

# MEDIUM TERM EXPENDITURE FRAMEWORK (MTEF) FOR 2024-2027

# MINISTRY OF ENVIRONMENT, SCIENCE, TECHNOLOGY AND INNOVATION

*In accordance with Section 21(4) of the  
Public Financial Management Act,  
2016 (Act 921)*



REPUBLIC OF GHANA



# PROGRAMME BASED BUDGET ESTIMATES FOR 2024



Nkunim Budget





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***MINISTRY OF ENVIRONMENT,  
SCIENCE, TECHNOLOGY AND  
INNOVATION***

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The MESTI MTEF PBB Estimates for 2024 is also available on the internet at:  
[www.mofep.gov.gh](http://www.mofep.gov.gh)

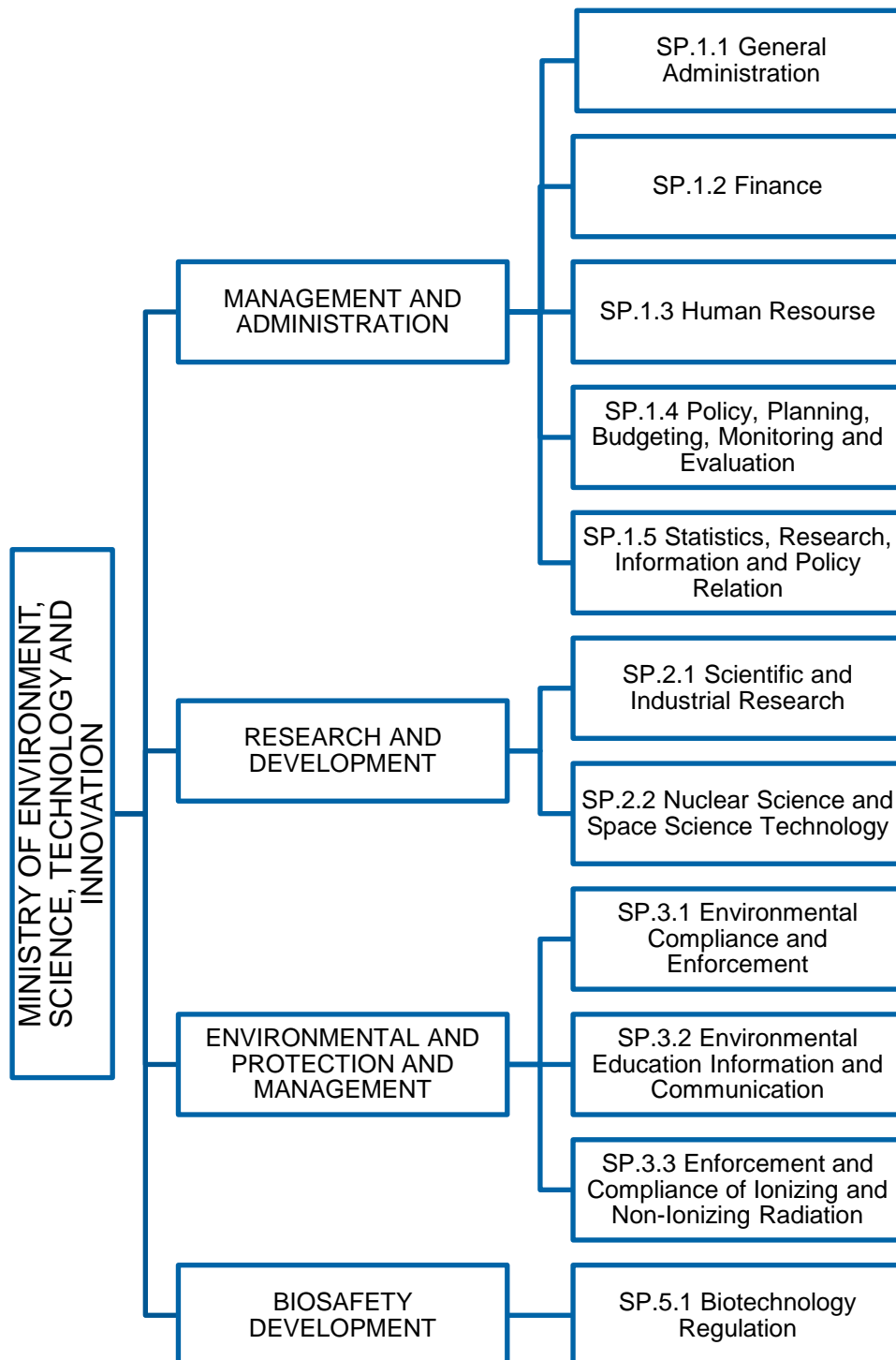
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## PROGRAMME STRUCTURE – MINISTRY OF ENVIRONMENT, SCIENCE, TECHNOLOGY AND INNOVATION





## 1.5. Appropriation Bill

Summary of Expenditure by Sub-Programme, Economic Item and Funding

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	GoG				IGF				Funds / Others			Donors			Grand Total
	Compensation of employees	Goods and Services	31 - Non financial assets	Total	Compensation of employees	Goods and Services	31 - Non financial assets	Total	Statutory	ABFA	Others	Goods and Services	31 - Non financial assets	Total	
<b>01701 - Management And Administration</b>	5,288,606	17,002,617	152,339,971	174,631,195								180,975,636		180,975,636	355,606,831
01701001 - General Administration	5,288,606	15,850,059	152,339,971	173,478,637								94,980,171		94,980,171	268,458,807
01701002 - Finance		281,112		281,112											281,112
01701003 - Human Resource		281,112		281,112											281,112
01701004 - Policy, Planning, Budgeting, Monitoring and Evaluation		365,445		365,445								85,995,466		85,995,466	86,360,911
01701005 - Statistics; Research; Information and Public Relations		224,889		224,889											224,889
<b>01702 - Research And Development</b>	381,761,553	2,583,189		384,344,742		56,636,037	16,681,551	73,317,588							457,662,330
01702001 - Scientific And Industrial Research	289,451,449	1,291,595		290,743,043		32,839,088	8,209,771	41,048,859							331,791,902
01702002 - Nuclear Science And Space Science Technology	92,310,104	1,291,595		93,601,699		23,796,949	8,471,780	32,268,729							125,870,428
<b>01703 - Environmental Protection And Management</b>	15,663,721	1,291,595		16,955,315	107,662,262	112,474,965	43,679,410	263,816,637				77,660,257		77,660,257	358,432,209
01703001 - Environmental Compliance And Enforcement	565,894	379,881		945,775	107,662,262	107,964,465	40,672,410	256,299,137				77,660,257		77,660,257	334,905,169
01703003 - Enforcement and Compliance of ionizing and non-ionizing radiation	15,097,826	911,714		16,009,540		4,510,500	3,007,000	7,517,500							23,527,040
<b>01705 - Biosafety Development</b>	872,736	911,714		1,784,449		400,000	100,000	500,000							2,284,449
01705001 - Biotechnology Regulation	872,736	911,714		1,784,449		400,000	100,000	500,000							2,284,449
<b>Grand Total</b>	<b>403,586,615</b>	<b>21,789,115</b>	<b>152,339,971</b>	<b>577,715,701</b>	<b>107,662,262</b>	<b>169,511,002</b>	<b>60,460,961</b>	<b>337,634,225</b>				<b>258,635,893</b>		<b>258,635,893</b>	<b>1,173,985,819</b>

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# **PART A: STRATEGIC OVERVIEW OF THE MINISTRY OF ENVIRONMENT, SCIENCE, TECHNOLOGY AND INNOVATION (MESTI)**

## **1. POLICY OBJECTIVES**

The Ministry of Environment, Science, Technology and Innovation has adopted fifteen (15) Policy Objectives out of the numerous contained in the Medium-Term National Development Policy Framework (MTNDPF) for the period 2022-2025,

These are as follows:

- Enhance environmental protection services
- Improve forest and protected areas
- Enhance institutional capacity and coordination for effective climate action
- Enhance climate change resilience
- Reduce greenhouse gases
- Reduce Environmental Pollution
- Reduce coastal and marine erosion
- Minimize potential environmental impact of the oil and gas industry
- Promote sustainable extraction of mineral resources
- Combat deforestation, desertification, and soil erosion
- Mainstream science, technology, and innovation in all socio-economic activities
- Ensure availability of clean, affordable and accessible energy
- Promote sustainable spatially integrated development of human settlements
- Improve research and development (R&D), innovation, and sustainable financing for industrial development
- Enhance the application of science, technology and innovation

## **2. GOAL**

The Ministry of Environment, Science, Technology, and Innovation (MESTI) seeks to ensure accelerated socio-economic development of the nation through the formulation of sound policies and a regulatory framework to promote the use of appropriate environmentally friendly, scientific, and technological practices.



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### 3. CORE FUNCTIONS

The core functions of the Environment, Science, Technology, and Innovation Sector are:

- Provide leadership and guidance for Environment, Science, Technology, and Innovation within the broad sector of the economy through sound policy formulation and implementation;
- Ensure the establishment of the regulatory framework and setting of standards to govern the activities of science and technology and the management of the environment for sustainable development;
- Promote activities needed to underpin the standards and policies required for planning and implementation of sound scientific and technological development activities;
- Ensure the coordination, supervision, monitoring and evaluation of activities of Environment, Science, Technology, and Innovation while fulfilling national benefits-sharing commitments;
- Set out the parameters required for programmes on environment, science, technology, and human settlement in consultation with the National Development Planning Commission (NDPC) in guiding the Districts Assemblies as the planning authorities at the local level;
- Analyse and coordinate all planned programmes as well as budgets in the environment, science, technology, and innovation sector of the economy for purposes of achieving a single integrated management system;
- Initiate, simulate, and coordinate research including the continuous development and review of policies, laws, rules and regulations in the environment, science, technology and innovation sector of the economy; and
- Ensure effective environmental management and governance, in line with the functions of the Act 490, with the EPA as the main implementing agency and the MESTI playing an oversight, coordination and facilitating role.

#### 4. POLICY OUTCOME INDICATORS AND TARGETS

Output Indicator Description	Unit of Measurement	Baseline		Latest Status		Target	
		Year	Value	Year	Value	Year	Value
Reduction in climate change vulnerability: Number of sectors with climate change mitigation and adaptable strategy priorities integrated	Number of sectors with climate change mitigation and adaptation strategy priorities integrated	2022	12	2023	13	2027	16
Amount of Green House Gases in the atmosphere	Metric Tonnes	2022	51.3MT	2023	53.4MT	2027	62.2MT
Proportion of companies compliant with EA and EMP permit conditions (to be considered an appropriate programme)	Number of companies issued with EA and EMP permit	2022	12,947	2023	11,393	2027	12,850
Research adaptation by industries (SDG Target 9.b)	Number of research findings adopted by industry	2022	200	2023	150	2027	400
	Number of businesses /industries assisted to adopt R&D in production	2022	38	2023	20	2027	100
	Rate of adoption of improved locally-packaged technologies my MSMEs (%)	2022	70%	2023	75%	2027	95%

## 5. EXPENDITURE TRENDS FOR THE MEDIUM-TERM

For the fiscal years 2022 and 2023, the Ministry received allocations of **GH¢574,856,000** and **GH¢615,430,060** respectively, sourced from the Government of Ghana (GoG), Internally Generated funds (IGF), and contributions from Development Partners (DPs). The budget for the Government of Ghana's compensation in 2022 and 2023 amounted to **GH¢257,022,000** and **GH¢291,147,076**, respectively. There was a **13%** increase in the compensation budget for 2023 as compared to the previous year.

On the contrary, GoG budget allocation for Goods and Services decreased from **GH¢8,152,000** in 2022 to **GH¢3,122,800** in 2023, representing a **62%** decrease. Additionally, the Ministry recorded a **77%** decrease in its approved Capital Expenditure (CAPEX) budget, declining from **GH¢5,300,000** in 2022 to **GH¢1,236,000** in 2023. This reduction could be attributed to decreased allocations for the Science and Technology (S&T) Project and the Sector as a whole.

The IGF budget allocations increased from **GH¢267,374,000** in 2022 to **GH¢302,095,464** in 2023, representing an upward adjustment of **13%**. Approved expected revenues from Donor Partners also decreased by **52%** from **GH¢37,008,000** in 2022 to **GH¢17,828,720** in 2023.

For the year under review, the total approved budget for MESTI was **GH¢615,430,060**. The GoG approved budget for Compensation of Employees was **GH¢291,147,076**, Goods and Services **GH¢3,122,800** and Capital Expenditure **GH¢1,236,000** whilst IGF was **GH¢302,095,464** and Donor **GH¢17,828,720**.

As of September 2023, total payments for the Environment, Science, Technology and Innovation Sector amounted to **GH¢485,393,407.37** as against total receipts of **GH¢510,110,887.46**. Out of the total amount, GoG-related Compensation of Employee was **GH¢256,820,234.48**, Goods and Services stood at **GH¢2,263,321.00** whilst CAPEX stood at **GH¢49,063.70**. Additionally, payments related to IGF and DP amounted to **GH¢173,592,669.50** and **GH¢52,668,118.69** respectively.



The budget performance of the Ministry and its Agencies during the reviewed period (January-September 2023) is outlined as follows:

ECONOMIC CLASSIFICATION	APPROVED BUDGET (A)	AMOUNT RELEASED AS AT SEP. 2023 (B)	PAYMENTS	VARIANCE	PERCENTAGE UTILISATION
			(C)	(A-B)	
<b>GOG</b>					
<b>Compensation</b>	291,147,076.00	264,378,055.03	256,820,234.48	26,769,020.97	88%
<b>Goods &amp; Services Sub-Total</b>	3,122,800.00	2,489,437.00	2,263,321.00	633,363.00	72%
Goods & Services Normal	2,687,800.00	2,439,437.00	2,213,321.00	248,363.00	82%
Goods & Services (S&T)	435,000.00	50,000.00	50,000.00	385,000.00	11%
<b>CAPEX Normal</b>	840,000.00	49,063.70	49,063.70	790,936.30	6%
<b>CAPEX (S&amp;T)</b>	396,000.00	0.00	0.00	396,000.00	0%
Sub-total GOG	295,505,876.00	266,916,555.73	259,132,619.18	28,589,320.27	88%
<b>RETAINED IGF</b>					
<b>Compensation</b>	97,740,331.00	69,199,274.00	69,199,274.00	28,541,057.00	71%
<b>Goods &amp; Services</b>	152,331,428.00	101,101,289.39	95,809,832.77	51,230,138.61	63%
<b>CAPEX</b>	52,023,705.00	8,916,180.41	8,583,562.73	43,107,524.59	16%
Sub-total IGF	302,095,464.00	179,216,743.80	173,592,669.50	122,878,720.20	57%
<b>DEVELOPMENT PARTNERS</b>					
<b>Goods &amp; Services</b>	474,000.00	62,780,471.29	51,643,077.91	-62,306,471.29	10895%
<b>CAPEX</b>	17,354,720.00	1,197,116.64	1,025,040.78	16,157,603.36	6%
Sub-total DP	17,828,720.00	63,977,587.93	52,668,118.69	-46,148,867.93	295%
<b>GOG Total</b>	<b>615,430,060.00</b>	<b>510,110,887.46</b>	<b>485,393,407.37</b>	<b>105,319,172.54</b>	<b>79%</b>
<b>OTHERS</b>					
Plastic Waste Fund	1,982,173.00	1,982,173.00	1,410,154.00	0.00	0%
GhanaCARES	0.00	1,487,770.22	1,799,626.00	-311,855.78	-
Subscriptions	0.00	2,704,954.00	2,704,954.00	-2,704,954.00	-
Thermal Hydraulic Loop for GAEC	0.00	979,200.00	979,200.00	-979,200.00	-
Sub-Total Others	1,982,173.00	7,154,097.22	6,893,934.00	--5,171,924.22	-
<b>GRAND-TOTAL</b>	<b>617,412,233.00</b>	<b>517,264,984.68</b>	<b>492,287,341.37</b>	<b>100,147,248.32</b>	<b>80%</b>

### Compensation of Employees

The Ministry was allocated, **GH¢291,147,076.00** for Compensation of Employees, out of which a total sum of **GH¢264,378,055.03** representing **88%** has been released and expended **GH¢256,820,234.48** as of end of September 2023. It is worth noting that, the E-waste Fund could not access their releases. The challenge is being addressed between the MoF and the Fund.



### **Goods and Services**

The total approved budget was **GH¢ 3,122,800.00**. The component of the total approved budget for MESTI Headquarters and its Agencies was **GH¢ 2,687,800.00**, out of which **GH¢ 2,213,321.00**, representing **82%**, has been utilised. A total amount of **GH¢435,000.00**, was allocated for the implementation of S&T project. The total released and utilised amount for the S&T was **GH¢ 50,000.00**, representing **11%** of the approved budget. Hence the total percentage expended for the approved budget of **GH¢ 3,122,800.00** was **72%**.

### **CAPEX**

The total approved allocation for capex was **GH¢1,236,000.00** out of which **GH¢49,063.70** representing **6%** has been released and utilised.

### **Plastic Waste Recycling Fund (PWRF)**

The total released budget was **GH¢1,982,173.00**, out of which **GH¢1,410,154.00** has been utilised by the Ministry as of September 2023.

### **Ghana Cares Programme**

A total sum of **GH¢1,487,770.22** was released for the Foundry and Machine Tooling Centre, of which **GH¢1,799,626.00** was fully utilised. The reason for spending more than what was released was as a result of the final consultancy fee paid to Public Works Department (PWD). This money was released and withheld from the previous year.

### **Other Sources of Funds**

In addition to the funds released for both the Plastic Waste and Recycling Fund and the GhanaCares Programme, a total sum of **GH¢ 2,130,943.22**. was released. This amount **GH¢2,704,954.00** was released from the Subscription vote for payment of Ghana's financial obligations to the International Atomic Energy Agency, whilst a total sum of **GH¢979,200.00** was released for the payment of Thermal Hydraulic Loop for the Ghana Atomic Energy Commission (GAEC).



## 6. SUMMARY OF KEY ACHIEVEMENTS IN 2023

### Management and Administration Programme

The Ministry, as part of the implementation of the Establishing a Circular Economy Framework for the Plastics Sector (CEF-PS) in Ghana Project, twelve (12) Small and Medium Scale Enterprises (SMEs) operating within the plastics value chain have been selected to receive technical and financial support to undertake selected activities as follows:

- Discourage single-use plastic production (Single-use plastics include banku rubber, cutlery, plates, straws, etc.)
- Demonstrate the production of biodegradable plastics from alternative feedstock: Packaging materials designed from non-fossil sources such as cassava-based biodegradable and other water-soluble fiber.
- Enhance environmentally sound disposal of non-recyclable plastics through intensifying the recovery/ collection of easily recyclable plastic waste.
- Demonstrate food-grade plastic recycling and reuse options e.g. recycling of PET, HDPE, LDPE, etc.



*PET Plastics*



*LDPE Plastics*



*HDPE Plastics*

The Ministry, as a means of reducing the use of single-use plastic packaging in the food sector, collaborated with the University of Ghana and Notpla and launched the Ooho edible water packaging and compostable take-away boxes in selected restaurants at the UG campus.



*Ooho edible water*



*Ooho Edible water*



*Compostable take-away boxes*





The Ministry as part of the environmentally sound management of plastics implemented plastic segregation in a technical and primary school (St. John Bosco Basic School and Accra Technical Training Centre) as a strategic initiative to foster behavioural change and create awareness within the framework of the Plastic-Free Schools project. This has helped to promote segregation in the two (2) schools as well as set up Eco committees and Eco ambassadors.



***Plastic-Free Schools project in St. John Bosco Basic School and Accra Technical Training Center (ATTC)***

To ensure the implementation of the National Plastics Management Policy (NPMP), MESTI is working with the Korle Klottey Municipal Assembly using the Phasing-In Approach to the management of “Orphan Plastics” in selected electoral areas (Adabraka North) to promote circular economy through plastics collection, sorting and recycling.

The Ministry in promoting sound recycling and disposal of Waste of Electrical and Electronic Equipment, continued the pilot incentive payment system for e-waste collection at Old Fadama (Agbogbloshie) aimed at reducing the indiscriminate disposal and burning associated with the management of e-waste. Cumulatively, over 437.88 tons of e-waste was collected for the period 2020-2023. 378.73 tons of cables, 36.23 tons of mixed batteries, 22.86 tons of thermoplastics and 120 sets of CRTs have been retrieved to prevent their indiscriminate disposal into the environment. 60 tons of the collected e-waste cables have been tendered to a formal recycler to recycle the cables in an environmentally sustainable manner. The remaining 318.73 tons of e-waste cables will also be tendered for recycling construction of the Handover Centre (HOC) for electrical and electronic waste at the Ghana Atomic Energy Commission (GAEC) premises was completed and awaits handing over and commissioning.



### *E-waste collection Center at Old Fadama (Agbogbloshie)*



### *Handover Centre (HOC)*

In a commitment to address climate change issues, the Ministry together with its Agency, EPA developed a Carbon Market Framework document to guide engagements in the carbon market. 24 million tons of carbon dioxide (CO<sub>2</sub>) equivalent in Ghana's Nationally Determined Contributions (NDCs) will be used in carbon trading and is expected to generate an estimated 800 million US Dollars (Direct Investment + Fees and Charge) by 2030. The initiative aligns with the objectives of the Paris Agreement.

MESTI has supported energy efficiency improvement in the artisanal palm oil industry by installing 47 new improved cookstoves with chimneys, steamers and clarification tanks to replace traditional cooking stoves in 8 communities in the Eastern Region. These interventions will contribute to reduction in air pollution, improved health and sanitation, quality palm oil, innovation, responsible production. (SGD, 3, 7, 9, 12 & 13). So far about 700 Artisan/Palm oil processors have been trained in sustainable oil production processes in the 8 communities.



### *Improved cookstoves with chimneys, Steamers and clarification tanks to replace traditional cooking stoves*

Construction works for the establishment of a Foundry and Machine Tooling Centre under the GhanaCARES “Obaatampa” programme is still ongoing. Phase I which involves the physical construction of the Foundry is currently 95% complete, while Phase II, which consists of the physical construction of a Machine Tooling Centre, a Patterns Development Shop, and a Staff Canteen are at 25%, 70%, and 70% completion stage. In addition, all the equipment for Phase 1 which is the procurement of equipment for the project has been procured and delivered to the site. The Phase 2 of the





procurement of equipment has received approval from the Public Procurement Authority (PPA) but contract is yet to be signed.



*Main Foundry*



*Fabricated Steel Structure*



*Mezzanine Floor*

## Research and Development Programme

The Ministry through the Council for Scientific and Industrial Research (CSIR) has developed and released two (2) improved varieties of cowpea which were endorsed by the National Varietal Release and Registration Committee (NVRRC) of Ghana. The two varieties are: SARI-Tuya and SARI-Tuzievallenga. CSIR has also developed and released two Maize varieties namely, SARI-Alaafee-Kawana with a potential yield of 3.78 tons/ha and SARI-Yezura-Kamana also with a potential yield of 4.21 tons/ha. These varieties were released to support food security in the country and reduce poverty reduction. Additionally, an electronic learning platform providing free short courses in key areas of Agriculture with demonstration videos on areas such as Climate Smart Agriculture, Mulching and Fall Army Worm management for farmers, extension agents, prospective youth in Agriculture and other interested persons was developed.



*Five (5) new CSIR products introduced into the Ghanaian Market*

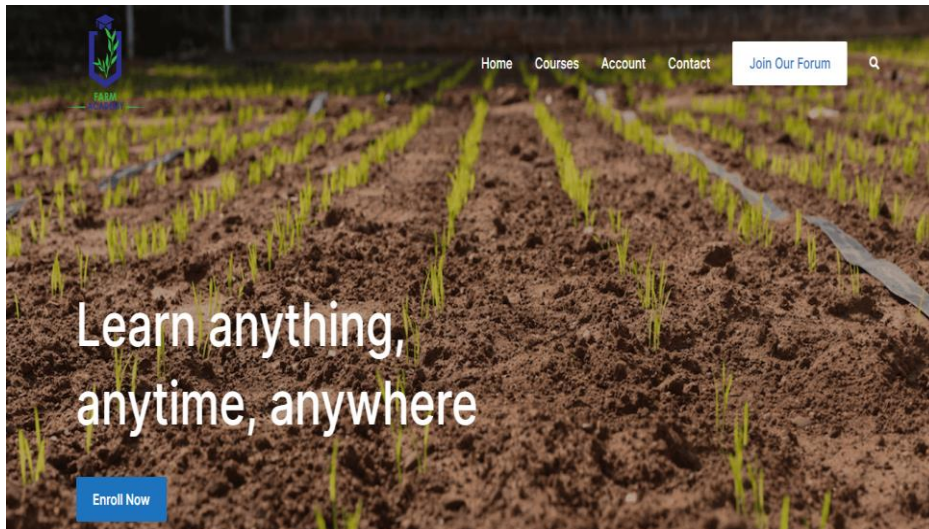
CSIR has also developed an Electronic Learning Platform for providing FREE short courses in key areas of Agriculture with demonstration videos on areas such as Climate Smart Agriculture, Mulching and Fall Army Worm management for interested parties such as:

- Farmers
- Extension Agents
- Prospective Youth in Agriculture
- Other interested Person



This is based on previous experience with CSIR Knowledge portals. It was revealed that most visitors to the site requested live demonstrations to enable them to understand the concepts.

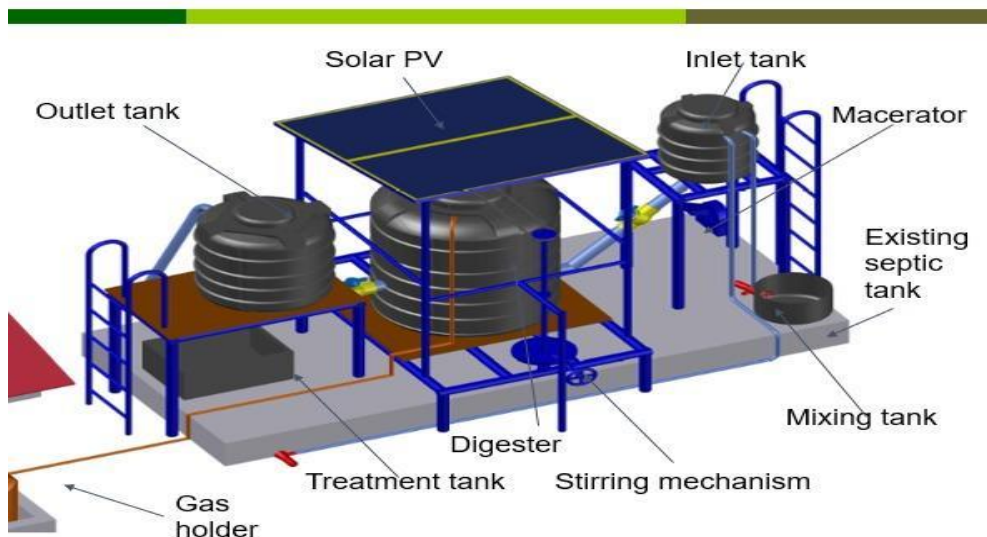
**Web Portal - <https://learn.csirgh.com>**



The Ministry, through the CSIR, has built an integrated bio-digester system with a 1.5m<sup>3</sup> digester at *Umar Bun Hatab Islamic Basic School* at Madina Zongo in Accra.

The digester produces about 1.25m<sup>3</sup> gas/day for use in the science laboratory of the school.

### Semi Automated Bio-Digester, SABD



*Integrated bio-digester system with a 1.5m<sup>3</sup>*





For the Private Sector engagement under Science & People, CSIR signed MoUs with the Ghana National Chamber of Commerce and Industry (GNCCI), African Asian Consortium (AAC) and Aquillah Company Ltd for the transfer of CSIR-developed technologies, commercial rice and maize production.



*Signing of MOUs*

The Ministry through the Ghana Atomic Energy Commission (GAEC) using the latest innovations and advancements in cassava production, processing and utilisation distributed 10,000 sticks of improved cassava varieties to 10 farmers and 2 farmer associations with the aim to improve livelihood and ensure food security in Ghana.



*10,000 sticks of improved cassava varieties*



As part of the processes to introduce nuclear energy into Ghana's energy mix, GAEC is working on the evaluation report of the 5 proposals received from vendors to aid the Government's decision for a potential partner for the first nuclear project in Ghana.



***Nuclear Power Infrastructure Development Forum held at the Accra International Conference Centre***

GAEC as part of the Radiation Monitoring, 13 Conditional compliance certificates issued for the installation of a telecommunication mast (target-500) and 908 Base Stations were also monitored for radiofrequency safety and regulatory compliance (target-1040). While 1,318 Occupationally exposed workers were monitored to ensure compliance with safety requirements and overexposure of workers (target-1250). 63 radiation detection equipment calibrated to ensure accurate measurement and detection



***Monitoring of Ghana Gas Atuabo Plant***





The Ministry through GAEC provided clinical training of IAEA Fellows from 8 African countries undergoing training in Medical Physics. 25 hospitals have been audited so far to ensure optimal protection of patients and medical staff from undesired radiation exposure. Food and Drugs Authority (FDA) approval has been obtained to produce reagents for clinical and gynaecology services.



*GAEC's clinical training of IAEA Fellows.*



*Maiden Astronomy quiz competition & exhibition*

*Students visited the Observatory.*





The Ministry through the Environmental Protection (EPA) issued 8,970 environmental assessment permits and 38,151 chemical licenses to ensure compliance with L.I 1652. Additionally, EPA monitored 131 industries to analyse the level of pollution for effluent quality. Effluent discharge monitoring led to the Agency compelling Pioneer Food Canary Ltd to modify its drainage system and dissolve the air flotation unit in order to meeting the Ghana Standard on Effluent Discharge Quality.



*Monitoring of Ghana Gas Atuabo Plant*



*Air Quality Monitoring*

The Draft Environmental Protection Authority Bill has been approved by Cabinet for submission to Parliament. During a monitoring visit to Non-Ferrous Metal Company, it was revealed that operations of the company caused Environmental Pollution and exposed the workers to toxic substances. Consequently, the company was temporarily closed down and directed to rectify the identified irregularities.



*Monitoring visit to Non-Ferrous Metal Company*



EPA has developed climate vulnerability and risk assessment with the following MMDAs: Cape-Coast, Bekwai, Kintampo, New Juaben North and Kasena Nankana Tamale and Sekondi-Takoradi to support decision making at the local level.

The Agency carried out awareness creation programmes targeting specific interest groups such as pesticides dealers, environmental consultants, NGOs, religious organisations at the community level such as Sefwi Adukrom in the Western North Region, Sagnarigu in the Northern Region and various school environmental education programmes in schools such as Safe Tower School (Upper East Region) and Jamasi Presby Junior School (Ashanti Region).

EPA provided training to 30 lawyers at the Attorney General's Department regarding issues pertaining to pesticide counterfeiting and related matters and conducted training sessions for 13 Municipal and Metropolitan Assemblies (MMDAs) on the process of performing climate risk assessments at the community level. Delivered training to banks and private sector entities, educating them about the impact of climate change on their operations and the reciprocal influence of their business activities on climate change.

The Nuclear Regulatory Authority (NRA) conducted inspections on 331 facilities and authorised the use of radiation-emitting equipment. Moreso, NRA granted approvals for the use of 379 radioactive sources and devices. Additionally, 273 permits were issued, covering aspects such as import, export, design approval & transport and storage of radioactive sources and devices in 2023 to ensure the protection of humans and the environment from the harmful effects of radiation. In enforcing compliance, the NRA issued enforcement notices to nine (9) non-complying facilities, mandating corrective actions to ensure the safety of radiation workers and patients. The NRA granted authorisation to eight (8) technical support organisations. The functions of the technical support organisations included;

- provision of radiation protection advice and consultations in medical and industrial practices and activities e.g. Qualified Experts,
- import, installation, acquisition and sale of radiation emitting equipment and devices, radiation waste management.
- radiation Monitoring Services: personal monitoring of radiation exposure to occupational radiation workers.
- calibration of radiation equipment
- .training in the field of radiation.
- Non-Destructive Testing (NDT) to detect radiation leakage in radiation facilities.
- environmental monitoring of Naturally Occurring Radioactive Materials (NORMs).

13 Draft regulations ready for Attorney General Office.







*Inspections at Industrial and Medical facilities*



*NRA inspector conducting inspection for transport authorisation of radioactive*

The Ministry through the National Biosafety Authority (NBA) received a total of sixteen (16) GMO and Non-GMO applications. The applications pertained to environmental release, event registration, confined field trial and non-GMO status. Three (3) permits were issued out of the 16 applicants. The remaining thirteen (13) applications have undergone administrative completeness. The Technical Advisory Committee (TAC) comprising of various experts, is set to conduct a Risk Assessment Review of the applications and forward their recommendations to the NBA Board for their decision (granting permits).





The NBA conducted two (2) monitoring and inspection exercises at the Confined Field Trial (CFT) site for cowpea (Genetically modified for resistance to bruchi - cowpea weevil) at the Savanna Agricultural Research Institute (SARI) in Tamale.



*NBA officials undertaking a CFT monitoring and inspection at a site in Nyankpala.*





## 2.6 Budget by Chart of Account

6.0- Programme, Sub-Programme and Natural Account Summary

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Funding: All Source of Funding

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	2024	2025	2026	2027
<b>Programmes - Ministry of Environment Science, Technology</b>	<b>1,173,985,819</b>	<b>1,208,942,209</b>	<b>1,209,130,584</b>	<b>1,209,130,584</b>
<b>01701 - Management And Administration</b>	<b>355,606,831</b>	<b>355,606,831</b>	<b>355,606,831</b>	<b>355,606,831</b>
01701001 - General Administration	268,458,807	268,458,807	268,458,807	268,458,807
21 - Compensation of Employees [GFS]	5,288,606	5,288,606	5,288,606	5,288,606
22 - Use of Goods and Services	110,830,230	110,830,230	110,830,230	110,830,230
31 - Non financial assets	152,339,971	152,339,971	152,339,971	152,339,971
<b>01701002 - Finance</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>
22 - Use of Goods and Services	281,112	281,112	281,112	281,112
<b>01701003 - Human Resource</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>
22 - Use of Goods and Services	281,112	281,112	281,112	281,112
<b>01701004 - Policy, Planning, Budgeting, Monitoring and Evalu</b>	<b>86,360,911</b>	<b>86,360,911</b>	<b>86,360,911</b>	<b>86,360,911</b>
22 - Use of Goods and Services	86,360,911	86,360,911	86,360,911	86,360,911
<b>01701005 - Statistics; Research; Information and Public Relati</b>	<b>224,889</b>	<b>224,889</b>	<b>224,889</b>	<b>224,889</b>
22 - Use of Goods and Services	224,889	224,889	224,889	224,889
<b>01702 - Research And Development</b>	<b>457,662,330</b>	<b>457,909,951</b>	<b>457,909,951</b>	<b>457,909,951</b>
<b>01702001 - Scientific And Industrial Research</b>	<b>331,791,902</b>	<b>332,039,523</b>	<b>332,039,523</b>	<b>332,039,523</b>
21 - Compensation of Employees [GFS]	289,451,449	289,451,449	289,451,449	289,451,449
22 - Use of Goods and Services	34,130,682	34,130,682	34,130,682	34,130,682
31 - Non financial assets	8,209,771	8,457,392	8,457,392	8,457,392
<b>01702002 - Nuclear Science And Space Science Technology</b>	<b>125,870,428</b>	<b>125,870,428</b>	<b>125,870,428</b>	<b>125,870,428</b>
21 - Compensation of Employees [GFS]	92,310,104	92,310,104	92,310,104	92,310,104
22 - Use of Goods and Services	21,837,134	21,837,134	21,837,134	21,837,134
27 - Social benefits [GFS]	994,361	994,361	994,361	994,361
28 - Other Expense	2,257,049	2,257,049	2,257,049	2,257,049
31 - Non financial assets	8,471,780	8,471,780	8,471,780	8,471,780
<b>01703 - Environmental Protection And Management</b>	<b>358,432,209</b>	<b>393,140,978</b>	<b>393,329,353</b>	<b>393,329,353</b>





## 2.6 Budget by Chart of Account

6.0- Programme, Sub-Programme and Natural Account Summary

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Funding: All Source of Funding

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	2024	2025	2026	2027
<b>01703001 - Environmental Compliance And Enforcement</b>	<b>334,905,169</b>	<b>369,613,938</b>	<b>369,802,313</b>	<b>369,802,313</b>
21 - Compensation of Employees [GFS]	108,228,156	142,678,905	142,678,905	142,678,905
22 - Use of Goods and Services	183,918,515	184,031,535	184,060,410	184,060,410
27 - Social benefits [GFS]	1,450,000	1,595,000	1,754,500	1,754,500
28 - Other Expense	636,088	636,088	636,088	636,088
31 - Non financial assets	40,672,410	40,672,410	40,672,410	40,672,410
<b>01703003 - Enforcement and Compliance of ionizing and non-</b>	<b>23,527,040</b>	<b>23,527,040</b>	<b>23,527,040</b>	<b>23,527,040</b>
21 - Compensation of Employees [GFS]	15,097,826	15,097,826	15,097,826	15,097,826
22 - Use of Goods and Services	5,257,214	5,257,214	5,257,214	5,257,214
27 - Social benefits [GFS]	165,000	165,000	165,000	165,000
31 - Non financial assets	3,007,000	3,007,000	3,007,000	3,007,000
<b>01705 - Biosafety Development</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>
<b>01705001 - Biotechnology Regulation</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>
21 - Compensation of Employees [GFS]	872,736	872,736	872,736	872,736
22 - Use of Goods and Services	1,229,714	1,229,714	1,229,714	1,229,714
27 - Social benefits [GFS]	82,000	82,000	82,000	82,000
31 - Non financial assets	100,000	100,000	100,000	100,000



## **PART B: BUDGET PROGRAMME SUMMARY**

### **PROGRAMME 1: MANAGEMENT AND ADMINISTRATION**

#### **1. Budget Programme Objectives**

- To formulate policies and legislations that would facilitate the sustainable development of the country through the application of science, technology and innovation and the adoption of international standards/protocols and conventions that relate to the environment, science, technology, and innovation sector of the country.
- To strengthen the coordination of activities of the Ministry, its Agencies/Department, and other stakeholders (MDAs, MMDAs, CSOs, DPs, Private Sector) on the issues that relate to the environment, science technology and innovation sector.
- To strengthen policy planning, monitoring and evaluation within the Ministry and to ensure the effective implementation of sector policies programmes and projects.

#### **2. Budget Programme Description**

The Management and Administration programme delivers essential cross-functional services to ensure the success of other sector programs in attaining their goals.

This programme is responsible for:

- Formulating, coordinating, monitoring and evaluation of environmental policies and legislations that will ensure and promote sustainable environmental development;
- Formulating, coordinating, monitoring and evaluation of science, technology, and innovation policies to promote the development and application of research to enhance sustainable development of the country;
- Strengthening human capacities to adequately deal with environmental management, science, technology and innovation issues; and
- Preparing the sector budget and pursuing the interest of the Ministry in all financial transactions.





## 2.6 Budget by Chart of Account

6.0- Programme, Sub-Programme and Natural Account Summary

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Funding: All Source of Funding

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	2024	2025	2026	2027
<b>01701 - Management And Administration</b>	<b>355,606,831</b>	<b>355,606,831</b>	<b>355,606,831</b>	<b>355,606,831</b>
<b>01701001 - General Administration</b>	<b>268,458,807</b>	<b>268,458,807</b>	<b>268,458,807</b>	<b>268,458,807</b>
21 - Compensation of Employees [GFS]	5,288,606	5,288,606	5,288,606	5,288,606
22 - Use of Goods and Services	110,830,230	110,830,230	110,830,230	110,830,230
31 - Non financial assets	152,339,971	152,339,971	152,339,971	152,339,971
<b>01701002 - Finance</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>
22 - Use of Goods and Services	281,112	281,112	281,112	281,112
<b>01701003 - Human Resource</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>	<b>281,112</b>
22 - Use of Goods and Services	281,112	281,112	281,112	281,112
<b>01701004 - Policy, Planning, Budgeting, Monitoring and Evalu</b>	<b>86,360,911</b>	<b>86,360,911</b>	<b>86,360,911</b>	<b>86,360,911</b>
22 - Use of Goods and Services	86,360,911	86,360,911	86,360,911	86,360,911
<b>01701005 - Statistics; Research; Information and Public Relati</b>	<b>224,889</b>	<b>224,889</b>	<b>224,889</b>	<b>224,889</b>
22 - Use of Goods and Services	224,889	224,889	224,889	224,889





# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 1: MANAGEMENT AND ADMINISTRATION**

### **SUB-PROGRAMME 1.1: General Administration**

#### **1. Budget Sub-Programme Objectives**

- To effectively coordinate the activities of the various Directorates of the Ministry and its Agencies;
- To ensure the provision of adequate resources/logistics for the smooth operations of the Ministry;
- To promote the application of Science, Technology and Innovation in all sectors of the economy; and
- To promote the integration of environmental issues in all sectors of the economy.

#### **2. Budget Sub-Programme Description**

This sub-programme looks at coordinating the activities of the Ministry and its Agencies through the office of the Chief Director. It issues directives that are consistent with the policy direction of the Ministry; provides required resources and logistics (e.g., human, transport, stationery, office equipment) for effective running of the Ministry.

The sub-programme is responsible for ensuring that the sector projects and programmes are in line with national development agenda by developing appropriate policies, programmes and projects that relate to the environment and Science, Technology, and Innovation; as well as ensures the successful implementation of all activities that relate to the environment, Science, Technology, and Innovation.

Operations undertaken include, to:

- Coordinate the implementation the of National Science, Technology and Innovation (STI) Policy.
- Mainstream STI into National Development Agenda.
- Operationalise the Ghana Innovation and Research Commercialization (GIRC) Centre.
- Establish Foundry and Machine Tooling Centre.
- Operationalise the High-Performance Computing (HPC) Centre.
- Develop National Capacity for Space Science and Technologies.
- Enhance the sound recycling and management of Electronic/Electrical Waste.
- Implement the National Plastic Management Policy and implementation plan (Phasing in of plastics projects in MMDAs).
- Implement the GEF-funded Project “Establishing A Circular Economy for Plastics Management in Ghana.
- Implement Climate Change and Green Economy related activities.



- Coordinate the Implementation of the Nationally Determined Contributions (NDCs).
- Implement National Biodiversity Policy and Strategy in line with Post-2020 Global Biodiversity Framework.
- Ensure cohesion and successful implementation of the environment and STI-related programmes and projects in the Sector Medium Term Development Plan.
- Manage the properties of the Ministry through procurement and maintenance works.
- Ensure the timely provision of resources/logistics for the efficient operations of the Ministry.

### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Establishment of Foundry and Machine Tooling Centre	Completion Status of Construction Phases	Complete Phase II & III of the Machine Tooling Centre	25%.	100%	25%	70%	100%	Operationalise Center	Operationalise Center
	Equipment procured and installed	Procure equipment Phase II & III	0%	100%	0%	50%	100%	-	-
GIRC Programme implemented	Activities of programme implemented	Masterplan and Branding for Programme	Branding Completed	Procure Consultants for programme implementation	Consultant procured. Consultant procured. Masterplan developed by local Consultant and STEPI of Korea.	Operationalise GIRC	Operationalise GIRC	Operationalise GIRC	Operationalise GIRC



Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
National STI Policy developed. Complete and Launch National STI Policy	Draft Policy submitted	Form a Technical Working Group	Technical working Group formed	Complete and Launch National STI Policy	Technical working Group formed	Completed. To be submitted to cabinet for approval	Implement Policy	Implement Policy	Implement Policy
Management Information System developed for ST&I	% Level of completion	15% Procure Consultants	10% Financial Proposals of consultant evaluated	100% STIMIS Completed and launched	80% Technical specification and demonstration of the STIMIS	Operationalise STIMIS	Operationalise STIMIS	Operationalise STIMIS	Operationalise STIMIS
Oil and Gas environment policy implemented	Level of implementation	Implement policy	Implement policy	Conduct a capacity needs assessment	A draft capacity needs assessment report developed	Organise 2 workshops to create awareness of the EMPOGI and implement the policy.	Implement policy	Implement policy	Implement policy
2016 National Biodiversity Policy and National Biodiversity Strategy and Action Plan (NBSAP) implemented	Level of implementation	Awareness created and stakeholders sensitised on the CBD and the Nagoya Protocol	Sensitisation workshop held	NBSAP reviewed.	2016 NBSAP under review	Develop biodiversity mainstreaming guidelines for sectors and MMDAs	NBSAP implemented	NBSAP implemented	NBSAP implemented
The West Africa Coastal Areas	Level of implementation	Develop and publish	Five (5) Environmental	Secure World Bank	World Bank Board	Undertake feasibility	Implement two (2)	Conduct WACA programm	Develop draft National





Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
(WACA) Programme implemented		all documents required for programme appraisal and approval	and Social Safeguards Instruments were prepared and approved by the World Bank	Board, Cabinet and Parliamentary approval for Programme effectiveness	and Cabinet approval secured, awaiting Parliamentary approval	ty studies for 2 sites – Densu and Keta	investment projects	e mid-term evaluation	Integrated Coastal Management Policy and submit to Cabinet for approval
The Ghana National Determined Contribution (GH_NDC) programmer of actions implemented by prioritized sectors	Level of implementation of GH_NDC under the Paris Agreement and Low Carbon Development Strategy	Update and implement 2015 GH_NDC	Cabinet approved updated NDC and submitted to UNFCCC by HE the President in October 2021	Developing monitoring indicators for the GH_NDC programme of action	Monitoring indicators developed	Prepare National report to feed into the Global Stocktake (GST)	Secure local and international funding to support NDC implementation	Revise and update GH_NDC	Secure local and international funding to support NDC implementation
Effective National participation in the Carbon Market System	Level of implementation of Article 6 of Paris Agreement	Implement Bilateral Cooperation Agreement on Article 6 of Paris Agreement	National carbon registry system established  National Framework for market and non-market mechanisms under Article 6 developed and approved by Cabinet	Establish Article 6.2 Secretariat in-country	Draft Implementation manual developed	Establish Article 2 Secretariat in-country	Train selected Private Sector entities towards implementation of National Framework for market and non-market mechanisms under Article 6	National Framework for market and non-market mechanisms implemented	National Framework for market and non-market mechanisms implemented



Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
National officers' capacity built to contribute to agreement on a set of goals to guide global actions to protect and restore nature at the United Nations Climate Change Conference and the Conference of Parties of the Convention on Biological Diversity	Number of National Officers supported to participate in the Conference of Parties on Climate Change and Biodiversity	Sponsor 5 officers to participate in COP27 on Climate change and 3 Officers in the Biodiversity COP15	Five Officers from the Ministry were supported to participate at COP 27, in Sharl El-Sheikh, Egypt	5 officers sponsored to participate in COP28 on Climate Change	5 officers and 3 officers to be supported to participate in COP29 on Climate Change and the Biodiversity COP16, respectively	5 officers and 3 officers supported to participate in COP30 on Climate Change and the Biodiversity COP17, respectively	5 officers and 3 officers to be supported to participate in COP31 on Climate Change and the Biodiversity COP17, respectively	5 officers and 3 officers to be supported to participate in COP32 on Climate Change and the Biodiversity COP17, respectively	5 officers and 3 officers to be supported to participate in COP33 on Climate Change and the Biodiversity COP17, respectively



#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme.

Operations	Projects
<b>Internal management of the organisation</b>	<b>Acquisition of Movable and Immovable Assets</b>
Office supplies and consumables	Construction of Foundry and Machine Tooling Centre
<b>Environmental policy integration and management</b>	
Operationalise the Resource Recovery Secretariat for plastic waste management	
Implement Circular Economy Framework for Plastics Management in Ghana	
Implement National Plastics Management Policy (Phasing in of plastics in MMDAs)	
Implement and create awareness on the Global Biodiversity Framework (GBF)	
Mainstream Environmental Management policy for the Oil and Gas Industry (EMPOGI) into selected MMDAs development plans	
Ratify 4 Additional Protocols under the Abidjan Convention	
<b>Climate change policy and programmes</b>	
Implementation of the Ghana-Swiss Bilateral Cooperation Agreement.	
Implement Revised Nationally Determined Contributions (GH_NDCs)	
Development of Draft Coastal Resilience Policy and Implementation Plan	
Implement West Africa Coastal Areas (WACA) programme	
<b>Development and promotion of the application of science and technology</b>	
Support Operationalisation of GIRC Center	
Support Operationalisation of HPC Center	
Implement the National Space Science Policy	
Review National STI Policy	





## 2.8. Budget by Chart of Account

### 8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01701001 - General Administration	268,458,807	268,458,807	268,458,807	268,458,807
21 - Compensation of Employees [GFS]	5,288,606	5,288,606	5,288,606	5,288,606
22 - Use of Goods and Services	110,830,230	110,830,230	110,830,230	110,830,230
31 - Non financial assets	152,339,971	152,339,971	152,339,971	152,339,971



# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 1: MANAGEMENT AND ADMINISTRATION**

### **SUB-PROGRAMME 1.2: Finance**

#### **1. Budget Sub-Programme Objective**

To improve resource mobilisation, financial management and reporting (financial reports/statements) and the judicious use of financial resources as per the budgetary provisions.

#### **2. Budget Sub-Programme Description**

This sub-programme concentrates on ensuring that the Ministry's financial management practices align with established procedures and adhere to relevant laws. The Finance and Internal Audit Units of the Ministry are responsible for implementing this sub-programme.

This sub-programme seeks to safeguard the interest of the Ministry in all financial transactions relating to revenue and expenditure management and ensure proper allocation and use of the Ministry's budget. It also ensures effective financial transactions relating to revenue and expenditure management and reporting of the Ministry and its project accounts. It also ensures the provision of an effective and efficient system of internal controls (checks and balances) and the practice of proper and accountable administration.

Activities undertaken include, to:

- Identify other revenue streams apart from GoG;
- Strengthen revenue generation machinery;
- Ensure compliance with accounting/auditing procedures and timely reporting; and
- Ensure budgetary control and management of assets, liabilities, revenue and expenditures.
- Ensures that internal control systems are in place;
- Ensures accountable records are accurate including purchases and payments;
- Identifies any accounting errors, cases of fraud and initiate investigations;
- Reviews and recommends strengthening of internal systems.
- Financial, managerial and operating information reported internally and externally is accurate, reliable and timely;

Ensuring that the financial activities of the Ministry are in compliance with applicable laws, regulations, policies, Laws, standards and procedures;



### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, their corresponding indicators and projections used by the Ministry to assess the performance of this sub-programme. The past data indicates budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Internal Audit reports	Number of audit reports submitted per year	6	6	4	9	6	6	6	6
	Number of Audit committee meetings held	4	4	4	3	4	4	4	4
Financial reports/statement	Monthly financial reports submitted by	15th of the ensuing month	15th of the ensuing month	15th of the ensuing month	15th of the ensuing month	15th of the ensuing month	15th of the ensuing month	15th of the ensuing month	15th of the ensuing month
	Number of financial statements prepared	4	4	4	4	4	4	4	4



#### 4. Budget Sub-Programme Operations and Projects

The table lists the main operations and projects to be undertaken by the sub-programme

Operations	Projects
Internal Audit operations	No Projects
External audit operations	
Special Audit assignments	
Treasury and Accounting activities	
Preparation of Financial Reports	





## 2.8. Budget by Chart of Account

8 - Sub-Programme and Natural Account

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Funding: All Source of Funding

Year: 2024 | Currency: Ghana Cedi (GHS)

	2024	2025	2026	2027
01701002 - Finance	281,112	281,112	281,112	281,112
22 - Use of Goods and Services	281,112	281,112	281,112	281,112





# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 1: MANAGEMENT AND ADMINISTRATION**

### **SUB-PROGRAMME 1.3: Human Resource**

#### **1. Budget Sub-Programme Objective**

To facilitate the recruitment, replacement, placement, retention and improvement in the capacity and welfare of employees.

#### **2. Budget Sub-Programme Description**

The Human Resource sub-programme identifies human resource needs of the Ministry and provides the requisite personnel by recruiting, training and building the capacity of staff as well as other sector-related MDAs and relevant stakeholders (such as the private sector) to enhance productivity. This sub-programme is delivered by the HRM Directorate of the Ministry.

This sub-programme develops sector-wide policy on HR Planning, Succession Planning, Training and Development and Performance Management. It also ensures that there is in place an effective and stable management framework consistent with the overall manpower needs of the Sector.

It also facilitates the process of recruitment and placement, employee orientation and induction, retraining, motivation and staff development on a continuing basis for the efficient discharge of their duties. Moreover, it ensures that there is in place an effective and stable HR policy and management framework consistent with the overall manpower needs of the Sector.



### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Organize a workshop on Civil Service Rules and Regulations	Number of Workshops	4	1	4	0	4	4	4	4
Scheme of Service Training programmes for all categories of staff	Number of staff trained, and reports produced	20	23	20	18	20	20	20	20
Organize Training/workshop on Performance Management for Staff of the Ministry	Workshop undertaken and report available	1	1	1	4	1	1	1	1
Promotion interviews organized	Promotions interview reports are available	20	19	20	13	20	20	20	20
Annual Staff Performance Appraisal Report	Report submitted to OHCS by end of December 2020	15th Jan.	15th Jan.	15th Jan.	13th Jan.	15th Jan.	15th Jan.	15th Jan.	15th Jan.
Staff trained and capacity developed	Number of officers trained	40	40	40	72	60	60	60	60
Participation in Local and International	No. of officers who	30	15	30	35	30	30	30	30



Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
training/ conference	attended various training/ conferences								
Organize Health Awareness exercise for Staff	No. of Health awareness exercise organized	-	-	1	2	2	2	2	2

#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme.

Operations	Projects
Staff audit	No Project
Human Resource database	
Scheme of service training	
Recruitment, placement, and promotions	
Personnel and staff management	





## 2.8. Budget by Chart of Account

8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01701003 - Human Resource	281,112	281,112	281,112	281,112
22 - Use of Goods and Services	281,112	281,112	281,112	281,112



# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 1: MANAGEMENT AND ADMINISTRATION**

### **SUB-PROGRAMME 1.4: Policy, Planning, Budgeting, Monitoring and Evaluation**

#### **1. Budget Sub-Programme Objective**

To strengthen the capacity for planning, policy analysis, budgeting, monitoring and evaluation, data collection and analysis for the sector.

#### **2. Budget Sub-Programme Description**

This sub-programme ensures that the sector projects and programmes are in line with the national development agenda by developing appropriate policies, programmes, and projects. Policy, Planning, Budgeting, Monitoring and Evaluation (PPBME) ensures internal information dissemination, the compilation of the sector budget as well as monitoring and evaluating the effective implementation of policies, programmes and projects of the Sector.

It is responsible for the development of comprehensive and sustainable policies, legislations, plans, programmes and resource flow to the sector in collaboration with relevant stakeholders.

It caters for the design and application of monitoring and evaluation systems for purposes of assessing the operational effectiveness of the Ministry, its implementing department and agencies as well as the activities of other key stakeholders in meeting the Sector's short, medium and long-term objectives and targets.

The sub-programme activities include:

- Strengthen capacity for effective policy planning, budgeting, monitoring and evaluation of the sector activities;
- Ensure effective implementation of the sector programmes and projects in the Sector Medium Term Development Plan (SMTDP);
- Prepare, coordinate and manage the approved sector budget;
- Prepare the sector strategic, medium term and action plans; and
- Ensure cohesion and successful implementation of all projects and programmes.
- Implement E-waste and Plastics-related Projects
- Implement the Public Sector Reform for Results Project (PSRRP)
- Implement the GEF-funded "Circular Economy for Plastics Management in Ghana" Projects.



### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
MDA Annual Action Plan	Annual MESTI Sector plan prepared by	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.	Jan.
Performance Reviewed	Prepare Annual Performance Report to OHCS by	15th Jan.	15th Jan.	15th Jan.	13th Jan.	15th Jan.	15th Jan.	15th Jan.	15th Jan.
	Number of quarterly progress reports produced	4	4	4	4	4	4	4	4
Sector budget Prepared	Sector budget prepared, presented and approved by	Dec	Dec.	Dec.	Dec.	Dec.	Dec	Dec	Dec
Annual Budget Performance Report	Report submitted by	31 <sup>st</sup> March	29 <sup>th</sup> March	31 <sup>st</sup> March	28 <sup>th</sup> March	31 <sup>st</sup> March	31 <sup>st</sup> March	31 <sup>st</sup> March	31 <sup>st</sup> March
Handover Centre for e-	% Level of	10%	80%	100%	100%	100%	-	-	-



Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
waste constructed	completion								
Incentive payment system for e-waste at Agbogbloshie	Tonnes of e-waste purchased	200	248	200	437.88	400	500	600	700
Implement National Anti-Corruption Action Plan (NACAP)	NACAP report submitted to CHRAJ by	15th Jan.	-	15th Jan.	15th Jan.	15th Jan.	15th Jan.	15th Jan.	15th Jan.



#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme

Operations	Projects
Planning and Policy Formulation	
Policies and Programme Review Activities	
Management and Monitoring Policies, Programmes and Projects	
Evaluation and Impact Assessment Activities	
Budget Preparation	
Budget Performance Reporting	
Implement National Plastic Management Policy	
Develop National policy on E-waste Management.	
Continue with the implementation of the incentive payment system for e-waste	
Review of Implementation Plan for National Plastics Management Policy	
Support the Resource Recovery Secretariat	
Develop Circular Economy Framework for Plastics	
Develop Circular Economy Action Plan for Plastics	
Implement the Public Sector Reform for Results Project (PSRRP)	
Implement the GEF-funded “Circular Economy for Plastics Management in Ghana” Projects	







## 2.8. Budget by Chart of Account

8 - Sub-Programme and Natural Account

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Funding: All Source of Funding

Year: 2024 | Currency: Ghana Cedi (GHS)

	2024	2025	2026	2027
01701004 - Policy, Planning, Budgeting, Monitoring an	86,360,911	86,360,911	86,360,911	86,360,911
22 - Use of Goods and Services	86,360,911	86,360,911	86,360,911	86,360,911



# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 1: MANAGEMENT AND ADMINISTRATION**

### **SUB-PROGRAMME 1.5: Statistics, Research, Information and Public Relations**

#### **1. Budget Sub-Programme Objective**

To support the promotion of sectoral policies, programmes and projects through evidence-based research and statistics and to strengthen the application of Information Communication Technology (ICT) as well as protect and promote the good image of the sector through the dissemination of sector-relevant information to stakeholders and the public.

#### **2. Budget Sub-Programme Description**

This sub-programme undertakes research relevant to the sector to inform policy formulation and disseminates research findings on environment, science and technology research and to act as liaison between the Ministry and its partners/collaborators.

It is responsible for the design, use, maintenance and development of research and statistics as input into a central database for service-wide use. It also strengthens the application of Information Communication Technology (ICT) and coordinates all activities relating to information gathering, processing and dissemination for all the Ministry's organizations and stakeholders. Its main functions include the following:

- To create a conducive atmosphere for the effective and efficient functioning of the sector by promoting and maintaining cordial working relationships with the other directorates in the sector and with its clients and stakeholders.
- To undertake research, collection of data and statistics to aid decision-making relevant to the achievement of sectoral goals and objectives.
- To create and maintain a database of statistical information on the sector for decision-making.
- To plan, implement, monitor, and evaluate ICT projects and programmes for the sector.
- To ensure the availability of ICT services and advise on standards for application.
- To protect and promote the good image of the sector by disseminating sectoral information on its policies, programmes and projects.



### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Sector information disseminated to the public	Number of activities publicised	20	20	20	30	25	25	30	30
Response to petitions from the general public	Response provided within	14 days	14 days	14days	14days	14days	14 days	14 days	14 days
MESTI Website updated	Number of news items posted on MESTI's website	40	30	30		30	30	30	30

### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme.

Operations
Development and management of database
Acquisition and Management of ICT Infrastructure
Monitoring of ICT processes
Media Relations
Information, Education and Communication
Research & Development (R&D) to inform policy initiatives
Impact Studies on sector policies, programmes and projects.

Projects





## 2.8. Budget by Chart of Account

8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01701005 - Statistics; Research; Information and Public	224,889	224,889	224,889	224,889
22 - Use of Goods and Services	224,889	224,889	224,889	224,889



# **BUDGET PROGRAMME SUMMARY**

## **PROGRAMME 2: RESEARCH AND DEVELOPMENT**

### **1. Budget Programme Objective**

To promote and develop Science, Technology, and Innovation in all sectors of the economy for socio-economic development.

### **2. Budget Programme Description**

This programme involves the promotion of nuclear technology, scientific and industrial research. The Council for Scientific and Industrial Research (CSIR) and the Ghana Atomic Energy Commission (GAEC) harness science and technology expertise for sustainable agricultural production, meat and fish preservation, irrigation, good water supply, environmental management, housing, road construction, information packaging and dissemination. The programme also involves the application of space science technology.

Furthermore, science and technology play a vital role in advancing the peaceful application of nuclear science and technology research, encompassing fields such as health and medical research, training and capacity building, as well as the oversight of radioactive materials and installations.





## 2.6 Budget by Chart of Account

6.0- Programme, Sub-Programme and Natural Account Summary

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Funding: All Source of Funding

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	2024	2025	2026	2027
<b>01702 - Research And Development</b>	<b>457,662,330</b>	<b>457,909,951</b>	<b>457,909,951</b>	<b>457,909,951</b>
<b>01702001 - Scientific And Industrial Research</b>	<b>331,791,902</b>	<b>332,039,523</b>	<b>332,039,523</b>	<b>332,039,523</b>
21 - Compensation of Employees [GFS]	289,451,449	289,451,449	289,451,449	289,451,449
22 - Use of Goods and Services	34,130,682	34,130,682	34,130,682	34,130,682
31 - Non financial assets	8,209,771	8,457,392	8,457,392	8,457,392
<b>01702002 - Nuclear Science And Space Science Technology</b>	<b>125,870,428</b>	<b>125,870,428</b>	<b>125,870,428</b>	<b>125,870,428</b>
21 - Compensation of Employees [GFS]	92,310,104	92,310,104	92,310,104	92,310,104
22 - Use of Goods and Services	21,837,134	21,837,134	21,837,134	21,837,134
27 - Social benefits [GFS]	994,361	994,361	994,361	994,361
28 - Other Expense	2,257,049	2,257,049	2,257,049	2,257,049
31 - Non financial assets	8,471,780	8,471,780	8,471,780	8,471,780



# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 2: RESEARCH AND DEVELOPMENT**

### **SUB-PROGRAMME 2.1: Scientific and Industrial Research**

#### **1. Budget Sub-Programme Objective**

Promote the application of Science, Technology and Innovation in all Sectors of the economy.

#### **2. Budget Sub-Programme Description**

This Sub-Programme involves the promotion of research and application of science, technology, and innovation in development, as well as coordinating and promoting the commercialisation of research and development (R&D) outputs.

It is responsible for the implementation of government policies on scientific research and development. It also advises the Minister on Scientific and technological advances likely to be of importance to National Development.

The core functions of this Sub-Programme are as follows;

- To pursue the implementation of government policies on scientific research and development.
- To encourage and promote the commercialisation of results.
- To encourage in the national interest, scientific and industrial research of importance for development of agriculture, health, medicine, environment, technology, and any other service sectors and to this end to encourage close linkages with the productive sectors of the economy.
- To encourage coordinated employment of scientific research for the management, utilisation, and conservation of the natural resources of the Republic in the interest of development.

This Programme is implemented by the Council for Scientific and Industrial Research (CSIR) and its Thirteen (13) Institutes across the country with the following seven (7) Thematic Areas;

- Food Security and Poverty Reduction
- Climate Change, Environmental Management & Green Technology
- Biomedical and Public Health
- Material Science and Manufacturing
- Energy and Petroleum
- Electronics and ICT
- Science and People





### 3. Budget Sub-Programme Results Statement

The table provides an overview of the primary outcomes, their corresponding indicators, and the future expectations against which the Ministry assesses the performance of this sub-program. Past data serves as a reference for budget performance, while the projections represent the Ministry's estimations of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Biotechnology: - Germplasm collection, characterization, conservation, and distribution nationwide	Number of Plant Accessions collected and conserved	2500	1608	2600	2471	2800	3000	3500	3700
	Number. of Plant Accessions distributed nation-wide	900	872	1000	1804	1100	1200	1300	1400
Development and transfer of improved crop varieties	Number. of improved crop varieties of crops developed and disseminated	16	5	18	4	20	20	25	25
Postharvest losses of food commodities reduced.	Number of postharvest technologies developed and transferred/promoted.	15	27	16	29	18	20	24	30
Improved breeds of livestock/poultry/fishes developed	Number. of improved breeds of livestock/poultry/fishes developed	8	3	10	0	10	12	15	17
Application of Nanotechnology in economic social and industrial development energy production	No. sectors applying Nanotechnologies in their operations	6	3	2	0	3	3	4	5



Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Level of private sector investment in R&D	% contribution of Private sector investing in R&D	15%	10%	15%	5%	15%	20%	22%	24%
R&D % of GDP increased	Research and Development as % of GDP	0.38%	0.35%	0.65%	0.05%	0.85%	0.90%	1.0%	1.1%
ICT Centre for the provision of electronics and computer engineering services established	Number of ICT software applications developed	2	2	4	2	4	5	6	6
	Number of training sessions organized	7	6	7	4	8	8	9	9
Foundation seeds on improved crop varieties produced for certified seed producers within the seed industry	Quantity of foundation seed produced	30.5m metric tons	Not yet harvested	15.55 metric tons	16.24 5metric tons	14.55m metric tons	14.55metric tons	14.55metric tons	14.55m metric tons
Private sector investment in R&D	Percentage increase of private sector investment in R & D	15%	10%	15%	5%	20%	25%	30%	35%
Adoption rate of improved breeds of livestock/ poultry/fishes	% of improved breeds of livestock/ poultry/fishes adopted	45% live birds	80% live birds	50% live birds	55%	55% live birds	60% live birds	65% live birds	70% live birds
		45% Brood stock of Nile tilapia	40% Brood stock of Nile tilapia	50% Brood stock of Nile tilapia	45% Brood stock of Nile tilapia	55% Brood stock of Nile tilapia	60% Brood stock of Nile tilapia	65% Brood stock of Nile tilapia	55% Brood stock of Nile tilapia
Improved planting materials produced and sold	Number and type of planting materials produced	200,000 germinated oil palm seed nuts	4,269,569 germinated oil palm seed nuts	2,000,000 germinated oil palm seed nuts	4,518,530 germinated oil palm	2,100,000 germinated oil palm	2,200,000 germinated oil palm seed nuts	2,300,000	2,400,000



Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
					seed nuts	seed nuts			
		180,000	43,174	180,000	1,860 Oil palm FFB	200,000	200,000	210,000	220,000
		7,000 Coconut seedlings	34,252 coconut seedlings	10,000 coconut seedlings	14,840 coconut seedlings	12,000	15,000	20,000	25,000

#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme

Operations	Projects
<b>Development and promotion of the application of science and technology</b>	Acquisition of Movable and Unmovable Assets
Food Security and Poverty Reduction	Modernizing Agriculture in Ghana (MAG) Project
Climate Change, Environmental Management & Green Technology	Furniture Testing Machine
Biomedical and Public Health	Solar PV Installation
Material Science and Manufacturing	High Performance Computer (HPC)
Energy and Petroleum	Setup of Commercialisation Centre
Electronics and ICT	
Science and People	





## 2.8. Budget by Chart of Account

### 8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01702001 - Scientific And Industrial Research	331,791,902	332,039,523	332,039,523	332,039,523
21 - Compensation of Employees [GFS]	289,451,449	289,451,449	289,451,449	289,451,449
22 - Use of Goods and Services	34,130,682	34,130,682	34,130,682	34,130,682
31 - Non financial assets	8,209,771	8,457,392	8,457,392	8,457,392



# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 2: RESEARCH AND DEVELOPMENT**

### **SUB-PROGRAMME 2.2: Nuclear and Space Science Technology**

#### **1. Budget Sub-Program Objective**

To develop and promote the utilization of nuclear, biotechnology, space science and other related technologies for socio-economic development through research, training and commercialisation.

#### **2. Budget Sub-Program Description**

This sub-program involves the promotion of science, technology and innovation through research and development in nuclear science and space science technologies in various sectors of the economy. The activities of this sub-program are carried out by the Ghana Atomic Energy Commission through its six (6) institutes and the Graduate school of Nuclear and Allied Sciences (SNAS). The activities of the institutes and the Graduate School are co-ordinated at the Head office.

The core functions of this Sub-Programme are as follows;

- To make proposals to the Government for legislation in the field of nuclear radiation and radio-active waste management;
- To advise the Government on questions relating to nuclear energy, science, and technology;
- To establish, for the purposes of research and in furtherance of its functions, Institutes of the Commission and to exercise control over the boards of management of the Institutes;
- To encourage and promote the commercialisation of research and development results through its Institutes;
- To supervise the carrying out of all requirements designed to secure the safety and health of nuclear radiation workers and the environment;
- To engage in research and development activities, as well as in the publication and determination of research findings and other useful technical information;
- To oversee and facilitate the development of human resources in the fields of nuclear science and technology, and to promote the training of scientific, technical, and non-scientific personnel of the Commission;
- To maintain relations with the International Atomic Energy Agency and other similar international and national organisations, and to collaborate and liaise with those organisations on matters of research and development of nuclear energy and nuclear technology;



- To collaborate with Universities and Research Institutes for the purposes of conducting research into matters connected with the peaceful uses of nuclear energy and technology; and
- To perform any other functions determined by the Government.

### 3. Budget Sub-Programme Results Statement

The table below indicates the main outputs, its indicators and projections by which the performance of this sub-programme is measured. The past data indicates Budget performance whilst the projections are the Agency's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Conduct Safety assessment of telecommunication base stations/cell sites (Conditional Compliance assessment)	Number of Base Stations Assessed.	650	327	500	13	350	350	400	400
Telecommunication masts/base stations Monitored	Number of masts/base stations monitored	2500	562	2500	908	2500	3000	3000	3500
Occupational exposures for mine, industrial, medical, educational and research institution workers Monitored	Number of workers involved in the use of ionizing radiation monitored	1400	889	1600	1318	1800	1800	1800	1800
Farmers and other stakeholder groups trained in nuclear-based, smart agriculture technologies for sustainable crop production and reduction	Number of farmers trained	100	150	100	200	150	150	150	150



Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
of post-harvest losses									
Radiation contamination assessment of Consumables	Number of samples analysed	550	236	600	312	650	700	800	900
Siting and feasibility studies towards introduction of nuclear energy in Ghana	Level of completion (Phase 2)	30%	100% Preferred site selected	Address the 19 programme infrastructure issues	55% of the overall targets have been completed	Address the 19 programme infrastructure issues	Move into TSO activities.	Move into TSO activities.	Move into TSO activities
Training of Welding and NDT professionals.	Number of welders/NDT personnel certified.	7	7 personnel are being trained for level 2 certification in five (5) NDT techniques.	7	7 Tuition has been completed. Practical Exercises completed and passed. Awaiting certification by the Russians	7	7	7	7
Baseline study on knowledge, attitudes and practices of infant and young child feeding recommendations in Ga-East District	Completion of data Collections  Data entry and analysis	50%	80%	100%	60%	100%	100	100	100
Training and educating professionals	Number of radiation professionals trained	5 PhD 35 MPhil	2 PhD 21 MPhil	7 PhD 45 MPhil	5 PhD 51 MPhil	10 PhD 50MPhil 1	10 PhD 50 MPhil	12 PhD 55 MPhil	12 PhD 55 MPhil





Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
National quality assurance audit of diagnostic radiology practices.	Number of facilities audited	50	25	50	0	50	50	50	50



#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme

Operations	Projects
<b>Development, promotion and commercialisation of nuclear research and technology</b>	Construction of Fence wall
Health Physics and Instrumentation Research and Development (R&D), and Technical Services provision	Purchase of (Two) new Vehicles
Environmental Radiation Protection Research and Development (R&D), and Technical Services provision	Establishment of the Welding and NDT training facility
<b>Nuclear Power Programme</b>	
<i>Conduct stakeholder and public sensitisation on the Adoption of Nuclear Power</i>	
Water Resources	
<b>Siting and feasibility towards introduction of nuclear power</b>	
<i>Continue Phase 2 activities</i>	
Crop production	
GAEC International obligation - Subscriptions	
Commercialisation of nuclear agriculture research	
Study to inform research and policy on cervical cancer prevention in Ghana	
Medical Physics audit of diagnostic medical imaging machines in Ghana	





## 2.8. Budget by Chart of Account

### 8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01702002 - Nuclear Science And Space Science Technol	125,870,428	125,870,428	125,870,428	125,870,428
21 - Compensation of Employees [GFS]	92,310,104	92,310,104	92,310,104	92,310,104
22 - Use of Goods and Services	21,837,134	21,837,134	21,837,134	21,837,134
27 - Social benefits [GFS]	994,361	994,361	994,361	994,361
28 - Other Expense	2,257,049	2,257,049	2,257,049	2,257,049
31 - Non financial assets	8,471,780	8,471,780	8,471,780	8,471,780



# BUDGET SUB-PROGRAMME SUMMARY

## PROGRAMME 2: RESEARCH AND DEVELOPMENT

### SUB-PROGRAMME 2.3: Commercialisation of Research

#### 1. Budget Sub-Programme Objectives

- To commercialize and transfer research results and technologies to end-users in order to enhance agricultural productivity, health delivery and industrialization.
- To generate revenue, to supplement government of Ghana funds for research.

#### 2. Budget Sub-Programme Description

The CSIR is mandated by ACT 521 to pursue the implementation of scientific research and development and commercialisation of appropriate technologies in partnership with the Private Sector and other stakeholders for national development. Act 588 (2000) mandates the Ghana Atomic Energy Commission to pursue the commercial application of nuclear research in the areas of health, agriculture, industry and commerce.

This sub-programme promotes the commercialisation and application of scientific research in partnership with the Private Sector and other stakeholders for national development.

#### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Nuclear Technologies commercialized	Number of technologies developed	2	0	3	0	3	3	3	3
Nuclear products and services including consultancy and training commercialized	Number of products, services offered	45	0	50	0	55	55	55	55



#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme

Operations	Projects
Create public awareness for Scientific and Technological products and services	Set up/strengthen commercialization units of CSIR institutes and at CSIR Corporate level
Undertake Science and Technology outreach programmes	Establishment of Grants/Projects offices in all 13 CSIR institutes
Develop contacts with potential users of S&T products and services	
Create awareness about the benefit of nuclear energy and potential hazards of radioactive materials and installations	
Create public awareness for Scientific and Technological products and services	





# **BUDGET PROGRAMME SUMMARY**

## **PROGRAMME 3: ENVIRONMENT PROTECTION AND MANAGEMENT**

### **1. Budget Programme Objectives**

- To ensure better use of ecosystem services and natural resources, for purposes of poverty reduction and sustainable development; and
- To enhance the application of Act 490 and its regulations, to reduce environmental impacts, control environmental degradation and enhance restoration of degraded resources.
- To enhance the implementation of ACT 895, to provide for the regulation and management of activities and practices for the peaceful use of nuclear material or energy, radioactive material or radiation; to provide for the protection of persons and the environment against the harmful effects of radiation hazards; to ensure the effective implementation of the country's international obligations and for related matters.
- To coordinate the implementation of the Hazardous and Electronic Waste Control and Management Act (Act 917) and the Hazardous and Electronic Waste Control and Management Regulations (LI 2250).

### **2. Budget Programme Description**

This programme aims at protecting and improving the environment in Ghana by ensuring that air, land and water are protected by everyone in today's society, so that tomorrow's generation inherit a cleaner and healthier world. In achieving the overall aim of managing and governing the environment this programme outlines activities and programmes that seek to:

- Create awareness of mainstream environment into the development process at the national, regional, district and community levels;
- Ensure that the implementation of environmental policy and planning are integrated and consistent with the country's desire for effective, long-term maintenance of environmental quality;
- Ensure environmentally sound and efficient use of both renewable and non-renewable resources in the process of national development;
- Guide development to prevent, reduce, and as far as possible, eliminate pollution and actions that lower the quality of life;
- Apply the legal processes in a fair and equitable manner to ensure responsible environmental behaviour in the country; and
- Continuously improve EPA's performance to meet changing environmental trends and community aspirations.



- Provide for the protection of persons and the environment against the harmful effects of radiation hazards
- Provide for the control, management and disposal of hazardous waste, electrical and electronic waste and for related purposes

The programme is delivered by the Environmental Protection Agency (EPA), E-waste Fund, and Nuclear Regulatory Authority (NRA) through their Departments and Units in collaboration with various government-funded organizations, Development Partners and the Ministry of Environment, Science, Technology and Innovation.

The programme is funded by the Government of Ghana, Internally Generated Funds and Development Partners.





## 2.6 Budget by Chart of Account

### 6.0- Programme, Sub-Programme and Natural Account Summary

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

**Base Version**

	2024	2025	2026	2027
<b>01703 - Environmental Protection And Management</b>	<b>358,432,209</b>	<b>393,140,978</b>	<b>393,329,353</b>	<b>393,329,353</b>
<b>01703001 - Environmental Compliance And Enforcement</b>	<b>334,905,169</b>	<b>369,613,938</b>	<b>369,802,313</b>	<b>369,802,313</b>
21 - Compensation of Employees [GFS]	108,228,156	142,678,905	142,678,905	142,678,905
22 - Use of Goods and Services	183,918,515	184,031,535	184,060,410	184,060,410
27 - Social benefits [GFS]	1,450,000	1,595,000	1,754,500	1,754,500
28 - Other Expense	636,088	636,088	636,088	636,088
31 - Non financial assets	40,672,410	40,672,410	40,672,410	40,672,410
<b>01703003 - Enforcement and Compliance of ionizing and non-</b>	<b>23,527,040</b>	<b>23,527,040</b>	<b>23,527,040</b>	<b>23,527,040</b>
21 - Compensation of Employees [GFS]	15,097,826	15,097,826	15,097,826	15,097,826
22 - Use of Goods and Services	5,257,214	5,257,214	5,257,214	5,257,214
27 - Social benefits [GFS]	165,000	165,000	165,000	165,000
31 - Non financial assets	3,007,000	3,007,000	3,007,000	3,007,000



## **BUDGET SUB-PROGRAMME SUMMARY**

### **PROGRAMME 3: ENVIRONMENTAL PROTECTION AND MANAGEMENT**

#### **SUB-PROGRAMME 3.1: Environmental Compliance and Enforcement**

##### **1. Budget Sub-Programme Objective**

To undertake environmental assessment and ensure compliance with Act 490 and its regulations in order to avoid pollution and environmental degradation as well as stimulate sustainable development.

##### **2. Budget Sub-Programme Description**

This sub-programme is coordinated and implemented by the Environmental Protection Agency through the Environmental Quality, Manufacturing Industries, Mining, Natural Resources, Environmental Assessment and Audit, Petroleum, Built Environment and legal Departments as well as Chemicals Control and Management Centre.

This sub-programme is undertaken in collaboration with other stakeholders such as MDAs, MMDAs, Civil Society Organizations and the private sector. The Core areas of this sub-programme are:

- Providing technical advice on assessments;
- Compliance monitoring;
- Support identification and dissemination of best practices;
- Coordinating -activities associated with Environmental Assessment, compliance and enforcement;
- Environmental research and monitoring of air and water quality; and
- Management of chemicals, hazardous wastes (chemical and e-waste), pesticides and ozone depletion.



### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Improved compliance with sector specific EA guidelines and standards.	Percentage of sectors covered by EA:	100%	100%	100%	100%	100%	100%	100%	100%
	- oil and gas exploration,	85%	69%	88%	72%	90%	95%	96%	98%
	- agriculture								
Operationalise the National Oil Spill Plan	Number of simulation exercises undertaken	1	1	1	1	1	1	1	1
Give approval (EA and EMP permits) to companies for them to comply with Environmental Assessment (EA) regulations	Number of permits issued	7,100	9,090	8,500	8,970	9,000	9,500	11,600	12,000
Sample and analyse level of pollution of effluent quality from industries	Number of industries monitored for effluent quality	90	113	120	131	145	165	185	190
Undertake annual compliance monitoring	Number of Annual compliance monitoring events:	7	5	8	5	9	10	10	11
		14	40	15	42	16	18	18	20
Monitoring of environmental indicators - air quality	Number of monitoring locations (Accra + regions)	24 sites	18 sites	28 sites	23 sites	30 sites	35 sites	40 sites	45 sites





Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2024	Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Develop register on pesticides and industrial and consumer chemicals for proper handling and labelling	Copy of a completed Register	1	1	1	1	1	1	1	1
Carry out pesticides/ industrial chemicals post registration and licensing/compliance monitoring and surveillance	Number of monitoring undertaken	10	43	10	26	10	10	10	15
Monitor industries to ensure the use of bio-oxo degradable additives in the manufacture of flexible Plastics	Number of industries monitored	35	37	36	37	37	37	37	37
Incorporate climate change issues into sector medium term plans	Number of sectors with climate change mitigation and adaptation strategies	12	10	13	11	15	15	15	15

#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme.

Operations
Environmental Compliance and Enforcement (EIA Administration)
Environmental Education and Awareness Creation
Environmental Quality Monitoring (Air Quality, Effluent Quality, Vehicular Emission Programme)
Waste management (Source waste segregation, Plastic waste Management, E-waste Management)
Creation of new Area/District offices
Climate Change

Projects
Renovations and purchase of office equipment
Solar equipment at the Head office and Regional offices
Construction of new Regional and Area offices and Rehabilitation of existing ones
Office equipment & Office supplies
Logistics
Africa Environment Health and Pollution Management Program



Operations
Environmental Compliance and Enforcement (EIA Administration)
Environmental Education and Awareness Creation
Environmental Quality Monitoring (Air Quality, Effluent Quality, Vehicular Emission Programme)
Waste management (Source waste segregation, Plastic waste Management, E-waste Management)
Creation of new Area/District offices
Sustainable Land management activities
Human Resource Development
Logistics
Administration
Ghana Environmental Information Systems (Automation process)

Projects
Renovations and purchase of office equipment
Solar equipment at the Head office and Regional offices
Construction of new Regional an Area offices and Rehabilitation of existing ones
Office equipment & Office supplies
Logistics
Ghana Landscape Restoration and Small Scale Mining Project





## 2.8. Budget by Chart of Account

### 8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01703001 - Environmental Compliance And Enforceme	334,905,169	369,613,938	369,802,313	369,802,313
21 - Compensation of Employees [GFS]	108,228,156	142,678,905	142,678,905	142,678,905
22 - Use of Goods and Services	183,918,515	184,031,535	184,060,410	184,060,410
27 - Social benefits [GFS]	1,450,000	1,595,000	1,754,500	1,754,500
28 - Other Expense	636,088	636,088	636,088	636,088
31 - Non financial assets	40,672,410	40,672,410	40,672,410	40,672,410



# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 3. ENVIRONMENTAL PROTECTION AND MANAGEMENT**

### **SUB-PROGRAMME 3.2: Environmental Education, Information and Communication**

#### **1. Budget Sub-Programme Objective**

To improve comprehension of environmental concerns through raising awareness in the media and by means of environmental education and community-driven initiatives..

#### **2. Budget Sub-Programme Description**

The EPA as part of its core mandates as stated in Act 490 is enjoined to create awareness on environmental challenges facing the nation thereby ensuring that the environment is mainstreamed into every development process either at the national, regional, and district or community level. This sub-program is aimed at sensitizing citizens to take charge of their environment in order to promote sustainable use of every natural resource. The core areas of this sub-programme are:

- Stimulate environmental education in formal & non-formal education systems;
- Develop supportive materials for educational institutions;
- Stimulate community environmental initiatives and programmes; and
- Ensure effective use of available environmental information and data.

These activities are coordinated under the auspices of the Environmental Protection Agency with the following departments as the key implementers:

- Education Department;
- Environmental Information and Data Management Department;
- Public Affairs Department;
- Chemicals Control and Management Centre; and
- EPA Training School.

The Media, Academic and Research Institutions collaborate with these departments in executing the above activities.



### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2023	Indicative Year 2024	Indicative Year 2025	Indicative Year 2026
		Target	Actual	Target	Actual				
E-waste recyclers trained on sustainable management of e-waste	Number of trainings undertaken.	6	9	8	7	10	12	14	16
Stakeholders trained on pesticide regulation and safe/judicious use of pesticides.	Number of training exercises undertaken on safe handling of pesticides	8	27	10	0	12	14	16	18

### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme.

Operations	Projects
Environmental protection and Education	Computers and accessories
Environmental Education and Awareness Creation	Vehicles
Ghana Environmental Information System (including automation of the Agency's processes and activities)	



# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 3. ENVIRONMENTAL PROTECTION AND MANAGEMENT**

### **SUB-PROGRAMME 3.3 Enforcement and Compliance of Ionizing and Non-Ionizing Radiation**

#### **1. Budget Sub-Programme Objective**

To ensure the protection of humans and the environment from the harmful effects of radiation.

#### **2. Budget Sub-Programme Description**

The NRA Act 895, established the Nuclear Regulatory Authority in 2016 to provide for the regulation and management of activities and practices for the peaceful use of nuclear material or energy, radioactive material or radiation;

This sub-programme seeks to provide for the protection of persons and the environment against the harmful effects of radiation hazards; to ensure the effective implementation of the country's international obligations and for related matters. Core functions include;

- Regulate the introduction of radiation sources, nuclear materials, equipment or practices that expose workers, patients, the public and the environment to radiation.
- Issue, modify, suspend or revoke authorization and determine conditions for authorisation.
- Regulate research on radiation and nuclear safety and security, and of radioactive waste matters.
- Regulate the use of radioactive materials in the exploration, exploitation and extraction of oil and gas, and the mining and milling of radioactive ores and other ores associated with radioactive and nuclear materials.
- Define the detailed obligations to be placed on persons who possess radiation sources and nuclear materials, including financial conditions.
- Establish and maintain a national register of radiation sources and of persons authorised to carry out any activity or practice related to a source of radiation.
- Collect information, documents and views from private and public organisations or persons as may be necessary and appropriate for the discharge of its functions.





- Collaborate with agencies responsible for emergency to establish plans and procedures for coping with any radiological emergency and abnormal occurrence involving a nuclear material, radiation source or any other radioactive source.
- Ensure that the operators provide training, information and guidance on nuclear safety, security and safeguards and radiation protection of the public.
- Educate the public on nuclear and radiation matters.
- Establish regional and other offices as it may consider necessary for the proper performance of its functions.
- Facilitate the conduct of inspections by designated inspectors of the International Atomic Energy Agency to verify design information, inspections and complementary access as provided for in the safeguards agreement and the additional protocols.
- Collect, collate and provide information to the International Atomic Energy Agency in accordance with the safeguards agreement and any additional protocols to the agreement.
- Exchange information and co-operate with regulatory authorities of other countries and relevant international organizations on matters of nuclear safety, nuclear security and safeguards.
- Collaborate with the Environmental Protection Agency to identify activities and practices that may require Environmental Impact Assessment and develop environmental guidelines for those activities and practices.
- Ensure that the polluter pays principle is applied in the management of nuclear and radioactive waste in the country.
- Review nuclear safety assessment and safety analysis reports from authorised persons;



### 3. Budget Sub-Programme Results Statement

The table indicates the main outputs, its indicators and projections by which the Ministry measures the performance of this sub-programme. The past data indicates Budget performance whilst the projections are the Ministry's estimate of future performance.

Main Outputs	Output Indicator	Past Years				Projections			
		2022		2023		Budget Year 2023	Indicative Year 2024	Indicative Year 2025	Indicative Year 2026
		Target	Actual	Target	Actual				
Users of radiation complying with provisions of the regulations and guidance documents	Number of users of radiation applying the regulations and guidance documents	200	50	240	430	300	350	400	450
Up-to-date National register of radiation sources and of persons authorized to carry out any activity or practice related to a source of radiation.	Number of new equipment added to the register	110	50	120	103	120	120	120	120
Compliance by users of radiation sources and devices to Regulatory Requirements	Number of radioactive sources and devices authorised	900	290	950	590	700	750	800	850
	Number of permits issued	230	288	240	357	250	260	270	280
Non-compliance issues Resolved	Number of enforcement notices issued	35	9	39	12	40	42	44	48



#### 4. Budget Sub-Programme Operations and Projects

The table lists the main Operations and projects to be undertaken by the sub-programme

Operations	Projects
Procure foreign consultancy services for review and assessment for the new nuclear power programme	Acquire ICT infrastructure
Train staff in specialised areas (ionizing and non-ionizing radiation, public administration/management, etc.) in local and foreign institution	Acquire office equipment
Development and promulgation of regulations on nuclear materials and facilities, radiation emitting devices, and radioactive materials	Purchase of Laboratory Equipment
Nationwide regulatory inspections to ensure compliance with regulatory requirements	Acquire a cross country vehicle and a saloon car for regulatory and administrative activities
Administration and payment of utilities	Major renovation of Support Centre building
	Acquire a comprehensive computer software for the Authority
	Acquire computer and computer accessories for staff of the Authority





## 2.8. Budget by Chart of Account

### 8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01703003 - Enforcement and Compliance of ionizing a	23,527,040	23,527,040	23,527,040	23,527,040
21 - Compensation of Employees [GFS]	15,097,826	15,097,826	15,097,826	15,097,826
22 - Use of Goods and Services	5,257,214	5,257,214	5,257,214	5,257,214
27 - Social benefits [GFS]	165,000	165,000	165,000	165,000
31 - Non financial assets	3,007,000	3,007,000	3,007,000	3,007,000



# **BUDGET PROGRAMME SUMMARY**

## **PROGRAMME 5: BIOTECHNOLOGY DEVELOPMENT**

### **1. Budget Programme Objectives**

- To promote public awareness, participation and education concerning the activities of the Authority
- To liaise with any other agency or international organisations concerned with biotechnology and biosafety
- To receive, process, respond to and make decisions on biosafety applications.

### **2. Budget Programme Description**

The Biotechnology Development programme ensures an adequate level of protection in the field of safe development transfer, handling and use of genetically modified organisms resulting from biotechnology that may have an adverse effect on health and the environment. This programme, which is implemented by the National Biosafety Authority (NBA) is responsible for:

- Receiving, processing, responding to and making decisions on biosafety applications;
- Establishing administrative mechanisms to ensure the appropriate handling and storing of documents and data in connection with the processing of applications and any other matters;
- Acting as the national focal point responsible for liaising with any other agency or international organisations concerned with biotechnology and biosafety; and
- Promoting public awareness, participation and education concerning the activities of the Authority.





## 2.6 Budget by Chart of Account

6.0- Programme, Sub-Programme and Natural Account Summary

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Funding: All Source of Funding

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	2024	2025	2026	2027
<b>01705 - Biosafety Development</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>
<b>01705001 - Biotechnology Regulation</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>	<b>2,284,449</b>
21 - Compensation of Employees [GFS]	872,736	872,736	872,736	872,736
22 - Use of Goods and Services	1,229,714	1,229,714	1,229,714	1,229,714
27 - Social benefits [GFS]	82,000	82,000	82,000	82,000
31 - Non financial assets	100,000	100,000	100,000	100,000





# **BUDGET SUB-PROGRAMME SUMMARY**

## **PROGRAMME 5: BIOTECHNOLOGY DEVELOPMENT**

### **SUB-PROGRAMME 5.1: Biosafety Regulation**

#### **1. Budget Sub-Programme Objectives**

- To effectively regulate the production and transfer of genetically modified organisms (GMOs).
- To educate the general public on biosafety issues.

#### **2. Budget Sub-Programme Description**

This sub-programme looks at regulating the activities of agencies and organisations that apply the principles of biosafety. This sub-programme is also responsible for implementing the Biosafety Act.

Major Operations to be undertaken include, to:

- Regulate the production and transfer of genetically modified organisms; and
- Educate the general public on biosafety issues.



### 3. Budget Sub-Programme Results Statement

The table illustrates the main outputs, their associated indicators, and the forecasts used by the Ministry to evaluate the performance of this sub-program. Historical data represents the budgetary performance, while the projections reflect the Ministry's anticipated future performance.

Main Outputs	Output Indicator	Past Years				Budget Year 2024	Projections		
		2022		2023			Indicative Year 2025	Indicative Year 2026	Indicative Year 2027
		Target	Actual	Target	Actual				
Number of approvals issued for non GMO status	Number of decisions made on non-GMO use	2	1	4	1	7	10	10	10
Monitoring and Inspection of GMOS use activities	Number of monitoring and inspections reports generated	4	2	6	2	6	8	8	10
Application reviewed on GMO use	Number of decisions on GMO use	4	4	4	2	8	10	10	10
Personnel trained in Biosafety	Number of reports submitted on trainings conducted	8	13	10	12	10	10	15	10
Biosafety public education conducted	No. of Reports on public education conducted	8	13	10	0	10	10	15	10
Construction of NBA office completed	Percentage of completion	10%	0%	70%	0%	100%	-	-	-
Number of approvals issued for GMO status	Number of decisions made on GMO use	4	4	4	2	2	4	6	6



#### 4. Budget Sub-Programme Operations and Projects

The table lists the main operations and projects to be undertaken under the programme

Operations	Projects
Receive, review and make decisions on Biosafety applications on GMO use.	Develop Architectural Plans and walling of NBA office land.
Facilitate activities of the Technical Advisory Committee, and the Appeals Tribunal	Complete GMO detection laboratory
Initiate Institutional Biosafety Committee establishment drive	
Conduct monitoring and inspection of GMO use activities	
Promote public education, sensitization and participation on biosafety	
Develop and print public educational materials	
Conduct meetings, workshops and conferences on Biosafety	
Training of personnel on emerging issues on Biosafety	
Human Resource Development	
Management and Administration	





## 2.8. Budget by Chart of Account

### 8 - Sub-Programme and Natural Account

**Entity:** 017 - Ministry of Environment Science, Technology and Innovation

**Funding:** All Source of Funding

**Year:** 2024 | **Currency:** Ghana Cedi (GHS)

	2024	2025	2026	2027
01705001 - Biotechnology Regulation	2,284,449	2,284,449	2,284,449	2,284,449
21 - Compensation of Employees [GFS]	872,736	872,736	872,736	872,736
22 - Use of Goods and Services	1,229,714	1,229,714	1,229,714	1,229,714
27 - Social benefits [GFS]	82,000	82,000	82,000	82,000
31 - Non financial assets	100,000	100,000	100,000	100,000





## 1.6 Appropriation Bill

Summary of Expenditure by Cost Center, Economic Item and Funding

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	GoG				IGF				Funds / Others			Donors			Grand Total
	Compensation of employees	Goods and Services	Capex	Total	Compensation of employees	Goods and Services	Capex	Total	Statutory	ABFA	Others	Goods and Services	Capex	Total	
<b>017 - Ministry of Environment Science, Technology and Innovation</b>	<b>403,586,615</b>	<b>21,789,115</b>	<b>152,339,971</b>	<b>577,715,701</b>	<b>107,662,262</b>	<b>169,511,002</b>	<b>60,460,961</b>	<b>337,634,225</b>				<b>258,635,893</b>		<b>258,635,893</b>	<b>1,173,985,819</b>
01701 - Headquarters	5,044,206	17,002,617	152,339,971	174,386,794								180,975,636		180,975,636	355,362,431
0170101 - Finance and Administration	5,044,206	3,124,447	32,339,971	40,508,624								13,967,672		13,967,672	54,476,296
0170101001 - Admin Office	5,044,206	3,124,447	32,339,971	40,508,624								13,967,672		13,967,672	54,476,296
0170102 - Science and Technology Directorate		12,500,723	120,000,000	132,500,723											132,500,723
0170102001 - Science and Technology Office		12,500,723	120,000,000	132,500,723											132,500,723
0170103 - Policy, Planning, Monitoring and Evaluation		365,445		365,445								85,995,466		85,995,466	86,360,911
0170103001 - PPME Office		365,445		365,445								85,995,466		85,995,466	86,360,911
0170104 - RSIM Directorate		224,889		224,889											224,889
0170104001 - RSIM Office		224,889		224,889											224,889
0170105 - Human Resource Directorate		562,224		562,224											562,224
0170105001 - Human Resource Office		562,224		562,224											562,224
0170106 - Environment Directorate		224,889		224,889								81,012,499		81,012,499	81,237,388
0170106001 - Environment Office		224,889		224,889								81,012,499		81,012,499	81,237,388
01702 - Environmental Protection Agency					107,662,262	90,914,798	40,672,410	239,249,470				77,660,257		77,660,257	316,909,727
0170201 - Head Office					107,662,262	90,914,798	40,672,410	239,249,470				77,660,257		77,660,257	316,909,727
0170201001 - Gen. Admin Office					107,662,262	90,914,798	40,672,410	239,249,470				77,660,257		77,660,257	316,909,727
01704 - Ghana Atomic Energy Commission (G.A.E.C)	92,310,104	1,291,595		93,601,699		23,796,949	8,471,780	32,268,729							125,870,428
0170401 - Head Office	12,912,244	1,291,595		14,203,839		14,672,902	6,288,387	20,961,289							35,165,128
0170401001 - Admin Office	12,912,244	1,291,595		14,203,839		14,672,902	6,288,387	20,961,289							35,165,128
0170402 - National Nuclear Research Institute (N.N.R.I.)	16,407,259			16,407,259		1,303,392	558,597	1,861,989							18,269,249
0170402001 - N.N.R.I. Office	16,407,259			16,407,259		1,303,392	558,597	1,861,989							18,269,249
0170403 - Biotechnology and Nuclear Research Institute (B.N.R.I.)	14,191,045			14,191,045		947,434	405,900	1,353,334							15,544,379
0170403001 - B.N.R.I. Office	14,191,045			14,191,045		947,434	405,900	1,353,334							15,544,379
0170404 - Radiation Protection Institute (R.P.I.)	14,068,605			14,068,605		4,935,576	259,767	5,195,343							19,263,948
0170404001 - R.P.I. Office	14,068,605			14,068,605		4,935,576	259,767	5,195,343							19,263,948



## 1.6. Appropriation Bill

Summary of Expenditure by Cost Center, Economic Item and Funding

Entity: 017 - Ministry of Environment Science, Technology and Innovation  
 Year: 2024 | Currency: Ghana Cedi (GHS)  
 Base Version

	GoG				IGF				Funds / Others			Donors			Grand Total
	Compensation of employees	Goods and Services	Capex	Total	Compensation of employees	Goods and Services	Capex	Total	Statutory	ABFA	Others	Goods and Services	Capex	Total	
0170405 - School of Nuclear and Allied Sciences	14,727,671			14,727,671		1,171,251	630,674	1,801,925							16,529,596
0170405001 - School of Nuclear and Allied Sciences Office	14,727,671			14,727,671		1,171,251	630,674	1,801,925							16,529,596
0170406 - Radiological and Medical Sciences Research Institute	6,560,614			6,560,614		217,000	93,000	310,000							6,870,615
0170406001 - Radiological and Medical Sciences Research Institute Office	6,560,614			6,560,614		217,000	93,000	310,000							6,870,615
0170407 - Nuclear Power Institute	7,451,075			7,451,075		12,600	5,400	18,000							7,469,075
0170407001 - Nuclear Power Institute Office	7,451,075			7,451,075		12,600	5,400	18,000							7,469,075
0170408 - Ghana Space and Tech. Inst.	5,991,590			5,991,590		536,794	230,054	766,848							6,758,438
0170408001 - Ghana Space and Tech. Inst Office	5,991,590			5,991,590		536,794	230,054	766,848							6,758,438
01705 - Office of the E-waste Fund Administrator	810,294	379,881		1,190,175		17,049,667		17,049,667							18,239,842
0170501 - Gen. Admin	810,294	379,881		1,190,175		17,049,667		17,049,667							18,239,842
0170501001 - Admin Office	810,294	379,881		1,190,175		17,049,667		17,049,667							18,239,842
01750 - Council for Scientific and Industrial Research (CSIR)	289,451,449	1,291,595		290,743,043		32,839,088	8,209,771	41,048,859							331,791,902
0175001 - Head Office	44,579,891	141,688		44,721,579		2,687,946	671,986	3,359,932							48,081,511
0175001001 - General Administration	44,579,891	141,688		44,721,579		2,687,946	671,986	3,359,932							48,081,511
0175002 - Crops Research Institute	26,251,637	86,149		26,337,786		1,659,659	414,915	2,074,573							28,412,360
0175002001 - Admin Office	26,251,637	86,149		26,337,786		1,659,659	414,915	2,074,573							28,412,360
0175003 - Animal Research Institute	20,635,618	76,333		20,711,951		672,647	168,162	840,809							21,552,760
0175003001 - Admin Office	20,635,618	76,333		20,711,951		672,647	168,162	840,809							21,552,760
0175004 - Soil Research Centre	4,692,953	28,544		4,721,497		109,347	27,337	136,684							4,858,181
0175004001 - Admin Office	4,692,953	28,544		4,721,497		109,347	27,337	136,684							4,858,181
0175005 - Building, Road and Research Institute	19,061,970	85,116		19,147,086		6,595,967	1,648,992	8,244,959							27,392,044
0175005001 - Admin Office	19,061,970	85,116		19,147,086		6,595,967	1,648,992	8,244,959							27,392,044
0175006 - Food Research Institute	16,114,386	84,212		16,198,598		2,130,719	532,680	2,663,399							18,861,997
0175006001 - Admin Office	16,114,386	84,212		16,198,598		2,130,719	532,680	2,663,399							18,861,997
0175007 - Institute of Industrial Research	17,034,624	74,654		17,109,278		735,158	183,789	918,947							18,028,225
0175007001 - Admin Office	17,034,624	74,654		17,109,278		735,158	183,789	918,947							18,028,225
0175008 - Water Research Institute	25,139,834	90,153		25,229,987		5,052,360	1,263,090	6,315,450							31,545,438





## 1.6. Appropriation Bill

Summary of Expenditure by Cost Center, Economic Item and Funding

Entity: 017 - Ministry of Environment Science, Technology and Innovation

Year: 2024 | Currency: Ghana Cedi (GHS)

Base Version

	GoG				IGF				Funds / Others			Donors			Grand Total
	Compensation of employees	Goods and Services	Capex	Total	Compensation of employees	Goods and Services	Capex	Total	Statutory	ABFA	Others	Goods and Services	Capex	Total	
0175008001 - Admin Office	25,139,834	90,153		25,229,987		5,052,360	1,263,090	6,315,450							31,545,438
<b>0175009 - Oil Palm Research Institute</b>	14,637,250	86,149		14,723,399		4,456,699	1,114,175	5,570,874							20,294,274
0175009001 - Admin Office	14,637,250	86,149		14,723,399		4,456,699	1,114,175	5,570,874							20,294,274
<b>0175010 - Savana Agricultural Research Institute</b>	25,241,137	86,020		25,327,157		1,298,355	324,589	1,622,944							26,950,101
0175010001 - Admin Office	25,241,137	86,020		25,327,157		1,298,355	324,589	1,622,944							26,950,101
<b>0175011 - Science &amp; Tech Policy Research Institute</b>	7,532,219	55,926		7,588,145		166,586	41,646	208,232							7,796,377
0175011001 - Admin Office	7,532,219	55,926		7,588,145		166,586	41,646	208,232							7,796,377
<b>0175012 - Forestry Research Institute of Ghana</b>	17,752,435	78,658		17,831,093		5,280,945	1,320,236	6,601,181							24,432,274
0175012001 - Admin Office	17,752,435	78,658		17,831,093		5,280,945	1,320,236	6,601,181							24,432,274
<b>0175013 - Plant Genetic Resource Research Institute</b>	9,900,814	65,226		9,966,040		690,471	172,618	863,088							10,829,128
0175013001 - Admin office	9,900,814	65,226		9,966,040		690,471	172,618	863,088							10,829,128
<b>0175014 - Institute of Science and Technology Information</b>	8,679,225	70,650		8,749,875		311,746	77,937	389,683							9,139,558
0175014001 - Institute of Science and Technology Information Office	8,679,225	70,650		8,749,875		311,746	77,937	389,683							9,139,558
<b>0175015 - Soil Research Institute</b>	13,045,342	99,065		13,144,407		990,484	247,621	1,238,105							14,382,512
0175015001 - Admin Office	13,045,342	99,065		13,144,407		990,484	247,621	1,238,105							14,382,512
<b>0175016 - Ghana Grains and Development Project</b>	15,346,252	83,050		15,429,302											15,429,302
0175016001 - Admin Office	15,346,252	83,050		15,429,302											15,429,302
<b>0175017 - Roots and Tuber Project</b>	3,805,862			3,805,862											3,805,862
0175017001 - Admin Office	3,805,862			3,805,862											3,805,862
<b>01751 - National Biosafety Authority (NBA)</b>	872,736	911,714		1,784,449		400,000	100,000	500,000							2,284,449
0175101 - General Admin	872,736	911,714		1,784,449		400,000	100,000	500,000							2,284,449
0175101001 - Admin Office	872,736	911,714		1,784,449		400,000	100,000	500,000							2,284,449
<b>01752 - Nuclear Regulatory Authority</b>	15,097,826	911,714		16,009,540		4,510,500	3,007,000	7,517,500							23,527,040
0175201 - Gen. Admin	15,097,826	911,714		16,009,540		4,510,500	3,007,000	7,517,500							23,527,040
0175201001 - Admin Office	15,097,826	911,714		16,009,540		4,510,500	3,007,000	7,517,500							23,527,040

