs.	Basic education			DICCES, GES,
	activities at the	jobs opportunities.		curricula.			MESTI, TVET
	Basic level						Training
	(Primary and	5.2 Organise refresher	Environmental	No. of teachers trained	Training reports,	Year 2-5	Institutions,
	JHS)	training on environmental	sustainability and green	by location and level.	participant lists		Private Sector,
		sustainability and green	jobs refresher training		pictures and		CSOs, DPs.
		jobs for teachers.	organised for teachers.		videos.		
		5.3 Organise awareness	Environmental	No. of environmental	Minutes, Reports,	Year 1-5	
		creation events for relevant	sustainability and green	sustainability and	pictures and		
		education sector actors on	jobs awareness creation	green jobs awareness	videos.		
		environmental	events organised.	creation events			
		sustainability and green		organised.			
		jobs.					
		5.4 Organise workshops	Training sessions on	No. of education sector	Training reports,	Year 1-5	
		and training sessions for	environmental	actors trained in	participant lists,		
		relevant education sector	sustainability and green	environmental	videos and		
		actors on environmental	jobs organised for	sustainability and	pictures.		
		sustainability and green	education sector actors.	green jobs.			
		jobs.					
		5.5 Establish	Environmental	No. of Environmental	Reports, pictures	Year 1-5	Lead: EPA
		environmental sustainable	Sustainability and Green	Sustainability and	and videos.		Collaborators:
		and green jobs resources	Jobs Centres established.	Green Centres.			MOF, MDAs,
		centres.					MMDAs, Private
							Sector, DPs.

2.4 Component 3: Green Enterprise Development and Markets Project

2.4.1 Description

The creation of jobs is an outcome of economic growth and development. The green

economy holds a lot of potential for economic growth that needs to be harnessed and developed for the generation of decent job opportunities for jobseekers, particularly the youth.

The production of environmentallyfriendly goods and services using green technologies and approaches such as climate smart agriculture, generation of



renewable energy, waste management, ecotourism, among others are some of the opportunities that the green economy can offer for job creation if the necessary enabling measures are put in place.

This component aims at strengthening the support systems for green enterprises to develop and grow. The supports systems include business development services such as training, start-ups, incubation and market facilitation. In view of the multisectoral nature of the green economy, this component would seek to map out existing interventions and services that support green enterprises towards the development of a strong and resilient green enterprises support system. It involves the development of esprit de corps among the leading sector agencies, accelerated entrepreneurship skills training, for example, in management principles, human



resources management, marketing, product packaging, finance book-keeping, management, integrated training in cooperatives, In among others. addition. incubation services, productivity enhancement training, competitive and market analysis focus. coaching and mentorship would be provided to ensure that the businesses are nurtured, monitored and supported to grow. Individuals and groups who benefit from green skills training programmes across the country would be supported with entrepreneurship and cooperative training in order to guide them to establish their own businesses.

These businesses may be established in energy efficiency, clean and renewable energy, waste management and recycling, manufacturing of bio-digestible materials, construction, water harvesting, and agriculture and landscaping as well as technological development. Existing green enterprises maybe also supported with business development services to enhance their resilience, growth and expansion for the creation of more decent green jobs.

As part of the business development Services to be provided to support green enterprises, green job entrepreneurs would be guided or supported to access financial resources to enable them conduct business activities. In cases where two or more individuals agree to work on a common business idea, they would be supported to form vibrant partnership or cooperatives in line with existing regulations.

In order to achieve the objective of this component, measures would be put in place to create the enabling environment that supports green enterprises growth and markets. The success of green enterprises is principally hinged on the availability of markets for green services and products. As part of the green enterprise development agenda, conscious efforts and practical measures would be implemented to promote green services and products. Where necessary, incentives such as tax reliefs and subsidies would be provided to cushion green enterprises to make them competitive on the market. Additional measures would also be place to whip up consumption levels for green services and products.

The Ministry of Trade and Industry (MOTI) would organise market and trade facilitation events and platforms, including fairs, signing of agreements, media campaigns, among others, to promote markets for green services and products produced in Ghana. Collaborations and partnerships between Ministries, Departments and Agencies would also be encouraged to shift from conventional goods, services and technologies to green or environmentally friendly ones.

2.4.2 Objective

This objective of this component is "to support the creation of green jobs across sectors through the promotion of sustainable and competitive green enterprises and markets."

2.4.3 Expected Key Result

The Green Enterprise Development Component is aimed at developing "competitive green enterprises across the sectors to facilitate the creation of decent green jobs, considering gender needs."

2.4.4 Stakeholder Analysis

No.	Stakeholder	Threat	Opportunities	Role
1.	Ministry of	Inadequate	MOTI is	MOTI
	Trade and	resources from	implementing	responsible for
	Industry	GOG sources may	Government	the promotion
	(MOTI)	limit the extent of	Economic	of industrial
		support for green	Transformation	development
		enterprise.	and	and trade
			Industrilisation	facilitation.
			Policies.	
2.	Ministry of	There are structural	MOFA has many	MOFA is
	Food and	challenges against	initiatives and	responsible for
	Agriculture	the adoption of	plans that can be	promoting agri-
	(MOFA)	environmentally	designed to focus	business for
		friendly	on green	improved
		technologies and	agriculture.	incomes and
		innovation in		food security.
		agriculture.		
3.	Ministry of	Limited application	MWH is	MWH is
	Works and	of environmentally	reviewing its	responsible for
	Housing	sustainable	Building	promoting
	(MWH)	technologies for	Regulations to	businesses in
		the delivery of	reflect the	green building

No.	Stakeholder	Threat	Opportunities	Role
		housing and other	application of	technologies
		works.	green building /	and innovations.
			sustainable	
			construction	
			technologies and	
			services.	
4.	Ministry of	Poor waste	Waste	MSWR is
	Sanitation and	management	management,	responsible for
	Water	practices and	sanitation and	addressing
	Resources	inefficient rural	water supply	WASH issues
	(MSWR)	water management	issues in the	through the
		systems.	communities	application of
			provide huge	innovation and
			avenues for	sustainable
			enterprises.	technologies.
5.	Ministry of	Inadequate funding	MESTI has the	MESTI is
	Environment,	of technological	structures to	responsible for
	Science,	development	support the	promoting
	Technology	initiative to support	private sector	environmentally
	and	business growth	with	friendly
	Innovation	and expansion.	environmentally	technologies
	(MESTI)		sustainable	and innovations
			technologies and	for economic
			innovations.	production.
6.	Ministry of	Limited support to	MoEn has a	MoEn is
	Energy	small scale private	Renewable	responsible for
	(MoEn)	sector operators in	Energy Master	the development
		green businesses.	Plan that aims to	of energy
			increase the	sources,
			proportion of	including clean
			renewable energy	and renewable
			to 1,363,630 MW	energy through
			in the national	private sector
			energy generation	support.
			mix.	

No.	Stakeholder	Threat	Opportunities	Role
7.	Ministry of	Government	MOBD is	MOBD is
	Business	realignment policy	implementing	responsible for
	Development	may render MOBD	start-up schemes	the development
	(MOBD)	defunct.	and green	of business
			interventions to	initiatives in all
			support private	sectors of the
			businesses.	economy
				including green
				business
				initiatives.
8.	Ministry of	Depletion of	MLNR is	MLNR is
	Lands and	vegetation cover	implementing	responsible for
	Natural	and destruction of	policies and	implementing
	Resources	the eco-system.	programmes	projects to
			aimed at	protect the
			protection the	vegetation cover
			eco-system from	and integrity of
			illegal activities.	the eco-system.
9.	Ministry of	Weak structures to	MELR has	MELR is
	Employment	coordinate decent	structures at the	responsible for
	and Labour	green jobs	national and	the overall
	Relations	initiatives in both	subnational levels	coordination of
	(MELR)	the private and	to coordinate	decent job
		public sectors.	support for	creation
			decent job	interventions
			creation.	across sectors.
10.	Council on	Lack of curriculum	COTVET has	COTVET is
	Technical,	focusing on the	bought into the	responsible for
	Vocational	delivering of green	greening agenda.	regulating the
	Education and	skills to support		TVET sector for
	Training	entrepreneurial		the delivery of
	(COTVET)	development.		green skills to
				support
				entrepreneurial
				development.

No.	Stakeholder	Threat	Opportunities	Role
11.	National	Limited resource to	NBSSI is	NBSSI supports
	Board for	provide the whole	routinely	the development
	Small Scale	range of BDS for	conducting	of
	Industries	green enterprise	entrepreneurship	entrepreneurship
	(NBSSI)	development.	training of	initiatives in
			MSMEs which	relevant
			can be refocused	industry skills.
			for green skills.	
12.	Ghana	Degradation of	Restoration of	GTA is
	Tourism	tourist attraction	tourist sites and	responsible for
	Authority	sites and depletion	protection of the	developing the
		of natural eco-	eco-system has	tourism sector
		system.	huge potentials	through
			for green	infrastructure
			enterprise	development
			development.	and protection
				of the eco-
				system.
13.	GRATIS	Limited focus on	GRATIS	GRATIS is
	Foundation	green technologies	Foundation is	responsible for
		and inadequate	specialised in	developing
		funding.	manufacturing	technologies
			industrial	and innovations
			machinery to	that meet the
			support	technological
			enterprises.	needs of green
				enterprises in
				Ghana.
14.	Council for	Limited funds to	CSIR supports	CSIR is
	Scientific	develop sustainable	industrial	responsible for
	Industrial	technologies and	advancement	developing
	Research	innovations for	through	technologies
	(CSIR)	green enterprise.	technological	and innovations
			research and	to support the
			development of	growth of green
			innovations.	businesses.

No.	Stakeholder	Threat	Opportunities	Role
15.	Department of Cooperatives (DOC)	Over concentration on conventional economic activities.	DOC is able to refocus structures at the national and subnational levels for cooperative development.	DOC is responsible for the development and regulation of green cooperatives in collaboration with other allied bodies.
16.	Metropolitan, Municipal and District Assemblies (MMDAs)	Poor orientation and capacity on local economic development strategies for local business growth.	MMDAs are required under the National LED Policy to institute business development measures.	MMDAs are responsible for district level governance and local economic development.
17.	Private Sector Entities	Inadequate incentives and support services for private enterprises in the green economy to grow.	There are private sector groups passionate about green sector development.	The private sector is responsible for investment in business plans for development.
18.	Youth Employment Agency (YEA)	Limited funding to expand youth employment interventions in all sectors.	YEA is implementing flagship youth employment programmes that may be refocused towards green jobs.	YEA Act mandates YEA to coordinate youth employment interventions in all sectors.

No.	Stakeholder	Threat	Opportunities	Role
18.	Development	Development	There is a large	DPs
	Partners	Partners (DPs) may	pool of funding	complement
		pursue an agenda	rsue an agenda for the	
		different from the	ferent from the development of	
		national	green enterprises	Government
		development	under the control	through the
		agenda or	of DPs.	provision of
		withdraw.		technical and
				financial
				assistance.

2.4.5 Key Assumptions for Component 3

Effective implementation of this component is based on the following assumptions:

- 1. All stakeholders would collaborate and cooperate throughout the processes of implementation.
- 2. Business development services respond to the needs of potential and existing entrepreneurs in green businesses.
- 3. Entrepreneurial training would be harmonised with employment and environmental policies.
- 4. Training institutions would receive the necessary tools, teaching and learning materials to aid skills transfer.
- 5. Business development services would be based on green enterprise labour needs.
- 6. MELR would play effective coordination of roles to harmonise delivery of business development services to address the demands of the labour market.
- 7. Government and private sector would partner to deliver the needed entrepreneurial training and business development services.
- 8. Adequate resources would be mobilised for entrepreneurial training and business development service delivery.
- 9. Green skills training would be linked with green enterprise development.
- 10. Cooperative education and training would be an integral part of skills training.
- 11. Green cooperatives would be formed to facilitate resource mobilisation and markets.

- 12. There would be adequate demand for green enterprise products and services.
- 13. Effective communication plan would be developed and implemented for the project.

2.4.6 Implementation Arrangements for Component Three (3)

The development of green enterprise is a multi-sectoral responsibility that needs to be coordinated and managed. MDAs, MMDAs, the Private Sector and Development Partners have critical roles to play to ensure that the enabling environment is created to incentivise private initiatives to develop into businesses for decent job creation.

In line with this multi-sectoral approach, the Ministry of Trade and Industry and its agencies, particularly NBSSI and GRATIS would play central roles in providing entrepreneurship development and market facilitation services. MOTI in collaboration with other MDAs, MMDAs and the Private Sectors would deliberately implement measures to create and promote markets for green services and products. In addition, MOTI would put in place and strengthen structures to support individuals and groups to nurture and develop enterprises in the green economy. This would be done in strong collaboration with other Ministries, Departments and Agencies that are relevant in the selected. The Ministries of Food and Agriculture, Energy, Sanitation and Water Resources, Environment, Science, Technology and Innovation as well as Works and Housing would cooperate with MoTI and NBSSI to provide the necessary technical backstopping that would promote the development of green enterprises.

The Ministry of Business Development (MOBD) would facilitate private business development through training and start-up. The MOBD in collaboration with keys stakeholders such as MoTI, NYA, YEA and NBSSI, among others, would make available to green enterprises under their mentorship, their business support services. In the same vein, the Micro and Small Loans Center (MASLOC) would form partnerships with MDAs to support entrepreneurship development by sourcing start-up beneficiaries from MDAs.

COTVET would also provide technical support to ensure that green skills training programmes and existing entrepreneurship training as well as business support services are harmonised for maximum impact on TVET trainees. In cases where entrepreneurs express interest to pool resources for the common purpose of growing a green enterprise, the Department of Cooperative in collaboration with allied bodies will facilitate the formation of joint businesses in all the sectors. In the interest of decent green jobs creation, the Ministry of Employment and Labour Relations would put in place the necessary coordination mechanisms to ensure that efforts towards developing green enterprises are sustainable and coherent to decent work standards. As the overall coordinator of decent job creation, MELR would develop a database of existing business development services and create a referral system to leverage the synergies for maximum. MELR would periodically monitor the referral system to ascertain the extent to which it is supporting green businesses.

Development Partners would provide the requisite technical and financial assistance to complement efforts of state agencies in the develop institutional and individual capacities for successful implementation of this component. Development Partners would also ensure incorporation of international good practices taking into account local conditions.

2.4.6.1 Estimated Cost of Implementation

The estimated cost for providing business support services for the growth of green enterprises as stipulated under component 3 is GHC 26,100,000.00, approximately USD 4,500,000.00.

Table 6: Component 3 Annual Workplan Matrix

Component 3: Green Enterprise Development

Objective: To Support the creation of green jobs opportunities across sectors through the promotion of sustainable and competitive
green enterprises and markets.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
1	Promote green	1.1 Organise	1. Financial	1. No. of	1. Minutes, pictures,	Year 1-5	Lead: MOF, BOG
	entrepreneurship	sensitisation and	institutions	financial	videos and reports of		
	development	awareness creation on	sensitised on the	institutions	meetings.		Collaborators:
	through access	prospects and	prospects of green	sensitised.			MELR,MOBD,
	to Business	profitability of green	enterprises.				MDAs, MMDAs,
	Development	enterprise in Ghana for					Ghana Association of
	Services	financial institutions.					Bankers
	including	1.2 Develop Green-	Green Enterprise	Availability	Green Enterprise	Year 1	Lead: NBSSI,
	finance, with	Enterprise-specific	Training Manuals/	of Green	Training Manuals/		
	special attention	Training manual/	Toolkit and	Entrepreneurs	Toolkits and		Collaborators:
	to the needs of	Toolkit and	Programmes	hip Training	Programmes.		DOC, MOBD,
	youth, women	Programmes that	developed.	Manuals and			MASLOC, YEA,
	and PWDs.	integrate cooperatives.		programmes.			MDAs, Private
		1.3 Organise green	Green	No. of green	Attendance sheets,	Year 1-5	Sector, DPs,
		entrepreneurship	entrepreneurship	entrepreneurs	minutes, Reports,		
		training based on sector	training organised.	hip training	pictures and videos.		
		specific demands and		organised.			
		national objectives					
		1.4 Conduct cooperative	Cooperative	No. of	Training Reports,	Year 1-5	Lead: DOC, Ghana
		training as part of Green	training	cooperative	participant list, pictures		Cooperative Council
		Entrepreneurship	incorporated in	training	and videos.		
		training programmes	Green	sessions			Collaborators:
			Entrepreneurship	conducted as			MDAs, MMDAs,
			trainings.	part of Green			Private Sector, DPs.
				ent. trainings.			

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		1.5 Register Green	Green Cooperative	No. of Green	List of registered	Year 2-5	Lead: DOC
		Cooperative Societies in	Societies	Cooperative	Green Cooperative		
		all sectors.	registered.	Societies	Societies.		Collaborators:
				registered.			MOTI, NBSSI,
		1.6 Organise	Cooperative	No. of	List of existing green		MOBD, MDAs,
		cooperative	sensitization and	existing	enterprises registered		MMDAs, Private
		sensitization and	training sessions	Green	as Cooperative		Sector, DPs.
		training sessions for	organised for	Enterprises	Societies.		
		existing green	existing green	converted			
		enterprises.	enterprises.	into			
				cooperatives.			
		1.7 Audit existing	Green cooperative	No. of Green	Cooperatives Audited	Year 1-5	Lead: DOC
		Green Cooperative	societies audited.	Cooperative	Reports.		
		Societies to ensure		Societies			Collaborators:
		compliance.		audited.			MDAs, Private
							Sector, DPs.
		1.8 Support non-	Non-cooperative	No. of Non-	Audited Reports.	Year 1-5	Lead: RGD
		cooperative Green	Green Enterprises	cooperative			
		Enterprises to be	audited.	audited Green			Collaborators:
		audited.		Enterprise.			MDAs, Priv. Sector
2.	Strengthen	2.1 Conduct industry	Green job value	Catalogue of	Catalogue of green	Year 1-5	Lead: MOTI
	green value	scan for different green	chain actors	green value	value chain actors.		
	chains to	value chain actors at the	catalogued.	chain actors.			Collaborators:
	maximize jobs	national and the local					MOBD, NBSSI,
	and income	levels.					DOC, MDAs,
	gains,	2.2 Organise awareness	Awareness creation	No. of	Minutes, Reports,		MMDAs, Private
	particularly for	creation programmes	programmes	awareness	pictures and videos.		Sector, DPs.
	those living in	for actors in the green	Organised.	programmes			
	poverty and	value chains.		Organised.			
	vulnerability.						

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		2.3 Organise green market linkages platforms and partnerships.	Green Market linkages and partnership platforms Organised.	No. of Green Market linkages and partnership platforms Organised.	Minutes, Reports, pictures and videos.	Year 2-5	Lead: MOTI Collaborators: Private Sector, MDAs, MMDAs, DPs.
		2.4 Organise fairs, expos, exhibitions and market promotions for green services and products.	Fairs, expos, exhibitions and market promotions organised.	No. of green market promotions, fairs and exhibitions organised.	Pictures, reports, videos and receipt of expos Organised.		Lead: Private Sector Collaborators: MELR, MOTI, MOFA, MDAs, MOBD, GIPC,
		2.5 Sign MOUs and trade agreements among the value chain actors to facilitate marketing of green services and products from Ghana.	Green MOUs and Trade agreements signed.	No. of MOUs and Trade agreements signed.	Reports		MMDAs
		2.6 Sign partnership with MDAs and MMDAs for the adoption of green approaches and innovations.	Partnerships signed with MDAs and MMDAs for the adoption of green approaches.	No. of Partnerships operational	Reports.		
		2.7 Facilitate operationalisation of MOUs, trade agreement and partnerships signed.	MOUs, Trade agreement and partnerships implemented	No. of MOUs, Trade agreements and partnerships.	Reports		

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		2.8 Provide incentives for the development of bio-digestible materials	Incentives for the promotion of bio- digestible materials	Types of incentives in force.	List of incentives. List of beneficiaries.	Year 1-5	Lead: MOF, MDAs, MMDAs
		and other specific green goods and services.	and other green goods and services operational				Collaborators: Private Sector, CSOs, FBOs, DPs
3.	Support access to green technologies, Business Development Services and	3.1 Review existing technological options available for green businesses.	Technological options available to green businesses reviewed.	No. of technological options available to green businesses	Green Technological Options Review Report.	Years 1-5 GRATIS, Collaborate MESTI, MC MOTI, MO MDAs, YEA MASLOC, J	Collaborators: MESTI, MOFA,
	finance to promote the adoption of cleaner production processes and technologies	3.2 Conduct training on the adoption of cleaner production processes.	Training on the adoption of cleaner production processes conducted.	No. of training on the adoption of cleaner production processes conducted.	Minutes, pictures, videos and training reports.		MDAs, YEA, MASLOC, MMDAs, Private Sector, DPs.
	and responsible labour practices by SMEs	3.3 Adopt existing Business Development Services (BDS) to respond to the needs of green enterprises.	Existing Business Development Services linked to Green Enterprises.	No. of Green Enterprises accessing existing BDS.	Catalogue of existing Business Development Services accessed by Green Enterprises.		
		3.4 Design and deliver green professional development training programmes for workers in the green sectors.	Professional training programmes for workers in the green sectors Organised.	1. No. of green professionals trained by types.	Attendance lists, Training Reports, Pictures and videos.		

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		3.5 Enrol potential green entrepreneurs into entrepreneurship training programmes.	Potential Green Entrepreneurs enrolled for training	No. of Potential Green Entrepreneurs enrolled for training	List of enrolment and list of participants.	Year 1-5	Lead: NBSSSI, MoGCSP, MELR Collaborators: MDAs, MMDAs, Private Sector, CSOs, DPs,
		3.6 Provide business support services, including incubation, as part of the entrepreneurship training package.	Business support services provided for green entrepreneurs	No. of Green Enterprises provided with BDS	List of Green Enterprises provided with BDS	Year 1-5	Lead: MOTI, NBSSI, MOBD, NYA, MASLOC, YEA, MDAs, MMDAs Collaborators: MELR Private Sector, DPs.
		 3.7 Develop green technologies and innovations and facilitate access to enterprises 3.8 Expand access to sustainable and climate- 	Green technologies and innovations developed for green enterprises Access to sustainable and	Catalogue of green technologies and innovations developed No. of farmers using	List of green technologies and innovations developed List of green enterprises accessing technologies / innovations. Database of farmers using climate-smart	Year 1-5	Lead: MESTI, GRATIS, CSIR Collaborators: MOFA, MOBD, MELR, MOTI, MMDAs, MDAs, Institutions of Higher Learning, Private
		smart agricultural practices and technologies to improve productivity & resilience of farmers	climate-smart agricultural practices and technologies expanded.	climate-smart technologies and practices.	technologies		Sector, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		3.9 Conduct nation- wide awareness campaigns to support adoption of green technologies and green enterprises.	Nation-wide awareness campaigns on green technologies and green enterprises conducted.	No. of nation- wide awareness campaigns conducted	Reports, list of Participants, Fliers, Banners, Posters, Pictures and Videos.	Year 1-5	Lead: MELR, EPA, MESTI Collaborators: Media, MDAs, MMDAs, CSOs, DPs.
4.	Align tax policies with employment and environmental objectives	4.1 Review and align existing tax policies to support green enterprises growth.	Existing tax policies aligned to green enterprises development.	Existence of tax policies that support green enterprises development.	Green supported Tax policies.	Year 1-5	Lead: MOF Collaborators: GRA, RDG, BOG, Financial Institutions, MELR, MDAs, MMDAs, Private
		4.2 Develop a green economy tax alignment mechanism on green enterprises.	Green economy Tax alignment mechanism developed.	Availability of Tax alignment mechanism.	Green economy tax alignment mechanism.		Sector, DPs.
		4.3 Create awareness on green enterprise responsive tax policies through seminars, conferences and expos	Seminars, conference and expos on green enterprise tax policies organised.	No. of seminars, conferences and expos organised on green enterprise responsive tax policies.	Reports, pictures and participants lists	Year 1-5	Lead: GIPC, MELR, MOF Collaborators: GRA, MDAs, MMDAs, Private Sector, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
5.	Orient public	5.1 Organise	Workshops and	No. of	Meeting reports,	Year 1-5	Lead: MWH, MRH,
5.	infrastructure	environmental	sensitisation	workshops/	pictures, videos and		MSW
	and employment	sustainability and	programmes on	sensitisation	list of participants.		
	programmes and	resilience workshops	environmental	programmes	not of participation		Collaborators:
	schemes to	for stakeholders in	sustainability for	on			MDAs, MMDAs,
	support	public infrastructure	Public	environment-			Private Sector, DPs.
	environmental	and employment	infrastructure and	tal			Thruce Sector, DTS.
	sustainability	intensive programmes/	employment	sustainability			
	and resilience	schemes.	intensive	for public			
		senemes.	programmes /	infrastructure			
			schemes organised.	organised.			
		5.2 Conduct green skills	Green skills needs	Availability	Skills Needs	Year 1-2	Lead: COTVET
		needs assessment	assessment on	of skills needs	Assessment Report	1 cai 1-2	
		relevant to public	environmental	reports.	Assessment Report		Collaborators:
		infrastructure and	sustainability and	reports.			MELR, NBSSI,
		employment	resilience				MWH, MRH, MSW
		programmes.	conducted				
		5.3 Develop a strong	Strong regulatory	No. of	Legislative Instruments	Year 1-5	Lead: EPA
		regulatory framework	framework on	Legislative	(LIs), Materials and	1 cal 1-3	Leau. EFA
		on environmental	environmental	Instruments	Certification		Collaborators:
					Mechanism		MESTI, MELR,
		sustainability and resilience.	sustainability and resilience	(LIs)			MDAs, Private
		resmence.		developed.	documents.		
		5 4 5	developed.	No. of	Denote al terrere 1	Xee 1.5	Sector, DPs.
		5.4 Enforce regulations on environmental	Regulations on		Reports, pictures and	Year 1-5	Lead: EPA
			environmental	environment-	videos.		
		sustainability and	sustainability and	tal			Collaborators:
		resilience.	resilience enforced.	sustainability			MESTI, MELR,
				and resilience			MDAs, Private
				enforcement			Sector, DPs.
				interventions.			

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
6.	Support innovation, research and development in green technology	 6.1 Conduct training on requisite skills necessary for innovation, research and development in green technology. 6.2 Establish a research support fund for green innovation, research and 	Training on requisite skills necessary for innovation, research and development conducted. Green research and innovation fund established.	No. of training on requisite skills conducted. Amount of green research fund	Minutes, reports and pictures of the training. Reports, List of beneficiary researchers.	Year 2-5	Lead: Training InstitutionsCollaborators: COTVET, NBSSI, Academia, MESTI, MOTI, MELR, MDAs, MMDAs, DPs, Private Sector
		technological development. 6.3 Create an accessible green research repository support for innovation, research and technological development.	Accessible research repository support established.	disbursed. No. of researchers who accessed repository support.	List of researchers supported. List of publications.	Year 1-3	Lead: MELR Collaborators: MDAs, MMDAs, Academia, DPs.
		6.4 Organise productivity enhancement interventions support to existing green enterprises to maximize job creation and income potentials.	Green enterprises supported in productivity enhancement.	No. of green enterprises that received productivity enhancement support.	Reports, pictures, videos and list of supported green enterprises.	Year 1-5	Lead: MOTI, MOBD Collaborators: MELR, MOTI, MOFA, MOBD, MESTI, MDPI, NBSSI, MDAs, MMDAs, Private Sector, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
7.	Introduce	7.1 Develop Payment	Environmental	No. of	Reports, revenues, list	Year 1-2	Lead: EPA
	Payment for	for Environmental	Services Payment	Environmenta	of Environmental		
	Environmental	Services (PES)	Schemes	1 Service	Services payment		Collaborators:
	Services system	schemes.	developed.	Payment	schemes.		MESTI, MOF,
				schemes			MDAs, MMDAs,
				operational.			Private Sector, CSOs,
		7.2 Promote value-	Investments in PES	Percentage	Budgets, catalogue of		FBOs, Academia,
		addition of	infrastructure and	change in	investments, pictures		DPs.
		environmental services	technology	PES	and videos.		
		and products through	promoted.	infrastructure			
		investments in		and			
		infrastructure and		technology			
		technology.		investments.			
		7.3 Promote the	Environmental	No. of	Pictures, videos and	Year 1-5	Lead: EPA
		business aspect of	Services providers	Environmen-	reports.		
		Environmental Services	networks	tal Service			Collaborators:
		system by building	developed.	providers			MELR, MESTI,
		strong Environmental		networks			MDAs, MMDAs,
		Service providers		developed.			PPA
		networks.					
		7.4 Develop and	Large-scale	No. of large-	List of policy	Year 1-5	Lead: EPA
		promote large-scale	adoption of policy	scale policy	instruments.		
		adoption of policy	instruments	instruments			Collaborators:
		instruments that will	developed and	developed			MELR, MESTI,
		regulate Environmental	promoted.	and			MDAs, MMDAs,
		Services pay system		promoted.			PPA
		tracking mechanism.					

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
8.	Introduce	8.1 Update existing	Existing	Availability	List of updated	Year 2	Lead: EPA
	environmental	environmental and	environmental and	of updated	environmental and		
	and employment	employment impact	employment impact	environmenta	employment impact		Collaborators:
	impact criteria	requirements in public	requirements	l and	criteria/ requirements.		MELR, MESTI,
	in public	procurement and	updated.	employment			MDAs, MMDAs,
	procurement	contracts.		impact			PPA
	and contracting			criteria.			
	on infrastructure	8.2 Implement updated	Updated	No. of public	List of selected		
	projects.	environmental and	environmental and	procurement	institutions using		
		labour criteria in public	labour criteria in	and contracts	updated criteria in		
		procurement and	public procurement	using updated	procurement on		
		contracts	and contracts	criteria.	infrastructure projects.		
			implemented.				
9.	Intensify and	9.1 Develop	Collaborations,	No. of	Reports, pictures and	Year 1-5	Lead: GIPC, MOF,
	encourage	collaboration,	partnerships and	collaborations	videos.		MOEn
	investments in	partnerships and	cooperatives in	, partnerships			
	renewable	cooperatives in the	renewable energy	and			Collaborators:
	energy	renewable energy	developed.	cooperatives			MOTI, MESTI,
		sector.		in renewable			MOFA MELR, DOC,
				energy.			MDAs, MMDAs,
		9.2 Sign MOUs and	MOUs and	No. of	List of MOU and		Private Sector, DPs
		agreements for the	agreements in	Renewable	Agreements in		
		development of	renewable energy	Energy	renewable energy.		
		renewable energy	signed.	MOUs and			
		projects.	-	Agreements			
				signed.			
		9.3 Facilitate the	MOUs and	No. of MOUs	Status Reports	1	
		operationalisation of	agreement	and	<u>^</u>		
		MOUs and agreements	implemented.	agreements			
		signed.		implemented.			

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		9.4 Implement attractive	Attractive packages	No. of	List of attractive		Lead: GIPC, MOF,
		packages that encourage	for renewable	attractive	employment oriented		MOEn
		investments in	energy investments	packages	renewable energy		
		renewable energy and	for local	implemented.	packages.		Collaborators:
		support local	employment				MOTI, MESTI,
		employment benefits.	benefits				MOFA MELR, DOC,
			implemented.				MDAs, MMDAs,
							Private Sector, DPs
10.	Strengthen	10.1 Increase	Availability and	No. of	List of farmers enrolled	Year 2-5	Lead: MOFA
	farmers'	availability and access	access to	farmers	on sustainable and		
	capacities on	of green training	sustainable and	enrolled on	climate-smart		Collaborators:
	sustainable and	programmes on	climate-smart	sustainable	agricultural skills		MDAs, MMDAs,
	climate-smart	sustainable and climate-	agricultural skills	agricultural	trainings.		Private Sector, DPs,
	agricultural	smart agricultural	training expanded	skills			CSOs
	practices to	practices to farmer	to farmer groups.	trainings.			
	support	groups.					
	improved land	10.2 Integrate support	Support packages	No. of	List of farmers		
	quality,	packages for improved	integrated into	farmers	supported.		
	agricultural	land quality,	green skills	provided with			
	productivity,	agricultural	training.	support as			
	resilience, and	productivity, resilience,		part of green			
	reduced	as part of green skills		skills training.			
	environmental	training.					
	impact.	10.3 Implement	Trainees enrolled	No. of	List of farmer learners	Year 1-5	Lead: COTVET
		established pathways to	onto sustainable	farmers	enrolled in sustainable		Collaborators:
		enable trainers from all	and climate-smart	enrolled.	and climate-smart		MOE, Private Sector,
		levels to enrol in	agricultural		agricultural practices.		Academia, DPs
		sustainable and climate-	practices and				
		smart agricultural	training				
		training progressively.	operational.				

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
11.	Promote investments in waste reduction, reuse and recycling	11.1 Conduct industry scans in waste management and water resources investment/partnership	Industry scan in Investment opportunities conducted.	Functional role of sector players and their priorities developed.	Catalogue of investment opportunities in waste management and water resources.	Year 1-2	Lead: GIPC/ MSWR Collaborators: MDAs, MMDAs, Private Sector, DPs.
		opportunities. 11.2 Publicise catalogue of waste reduction, reuse and recycling investment opportunities.	Catalogue of waste management and water resources investment opportunities publicised.	Existence of investment opportunities in waste management and water resources	Published Catalogue of investment opportunities in waste management and water resources.	Year 1 - 5	Lead: MOF, GIPC, MoEn Collaborators: MSWR, MESTI, MDAs, MMDAs, Private Sector, DPs.
		11.3 Organise awareness campaigns on waste reduction, opportunities in the circular economy through seminars, conferences and expos.	Waste management and sanitation awareness creation events Organised.	publicities. No. of awareness creation seminars, workshops, conferences organised.	List of seminars, workshops and conference reports.	Year 1-5	
12.	Create awareness on good environmental & occupational health and safety practices.	12.1 Train waste management workers in environmental and occupational safety and health standards.	Waste management workers trained in environmental and occupational health practices.	No. of waste management workers/ establishment s trained in OSH.	List of training sessions Organised, pictures, videos and attendance sheets.	Year 1-5	Lead: DFI Collaborators: MELR, MSWR, MDAs, MMDAs, Private Sector, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		12.2 Inspect environmental and occupational safety and health standards at waste management enterprises to enforce standards.	Green enterprises inspected.	No. of waste management enterprises inspected.	List of waste management enterprises inspected.	Year 1-5	Lead: DFI Collaborators: MELR, Private Sector
		12.3 Expand OSH inspection to cover green enterprises in all sectors.	OSH inspection expanded to all green enterprises.	No. of green enterprises inspected.	List of green enterprises inspected.	Year 1-5	_
13.	Promote green infrastructure development through advancement in technology,	13.1 Incorporate green building requirements and standards into the revised Building Regulations.	Green building requirements and standards incorporated in the revised Building Regulations.	Revised Building Regulations enacted.	Revised Building Regulations.	Year 1-5	Lead: MWH Collaborators: MELR, MDAs, MMDAs, Private Sector, CSOs
	innovation and standardization.	13.2 Design green building and construction framework	Green Building and Construction Framework developed	Availability of Green building and construction Framework	Green building and construction framework	Year 1	Lead: MWH Collaborators: MELR, MDAs, MMDAs, Private
		13.3 Incorporate green building and construction mechanism framework into the training curriculum for architectural engineering professionals	Training curriculum for architectural engineering professionals revised and operationalized	No. of training curricula revised and operationa- lized	Revised curricula and course modules.	Year 1-3	Sector, CSOs, Media, GIE, Academia.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		13.4 Develop	Green	No. of green	List of green		
		prototypes and models	infrastructure	infrastructure	infrastructure	Year 2-5	
		of green infrastructure	prototypes and	prototypes	prototypes and models		
		projects	models developed.	and models	developed.		
				developed.			
		13.5 Advertise green	Green	No. of	List of media houses	Year 1-5	
		infrastructure	infrastructure	advertisement	engaged and		
		prototypes, designs and	prototypes, designs	s placed.	advertisements.		
		models in international	and models				
		and local media.	advertised.				
		13.6 Create awareness	Green building and	No. of	List of events,	Year 1-5	
		on the green building	construction	awareness	Attendance sheets,		
		and construction	awareness created.	creation	pictures and videos.		
		mechanism through		seminars,			
		seminars, conferences		workshop,			
		and expos		meeting and			
				expos			
				organised.			

2.5 COMPONENT FOUR (4): GREEN ENTERPRISE FINANCING PROJECT

2.5.1 Description

An important aspect of business development in general and green enterprise development in particular is the extent to which entrepreneurs have access to



affordable business financing options. Research has shown that a major challenge facing entrepreneurs in Ghana is the high cost of enterprise financing due to lack of collateral and financial exclusion, particularly entrepreneurs. among young This has been а major disincentive to many entrepreneurs with great

business ideas from establishing and growing their potential businesses for economic growth and job creation.

This component is designed as an integral part of the Ghana Green Jobs Programme, to ensure that entrepreneurs, individuals and groups provided with green skills or trained in a green profession/occupation are supported with affordable financing to enable them establish the business potentials in the green economy.

The Green Enterprise Financing component aims at mobilising existing and potential public and private funding to make them accessible to green enterprises. These include start-ups, micro, small and large loan facilities as well as grants. In cases where the financial demands of a green enterprise idea cannot be met by the grant facilities or start-ups available, the necessary arrangements would be made to enable entrepreneurs access affordable commercial loan facilities. Again, in cases where a particular service rendered or product manufactured by a green enterprise is strategic for national development, arrangements would be made by Government to secure funding or abate the interest rate applicable to such an enterprise. Government through the Ministry of Finance and Bank of Ghana would also provide incentives such as low interest rates and tax incentives to promote green enterprises in strategic sectors. The Bank of Ghana may develop a framework and guidelines for private or commercial financial institutions to outline greening requirement for loan or financial facilities.

In addition, financing in-kind in terms of equipment, incubations services, technical training and other business development services would be mobilised under this component to mitigate the operational cost of green enterprises by the youth, to enable them expand operational capacity.

Over the years, the cooperative system has proved viable in the mobilisation of local resources when individuals consent to pool their resources in pursuit of common economy interests. In addition, it has been observed that start-ups that target individuals are more likely to be mismanaged than those provided through groups or cooperatives. The cooperative system has an integral mechanism of raising funds among members to support business operations within an established business management governance structure. In most cases, these cooperative businesses have proven to be profitable and sustainable compared to sole proprietorship.

In view of this, there would be a conscious effort to promote the principles of cooperatives among entrepreneurs who receive training in green skills or those who would acquire green professions/ occupations under this programme.

The aim of this component is therefore to identify, mobilise, develop and harmonise the utilization of all possible green enterprise funding and arrangements for effective management to achieve the expected key result.

2.5.2 Objective

The objective of this component is "to mobilise and facilitate access to sustainable funding for green enterprises through inter-sectoral approaches and cooperation".

2.5.3 Expected Key Result

The Green Enterprise Financing Project is aimed at ensuring that "adequate financial resources are mobilised and made accessible to green enterprises in all sectors to enable growth and expansion".

2.5.4 Stakeholder Analysis

Table 7 :	Stakeholders	Analysis	for Componen	t Four (4)
I abic / .	Stakenoluers	1 Ma 1y 515	ior componen	(+)

No.	Stakeholder	Threat	Opportunities	Role
1.	Ministry of	Shrinking fiscal	MOF has a Natural	The NRECC is
	Finance	space and	Resource,	established to
		competing	Environment and	avoid
		national needs.	climate change	duplication of
			(NRECC) unit to	efforts and to
			coordinate financing	distribute
			in the green	resources to
			economy.	where they are
				needed.
2.	Ministry of Food	Inadequate	Green approaches	MOFA is
	and Agriculture	funding to	are applicable for	responsible for
	(MOFA)	promote climate	the achievement	mobilising
		smart agriculture	food security goals	resources to
		and protection of	of MOFA.	support green
		the eco-system.		agri-businesses.
3.	Ministry of Trade	Existing	MOTI attracts	MOTI is
	and Industry	industrilisation	funding from	responsible for
	(MOTI)	and economic	various sources to	mobilising
		transformation	support	funding to
		policies have	industrilisation and	support the
		limited focus on	economic	implementation
		green enterprise	transformation	of
		development.	programmes.	industrilisation
				policies.
4.	Ministry of	Limited funding	MESTI has the	MESTI is
	Environment,	to support	mandate to ensure	responsible for
	Science,	technological	technological	developing
	Technology and	development for	advancement for	sustainable
	Innovation	green enterprises.	business	technologies
	(MESTI)		development.	and innovations
				for green
				businesses.

No.	Stakeholder	Threat	Opportunities	Role
5.	Ministry of Energy	Limited funding support to local renewable energy businesses.	Renewable energy generation is a priority of Government.	MoEn is responsible for increasing the proportion of renewable energy in the national energy generation mix.
6.	Ministry of Business Development	MOBD does not have the required volume of funds to promote green jobs.	MOBD has initiated some green business interventions that can be replicated in other sectors.	MOBD provides start- ups to businesses, including green business.
7.	Ministry of Employment and Labour Relations	MELR has no specific mechanism in place to monitor the mobilisation and utilisation of funds for green enterprises.	The National Employment Policy makes provisions for MELR to put in place mechanism for effective coordination.	MELR is responsible for the overall coordination of the National Green Jobs Strategy.
8.	Ghana Investment Promotion Centre	GIPC is not particularly promoting green investments opportunities in Ghana.	GIPC promotes investment opportunities and can be oriented to redirect investment promotion activities towards green.	GIPC is responsible for the promotion of investment opportunities in Ghana, including green businesses.

No.	Stakeholder	Threat	Opportunities	Role
9.	National Board for Small Scale Industries (NBSSI)	NBSSI facilitates entrepreneurship start-ups without any particular focus on green businesses.	NBSSI attracts funds for start-ups and incubation for the development of enterprises.	NBSSI is responsible for facilitating access to funds by enterprises as part of its enterprise development packages.
10.	Micro and Small Loans Centre (MASLOC)	MASLOC supports business funding requests without any particular consideration for green initiatives.	MASLOC controls significant amounts of business support funds that can be redirected to focus on green enterprises.	MASLOC is specialised in supporting individuals and groups to access business finance.
11.	Youth Employment Agency (YEA)	Limited focus on green enterprises.	YEA controls a significant amount of funds that can be reprogrammed for green business activities.	YEA implements job creation modules in accordance with provisions of the YEA Act.
12.	District Assembly Common Fund and IGF of MMDAs	Competing district developmental needs.	MMDAs can adjust application of DACF and IGF to support green enterprises/ projects	MMDAs are mandated to promote local economic development through PPPs.

No.	Stakeholder	Threat	Opportunities	Role
13.	Commercial Financial Institutions	High interest rate, high risks and unfavourable macroeconomic environment.	Commercial Financial Institutions are gradually drifting towards financing green initiatives	Commercial Financial Institutions should facilitate access to finance for green enterprises.
14.	Department of Cooperatives (DOC)	Limited focus on green enterprises.	The cooperative system has integral mechanisms that facilitate mobilisation of funds for businesses.	DOC should support green cooperatives to mobilise internal and external funds.
15.	Faith Based Organisations (FBOs)	Limited awareness of the benefits of green projects.	FBOs are able to mobilise funds from amongst members.	FBOs can be mobilised to establish green business ventures for job creation.
16.	Private Sector	Limited awareness on economic opportunities and income generating potentials in the green economy.	Sole proprietors have a huge pool of private funds that can be directed to green businesses through sustained awareness creation.	Private individuals and groups may take initiatives to invest in business opportunities for return.

No.	Stakeholder	Threat	Opportunities	Role
17.	Development	Development	DPs control huge	DPs
	Partners	Partners may	amounts of funds	complement
		pursue an agenda	that may be	development
		different from the	mobilised to support	efforts by
		national	green enterprises	Government
		development	development.	through
		agenda.		technical and
				financial
				assistance.
18.	Green Industrial	Green business	Green Industrial	Green
	Associations	development	Associations	Industrial
		bottlenecks.	generate funds from	Associations
			fees and levies.	may use their
				influences to
				mobilize
				affordable
				funds to support
				businesses of
				their members.

2.5.5. Key Assumptions for Component Four (4)

Effective implementation of this component is based on the following assumptions:

- 1. Existing green programmes and projects across the sectors would be harmonised to form the basis for further mobilisation of funds.
- 2. Public employment programmes would be re-engineered to focus on green enterprise development.
- 3. MELR would develop an effective mechanism to coordinate financial mobilisation and utilisation by MDAs and MMDAs towards green job creation.
- 4. Private partnership and international cooperation would be integral to green enterprise funding.
- 5. MOF would put in place frameworks and guidelines to facilitate mobilisation of funds in support of green businesses.

- 6. Ministry of Finance on behalf of Government would negotiate for affordable funding for green enterprise development from both bilateral and multilateral sources.
- 7. An enabling business environment, including incentives, would be implemented to support green businesses.
- 8. Bank of Ghana would guide commercial financial institutions to focus on green financing.
- 9. Cooperative development would be an integral part of green business promotion and development.

2.5.6 Implementation Arrangements for Component Four (4)

The funding sources for green enterprises broadly exist in the Public Sector, International Development Cooperation and the Private Sector. By virtue of the multi-sectorial approach to the development of green enterprises, various levels of funding are available at MDAs and MMDAs levels. Ministries, Departments and Agencies implement programmes and projects as part of their delivery on their core mandates. In the same vein, MMDAs deliver developmental goods and services that are produced through the application of green technologies and innovations. Occasionally, MDAs and MMDAs also collaborate with Development Partners to implement programmes and projects relevant to the green economy. MMDAs are expected to mobilise internally Generated Funds (IGF) to support the implementation of green enterprise promotion activities at the subnational level.

Ministries such as MOF, MOFA, MOTI, MESTI, MOBD, MoTCA, MWH and MSWR would put in place measures to strengthen their negotiation, mobilisation and implementation of interventions using green technologies and innovations. Likewise, Department and Agencies such as GIPC, GRATIS, CSR, MASLOC, NBSSI, GTA and YEA would focus their efforts towards the promotion of green enterprises.

As the lead implementing agency of this component, MOF would ensure that green financing is integrated with the national fiscal and economic policies. MOF would also develop frameworks to streamline the mobilisation and utilisation of green funds, particularly to support national strategic interventions. The Ministry would ensure that the enabling macroeconomic policies are implemented for green enterprises to thrive, particularly with regards to inflation and cost of doing business. MOF would play the financial coordinating role by identifying, mapping and harmonising all financial sources, both cash and in-kind. In collaboration with BOG, MOF would develop a database of all the available funding for green enterprises and monitor their utilisation. In partnership with MELR, MOF would also organise coordinating meetings with public and private agencies supporting green enterprise to ensure that fund mobilisation and utilisation mechanism are developed and strengthened.

The Bank of Ghana would develop guidelines and protocols to support the implementation of green financing arrangements by commercial financial institutions.

In order to facilitate the implementation of sectoral green enterprise development interventions, MDAs and MMDAs would forge partnerships with commercial financing institutions, other private entities, faith-based organisations and negotiate affordable financial terms to meet the needs of specific green business ventures. Under the National LED Policy, MMDAs would enter into green Public-Private Partners arrangements for the delivery of goods and services required by citizens of their localities. The Ministry of Finance would develop a general framework to guide negotiations in this regard.

The Department of Cooperatives would ensure that cooperative principles are incorporated in the organisation of green businesses through the formation of green cooperative societies for the mobilisation of local resources.

MELR would play the overall coordinating role to ensure effective implementation of all activities. MELR would co-chair coordinating meetings for this component with MOF to ensure that the utilisation of green funding is yielding the expected decent green job outcomes.

2.5.6.1 Estimated Cost of Implementation

The estimated cost of implementing activities under this component is estimated at GHC 24,360,000.00, approximately USD 4,200,000.00.

Table 8: Component 4 Annual Work plan Matrix

Component 4: Green Finance Project

Objective 4: To Mobilize and facilitate access to sustainable funding for green enterprises through inter-sectoral approaches and cooperation

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
1.	Include green	1.1 Develop an	Green financing	Availability of Green	Green financing	Year 1	Lead: MOF
	finance	inventory of green	requirements inventory	financing	requirement inventory.		
	objectives in	financing	developed.	requirement			Collaborators:
	sectoral	opportunities and		inventory.			BOG, MESTI,
	strategies	requirements.					MOBD, MOTI,
							MOFA, MELR,
		1.2 Develop an inventory	Local and international	Existence of Local	List of local and		NDPC, MDAs,
		of local and international	green financing	and International	international green		MMDAs,
		financing sources for	inventory developed.	Green Financing	financing sources.		Private Sector,
		green enterprises.		Sources Inventory.			DPs,
		1.3 Perform an inventory	Inventory of potential	No. of potential	List of available green		
		of potential finance	finance modes for	finance modes for	financing modes		
		modules for green	green businesses to	green businesses			
		businesses to access.	access conducted.				
		1.4 Develop Harmonised	Harmonised Green	Harmonised Green	Harmonised Green		
		Green Financing	Financing Framework	Financing framework	Financing Framework		
		Framework (HGFF).	developed.	available.			
		1.5 Develop general	HGFF operational	Availability of HGFF	HGFF operational		
		guidelines for the	Guidelines.	operational	guidelines.		
		operationalisation of	Guidennes.	guidelines.	guidelines.		
		HGFF.		Surdennes.			
		11011.					
L							

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
2.	Develop inter-sectoral green jobs	2.1 Incorporate objectives of Harmonised Green	Objectives of the Harmonised Green Financing Framework	No. of Sectorial Plans incorporating objectives of	List of Sectorial Plans with incorporating objectives of	Year 1	Lead: MOF Collaborators:
	financing plan in priority sectors	Financing Framework (HGFF) into Sectorial plans. 2.2 Develop sector specific green financing plans based on HGFF.	incorporated into sectorial plans. Sector specific Green Financing Plans developed.	Harmonised Green Financing Framework. No. of Sector specific Green Financing Plans	Harmonised Green Financing Framework. Sector Specific Green Financing Plans	Year 1	NDPC, MOTI, MOFA, MELR, MDAs, MMDAs, DPs Private Sector,
		2.3 Establish an inter- sectoral working group to coordinate implementation of the HGFF.	Inter-sectoral Working Group established.	Inter-sectoral Working Group functional	List of members Attendance sheets. Pictures and videos.	Year 1	
		2.4 Organise regular Working Group meetings on the implementation of the HGFF and specific Green Financing Plans.	Working Group meetings organised.	No. of Working Group meetings organised.	Reports, minutes, pictures, videos.	Year 1-5	
3.	Develop appropriate financing schemes for green enterprises and green jobs promotion.	3.1 Develop green enterprise financing schemes in line with the provisions of the Harmonised Green Financing Framework.	Green Enterprise financing schemes developed	No. of green enterprises financing schemes developed.	List of Green Enterprise Financing schemes	Year 1-5	Lead: MDAs Collaborators: MELR, MMDAs, Private Sector, DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		3.2 Develop/Review Guidelines for the managing and accessing of existing green enterprise funding at the various sector Ministries. 3.3 Monitor the	Guidelines for managing and accessing Green Enterprise funding developed/reviewed.	Availability of Guidelines for managing and accessing green enterprise funding. Availability of	Green Enterprise funding Management and Accessing Guidelines. Minutes/ Reports	Year 1	Lead: MOF Collaborating: BOG, MDAs, MMDAs, Private Sector, DPs.
		application of Guidelines for managing and accessing existing green enterprise funding.	Application of guidelines for the managing and accessing green enterprise funding monitored.	Availability of monitoring reports.	Monitoring Reports.	Year 1 - 5	DPS.
		3.4 Increase GOG budget allocation for the promotion and development of green enterprises.	GOG budget allocation for green enterprises increased	Percentage change in green budget allocations	 Annual Budget Ceilings Annual National Budgets. 	Year 1 - 5	Lead: MOF Collaborators: MDAs, MMDAs, Private Sector, DPs.
		3.5 Organise green enterprise financing fora at national and subnational levels.	Green Enterprise Financing fora Organised	No. of financing fora Organised	Minutes/ Reports of financing fora, videos, pictures	Year 1-5	Lead: MOF, GIPC Collaborating:
		3.6 Re-design existing public sector enterprise start-up schemes to focus on green enterprises	Existing public sector start-ups schemes redesigned to focus on green enterprises.	No. of redesigned policies in start-up schemes focusing on green enterprises.	List of public sector start-up schemes	Year 1 - 5	BOG, MOTI, MOBD, NDPC, MDAs, MMDAs, DPs, Private Sector

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		3.7 Promote investments in green enterprises in all sectors.	Green enterprise investment campaigns Organised.	No. of green investment campaigns Organised.	Adverts/ Reports	Year 1 - 5	Lead: MOF, GIPC Collaborating: BOG, MOTI, MOBD, NDPC, MDAs, MMDAs, DPs, Private Sector
4.	Identify opportunities for public- private partnerships in skills development programmes	 4.1 Develop a catalogue of PPP investment opportunities in the green skills development sector 4.2 Create awareness on PPP opportunities through seminars, conferences and expos 	Catalogue of PPP investment opportunities in green skills development sector developed Private sector sensitized on opportunities in green skills development programmes	No. of PPP investment opportunities in green skills identified No. of public and private sector players sensitized	Approved catalogue of investment opportunities Tailored seminars, conferences and expos Organised to create awareness, videos and pictures	Year 2	Private Sector Lead: MOTI Collaborators: MESTI, MOBD, GIPC, COTVET, MELR, MDAs, MMDAs, Private Sector,
		 4.3 Organise matchmaking B2B meetings for PPP actualization. 4.4 Conduct investments training in renewable energy for government 	Programmed Matchmaking B2B meetings Organised. Public employment promotion institutions trained on investments	No. of matchmaking B2B meetings organised. No. of public employment promotion	Reports, videos, pictures List of public employment promotion institutions trained;	Year 2-5 Year 1-5	Lead: MoEn Collaborators:
		sponsored employment promotion agencies.	in renewable energy.	institutions trained on investments in renewable energy.	Reports, Pictures and videos.		MDAs, MMDAs, Private Sector, DPs.

Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
Create the	5.1 Develop and revise	New policies developed	No. of policies	Green financing policy	Year 1-5	Lead: MOF,
enabling	policies to promote green	and existing policies	developed and	documents		BOG
environment	financing.	revised to promote	revised to promote			
for green jobs		green financing.	green financing.			Collaborators:
financing	5.2 Establish green jobs	Green jobs support	1. Availability of	List of green job		Financial
	support loans and grants	loans and grants	green jobs supports	support loans and		Institutions,
		established.	loans and grants	grants.		MOTI, MESTI,
			established.			MELR, Private
						Sector, DPs
			2. Amount of green			
			jobs support loans			
			and grants disbursed.			
	5.3 Build capacity of	Capacity of local	No. of financial	List of financial		
	local financial	financial institutions	institutions supported			
	institutions to foster	developed for green	to promote green	green business		
	green business financing.	business financing.	business financing.	financing.		
	5.4 Implement incentives	Incentives for the	1. No. of incentives	Annual Reports.		
	_ ^	promotion of green	implemented.			
	green business financing.	business financing				
		implemented.	2. No. of financial			
			institutions accessing			
			incentives.			
	5.5 Set up private sector	Private sector green	1. No. of private	List of private sector		
	green business financing	business financing	sector green business	green business	Year 1-3	
	schemes.	schemes set up	U U	financing schemes		
			2. Amount of private			
			sector green business			
			finance disbursed.			
	Create the enabling environment for green jobs	Create the enabling environment for green jobs5.1 Develop and revise policies to promote green financing.5.2 Establish green jobs support loans and grants5.3 Build capacity of local financial institutions to foster green business financing.5.4 Implement incentives 	Create the enabling environment for green jobs financing5.1 Develop and revise policies to promote green financing.New policies developed and existing policies revised to promote green financing.5.2 Establish green jobs support loans and grantsGreen jobs support loans and grantsGreen jobs support loans and grants5.3 Build capacity of local financial institutions to foster green business financing.Capacity of local financial institutions developed for green business financing.5.4 Implement incentives for the promotion of green business financing.Incentives for the promotion of green business financing5.5 Set up private sector green business financingPrivate sector green business financing	Create the enabling environment for green jobs financing5.1 Develop and revise policies to promote green financing.New policies developed and existing policies revised to promote green financing.No. of policies developed and revised to promote green financing.5.2 Establish green jobs support loans and grantsGreen jobs support loans and grants1. Availability of green jobs support loans and grants established.2. Amount of green jobs support loans and grants established.5.3 Build capacity of local financial institutions to foster green business financing.Capacity of local financial. financial.No. of financial institutions developed for green business financing.5.4 Implement incentives for the promotion of green business financing.Incentives for the promotion of green business financing.I. No. of incentives implemented.5.5 Set up private sector green business financing schemes.Private sector green business financing schemes set upI. No. of private sector green business financing schemes.	Create the enabling environment for green jobs5.1 Develop and revise policies to promote green financing.New policies developed and existing policies revised to promote green financing.No. of policies developed and revised to promote green financing.Green financing policy documents5.2 Establish green jobs financing5.2 Establish green jobs support loans and grantsGreen jobs support loans and grants established.1. Availability of green jobs supports loans and grants established.List of green job support loans and grants.5.3 Build capacity of local financial institutions to foster green business financing.Capacity of local financial. financial. institutions to foster green business financing.Capacity of local financial. financial. financial. institutions of of green business financing.List of financial institutions developed for green business financing.List of financial institutions green business financing.5.4 Implement incentives for the promotion of green business financing.Incentives for the promotion of green business financing.I. No. of financial institutions accessing incentives.Annual Reports.5.5 Set up private sector green business financing schemes.Private sector green business financing.I. No. of private sector green business financing schemes.List of private sector green business financing schemes.5.5 Set up private sector green business financing schemes.Private sector green business financing schemes set upI. No. of private sector green business financing schemes.List of private sector<	Create the enabling environment for green jobs5.1 Develop and revise policies to promote green inancing.New policies developed and existing policies arevised to promote green financing.No. of policies developed and revised to promote green financing.Green financing policy documentsYear 1- 55.2 Establish green jobs support loans and grants5.2 Establish green jobs support loans and grantsGreen jobs support loans and grants established.I. Availability of green jobs supports loans and grants established.List of green job support loans and grants.List of financial institutions promote green business financing.5.3 Build capacity of local financial institutions to foster green business financing.Capacity of local financing.Capacity of local financing.Capacity of local financial institutions understream business financing.List of financial institutions supports local financial institutions of ofset green business financing.I. No. of financial institutions accessing incentives.List of financial institutions accessing financing.5.4 Implement incentives for the promotion of green business financing.Private sector green business financingI. No. of private sector green business financial institutions accessing financing schemes.List of private sector green business financing schemes.5.5 Set up private sector green business financing schemes.Private sector green business financing schemes set upI. No. of private sector green business financing schemes.List of private sector green business financing schemes

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
		5.6 Implement institutional reforms that facilitate green enterprise development.	Institutional reforms supportive of green enterprises implemented.	No. of institutional reforms implemented.	Reports, pictures, videos. List of beneficiary institutions.	Year 1-5	Lead: MDAs/ MMDAs Collaborating:
							Private Sector, NGOs, DPs.
6.	Facilitate access to finance for smallholder farmers to	6.1 Conduct industry scan for smallholder financial sector investment/ partnership opportunities	Financial industry scan conducted	No. of smallholder green investment/ partnership opportunities identified	List of investment/ partnership opportunities published	Year 1- 5 Lead: MOI Collaborat MOF, GIPO	Lead: MOFA Collaborators: MOF, GIPC, MOTI, MOBD,
	improve productivity, resilience and environmental impacts	6.2 Develop a database of qualified farmers for investment opportunities in the green skills development sector.	Registry of qualified farmers developed	No. of qualified farmers registered.	List of qualified farmers.		MELR, MDAs, MMDAs, Private Sector, DPs
		6.3 Create awareness on green investment opportunities for smallholders through seminars, conferences and expos	Awareness on green job investment opportunities created	No. of tailored seminars, conferences and expos Organised	Seminar and conference reports and attendance list.	Year 1-5	Collaborators: MOF, MDAs, MMDAs, Private Sector,
		6.4 Develop insurance schemes/crop protection schemes for green enterprise in high risk sectors, including agriculture.	Green Enterprise Insurance schemes developed	No. of Green Enterprise Insurance schemes developed	List of schemes.		DPs.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
7.	Enhance protection of	7.1 Develop green job climate protection	Green Job Climate Protection Schemes for	No. of green jobs climate protection	Reports, Minutes, pictures, videos and	Year 1-5	Lead: MOFA
	smallholder	schemes for smallholders	smallholders	schemes developed.	reports of stakeholder		Collaborators:
	farmers	as part of the	developed.		meetings		MELR, MDAs,
	against	Harmonised Green					MMDAs,
	Climate	Finance Framework.					Private Sector,
	Change						DPs.
		7.2 Develop a national	Green job climate	Green job climate	Inauguration pictures	Year 1-2	Lead: MELR,
		green job climate	projection charter	projection charter.	and report.		EPA, MESTI,
		projection charter for	developed.				MOF
		safe environmental					
		protection practices.					Collaborators:
							MDAs,
							MMDAs,
							Private Sector, DPs.
							Drs.
		7.3 Develop and	Green job climate	Existence of national	Revised national work-	Year 2-3	Lead: NDPC
		inculcate national green	protection protocols	green job climate	related memos		
		job climate protection	developed and	protection protocols.			Collaborators:
		protocols into already	inculcated in already	No. of protection			MDAs,
		existing national work-	existing national work-	protocols inculcated			MMDAs, DPs.
		related policy memos	related memos	in national work-			
				related memos			

3. COMMUNICATION PLAN

This communication plan is to identify some of the critical issues that may affect implementation due to limited or lack of information on matters relating to green solutions. It has been developed in recognition of implementation issues that may be addressed through information sharing and constant interaction with stakeholders. It therefore addresses the following types of implementation issues, among others:

- Inadequate knowledge and information about the existing and potential opportunities of the green economy.
- Poor interaction and collaboration between stakeholders and the limited knowledge of the complementarity of interventions to achieve national green jobs objectives.
- Inadequate platforms to create linkages and partnerships among green enterprises and other actors.
- Limited information about existing green interventions in the public and private sectors and their relevance for the achievement of national objectives.
- Inadequate information about the existing green innovations and technologies and their accessibility by stakeholders.
- Inadequate media campaign to promote existing and potential green investment opportunities in Ghana.
- Poor appreciation of the role of the cooperative system to support green enterprises.
- Poor appreciation of climate change and the contribution of green solutions by the general public.
- Limited market and local taste for green services and products.

These communication issues have the potential to impact negatively on implementation and achievement of the objectives of this National Green Jobs Strategy if the necessary measures are not taken.

The objective of the communication component of the strategy is therefore aimed at identifying all the issues related to information sharing among stakeholders in order to create esprit de corps and facilitate implementation.

In view of this objective, this communication strategy is to create the required capacities to enable stakeholders identify information sharing and awareness creation issues, identify audiences, develop messages and implement events to bridge knowledge gaps in order to facilitate cooperation among stakeholders and implementation of all the programme activities.

Table 9 is a communication matrix that outlines some communication activities required to achieve the objective of the communication component of this National Green Jobs Strategy.

Table 9: Green Jobs Communication Plan

Objective: To facilitate information sharing among all actors for effective implementation of National Green Jobs Strategy.

No.	Strategy	Activities	Expected Outputs	Indicators	Means of Verification	Timeframe	Responsibility
1.	Facilitate the development and dissemination of information relevant to the implementation of the National Green Jobs	 1.1. Train Public Relations Officers of implementing agencies on the concept, relevance, importance and opportunities in the green economy. 1.2 Conduct scan to identify pertinent information gaps among 	Public Relations Officers trained on green jobs and the green economy. Information gaps identify	No. of Public Relations Officers trained on green jobs. Availability of a Report on Stakeholders'	List of participants, pictures, videos Report	Year 1-2 Year 1	Lead: MELR Collaborators: MDAs, MMDAs, TUC, GEA, Private Sector, DPs.
	Strategy.	stakeholders. 1.3 Develop a comprehensive Green Jobs Communication Plan.	Comprehensive Green Jobs Communication Plan developed.	Information Gap. Availability of Green Jobs Communication Plan.	Green Jobs Communication Plan	Year 1	-
		1.4 Develop key messages relevant to stakeholders.	Key messages on green jobs and green economy developed.	Availability of Green Jobs communication messages.	Green Jobs Communication Messages.	Year 1	-
		1.5 Develop effective feedback mechanisms among stakeholders.	Feedback mechanisms developed.	Feedback mechanisms functional	Feedback mechanisms	Year 1-5	

			Expected		Means of		
No.	Strategy	Activities	Outputs	Indicators	Verification	Timeframe	Responsibility
		1.6 Develop the requisite	IEC Materials	Types of IEC	IEC Materials	Year 1-5	Lead MELR
		Information, Education and	developed.	Materials			
		Communication (IECs)		developed.			Collaborators:
		materials relevant to each					MDAs,
		stakeholder.					MMDAs, TUC,
							GEA, Private
		1.7 Organise community	Community	No. of	Reports,	Year 1-5	Sector, DPs.
		events, durbars, workshops,	events, durbars,	communication	pictures,		
		media campaigns, fairs,	workshops, media	events	videos, minutes		
		other communication	campaigns, fairs	organised.			
		programmes to disseminate	etc organised.				
		messages.					
1		1.8 Incorporate feedback	Feedbacks	No. of projects	Reports,	Year 2-5	
		into the implementation of	incorporated into	with effective	Minutes and		
		the projects of the National	national green	communication	videos.		
		Green Jobs strategy.	jobs projects.	plans.			

4. MONITORING AND EVALUATION

MELR would develop a comprehensive Monitoring and Evaluation Framework to enable it track all aspects of this strategy and assess progress towards the achievement of the objectives of this strategy. MELR would develop the framework in strong collaboration with all stakeholders to enable them understand what is expected of them and ensure their active participation in monitoring and evaluate activities. This would include monitoring and evaluation of green jobs initiatives and programs at the subnational level. The M&E systems at the sub-national levels would report through MELR to the Green Jobs Focal Person or Secretariat, which is to be discussed and reviewed at the Inter-Ministerial Green Jobs Coordinating Meetings.

The strategic M&E Plan would focus on monitoring progress of the implementation of the strategy within time and cost structures; ascertaining whether resources have been efficiently used; assessing the adequacy of resources and budget allocations for the implementation of programme activities; evaluating all initiatives/programmes and projects to determine whether they meet the objectives and targets of the strategy, appraising positive impacts, challenges, and lessons learnt to inform policies and review of interventions.

The M&E would be carried out using a results framework developed to track inputs, outputs, outcomes, impacts for each of the key actions towards the achievement of the strategic objectives. The structure of the M&E would be developed to match the implementation of this strategy with clear processes outlined to measure the effectiveness, efficiency, economy, and compliance of the components.

Monitoring activities would be done with the aim of ensuring that there is timely completion of tasks as set out in the strategy and the institutional workplans using the available resources. On the other hand, the evaluation of the strategy would aim at measuring the impact of the strategy as well as define the degree of success or challenges in its formulation and implementation. Both processes would be conducted on periodic basis and reports made available for review and decision-making.

For effective functioning of the strategy, the M&E Plan would entail broader stakeholder engagement with Government, the Private Sector, NGOs, CSOs,

among others, so as to achieve a complete buy-in throughout the process of implementation and monitoring. Additionally, the M&E would focus on developing an institutional framework to effectively coordinate the system. The M&E will be done through obtaining regular updates from all implementing institutions as well as periodic field visits, physical verifications and quality assurance visits to green jobs programmes and projects on an established schedule.

ANNEX A: LIST OF SUGGESTED SECTORS FOR GREEN ENTERPRISE DEVELOPMENT AND JOB CREATION

A. Renewable Energy

- 1. Improved Cooking Stoves
- 2. Portable Solar Photovoltaic (PV) Appliances (2-12 Watt) for Lighting and Cellular Phone Charging
- 3. Solar Home Systems
- 4. Micro Hydro
- 5. Pico Hydro
- 6. Micro Wind
- 7. Biogas
- 8. Eco-charcoal
- 9. Solar Water Heater
- 10. Incentives to invest in Renewable Energy
- 11. Nuclear energy

B. Agriculture

- 1. Organic Fertilizers
- 2. Organic Pesticides
- 3. Eco-Labelling and Export
- 4. Water Harvesting and Drip Irrigation
- 5. Forestry, Tree planting, Erosion Control and Soil Management

C. Waste Management and Recycling

- 1. Collection, Sorting and Retail
- 2. Processing into Raw Materials and Products
- 3. Production of Handicraft and Consumer Goods
- 4. Transforming Organic Waste into Energy and Fertilizer

D. Construction

- 1. Natural Building Materials
- 2. Energy-efficient Construction Techniques

E. Ecotourism and Nature-based tourism

- 1. Tour Provider
- 2. Environmentally-friendly Hotels and Homestays
- 3. Organic and Local Food Sellers and Restaurants
- 4. Occupations in Eco-Tourism
- 5. Energy, Water and Material Efficiency in all types of Enterprises

ANNEX B	Technical	Oversight Team
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No.	Name	Institution
1.	Kizito Ballans	MELR
2.	Emma Ofori Agyemang	MELR
3.	Ernest Berko	MELR
4.	Camilla Roman	ILO
5.	Faycal Siddikou Boureima	ILO
6.	Gideon Mankralo	ILO
7.	Dr. Eric Twum	Consultant



