

**THE GOVERNMENT OF THE FEDERAL
DEMOCRATIC REPUBLIC OF ETHIOPIA**

ENVIRONMENTAL PROTECTION AUTHORITY



Environmental Management Programme of the Plan for Accelerated
Sustainable Development to Eradicate Poverty
2011-2015

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1. Introduction

The right to live in a clean and healthy environment is incorporated as one of the human rights under the Constitution of the Federal Democratic Republic of Ethiopia. Environmental protection organs have been established. Environmental units have been being established by the federal sectoral agencies. The Environmental Council, comprising of members drawn from various stakeholders, have been established. A Conservation Strategy and an Environmental Policy have been approved. The main multilateral environmental agreements have been ratified. Laws on Pollution Control, Impact Assessment, the establishment of environmental organs, Urban Waste Management and Biosafety have been issued. Regulations to prevent industrial pollution and emission have also been issued and environmental guidelines have been prepared.

Good practices have been obtained from the ongoing rural communities environmental management activities. Sound environmental management practices have been being undertaken by philanthropic organizations. Environmental impact assessment reports are being received and impacts evaluated prior to issuing a license to operate a major development initiative. Some industries have undertaken environmental audit on their own activities and prepared environmental management plans to reduce their respective emissions of pollutants. States of the environment reports have been issued twice. In general, since 1995, the efforts have been on the development of an environmental conservation system with the objective of ensuring sustainable development. The current environmental conservation activities are at an early stage of development. There are constraints ahead of us in ensuring the environmental sustainability of socio-economic development. Therefore, a lot more is required to ensure environmental sustainability, particularly in relation to the challenges that are posed by climate change on national development.

issues in the context of the currently most crucial national and international environmental variables, adaptation to the climate change that is being induced by atmospheric pollution through building the foundation for a climate change resilient carbon-neutral economy is the environmental planning focus for the next 5 years.

3. The Vision of the Environmental Protection Authority

Ensure that a participatory environmental management for sustainable development governs the use of environmental resources by the present and future generations in each sector at each administrative level.

4. Mission of the Environmental Protection Authority

Put in place an environmental management system that could support the national development efforts by avoiding duplication of efforts among stakeholders, promoting sustainable utilization of environmental resources and strengthening coordinated differentiated responsibilities through:

- Preparing the State of Environment Report;
- Development of environmental strategic plan;
- Formulation of environmental laws and standards;
- Provision of support for environmental regulatory bodies and implementers; and
- Undertaking monitoring and effectiveness evaluation of the environmental system in place.

5. Objective of the Environmental Protection Authority

The objective of the Authority is to formulate policies, strategies, laws and standards, which foster social and economic development in a manner that enhance the welfare of

6. The Main Accomplishments of the 2006-2010 Environmental Management Programme of the Plan for Accelerated Sustainable Development to Eradicate Poverty

The main accomplishments were the following:

- A rural environmental management planning manual has been produced to ensure gender equality and an all inclusive wellbeing. Using this manual, 1450 experts from all the Regions have been trained on how to develop their respective Woreda Environmental Management Plans and 116 have now been developed and are being implemented.
- A strategy has been developed and is being implemented and a proclamation has come into force for managing solid waste and reducing pollution. A manual for planning solid waste management programmes has been produced. Training has been given to 65 experts from urban administrations how to use the manual to plan and implement solid waste management in their respective urban areas.
- A manual has been prepared for developing a system of auditing and management of industrial pollutants. This manual has been used to help train 100 experts from factories representing various sectors and all Regional Environmental Protection offices.
- A National Implementation Plan of the Stockholm Convention on Persistent Organic Pollutants has been prepared as part of Ethiopia's fulfilling its obligations under this Convention, which is one of the environmental Conventions to which Ethiopia is a Party.
- A Regulation has been issued for containing pollutants that emanate from factories. The standards required for its implementation have been issued and the Regulation is

stakeholder portion of the public. Environmental Units have been established by each of 2 sectoral federal agencies.

- A serious effort has been made to use school environmental clubs and various mass media channels to raise awareness on environmental management that reflects gender equality.
- An environmental information network was meant to have been established to link up the Environmental Protection Authority with 14 federal level agencies and 4 Regional Governments. Of the planned linking activities, 80% have been completed and the remaining 20% will be accomplished in a few months.

Some Planned Activities that Have Not Been Accomplished

The following activities had been planned but have not been fully accomplished:

- Though the formulation and implementation of Woreda Management Plans was 125, only 116 have been accomplished and 9 are still pending;
- Though the development of a chemical management plan had been planned, this has been done only for the chemicals covered by Stockholm Convention;
- Guidelines for the functioning of Environmental Units in federal agencies have not been developed;
- Only 80% of the development of the planned Environmental Information Network has been finalized;
- An environmental protection awareness programme has as yet not been developed;

The reasons for the failure to complete the planned activities were limitations in finance and trained human resources.

Table 1 Main goals and outcomes

Goal	Output	Indicators	Planned	Achieved	Accomplishment
Improve the rural environment for gender equality and sustained livelihood.	Guideline of Wereda Environmental management	Number of Prepared guidelines	1	1	100
	Environmental management trainings provided	Number of experts trained	1450	1450	100
	Prepared Environmental management plan	Number of environmental Management Plan in the Wereda	125	116	92
	Implemented Wereda Environmental Management Plan	Number of Environmental Management Plans implemented in the "Weredas"	125	116	92
Improving solid waste management & Reducing pollution	Ratified & affected solid waste strategy & procedure	Number of ratified laws and strategies	1	1	100
	Environmentally sound solid waste Management implementation action plan manual	Number of trained experts/professionals	65	65	100
	Environmentally sound solid waste Management implementation action plan manual	Number of prepared manuals	1	1	100
		Number of trained manuals	1	1	100
	Prepared environmental system implementation manual	Number of prepared manuals	1	1	100
	National chemical management strategy & Action plan	Number of prepared action plans for Persistent Organic Pollutants (PoPs)	1	1	100
	Regulation for industrial pollution prevention	Number of prepared regulation for industries pollution prevention	1	1	100
Industrial emission standards	Number of prepared emission standards	8	8	100	
Bring about Rapid social & economic development where environmental suitability is developed & gender equality is enhanced	Development projects passed through the EIA System	Development projects passed through the EIA system in percent	100	100	100
		Number of prepared EIA guidelines	12	12	100
	Vigar that determines a procedural guideline for Environmental unit	Number of prepared vigars	1	0	0
		Number of established environmental units in sectors	13	2	
		Number of environmental performance report manual	2	0	0
	National document of capacity Building plan the gender equality	Number of prepared plan documents	1	1	100
Report document for the implementation of Action Plan to Combat Desertification	Number of Implementation report for NAPCD	1	1	50	

	Implemented Environmental Management Network	Implemented Environmental information Network in percent	100	60	60
		Number of prepared state of Environment	2	1	50
	Promote environmental awareness by incorporating gender issues in school environmental clubs through various media means	Prepared and implemented National Environmental awareness promotion Action plan in percent	100	0	0
		Prepared National Environment Awareness strategy in percent	100	10	10
		Number of prepared environmental clubs establishment manual	2	1	50
		Number of prepared environmental promotion materials	8	6	75
		Number of training provided for Regional environmental experts & journalists	8	8	100
		Number of transmitted environmental awareness programs through media	48	1	0.02

7. Problems Encountered

The main problems encountered in the sustainable management of Ethiopia's environment are the following:

- Capacity limitation in searching for helpful experiences and useful technologies;
- Failure of most of the federal agencies to establish Environmental Units;
- Failure of some Regional Governments to establish environmental protection offices;
- Inability of compile and disseminate the needed environmental information;
- Limitations in action for raising awareness on the management and sustainable use of the environment;
- Limitation in the activities on awareness raising on environmental management and the sustainable use of environmental resources.
- Limitation of financial resources for environmental management;

8. Sectors of Environmental Protection Focus in 2010-2014.

Building a carbon neutral and climate resilient economy and enforcement of existing environmental laws are the actions prioritized to be implemented within the plan period 2011 until 2015. In particular, capacity building is vital in order to enhance the on going effort to build a carbon neutral and climate resilient economy. The resources needed to build the required capacity can be obtained from existing or newly allocated financial resources by industrialized countries with the objective of providing financial support for offsetting their carbon dioxide emissions. This in turn requires an enabling environment to be created at all levels. Therefore, from this perspective, during 2011 to 2015 the focus of the plan are specified herein below

1. Generate baseline information in connection to the current environmental concern and predict the worst case scenario in the event when the business as usual approach

3. Prepare portfolio of good practices and technologies on environmental conservation; avail them to users and provide skill enhancement training to the concerned bodies in order to enhance their capacity for enhanced implementation,
4. Enhance capacity of public agencies, the private sector and community organizations to assess and obtain resources needed for the implementation of their respective environmental conservation activities from international sources and where possible mobilize and channel resources that are required to implement conservation activities
5. Convene consultative meetings and undertake experience sharing visits, prepare educational materials needed for public awareness as well as reward exceeding environmental performance through public disclosure programme with the objective of enhancing meaningful public participation for environmental conservation,
6. undertaking desk review and field assessment to evaluate environmental performance reports submitted by the concerned bodies and to verify their level of effectiveness
7. Issue professional competence standards to determine the competence of service providers in the area of environmental conservation and notify same to the concerned licensing agency
8. Adhere to the international conventions and protocols designed to protect the atmosphere and other components of the environment
9. Mainstream gender, children, youth, disability and old age affairs on environment conservation and development program.

9. Strategic Goals for Realizing the Vision of a Development that is Based on Environmental Sustainability

- 9.1. To enhance national capacity to mainstream actions required to build a carbon neutral and climate resilient economy in to development activities taking place at all levels starting from the lowest administrative unit; and commence their implementation from 2011 – 2015.

- b) Harmonize national policies, laws, strategies, plans, programmes and, in general, governmental documents with the dictate to nationally adapt to climate change as well as to globally mitigate climate change to the extent possible.
- c) The scientific identification of ways of adapting manufacturing industries and the infrastructure required for poverty eradication which is susceptible to climate change impacts, e.g. dams, roads, communication network, irrigation canals, power grid, and the formulation and implementation of actions to that effect by the respective responsible bodies starting from 2011.
- d) The evaluation of the susceptibility to climate change of 5 lakes, 5 wetlands, 3 river banks and the biological resources that they contain as well as the formulation and implementation of actions required for their adaptation to climate change starting from 2011.
- e) The determination by each Regional and City Government of targets that can be measured, reported and verified for the development of a carbon-neutral climate resilient economy during 2010-2015 in at least 30% of the lowest administrative units, and by 2011, the development and implementation of a system for technically and financially supporting professional associations and non-governmental, bilateral and multilateral organizations to help them support local communities in meeting their targets for adaptation to climate change.

9.2. To prepare a national system that enables to obtain new and additional support in order have a zero-net carbon emissions economy by 2025 through the enhancement of national capacity of the concerned bodies to generate carbon credits required for the diversification of renewable energy sources and enhancement of vegetation cover

- a) generate 8000 mega watt from renewable energy sources with the objective of enhancing development activities that do not entail atmospheric pollution by 2015
- b) generate and avail for market, at least, 35 million liters of ethanol and bio-diesel with the objective of satisfying energy demand from renewable sources while mitigating

- d) manage 2876 square Km of natural forests, 4390.96 square KM of deciduous forest, 60360 square KM of national parks, 51496 square KM of wetlands with the objective of mitigating emissions of atmospheric pollutants by 2015
- e) enhance agroforestry in 261840 square KM of land and application of compost to increase fertility of 40000 square KM of agricultural land while mitigating emissions of atmospheric pollutants by 2015
- f) recover methane from a total of 20 million cubic meter of deposited waste within existing or new landfills with the objective of mitigating emissions of atmospheric pollutants by 2015

9.3. To enhance the continued capacity of the environment to provide goods and services required by socio-economic development activities through the enforcement of and ensuring compliance with environmental laws starting from 2011

- a) Regional and federal municipalities ensure full compliance with the provisions of the Federal Urban Waste Management law
- b) Ensure full compliance of the concerned 8 categories of industries with the provisions of the law and emission standards issued to prevent industrial pollution
- c) ensure that environmental considerations are adequately mainstreamed into proposed development activities prior to issuing a license to operate for those 22 proposed development activities covered by the directives issued on Environmental impact assessment
- d) Prepare 5 new environmental conservation laws that will facilitate the implementation of the Environmental Policy of Ethiopia and submit them for approval
- e) writing and publishing 2015 State of the Ethiopia Environment Report that describes the 5 year environmental performance and effectiveness evaluation

The strategic goals described above will be achieved by the federal agencies, Regional

Table 2 Goals, the role of Federal Environmental Protection authority and other Implementing agencies

no.		The role of Federal Environmental Protection Authority	The Role of other Implementing Organization
<p>Goal 1 To enhance national capacity to mainstream actions required to build a carbon neutral and climate resilient economy development activities taking place at all levels starting from the lowest administrative unit; and commence their implementation from 2011 - 2015.</p>			
1.1	<ul style="list-style-type: none"> Prepare an Ethiopian Programme of Adaptation to Climate Change and implementation throughout the territory of Ethiopia starting from 2011 Harmonize national policies, laws, plans, programmes and, in general, governmental documents with the nationally adapt to climate change as well as to globally mitigate climate change to the extent possible 	<p>Prepare and avail for ratification national climate change adaptation packages of programmes and plans, or National climate change adaptation system</p> <p>Strategies, guidelines and procedural manual for relevant sector based on government documents</p> <p>Monitor activities and performance of the adoption of government documents to climate change adaptation at Federal, Regional and city Administration levels, evaluate performance reports at field and offices and submit annual performance and effectiveness report.</p> <p>Prepare seminars and workshops and provide training as well as create public environmental awareness on the prepared manual to incorporate government documents with climate change adaption.</p>	<p>Evaluate existing Federal sectoral governmental documents against the Ethiopian Programme of Adaptation to Climate Change to be issued by the EPA and take corrective measures accordingly</p> <p>Prepare regional and urban adaptation plan to climate change with the involvement of the concerned bodies; promote the preparation of concrete projects on adaptation to climate change and follow up their implementation</p> <p>Support owners of infrastructures and the concerned manufacturing industries in the preparation and implementation of climate change adaptation projects;</p>

		Ensure that gender issues are mainstreamed in the of climate change adaptation in government documents at regional and city administration level.	evaluate their performance and give advice to undertake corrective measures; as appropriate, submit periodic performance report.
1.2	The scientific identification of ways manufacturing industries and the infrastructure required for poverty eradication which is susceptible to climate change impacts roads, communication network, irrigation, power grid, and the formulation and implementation of actions to that respective responsible bodies starting	<p>of adapting that indicates the current status of vulnerability of infrastructures to climate change.</p> <p>Prepare guidelines and manual required for identification of level of vulnerability, actions to be taken to incorporate infrastructures with climate change effectivity. the</p> <p>Introduce best practices of selecting and determining those enable to fit infrastructure with climate seminars, experience sharing visits, practices and field demonstration.</p> <p>Develop and enhance the skill of project preparation of implementing agencies working in the adaptation of infrastructures to climate change to get extra undertake actions from various sources</p> <p>Monitor activities and performance of harmonizing infrastructures with climate change adaptation at Federal, Regional and city administration level, evaluate performance reports on field and in offices, and submit annual performance and effectiveness report</p>	<p>Ensure, prior to granting a license to implement such projects, whether the proposed infrastructure project is resilient to climate change or otherwise</p> <p>Support owners of infrastructures and the concerned manufacturing industries on the preparation and implementation of climate change adaptation projects; evaluate their performance and give advice to undertake corrective measures; as appropriate, submit periodic performance report.</p> <p>cost needed to</p> <p>infrastructures</p>
1.3	The evaluation of the susceptibility to climate change of 5 lakes, 5 wetlands, 3 river banks and the biological resources that they contain as well as the formulation and implementation of actions required for adaptation to climate change starting from 2011.	<p>Prepare the state of environment data on lakes, wetlands and river banks and</p> <p>Introduce procedural steps and implementation of actions those enable to identify plan and implementations actions , so that lakes, wetlands and river banks could be resistant to climate change</p>	<p>enhance capacity of communities, community organizations and the private sector at the lowest administrative level on the preparation and implementation of concrete projects to enhance resilience of lakes wetlands and river banks</p>

		<p>Introduce concerned stakeholders best practices or technologies that could enable lakes, wetlands and river banks resilient to climate change through demonstration, experiences sharing visits or practices and creating public awareness.</p> <p>Develop and enhance the skill or project preparation or concerned stakeholders to cover the extra cost needed for activities of adaptation of lakes, wetlands and river banks resistant to the negative impacts of climate change</p> <p>Introduce concerned stakeholders best practices or technologies that could enable lakes, wetlands and river banks resistant to climate change through demonstration, experience sharing visits or practices.</p> <p>Develop and enhance the skill of project preparation of concerned stakeholders to cover the extra cost needed for activities of adoption of lakes, wetlands and river banks resistant to the negative impacts of climate change.</p> <p>Monitor activities and performance accomplished on the adaptation of lakes, wetlands, river banks, and living resources to climate change impacts at Federal, regional and city Administration level, evaluate performance reports at field and in office, and submit annual performance and effectiveness report</p>	<p>Based on relevant guidelines, prepare portfolio of technologies and good practices required to enhance resilience of lakes, wetlands and river banks to climate change and avail it to communities, community organizations, the private sector and philanthropic organizations.</p>	<p>resilience</p>
1.4	<ul style="list-style-type: none"> The determination by each Regional and City Government of targets that determine measured, reported and verified for the development of a carbon-neutral resilient economy during 2010-2015 in at 	<p>Develop a methodology and agree with relevant stockholders that determine a measurable, reportable and verifiable target for the development of an economy that is carbon neutral and resilient to climate change by the lower administration</p>	<p>notify the EPA the target set to build a carbon neutral and climate resilient economy by each national regional state and city administration in a measureable, monitorable verifyable manner; and take</p>	<p>to build a carbon neutral and climate resilient economy by each national regional state and city administration in a measureable, monitorable verifyable manner; and take</p>

	<p>least 30% of the lowest administrative units by 2011,</p> <ul style="list-style-type: none"> The development and implementation of a system for technically and financially supporting professional associations and non-governmental, bilateral and multilateral organizations to help them support local communities meeting their target for adaptation to climate change. 	<p>With a view to developing an economy that is carbon neutral and financially sustainable to climate change, establish a national system and enable to solicit resources from national and international sources for the accomplishment of voluntarily set targets by regional or city administration and procure the resource to implementing rural and urban communities</p>	<p>all possible actions with the objective of meeting the targets</p> <p>Prepare portfolio of sectoral good practices and technologies required for building carbon neutral and climate resilient economy by the community and avail it through relevant regional or city administration agencies to the concerned community, community organizations, the private sector, philanthropic organizations and individuals. enhance capacity of the concerned communities at the lowest administrative level on the preparation, implementation, monitoring and evaluation of projects that could enable them to develop economy that is carbon neutral dependant and resistant to climate change and</p> <p>Strengthen regional environmental organs or sectoral environmental units with human resources, budget and equipment; submit periodic performance report.</p>	<p>objective of meeting the targets</p>
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	<p>Goal 2 To prepare a national system that enables to obtain new and additional support in order have a zero-net carbon emissions economy by 2025 through the enhancement of national capacity of the concerned bodies to generate carbon credits required for the diversification of renewable energy sources and enhancement of vegetation cover</p>			<p>economic</p>
<p>2.1</p>	<ul style="list-style-type: none"> generate 8000 mega watt from renewable energy sources with the objective of enhancing development activities that do not entail air pollution by 2015 generate and avail for market, at least, 35 million liter ethanol and bio-diesel with the objective of satisfying energy demand from renewable sources while mitigating emissions of atmospheric pollutants by 2015 reforest 2000 square km of degraded lands, lands affected by gully and establish 2500 square KM of forests with the objective of mitigating emissions of atmospheric pollutants by 2015 manage 2876 square km of natural forests, 4390.96 square KM of deciduous forest, 60360 square KM of national parks, 51496 square KM of wetlands with the objective of mitigating emissions of atmospheric pollutants by 2015 enhance agroforestry in 261840 square KM of land and application of compost to increase fertility of 40000 square KM of agricultural land while mitigating emissions of atmospheric pollutants by 	<p>Prepare the state of environment report on vegetation species that are suited to gain revenue from carbon trade.</p> <p>Proposed to introduce guidelines or manual to undertake need assessment of mitigation technologies of pollutant gases</p> <p>Introduce Ethiopia's mitigation investment capacity and prepare national system for the promotion of investment opportunities.</p> <p>Prepare seminars and workshops on mitigation trade; establish fields of cooperation to build the capacity of local professionals.</p> <p>Evaluate activities that are undertaken to mitigate atmospheric pollutants in Ethiopia, submit performance report.</p> <p>Proposed to undertake corrective measures or make corrective actions to be undertaken</p> <p>Create public awareness on Ethiopia's mitigation investment capacity and inform about National system on promotion of trade.</p>	<p>Undertake technology need assessment and prepare portfolio of mitigation technologies that describes the type, who possess them and preconditions to access them.</p> <p>Estimate the finance required to procure, install and operate the said mitigation equipment as well as to enhance the skill of professionals to use such equipment.</p> <p>Estimate the kinds and amount of emissions of pollutant gases in the event when the business as usual scenario continues and quantify the support needed and the credit that could be obtained through a market based approach.</p> <p>Prepare acceptable concrete projects that will be eligible for technological and financial support, negotiate with support providers or carbon credit buyers, oversee the utilization of support and implementation of projects as well as submit monitoring report.</p>	

	<p>2015</p> <ul style="list-style-type: none"> recover methane from a total of 20 million cubic meters of deposited waste within existing or new landfills with the objective of mitigating emissions of atmospheric pollutants by 2015 		Strengthen regional environmental protection organizations or federal sectoral environmental units by human resources, equipment and budget, submit performance report periodically,
<p>Goal 3 To enhance the continued capacity of the environment to provide goods and services required by socio-economic development activities through the enforcement of and ensuring compliance with environmental laws starting from 2011</p>			
3.1	<p>Regional and federal municipalities ensure full compliance with the provisions of the Federal Urban Waste Management law</p>	<p>Prepare the state of environment report on solid waste management.</p> <p>Based on the national environmental system, support in building the capacity of federal sector institutions, regional environmental protection organizations, philanthropic organizations associations, and the private sector that would enable them to monitor and evaluate the activities performed to attain the set goals.</p> <p>Based on the National environmental system ensure the implementation of goals set by federal sector institutions, regional environmental protection organizations, philanthropic organization associations and the private sector by monitoring and evaluation</p>	Strengthen the regional environmental protection organizations or federal sectoral environmental units with human resources, equipment and budget, submit performance report periodically.
3.2	<p>Ensure full compliance of the concerned categories of industries with the provisions of the law and emission standards issued to prevent industrial pollution</p>	<p>Prepare the state of environment report on the 8 categories of industries.</p> <p>Based on environmental systems, monitor the implementation of goals, and evaluate their effectiveness and support federal Sector institutions, regional environmental protection organizations, NGOs and the private sectors.</p>	

		Based on the national environmental system, support in building the capacity of federal sector institutions, regional environmental protection organizations, philanthropic organizations associations, and the private sector that would enable them to monitor and evaluate the activities performed to attain the set goals.	
3.3	Ensure that environmental considerations are adequately mainstreamed into proposed development activities prior to issuing a license to operate for those 22 proposed development activities covered by the directives issued on Environmental impact assessment	<p>Based on the national environmental system, support in building the capacity of federal sector institutions, regional environmental protection organizations, philanthropic organizations associations, and the private sector that would enable them to monitor and evaluate the activities performed to attain the set goals.</p> <p>Based on the environmental system, ensure the implantation of goals set by federal sector institutions, regional environmental protection organizations, philanthropic organizations associations and the private sector monitor and evaluate its effectiveness.</p>	
3.4	Prepare 5 new environmental conservation laws that will facilitate the implementation of the Environmental Policy of Ethiopia and submit them for approval	<p>Prepare 5 draft environmental conservation laws based on the national environmental system, support in building the capacity of federal sector institutions, regional environmental protection organizations, philanthropic organizations associations, and the private sector that would enable them to monitor and evaluate the activities performed to attain the set goals.</p> <p>Based on the environmental system, ensure the implementation of set goals by federal sector institutions, regional environmental protection organizations, philanthropic organizations/ associations, and the private sector; monitor and evaluate its effectiveness.</p>	

3.5	prepare and publish in 2015 State of the Ethiopian Environment Report that describes the 5 year environmental performance and evaluation	<p>Compile data on the current status of vulnerability to climate change, and on emission of pollutant gases and effectiveness measures</p> <p>Evaluate the effectiveness report of the activities of the development of an economy that is carbon neutral and resistant to climate change by verifying on field and in office, and compile 5 years report.</p> <p>By analyzing the 5 years reports, prepare the state of the environment that indicates the general achieved outcome on the protection of vulnerability to climate change and on the mitigation of emissions of pollutant gases and inform the public.</p>	
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Table 3. Details on to realize the vision of Ethiopia's environmentally sustainable development

No	Goal Achievement	Achievement indicator	Time Frame					Means of verification
			2011	2012	2013	2014	2015	
Goal 1.								
1	Preparation of national climate change adaptation action plan	Number of prepared National Climate Change adaptation action plan or national system documents	1	-	-	-	-	Evaluation Report
	The incorporation of actions those prevent the vulnerability of climate change in the major social and economic government documents in a sufficient manner; create capacities and favorable conditions at all levels so that the 5 years development plan be accomplished in climate resilient manner	-Number of prepared guidelines and manuals for adaptation of climate change for relevant sectoral government documents.	2	-	-	-	-	
		-Number of adaptation seminars & workshops conducted, number of trainings provided based on the manuals and guidelines on incorporating climate change adaptation in government documents	30	40	50	60	70	
		-Number of awareness creation forums on the manuals and guidelines prepared to incorporate climate change adaptation in government documents.	1	1	2	2	2	
	-Number of compiled reports through	1	1	1	1	1		

		field verification and desk review, annual performance of effectiveness, monitoring and evaluation of activities undertaken to incorporate climate change adaptation in government documents at federal, regional and city administration level.						
2	Enable favorable conditions to incorporate climate change adaptation actions in various existing and planned development processes to enhance and strengthen infrastructure services without hampering and causing liability	<p>-Number of guidelines and manuals prepared for preparation of projects used to incorporate required data, and to determine identification of the strategies of vulnerability for taking actions of adaptation.</p> <p>-Number of best practices introduced to select and determine technologies to incorporate infrastructures with climate change adaptation</p> <p>-Number of compiled reports on best practices of incorporating infrastructures into climate change adaptation that would be introduced to relevant stakeholders.</p> <p>-Number of trained people on project preparation to acquire the additional costs required to incorporate actions of climate change adaptation into infrastructures.</p>	2	-	-	-	-	Evaluation Report
			15	20	25	25	25	
			1	1	1	1	1	
			30	40	50	60	70	

3	Climate change adaptation measures on lakes, wetlands river banks and aquatic resources from 2011 onwards	<p>-Number of prepared information documents that indicate the states of existing lakes, wetlands and river banks.</p> <p>-Number of guidelines and standards which help to identify measures that enable lakes, wetlands and river banks to stay resistant to climate change and plan implementation strategies.</p> <p>-Numbers of lakes, wetlands and river banks that taken measures in order to adapt climate change.</p> <p>-Number of parties involved on best practices, or technologies, demonstration and experiences sharing visits, on the resilience of lakes, wetlands and river banks to climate change.</p> <p>-Number of parties who are introduced to technologies, experience sharing visits, practical trainings etc. to means of enabling lakes, wetlands and river banks resilient to climate change.</p> <p>-Number of parties who are capacitated in project design techniques for solidity funds</p>	1	1	1	1	1	Evaluation Report
			1					
			4	3	2	2	2	
			50	50	50	50	50	
			50	50	50	50	50	
			50	50	50	50	50	

		to cover the extra expenses required for the measures to be taken to enable lakes, wetlands and river banks resilient to climate change impacts.						
		-Number of monitoring, annual performance and effectiveness reports in attaining the measures taken for climate change adaptation of lakes, wetlands, and river banks with the aquatic resources in them at Federal , Regional and city administration levels.	1	1	1	1	2	
4	Setting of targets to build carbon neutral and climate resilient economy in regions and city administrations and the attainment of results through technological and financial supports Establishment of a system which creates favorable conditions for donors, bilateral and multilateral organizations and professional associations to achieve their goals in addressing the issue of climate change adaptation at the lower administration level from 2004 onwards.	- Number of agreed up on targets to build carbon neutral and climate resilient economy at the lower administration level. - Number of National system established for soliciting resources from international and local sources for the achievement of agreed upon targets in building carbon neutral economy at regional and city administration levels - Amount of financial support in million birr granted for transferring technology at the lowest administrative level to build carbon neutral economy - Number of manuals prepared for the need assessment of technology and best practices for climate change adaptation and mitigation of pollutant gas emission	1 1 100 1					Evaluation Report

		-Number of parties familiar with the manuals prepared for the need assessment of technology and best practices for climate change adaptation and mitigation of pollutant gas emission	50	50	50	50	50	
		-Number of manual prepared to set criteria and procedures for the recognition of best selected efforts made by the lower administrative levels.	1					
		-Number of monitoring, performance and effectiveness reports on the set target to create a carbon neutral economy at Federal, region and lower administrative levels.	1	1	1	1	2	
Goal 2								
1	The availability of national system that enables to obtain new and additional support in order to have a zero net carbon emission economy through the enhancement of national capacity of the concerned bodies to generate carbon credits required for the diversification of renewable	Number of the state of environment report on vegetation species that are suited to gain revenue from carbon trade. Number of manuals/guideline prepared on the methodology of undertaking need assessment study on technologies to mitigate pollutant gases Number of parties who have become familiar with the need assessment technique manuals. Number of parties who have become familiar and skilled with the Ethiopia's mitigation investment capacity	1 1 50 50					Evaluation Report

	energy sources and enhancement of vegetation cover	<ul style="list-style-type: none"> -Number of National system developed to promote carbon trade in Ethiopia -Number of workshops and seminars conducted on mitigation trade. -Number of cooperation's established to enhance national capacities of experts. -Number of performance evaluation reports on the activities undertaken to mitigate pollutant gasses in Ethiopia. -Number of reports prepared on monitoring and verification of effectiveness of the results gained by the support provided to implement environmental systems. 	1						
			2	2	2	2	2	2	
			5	5	5	5	5	5	
			1	1	1	1	1	1	
			1	1	1	1	1	1	
Goal 3									
1	promote environmentally Sound solid waste management	<ul style="list-style-type: none"> - Number of the state of environment report on solid waste management. -Number of federal sector institutions, regional environmental protection organizations, NGOs and the private sectors which got support to implement the developed environmental systems. -Number of monitoring and evaluation reports on the results obtained form the supported environmental activities 	1	1	1	1	1	1	Evaluation Report
			50	75	100	125	200		
			1	1	1	1	2		

2	Prevent pollution caused by the 8 categories of industry	-Number of the state of environment report prepared on 8 categories of industries.	1	1	1	1	1	
		-Number of Federal sector agencies, regional environmental protection organizations, philanthropic organizations/ associations and the private sectors, which are supported to implement Environmental systems.	50	75	100	125	200	
		-Number licenses issued	52	75	100	125	200	
		-Number of prepared reports on monitoring and verification of effectiveness of the results gained by the support provided to implement environmental systems.	1	1	1	1	1	

3	Ensure the inclusion of issues of environmental concerns in development endeavors	<p>-Number of federal sector institutions, regional environmental protection organizations, philanthropic organizations/ associations& the private sectors which got support to implement the developed environmental systems</p> <p>- Number of reports prepared on monitoring and verification of effectiveness of the results gained by the support provided to implement environmental systems.</p>	100	75	100	125	200	Evaluation Report
4	Establishment of environmental conservation Systems which facilitate the implementation of Environmental policy & laws	<p>-Number of environmental conservation systems established to implement the policy and laws.</p> <p>-Number of awareness creation forums on environmental</p>	1	1	1	1	1	Evaluation Report

		conservation policy and laws.						
5	Publication and dissemination of the Ethiopian state of the environment report that indicates the effectiveness of measures taken to protect the environment and the steps that would be taken to make the performance of the next 5 year development plan into a higher level.	Published state of the environment report document	-	-	-	-	1	Evaluation Report

Table 4. Achievement

No	Goal Achievement	Achievement indicators	Time Frame					Means of Verification
			2011	2012	2013	2014	2015	
Goal 1								
	1.1 Availability of list of governmental documents which do not show the readiness to climate change vulnerability or aggravate vulnerability	Number of governmental documents	1	-	-	-	-	Evaluation Report
	1.2 Action plan on climate change adaptation	Action plan document	1	-	-	-	-	
	1.3 Preparation of Implementation manual and guidelines to incorporate climate change adaptations	Number of prepared manuals and guidelines	2	1	1	1	1	
	1.4 Seminars, workshops, trainings & promotional activities undertaken	Number of seminars, workshops, trainings conducted and awareness raising activities undertaken	1	1	1	1	1	
	1.5 The implementation of action plan	Number of monitoring report prepared	1	1	1	1	1	
	1.6 Preparation of document that indicate the current vulnerability status of infrastructures to climate change.	Number of the state of environmental report prepared	1	1	1	1	1	
	1.7 Preparation of manuals and guide lines to incorporate infrastructures to climate change adaptation	Number of manuals and guidelines prepared	2	1	1	1	1	

Goal Achievement	Achievement indicators	Time Frame					Means of verification
		2011	2012	2013	2014	2015	
1.8 <ul style="list-style-type: none"> Experience sharing activities and demonstrations that enable the selection and determination of technologies to harmonize infrastructures compiled best practices to harmonize infrastructures with climate change 	-Number of experience sharing and demonstration undertaken.	1	1	1	1	1	Evaluation Report
	-Number of experts who gains skill by the experience sharing and demonstrations.	50	50	50	50	50	
	-Number of compiled best practices	2	2	2	2		
1.9 Achievement of skills on steps and best practices for the incorporation of vulnerable infrastructure in climate change adaptation	Number of experts who gained skill through experience sharing and demonstrations	1	-	-	-	-	
1.10 Preparation of evaluation report on the monitoring activities undertaken to harmonize infrastructures in climate change adaptation at federal, regional and city administration on level	Number of reports on evaluation and monitoring of implementation.	1	1	1	1	1	
	Number of reports on effectiveness of implementation	1	1	1	1	1	
1.11 Preparation of the state of environment report on lakes, wetlands and river banks	Number of the state of the environment report document prepared	1	1	1	1	1	
1.12 preparation of procedural steps and implementation guidelines that would assist to identify actions, plan and implementation steps to enhance the resilient capacity of lakes, wetlands, and river banks to climate change	Number of prepared procedural steps and implementation guidelines	1	-	-	-	-	
1.13	Number of experience sharing undertaken	1	1	1	1	1	

<ul style="list-style-type: none"> • Experience sharing and demonstration undertaken to enable the selection and determination of technologies used to incorporate lakes, wetlands and river banks to climate change adaptations • Compiled best practices to harmonize lakes, wetlands and river banks, with climate change. 	Number of demonstration activities under taken	1	1	1	1	1	
	-Number of compiled best practices	2	2	2	2		
1.14 Preparation of evaluation report on monitoring of the implementation of activities to incorporate lakes, wetlands and river banks into climate change adaptation.	Number of monitoring and control reports	1	1	1	1	1	
	Number of annual reports on effectiveness of implementation	1	1	1	1	1	
1.15 Preparation of methodology to determine targets that are measurable, reportable and verifiable to build carbon neutral and climate resilient economy	Number of methodology documents prepared for decision making.						
1.16 preparations of systems that would enable philanthropist, bilateral and multilateral organizations, and professional associations working on environmental protection to assist adaptation action at lower administration level.	Number of prepared systems	1	-	-	-	-	
1.17 Provision of training for regional & city administration who request for capacity building, technological and financial support to set target to build carbon neutral and climate resilient economy in a measurable, reportable and verifiable	Number of trainings provided	1	1	1	1	1	
1.18 preparation of evaluation report on determination of targets and monitoring the activities undertaken to build carbon	Number of monitoring reports						

	neutral and climate resilient economy at federal, regional and city administration level.							
Goal 2								
	2.1 Preparation of technical need assessment manual on pollutant gases	Number of manual prepared	1	-	-	-	-	Evaluation Report
	2.2 Preparation of the state of the environment information on forest coverage	Number of documents prepared	1	1	-	-	-	
	2.3 Development of carbon trading investment and national mitigation system	Number of national mitigation system document prepared	1	-	-	-	-	
	2.4 Publicizing of National mitigation investment capacity and carbon trading investment system	Number of publicizing forums	1	1	1	1	1	
	2.5 Conducting workshop on carbon trading	Number of workshops conducted						
	2.6 Upgrading skill of professionals concerning establishment of cooperation on promoting carbon sale	Number of cooperations established	1	1	1	1	1	
	2.7 Evaluation of mitigation projects on pollutant gases	Number of evaluated projects	1	2	3	4	5	
	2.8 Obtaining support on carbon credit sale	Financial report on the support obtained	1	1	1	1	1	
Goal 3								
	3.1 Preparation of state of the environment information on solid waste management	Number of documents prepared	1	1	1	1	1	Evaluation Report
	3.2	Number of trainings provided	2	2	2	2	2	
	• Provision of trainings to stakeholders on improvement of solid waste management							
	• Provision of best practices to stakeholders on improvement of sold	-Number of compiled best practices	2	2	2	2	2	

	west management							
	3.3 Enhancement of public awareness to improve solid waste management	Number of awareness raising forums	1	1	1	1	1	Evaluation Report
	3.4 Evaluation of the implementation of activities to improve solid waste management	<ul style="list-style-type: none"> Number of monitoring and evaluation reports. Number of annual achievement report 	1 1	1 1	1 1	1 1	1 1	Evaluation Report
	3.5 Preparation of state of the environment information concerning the 8 industry sectors	Number of documents	1	1	1	1	1	
	3.6 <ul style="list-style-type: none"> Prevision of best practices to stakeholders on minimization of industrial pollution prevision of training on implementation of environmental systems and prevision of industrial pollution 	<ul style="list-style-type: none"> -Number of compiled best practices -Number of trainings provided 	2 1	2 2	2 2	2 2	2 2	
	3.7 Issuance of license based on prior informed consent to prevent risks from hazardous substances	Number of licenses issued						
	3.8 Enhancement of public awareness on prevention of pollution from the 8 industry sectors and hazardous substances	Number of awareness raising forums	1	1	1	1	1	
	3.9 Evaluation of the implementation of activities undertaken to prevent	Number of monitoring & evaluation report	1	1	1	1	1	

	pollution of the 8 industry sectors & hazardous substances.	Number of annual implementation report	1	1	1	1	1	
	3.10 provision of trainings to stakeholders regarding incorporation of environmental concerns	Number of profession also who participated in the trainings	100	100	100	125	200	
	3.11 Enhancement of awareness regarding the value of incorporating environment concerns in development endeavors.	Number of awareness raising forums	1	1	1	1	1	
	3.12 Evaluation of incorporation of environmental concerns in development e endeavors.	Number of monitoring & evaluation reports	1	1	1	1	1	
	3.13 Availability of environmental conservation tools that facilitate implementation of the environmental policy and laws	Number of tools	1	1	1	1	1	
	3.14 Enhancement of awareness on environmental laws	Number of awareness raising forums	1	1	1	1	1	

10. Implementation strategies

- providing tangible or intangible incentives for the promotion of environmental conservation
- Awarding exceeding performance in connection with environmental conservation
- take action to convert those who contravenes to comply with laws issued on environmental protection

11. Evaluation, monitoring and effectiveness

A periodic monitoring will be conducted to ensure compliance with and enforcement of environmental regulatory systems. Federal sector organizations, regional environmental protection bodies and local philanthropic organizations will present monthly reports to the Authority. The Authority will verify the reports submitted to it by undertaking desk review and field verification. In this connection, standardized reporting formats and manuals will be prepared and implemented.

Quarterly and annual monitoring and effectiveness verification activities will be conducted in order to verify effectiveness of the environmental regulatory system. Manuals and work strategies will be formulated and implemented for the purpose of monitoring and effectiveness verification task. Different stakeholders will be participating on the event of monitoring and result of verification; thereby monitoring and result verification report will be adopted by environmental council.

12. Trained man power needed for implementation of the plan

In order to conduct goals listed on the budget year, 81 experts will be needed on the area of environmental protection with skills of:-

- Policy and strategy analysis and preparation
- Law and regulation analysis and preparation

- Geographical data preparation and formulation
- Social and economical data preparation and formulation
- System implementation monitoring and evaluation
- System effectiveness evaluation and verification and
- Skill focused on Gender, child, youth and people with disabilities contribution environmental conservation

The skill of experts must be developed through training in order to satisfy the stated goals. Training modules must be prepared first and training based on them is needed. Sufficient budget is required for the preparation of the manuals and training. In order to meet the stated goals, presence of experts with the above skills by the year 2011 is mandatory.

13. Good chances, challenges and actions

13.1. Good chances

- High international concern given for conservation of environment
- Strong commitment for environmental conservation by the government
- Existence of different international environmental conservation agreements
- Existence of various environmental policies, strategies, laws, regulations and standards
- Existence of customer/stakeholder focused structure
- requirements issued to mainstream environmental concerns by sectoral ministries

13.2. Challenges

Area of challenge	Existing challenge
Political/Administrative	1. Some of the sectoral ministries have not yet established their own environmental units and some of the national regional states have not yet established their own respective

	implementing environmental protection policies and strategies and laws
Environmental	<p>Failure of regulated communities provide reports on their environmental performance that is needed to undertake evaluation on the implementation of environmental policies, strategies and laws</p> <p>Weak coordination among environmental inspectors and licensing agencies and sector bodies</p> <p>additional burdens triggered due to global climate change</p> <p>Trans-boundary movement of hazardous substances.</p>
social	Diminishing of those cultural values and knowledge having environmental values
technological	Industries using outdated and environmentally sound technologies

13.3. Actions to be taken in order to minimize risks

- Efforts will be taken in order to minimize risks by enhancing roles of regulated communities and regulators by implementing the particulars specified under the implementation strategies under Item 7 herein above.

14. Budget

Achievement	Annual Budget in Birr									
	2011		2012		2013		2014		2015	
	Government	Grant	Government	Grant	Government	Grant	Government	Grant	Government	Grant
Goal 1										
Availability of list of governmental documents prepared without incorporating the prevention of climate change vulnerability or aggravate vulnerability itself	36538	318828	48076	481250	65217	601562	76086	601562	76086	601562
Action plan that would enable incorporation of adaptation of climate change in government documents	35538	84318	34965	127272	47430	159090	56336	159090	55336	159090
<ul style="list-style-type: none"> Conducting workshops, trainings and raising awareness on climate change adaptation. preparation of manual and procedures that helps to implement climate change adaption system. 	36538	318828	48076	481250	65217	601562	76086	601562	76086	601562
<ul style="list-style-type: none"> Preparation of manual for adaption of infrastructures to climate change Preparation of a document on infrastructure vulerunability to climate change 	36538	84318	34965	127272	47430	159090	55335	159090	55335	159090

<ul style="list-style-type: none"> • Experience sharing conducting workshops and demonstrations on how to identify and determine technologies to adapt infrastructures to climate change. • Acquisition of skill on actions and good practices regarding adaptation of vulnerable infrastructures Evaluation report concerning adaptation of infrastructures to climate changes at Federal, Regional and City administration level. 	36538	318828	48076	481250	65217	601562	76086	601562	76086	601562
<ul style="list-style-type: none"> • Preparation of state of the environment report on lakes, wetlands and river banks • Preparation of standards and guidelines that enable to identify actions& develop plans to make lakes, wet lands and river banks climate resilient. 	36538	84318	48076	127272	47430	159090	55335	159090	55335	159090
<ul style="list-style-type: none"> • Experience sharing and demonstrations on how to identify and determine technologies on adaption of lakes, wetlands and river banks to climate change • Evaluation of activities regarding adaptations of lakes, wetlands and river banks to climate change. 	36538	318828	48076	481250	66217	601562	76086	601562	76086	601562

<ul style="list-style-type: none"> • Development of method to set target in a measurable, reportable and verifiable way to build climate resilient and carbon neutral economy at the lowest administrative level. • Establishment of a technical and financial support system for environmental NGOs, bilateral and multilateral organizations and professional associations to support the lower administrative bodies undertake adaptation to activities. 	36538	43318	34965	127272	47430		55335		55335	
<ul style="list-style-type: none"> • Provision of trainings to Regions or City administrations which have set measurable, reportable and verifiable targets to build climate resilient and carbon neutral economy on how to get technological and financial assistance to. • Preparation of evaluation report on implementation of activities to set targets and achieve the targets at the lower administrative level to build climate resilient and carbon neutral economy at Federal, Regional and 	36538	318828	48076	481250	66217	601562	76086	601562	76086	601562

City Administration.										
Goal 2.										
<ul style="list-style-type: none"> Preparation of technological need assessment guideline/ manual on pollutant gases mitigation. Preparation of state of the environment document regarding vegetation coverage that enables to generate income from carbon trading. Establishment of national carbon trading investment system. 	36538	84318	34965	127272	47430	159090	55335	159090	55335	159090
<ul style="list-style-type: none"> Publicizing national carbon trading and mitigation investment system. Conducting workshop on carbon trading. 	36538	318828	48076	481250	65217	601562	76086	601562	76086	601562
<ul style="list-style-type: none"> Establishment of cooperation to enhance professional skill regarding promotion of carbon trading. Evaluating implementation of projects to mitigate the impacts of pollutant gases. Obtain support for carbon credit sale. 	36538	84318	34965	127272	47430	159090	55335	159090	55335	159090

Achievement	Annual Budget in Birr/									
	2003		2004		2005		2006		2007	
	Government	Grant	Government	Grant	Government	Grant	Government	Grant	Government	Grant
Goal 3										
<ul style="list-style-type: none"> Preparation of state of the environment report on solid waste management Provision of training to stakeholders on how to improve solid waste management. Raising public awareness on activities under taken to improve solid waste management. Evaluation of implementation of activities to improve solid waste management. 	36538	84318	34965	127272	47430	159090	55335	159090	55335	159090
<ul style="list-style-type: none"> Preparation of state of the environment document concerning the 8 industry categories Provision of training to the concerned bodies to monitor the 8 industry categories on the implementation of the environmental systems. Issuance of license based on prior informed consent to prevent risks of hazardous substances. Raising of awareness on how to prevent pollution and risks from the 8 industry categories and hazardous substances. Evaluation of the implementation of activities on prevention of pollution and risks of the 8 industry categories and hazardous substances. 	36538	318828	48076	481250	65270	601562	76086	601562	76066	601562
<ul style="list-style-type: none"> Provision of trainings to stakeholders on how to incorporate environmental concerns in development 	36538	318828	48076	481250	47430	601562	76086	601562	76066	601562

<ul style="list-style-type: none"> endeavors. Rising of awareness on the value of incorporation of environmental concerns in development endeavors. Evaluation of the implementation of activities undertaken to incorporate environmental concerns in development endeavors. 										
<ul style="list-style-type: none"> Availability of environmental conservation tools to facilitate the implementation of environmental policy and laws. Raising of awareness on environmental conservation tools. 	58461	500000	384615	60000	521739	650000	608695	700000	608695	700000
<ul style="list-style-type: none"> Publishing and publicizing state of the environment report in 2007. 	58461	222600	34965	127272	47430	159090	55335	159090	55335	159090
<ul style="list-style-type: none"> Preparation of manual to mainstream gender, youth, children and people with disability issues in to environmental conservation. 	58461	222600	-	-	-	-	-	-	-	-
<ul style="list-style-type: none"> Preparation of manual for monitoring and evaluation, reporting and verification of achievements 	58461	222600	-	-	-	-	-	-	-	-
<ul style="list-style-type: none"> Preparation of manual to acquire skill on mainstreaming gender, children, youth and people with disability issues in to environmental activities. 	58461	222600	-	-	-	-	-	-	-	-
Total	949989	4199886	1166949	5182720	1547418	7053396	1826068	7103396	1826068	7103396