



**KenGen**

**ENVIRONMENT SUSTAINABILITY  
POLICY**

## FOREWORD

The purpose of the Environmental Sustainability policy is to ensure that KenGen, in undertaking their mandate, integrate environmental considerations in their operations to fulfil the requirement of a clean, healthy and sustainable environment for all as per article 42 of the Constitution and EMCA Cap 387.

The policy has top management's declaration of its environmental commitment in reducing the environmental impacts and set basic principles which guide KenGen in defining objectives and targets for improving environmental performance.

The policy informs employees and stakeholders what KenGen's environmental priorities are. The policy provides guidelines on six broad focus areas that impact on KenGen's activities, services and operations. These include Environmental Sustainability planning, Waste management and Pollution control, Climate Change mitigation and adaptation, Environmental ecological enhancement, Environmental education and awareness and Promoting Environmental protection and conservation through partnerships with stakeholders.

The policy also provides management commitments under each focal area and a framework of the audit and monitoring indicators. KenGen has operationalized the Environmental Sustainability Committee whose main role is to undertake Environment Sustainability audits and continuous implementation of their recommendations.



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**REBECCA MIANO (MRS) ,OGW**  
**MANAGING DIRECTOR & CEO**

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## 1.0. INTRODUCTION

KenGen was incorporated on 1 February 1954 under the Companies Act (Chapter 486 of the Laws of Kenya) as Kenya Power Company (KPC) to construct the transmission line between Nairobi and Tororo in Uganda as well as to develop geothermal and other generating facilities in the country. Since its inception, KPC sold electricity in bulk at cost to Kenya Power under a management contract.

Following the energy sectoral reforms in 1996, the management of KPC was formally separated from Kenya Power and renamed KenGen in January 1997. In 2006, KenGen was listed on the Nairobi Securities Exchange after the Government of Kenya sold 30% of its stake in the company through a very successful Initial Public Offer (IPO).

Kenya Electricity Generating Company PLC is a limited liability company, 70% owned by the Government of the Republic of Kenya. It is the leading electric power generation company in Kenya, producing about 75% of the electricity used in the Country. KenGen has an installed capacity (name-plate rating) 1631 Megawatts (MW) and a market share of 70% from a mix of hydro, geothermal, wind and thermal generation sources, located at different parts of the country.

The Company is propelled by the revamped Good-to-Great (G2G) Transformation to a “Great Company” through the creation of sustainable value from “One Generation” to the “Next Generation”.

KenGen operates in a liberalized power generation environment and sells all electric power generated in bulk to Kenya Power, who then distributes it to consumers. As at 30<sup>th</sup> June 2018, the Company had a work force of about 2400 staff with a wealth of experience in various disciplines.

This workforce is necessary as the Company seeks to maintain leadership in the electric energy sub-sector in Kenya and Eastern Africa Region. To ensure business success, the Company efficiently generates competitively priced electric energy using state of the art technology, skilled and motivated human resource. This success is anchored on engrained core values of professionalism, integrity, safety culture and team spirit.

### **Environment sustainability policy statement**

KenGen has revamped its Good -2- Great transformation strategy. This includes a focus on achieving environmental sustainability as we provide reliable, safe, quality and competitively priced electric energy and services.

In fulfilling this responsibility, KenGen undertakes to uphold Environmental Standards that exceed the minimum legal and regulatory requirements. To this end, we shall adopt all reasonable and practical measures to:

- a. Provide resources to maintain and continually improve its Environmental Management System (EMS) based on the ISO 14001:2015 and its supporting standards.
- b. Identify risks and opportunities, implement pollution control measures and mitigate negative environmental impacts, while at the

- c. same time enhancing positive environmental impacts resulting from its activities, products and services.
- d. Endeavour to comply with and exceed the requirements of all applicable environmental laws, regulations, permit and licenses conditions and other requirements to which the organization subscribes to.
- e. Establish environmental objectives, targets and continually review environmental sustainability and management programs.
- f. Strive to enhance the ecosystems through partnership and engagement with its stakeholders including the local community living around KenGen's installations.
- g. Purpose to train all employees on the environmental sustainability, significant environmental aspects and responsibilities associated with their jobs.
- h. Contribute to global sustainable development through mainstreaming of climate change mitigation and adaptation in the business process.
- i. Effectively communicate its environmental sustainability policy and performance to employees and key stakeholders.

#### **Situational Analysis**

Environmental sustainability involves making decisions and taking actions that are in the interests of protecting the natural world, with emphasis on preserving the capability of the environment to support human life. KenGen recognizes that her operations have impacts on the environmental, social and financial aspects at the national and global level. In view of this, KenGen has put in place several operational controls geared towards reducing pollution impacts. As the company scales-up operations, there is need to strengthen pollution mitigation measures in line with her growth. Climate change impacts negatively on hydro power production thus KenGen strives to mitigate against operations that contributes to climate change which would pose challenges to the sustainability of her operations.

KenGen's power plants are in ecologically sensitive areas like Hell's Gate National Park, Eburru and Ngong forest. This calls for implementation of measures such as: entering memorandum of understanding with Kenya Wildlife Service and Kenya Forest Service, carrying out joint ecological enhancement, carrying out ecological restoration of disturbed sites, conducting Environmental and Social Impact for new power projects and undertaking catchment conservation initiatives. Partnerships and stakeholder engagement are key in achieving environmental sustainability. KenGen recognizes that without partnerships and stakeholder engagement, most of its environmental sustainability programs will not succeed. In addition, KenGen recognizes that lack of adequate environmental education and awareness among

internal and external stakeholders can impede effective implementation of environmental sustainability programs.

**Justification**

KenGen as a responsible business entity seeks to mainstream its environmental sustainability goals within all its operation areas as a part of its corporate strategy, to enhance its core mandate of producing sustainable power for the nation. The operation of the Company creates environmental challenges. In addition, changes in environmental laws and regulations may expose the company to liability and result in increased costs. The power plants and power generation projects are subject to national and relevant international environmental laws, regulations and treaties. These include laws and regulations that limit the discharge of pollutants to the environment and establish standards for the treatment, storage and disposal of hazardous waste materials. Compliance with current and future environmental regulations, particularly by the older plants, may require substantial capital expenditure and, in certain cases, may require the closing down of non-complying plants. Compliance with these requirements, as well as any future norms with respect to Environmental Management and Coordination Act (EMCA), Cap 387 may result to increased projects and plant operating costs. The Company could be subject to substantial civil and criminal liability and other regulatory consequences for non-compliance.

KenGen has put in place effective environmental management system that stipulates environment standards that must be maintained in all areas of operations. The Company is ISO certified for Environmental Management System (EMS) 14001: 2015. Further, the Company is committed to ensuring compliance by undertaking Environmental and Social Impact Assessments (ESIAs) for any new investment in capacity expansion and implements the Environmental and Social Management Plans during construction, operations and decommissioning phases. The Strategic Environmental Assessment will provide a framework against which future ESIAs will be undertaken for each of the individual projects under the operation areas.

## 2.0. OBJECTIVES

The main objective of this policy is to ensure that environmental sustainability is mainstreamed into all KenGen operations / functions.

The specific objectives of KenGen environmental sustainability policy are to:

- a) Ensure that environmental sustainability initiatives are mainstreamed in the company's policies, programs, plans and procedures.
- b) Endeavour to comply with and exceed the requirements of all applicable environmental laws, regulations, permit and license conditions and other requirements to which the organization subscribes to.
- c) Ensure that pollution control measures and initiatives are mainstreamed in the company's operations programs, plans and procedures.
- d) Ensure that climate change issues are mainstreamed in the company's policies, programs plan and procedures.
- e) Strive to enhance the ecosystems in which the company operates and derives its generation resources.
- f) Create relevant partnerships and engage stakeholders to achieve environmental sustainability.
- g) Enhance environmental education and awareness among employees and stakeholders

### 3.0. PRINCIPLES OF ENVIRONMENTAL SUSTAINABILITY

The following are the principles of Environmental sustainability:

- a) The Principle of stakeholder's engagement, participation and inclusivity.
- b) The cultural and social principle traditionally applied by any community in Kenya for the management of the environment or natural resources in so far as the same are relevant and are not repugnant to justice and morality or inconsistent with any written law.
- c) The principle of inter-generational and intra-generational equity.
- d) A right to a clean and healthy environment, and Good governance as provided for in the Kenya constitution, 2010.
- e) The polluter-pays principle.
- f) The pre-cautionary principle



#### 4.0. POLICY SCOPE AND COMMITMENTS

##### 4.1. Policy scope

The Environmental sustainability policy covers all KenGen activities and operations. It focuses on the following six thematic areas:

- a. Sustainability planning.
- b. Pollution control.
- c. Climate change mitigation and adaptation.
- d. Ecological enhancement.
- e. Partnerships and Stakeholder Engagement.
- f. Environmental Education and awareness.

##### 4.2. Policy commitment

###### 4.2.1. Sustainability planning

Environmental sustainability planning involves conceptualization of ideas, making decisions and taking actions that are in the interests of protecting the natural world, with emphasis on preserving the capability of the environment to offer goods and services for posterity. KenGen recognizes that its operations have potential impacts on the environmental, social and financial aspects at the national and international level and hence its commitment to ensure proper environmental sustainability planning.

##### **Policy Statement**

KenGen shall ensure that environmental sustainability initiatives are mainstreamed in its policies, programmes, plans and procedures.

##### **Strategies**

These include but not limited to the following:

- a. Review existing policy documents to mainstream environmental sustainability (Service Charter, Horizon II Strategic Plan, Business Development Plan, ISO Procedures and Work Instructions).
- b. Comply with the requirements of all applicable environmental laws, regulations and other requirements to which KenGen subscribes to.
- c. Provide resources and structures to implement environmental sustainability objectives.
- d. Ensure all programs and projects are subjected to Environmental and social Assessments and Audits.
- e. Build capacity on environmental and social performance to assist them in reviewing, approving, monitoring and evaluating projects.
- f. Incorporate stakeholder engagement as part of environment sustainability planning process.
- g. Contribute to policy development at the National level.

- h. Put in place a monitoring and evaluation framework of sustainability activities.

#### **4.2.2. Pollution control**

Pollution is the introduction of contaminants into the natural environment that causes adverse changes. KenGen recognizes that its operations generate gaseous, liquid and solid wastes that if not mitigated will lead to pollution. KenGen, therefore, has put in place several operational controls geared towards reducing pollution impacts. As KenGen scales up its operations, there is need to strengthen pollution control and mitigation measures in line with its growth.

##### **Policy Statement**

KenGen shall ensure that pollution control measures and initiatives are mainstreamed in its operations, programs, plans and procedures.

##### **Strategies**

These include but not limited to the following:

- a. Establish a baseline of all waste streams from the company operations.
- b. Develop a corporate Waste Management Plan with clear objectives, target and strategies.
- c. Incorporate pollution control measures in project designs.
- d. Review and strengthen Emergency Response Plan to incorporate pollution control measures.
- e. Ensure Environmental Performance Monitoring Programs and procedures are in place and implemented.
- f. Promotion of projects and programs that contribute to cleaner production.
- g. Strive to procure goods and services that comply with EMCA and meet environmental sustainability requirements (Green procurement).

#### **4.2.3. Climate change mitigation and adaptation**

Climate Change is a global phenomenon that poses serious risks to the sustainability of business operations. KenGen currently reduces the national carbon footprint by over 1 Million tones equivalent of carbon dioxide, through various mitigation actions. KenGen recognizes that Climate Change poses challenges to the sustainability of its operations. KenGen also recognizes that certain aspects of its operations may contribute to climate change and hence committed to low carbon and climate resilient development

### **Policy Statement**

KenGen is committed to ensure that climate change issues are mainstreamed in its policies, programmes, plans and procedures.

### **Strategies**

These include but not limited to the following:

- a. Develop a corporate climate change policy.
- b. Participation in National and International Climate Change Agenda.
- c. Provide resources for the implementation of climate change mitigation and adaptation initiatives.
- d. Explore mechanism for additional financing of green energy projects.
- e. Explore regulatory and voluntary mechanism to increase return on investment for green projects.
- f. Strive to establish and maintain an inventory of greenhouse gas emissions (GHG) in all business areas.
- g. Promotion of Sustainable Energy Consumption
- h. In response to the SDG strategy, we have aligned our efforts to promote the use of affordable and clean energy (SDG7) in our operations, the responsible consumption of resources (SDG12) and to guide efforts towards achieving our 'net zero' carbon-emitting aspiration through the development of climate change-related strategies (SDG13).
- i. As part of our commitment to SDG7, we have developed an Energy Policy reference CRP/RAD/TAQ/TAQ/TAS/RF0. The policy guides and focuses our ongoing efforts in ensuring that we prioritize energy conservation and investment in, clean energy technologies.
- j. KenGen shall monitor and manage its environmental impacts through energy consumption targets in the following categories and report during the corporate management review meetings:
  1. Electricity consumption both for auxiliary consumption in the power generating plants as well as in in our administration premises.
  2. Fuel (Diesel & Petrol) Consumption.
  3. Water Consumption.
- k. Adopt and implement energy and water conservation regime to reduce institutional consumption and costs.

1. As climate mitigation change measures KenGen shall promote roof and water harvestings strategies in its operations and activities.

#### **4.2.4. Ecological enhancement**

Ecological enhancement involves sustainable management of ecological resources. KenGen strives to be a leading organization within the energy sector in limiting negative and, where possible, having positive direct and indirect impacts on biodiversity and natural ecosystems so that its practical performance in this area matches its conservation aspirations. KenGen recognizes the significance of ecological restoration and enhancement in areas where the company operates and derives its generation resources.

#### **Policy Statement**

KenGen will strive to enhance the ecosystems in its areas of operation and where it derives generation resources.

#### **Strategies**

These include but not limited to the following:

- a. Develop KenGen conservation policy.
- b. Support the development and implementation of ecosystem management plans.
- c. Enhance tree cover to support the national goal of achieving 10% forest cover by 2015.
- d. Support and Participate where applicable in the regional and national conservation activities
- e. Maintain intact (viable) landscapes - the intent of this strategy is to protect and improve the ecological integrity and long-term viability of the more intact (core) landscapes of the operation area. Within these areas, priority actions would be to repair historic impacts, remove threats and reinstate ecological processes.
- f. Reverse declines - this strategy aims to reinstate ecosystems that have been differentially lost in locations where this will meaningfully contribute to stemming species declines and reinstating critical ecological processes (such as pollination).
- g. Control emerging threats - this strategy aims to address threats to biodiversity before their impacts are fully realized. A couple of the more pervasive threats to the operation areas include climate change and new invasive species.

#### **4.2.5. Partnerships and Stakeholder Engagement**

Partnerships and stakeholder engagement involve intra and inter participation of relevant and interested parties with the aim of achieving environmental and social sustainability. KenGen recognizes that without

partnerships and stakeholder engagement, most of its environmental sustainability programs may not be achieved. Therefore, by facilitating opportunities the company can develop and share knowledge, skills and experience to engage with and contribute effectively to achieving the environmental sustainability aspirations. KenGen will also develop formal and information collaborative partnerships with regional, national and international stakeholders.

#### **Policy Statement**

KenGen is committed to creating partnership and engagement with its stakeholders to achieve environmental sustainability.

#### **Strategies**

These include but not limited to the following:

- a. Establish Memorandum of Understanding with like-minded partners.
- b. Develop a comprehensive **firms** and/or organization that can impact on KenGen business either Positively *or* negatively.
- c. Undertake joint implementation of environmental and social investment programs.
- d. Strive to develop stakeholder engagement strategy in line with our operations.
- e. Promote participation of KenGen employees through various sustainability initiatives

#### **4.2.6. Environmental Education and awareness**

Environmental education and awareness enables KenGen to explore environmental issues, engage in problem solving and acting to improve the environment. KenGen recognizes that lack of adequate environmental education and awareness among internal and external stakeholders can impede effective implementation of environmental sustainability programs.

Education and awareness is critical in influencing behavior change among staff and stakeholders toward embracing environmental sustainability practices.

#### **Policy Statement**

KenGen is committed to train all employees on the environmental sustainability, significant environmental aspects and responsibilities associated with their jobs and effectively communicate its environmental sustainability policy and performance to employees and key stakeholders.

#### **Strategies**

These include but not limited to the following:

- a. Promote public participation and involvement in environmental sustainability programs.

- b. Develop environmental education and awareness programs for its staff and stakeholders.
- c. Support and participate where appropriate in the local, national and international environmental events and activities.
- d. Communicate its environmental sustainability policy and performance to employees and other stakeholders.
- e. Operationalize the environmental sustainability committees.
- f. Appoint and train environmental sustainability champions.

## **5.0. DUTIES AND RESPONSIBILITIES**

### **5.1. Board of Directors**

The Board shall be responsible for:

- a. Review and approve the environmental sustainability policy.
- b. Provide resources required for implementation of the environment sustainability initiatives.

### **5.2. Executive Committee (ExCo)**

The Executive committee will be responsible for implementation the environment sustainability strategies and provision of the required resources.

### **5.3. Line Managers and Supervisors**

They will be responsible for:

- a. Preparation and reporting to the relevant stakeholders on the performance of the environment sustainability programs.
- b. Assigning responsibilities and authorities for relevant roles in this policy and communicating the same within the organization.
- c. Ensuring that all the company services and activities are carried out in compliance with environment sustainability policy guidelines.
- d. Ensuring compliance with relevant environmental sustainability policies, legislation and standards.
- e. Nominating members of ESC.

### **5.4. Environmental sustainability committee (ESC)**

ESC shall be responsible for;

- a. Implementation and maintenance of the policy
- b. Carrying out annual environment sustainability audits and submission of the report to NEMA
- c. Carrying out quarterly monitoring and evaluation of environmental sustainability implementation status and submission of the report to NEMA

### **5.5. Environmental sustainability champions**

The Environmental sustainability champions shall be nominated across all function/ department and appointed by the line managers. They shall be responsible for the day to day monitoring and reporting of any environmental issues within their functions/ department.

### **5.6. Staff**

KenGen employees are expected to:

- a. Understand their roles and take ownership of responsibilities related to environment sustainability in their work place.
- b. Participate in the environment sustainability activities.

**6.0. MONITORING AND EVALUATION**

- a. Establish/operationalize Environmental Sustainability Committee and hold meetings on a quarterly basis.
- b. Undertake and submit to NEMA annual Environment Sustainability Audit reports as per annex 1, II, and III.
- c. Prepare and implement the corrective action plan as per annex II, III and IV.
- d. Submit quarterly reports to NEMA on the implementation of Annual work plan activities as per annex IV and V.



**7.0. DECLARATION**

This is the Corporate Environment Sustainability Policy of  
Kenya Electricity Generating Company Limited PLC (KenGen).

This policy is aimed at enhancing mainstreaming Environmental sustainability in all KenGen's activities/ function and does not replace any written laws or regulations regarding the matters herein.

**8.0. ANNEXES**

**8.1. Annex I: KenGen Environmental Sustainability Audit Guidelines**

The guidelines provide a framework/checklist for KenGen to carry out a self-environmental sustainability audit. The guidelines suggest six focal environmental sustainability areas for intervention. Work plans must be guided by recommendations from environmental sustainability Audit.

Focal Area	Justification	Areas of Audit	Output/indicators
1.Environmental Sustainability planning	<p>Environmental sustainability involves making decisions and taking action that are in the interests of protecting the natural resources, with emphasis on preserving the capability of the environment to support human life</p> <p>Sustainability means “meeting the needs of the present without compromising the ability of future</p>	<ul style="list-style-type: none"> <li>- Development of an institutional workplace environment policy (outline on NEMA Website)</li> <li>- Establishment of structures to address environmental issues</li> <li>- Adopting respect for the environment as a core value in the Service Charter</li> </ul>	<ul style="list-style-type: none"> <li>-Institutional environmental sustainability policy</li> <li>-Environmental sustainability committee in place</li> <li>- Core value in the Service Charter</li> </ul>

	<p>generations to meet their own needs.”</p> <p>KenGen should take to improve the social equity, environmental, and economic conditions in their jurisdiction.</p> <p>KenGen should explore the environmental issues within their operations, develop appropriate interventions and document the same in form of environmental sustainability policy</p>	<p>-Contribution to preparation of State of Environment (SOE) reports and Environment Actions Plan (EAPs)</p> <p>Compliance with the Environmental Impact Assessment (EIA) and Environmental Audit (EA) regulations, 2006)</p> <p>-Submission to NEMA comments during EIA review (where applicable)</p>	<p>-Inputs to SOE and EAPs process</p> <p>- EIA/EA reports submission acknowledged/licenses</p> <p>-Feedback on EIAs review</p>
<p>2. Waste management and Pollution control</p>	<p><b>Solid waste</b></p> <p>Waste Management Regulations, 2006 provide for modalities for waste management including collection, segregation,</p>	<p><b>Compliance with Waste management regulations, 2006</b></p> <p>-Interventions on reducing, reusing, and recycling of waste in the respective</p>	<p>- Evidence of Waste Reduction, reuse and recycling initiatives</p>

Focal Area	Justification	Areas of Audit	Output/Indicators
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	<p>Handling, transportation and disposal of various types of waste. The aim of the Waste Management Regulations is to protect human health and the environment. The regulations place emphasis on waste minimization, cleaner production and segregation of waste at source</p> <p>KenGen generate a lot of waste that if not properly handled lead to pollution and increase in waste dumps. Each KenGen should demonstrate measures that control, prevents and reduce pollution to the environment</p>	<p>institutions</p> <ul style="list-style-type: none"> <li>-Proof of proper disposal of solid waste, air conditioners, asbestos and E-waste among others</li> <li>-Installation of waste segregation bins</li> <li>- Submission of annual environmental audit reports where applicable</li> </ul>	<ul style="list-style-type: none"> <li>- Evidence of contracted NEMA licensed waste handler or facility</li> <li>-Green procurement</li> <li>- Segregation bins</li> <li>-Environmental Audit Reports/Acknowledgment letter/licenses</li> </ul>
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	<p><b>Effluent Discharge</b> This entails sustainable use of water, minimizing wastage and appropriate disposal of effluent</p> <p>The objective of the water quality regulations is to protect human health and the environment from negative impact of pollution from effluent discharge into the environment. The effective enforcement of the water quality regulations will lead to a marked reduction of water-borne diseases and hence a reduction in the health budget.</p>	<p><b>Compliance to Water quality regulations, 2006</b> Licensing of effluent discharges where applicable</p> <p>Water recycling, reuse and conservation</p> <p>-Construction, connection or operating a Sewerage treatment facility</p> <p>- Installation of Septic, soak pit and other sanitary methods of effluent control</p>	<p>-Effluent discharge license -Quarterly effluent analysis reports</p> <p>Evidence of water recycling, reuse and conservation measures</p> <p>-Evidence of payment for sewer connections</p> <p>-Septic, soak pit and other sanitary installations -Effluent discharge License issued by NEMA</p>
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	<p><b>Noise pollution</b> This is addressed through activities or interventions towards prevention, control and abatement of Noise pollution</p>	<p>Measures to promote compliance to Noise and Excessive vibrations regulations, 2008</p>	<p>-Evidence of Measures to promote compliance to Noise and Excessive vibrations regulations -Noise Monitoring report -Compliance to Occupation Health and</p>
Focal Area	Justification	Areas of Audit	Output/indicators
	<p><b>Air pollution:</b> Air pollution sources may be mobile sources (e.g. motor vehicles) and stationary sources (e.g. industries) as outlined in the Environmental Management and Coordination Act, Cap 387 to ensure clean and healthy ambient air.</p>	<p><b>Compliance to Air quality regulations, 2014</b></p> <ul style="list-style-type: none"> <li>- Number of fleet</li> <li>- Vehicle maintenance and servicing schedule</li> <li>-Training of drivers on professionalism</li> <li>-Indoor air quality</li> <li>-Equipment maintenance schedule</li> <li>-Measures to reduce air pollution</li> <li>-Property boundary ambient air quality</li> </ul>	<p>Safety regulations (OHS)</p> <ul style="list-style-type: none"> <li>-Maintenance and servicing schedules - Emission testing for mobile sources</li> <li>-Training report</li> <li>-Indoor air quality survey report</li> <li>-Stack emission report</li> <li>-Emission License -Report on Emission interventions</li> <li>-Assessment report on boundary ambient air quality</li> </ul>

<p>3. Climate change mitigation and adaptation (Refer to the climate change response strategy and action plan)</p>	<p>Climate change is the worst challenge of our time and is characterized by unpredictable weather patterns such as increased rainfall, temperatures, drought and hunger.</p> <p>Climate mitigation is any action taken to permanently eliminate or reduce the long-term risk and hazards of climate change to human life, property.</p> <p>Climate change adaptations entail how individuals, groups and natural systems can prepare for and respond to changes in climate or their Environment. KenGen should act to promote mitigation and adaptation to climate change.</p>	<p><b>Compliance to Climate Change Act, 2016)</b> Climate change adaptation and mitigation initiatives such as: -</p> <ul style="list-style-type: none"> <li>-Installation of energy saving devices, renewable energy, water harvesting,</li> </ul>	<ul style="list-style-type: none"> <li>-Energy Audit Report -Energy saving devices installed</li> <li>-Rain water harvesting structures in place - Water consumption trends</li> </ul>
		<p>Measures to control greenhouse gases</p>	<ul style="list-style-type: none"> <li>-Evidence of measures to control greenhouse gases emissions</li> <li>-Adoption of cleaner production technologies</li> <li>-Adoption of green technologies</li> <li>-Application of Clean energy</li> <li>-Use of solar devices, biogas and wind energy</li> </ul>
		<p>Mitigation and adaptation initiatives</p>	<ul style="list-style-type: none"> <li>-Evidence of mitigation and adaptation initiatives such as Rain water harvesting structures in place; water conservation initiatives</li> <li>- Vulnerability mapping</li> </ul>
		<p><b>Compliance to Controlled substances regulations, 2007;</b> - Importation, use and disposal of Ozone Depleting Substances</p>	<ul style="list-style-type: none"> <li>-Measures in place on importation, use and disposal of ODS -NEMA ODS licensing</li> <li>-Green procurement</li> </ul>

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	(ODS)	
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Focal Area	Justification	Areas of Audit	Output/Indicators
4. Environmental ecological enhancement	<p>Many ecosystems have been degraded in Kenya over several decades of misuse and overuse.</p> <p>Ecological restoration is a valuable endeavor to ensure that degraded and destroyed natural ecosystems will be reestablished to levels where they once existed. The Constitution of Kenya (2010) demands that forest cover in Kenya be increased to at least 10%.</p>	<p><b>Compliance to the Conservation of biological diversity and benefit sharing regulations, 2006</b></p> <p>-Proof of Authority to access genetic resources</p> <p>Benefit sharing arrangements on utilization of biological and genetic resources</p> <p>Activities toward increase of forest cover</p> <p><b>Compliance to Wetlands, River banks, lakeshores, and seashore management regulations, 2009</b> -Submission of</p>	<p>-Permits to access genetic resources</p> <p>-Evidence of benefit sharing on utilization of biological and genetic resources</p> <p>-Biodiversity conservation initiatives CSR Initiatives</p> <p>-No. of trees planted and survived - Area covered</p> <p>EIA/SEA Reports</p>



	<p>clean water, improve microclimate, improved economy etc.</p> <p>Some institutions near wetland are likely to be benefitting from the goods and services derived from the wetlands and hence the need to undertake activities toward enhancement of the same</p>	<p>Environmental Impact Assessment(EIA) / Strategic IA/SEA reports for new projects/programmes where applicable</p> <p>Submission of EA reports</p> <p>Environment management plans for forests, wetlands, coastal zone, Environment significant areas among others</p> <p>Restoration of degraded sites</p> <p>Conservation of riparian reserve</p>	<p>EA Reports</p> <p>-Draft/Approved Environment management plans -Wise use initiatives</p> <p>Size of degraded lands restored</p> <p>Area of riparian reserves secured and conserved</p>
<p>5. Environmental education and awareness</p>	<p>Environmental awareness entails understanding the fragility of our environment and the importance of its protection. The KenGen need to make all their staff aware of their relationship with the</p>	<p>Sensitization of staff on Environmental sustainability</p> <p>Sensitization of public/stakeholders on</p>	<p>-No. of staff sensitized - Evidence of behavior change among staff - Programmes/activities for sensitization</p> <p>No. of people/stakeholders</p>
<p><b>Focal Area</b></p>		<p><b>Output/Indicators</b></p> <p>Output/Indicators</p> <p>sensitized</p> <p>- Proof of behavior change among Public/stakeholders</p>	
<p><b>Justification</b></p> <p>Environment from a social, ecological and economic perspective. The same</p>		<p><b>Areas of Audit</b></p> <p>Environmental sustainability</p>	

Kenya Electricity Generating Company PLC

<p>6. Promoting Environmental protection and conservation through partnerships with stakeholders</p>	<p>understanding and awareness should be extended to other stakeholders and the local community.  Promoting environmental awareness is an easy way to become an environmental steward and participate in creating a brighter future for our children. Environmental awareness evokes the necessity and responsibility of humans to respect, protect, and preserve the natural world from its anthropogenic (caused by humans) afflictions.  Sustainability requires participation of diverse stakeholders. A single institution cannot achieve much and needs to team up with others in joint projects. The KenGen could take advantage of partnerships to profile themselves as a way of</p>	<p>Participation in environmental events with communities and schools  Recognition of environmental champions</p>	<p>-Proof programmes/activities for sensitization  Evidence of Participation in environmental events  Evidence of appreciation of environmental sustainability champions</p>
		<p>-Environmental projects and activities undertaken through partnership with stakeholders  Joint management plans  Corporate social responsibility (CSR) on environment</p>	<p>-Projects and activities undertaken jointly - MoUs  -MoUs -Joint work plans and budgets -CSR initiatives in place</p>

giving back to the community through Corporate Social Responsibility (CSR).	Partnerships with NEMA on Monitoring and inspections to ensure compliance with environment legislation	Report on areas of Partnerships with NEMA and other KenGen on Monitoring and inspections to ensure compliance with environment legislation -Minutes of meetings
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**8.2. Annex II: Outline of an Environmental Sustainability Audit report**

- Introduction: - Mandate of the MDA and how it relates to environment
- Areas/activities/project that must comply with EMCA, policies, relevant laws/regulation/ and focal areas
- The past and present impacts of the MDA on environment
- The responsibility and proficiency/ability/skill/ capacity of the MDA to deals with the impacts
- Existing internal control measures to identify and mitigate activities with negative environmental impacts
- Existing internal control mechanisms to ensure the workers' health and safety
- The existence of environmental awareness and sensitization measures including environmental standards and regulations, laws and policy for the managerial and operational personnel
- Recommendations for areas of improvement

**8.3. Annex III: Recommendations (sample template)**

Focal Areas	Status	Recommendations for improvement
Pollution control	Poor waste management	-Segregation bins be installed in common areas -Contract waste transporter registered with NEMA

**8.4. Annex IV: Format Annual Work Plan for Environmental Sustainability**

Date			
Name Organization	Kenya Electricity Generating company limited		
Focal areas	Annual Activities	Targets- Indicator	Time frame

			1 <sup>st</sup> quarter	2 <sup>nd</sup> quarter	3 <sup>rd</sup> quarter	4 <sup>th</sup> Quarter	Budget allocation Kshs.
Environmental Sustainability planning	-Submission of Annual work plan	-Annual work plan	X	-	-	-	
	-Submission of Audit report	-Audit report	X	-	-	-	
	-Submission of quarterly reports	-Quarterly reports	X	X	X	X	
	-Development of an institutional workplace environment policy	-Workplace environmental policy	-	X	X	X	0.5M
Pollution control	-Installation of 6 waste segregations bins	-No of bins procured	X	X	-	-	0.1M

Address:  Telephone Contacts:  E-Mail:  Signature.....Date.....	
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**8.5. ANNEX V: Sample Reporting Format for the Quarterly reports on Environmental Sustainability**

Quarterly report for the Period .....to.....							
Name of Organization	KenGen	Annual Targets-Activities	Indicator	achievement (%)	Target for the Quarter	Variance	Challenges
Environmental Sustainability planning		-Submission of Annual work plan -Submission of	-Annual work plan -Audit report -Quarterly reports	100%	100%	Nil	

	Audit report -Submission of quarterly reports					
	-Development of an institutional workplace environment policy	Workplace environmental policy	100%	100%	Nil	Committee members need sensitization
Pollution control	-Installation of 6 wastes segregations bins	No. of Bins installed	50%	100%	(50%)	
<b>Achievements during the reporting period and reasons for under achievement</b>						
<b>1. Environmental Sustainability planning:</b>						
a. During the quarter Submitted annual work plan, the Audit report and the 1 <sup>st</sup> quarter progress report						
b. <b>Development of an institutional workplace environment policy:</b> During the period a draft workplace environment policy was prepared as planned						
<b>2. Pollution control:</b> During the quarter procurement of the 6 waste bins initiated and 3 delivered. To be finalized in the 2 <sup>nd</sup> quarter						

**Provide list of attached evidences on achievements**

Address:

Telephone Contacts:

E-Mail:

Signature.....Date.....



