

#### **FOREWORD**



The Sixth Assessment Report (IPCC 6AR) published by the Intergovernmental Panel on Climate Change in early 2023, has reaffirmed the unequivocal threats posed by climate change. Climate change is happening all around us as noticed in the rising global temperature which has exceeded 1.09 degree Celsius above normal. The report has further stated that even a small amount of additional warming threatens food production and food security due to more severe and frequent heat waves, droughts and floods along with sea level rise.

Studies indicate that temperature increases in Zambia are projected to reach 1.9 degrees Celsius and 2.3 degrees Celsius by 2050 and 2100, respectively. In addition, extreme seasonal floods and droughts have increased in frequency, intensity and magnitude as a result of climate change, costing the nation an estimated 0.4% in annual economic growth. This global challenge including our own experience dealing with floods and droughts that have had economic consequences provided strong impetus for Zambia to not only integrate climate change across sectors of the 8th National Development Plan but also to dedicate a chapter in the Plan on Environmental Sustainability. By this action, Government has recognised the need to strengthen adaptation and mitigation measures including disaster risk reduction efforts in its pursuit for economic development.

The NDC Implementation Framework will serve as an important instrument for Zambia to take action on climate change. It will also serve as a dashboard highlighting priority sectors, outcomes and output areas including key performance indicators. Specific milestones and targets including their associated implementation costs are also on highlighted in the Framework. In this way, Government has provided clear guidance to the people of Zambia, the nature of actions needed for the nation to reduce greenhouse gases and to adapt to the impacts of climate change over the next eight (8) years. A unique feature in this Framework is the inclusion of the Banking and Finance Sector

whose aim is to strengthen resource mobilisation to ensure availability of adequate financial resources for addressing the negative effects of climate change.

The elaborated Implementation Framework is the Government of the Republic of Zambia's call for investments in the priority sectors that have been highlighted. Zambia requires US\$17.2 billion between 2023 and 2030 to effectively contribute to the implementation of commitments under the Paris Agreement. Approximately 75% of the total investments are needed in the energy-based sectors such as renewable energy, transport and Industry at a cost of US\$12.8 billion in the next eight (8) years. On average, Zambia's climate budget is estimated at US\$2.1 billion annually, this demonstrates the huge deficit we face and the need for external support.

Therefore, through this NDC Implementation Framework, it is clear to see that Zambia is open for business and investments. I urge all stakeholders, most especially the private sector and our Cooperating Partners to work with Government and utilise this NDC Implementation Framework as an invitation to invest and to support Zambia's green agenda to fight climate change.



Hon. Eng. Collins Nzovu, MP.
MINISTER OF GREEN ECONOMY AND ENVIRONMENT

#### ACKNOWLEDGEMENTS



This Nationally Determined Contribution (NDC) Implementation Framework is a demonstration of commitment by the Government of the Republic of Zambia to take concrete actions on climate change across key sectors of the economy. It is also a demonstration of the importance of a multi-sectoral collaboration across a wide spectrum of our society to establish a pathway for achieving a low carbon and climate resilient development. This Implementation Framework is a product of concerted efforts by many officials from public, civil society and private sector institutions. In particular, inputs to the Framework were received from the departments within the Ministry of Green Economy and Environment; Zambia Environmental Management Agency (ZEMA), Ministry of Water Development and Sanitation, Ministry of Finance and National Planning, Bank of Zambia, Securities and Exchange Commission, Ministry of Agriculture, Ministry of Fisheries and Livestock, Ministry of Energy, Ministry of Transport and Logistics and the Disaster Management and Mitigation Unit (DMMU) in the Office of the Vice President.

During the preparation process, stakeholder consultations were conducted through virtual sessions, in-person meetings and validation workshops which comprised representatives from Government Ministries, Statutory Bodies, Civil Society Organisations (CSOs), Non-Governmental Organizations (NGOs) and Academia. As such data collection processes ensured transparency, ownership, consensus building and the integration of policy, programme and project documents, for enhancing the quality and accuracy of the Framework.

I wish to express my gratitude to NDC Partnership Support Unit who through its partners provided financial and technical support towards the preparation and subsequent quality control of the Framework. I also wish to extend Government's gratitude to all the Cooperating Partners that contributed towards the NDC Implementation Framework preparation process. Special thanks go to the technical team within the Ministry of Green Economy and

Environment which included the Green Economy and Climate Change and the Zambia Environmental Management Agency that spearheaded the drafting and subsequent validation of the Framework. The collaborative and complimentary efforts across departments to achieve common objectives are commendable.

Implementing the actions identified in the NDC Implementation Framework requires resources from both domestic and international sources. This is both a challenge and an opportunity to develop solutions on one hand and strengthen resource mobilization capacities on the other. Raising awareness about the prospects for a low carbon and climate resilient economy is a natural response for Government and stakeholders. Let us rise up to the occasion and respond appropriately to the challenge with solutions as guided in this important document over the next eight (8) years.

Dr. Douty Chibamba Permanent Secretary

MINISTRY OF GREEN ECONOMY AND ENVIRONMENT

#### LIST OF ACRONYMS

8NDP 8th National Development Plan

AFOLU Agriculture Forest and other Land Uses

BAU Business-As-Usual BOZ Bank of Zambia

ccGAP Climate Change Gender Action Plan
CFM Community Forest Management

CFL Compact Fluorescent Lamp

CO2 Carbon Dioxide

CSA Climate Smart Agriculture
EWS Early Warning Systems
GCF Green Climate Fund
GDP Gross Domestic Product

GgCO<sub>2eq</sub> Giga grams of Carbon Dioxide equivalent

GHG Greenhouse Gas

IAPRI Indaba Agriculture Policy Research Institute IPCC Intergovernmental Panel on Climate Change

LEDS Low Emission Development Strategies MRV Measuring Reporting and Verification

MW Megawatts

NAMA Nationally Appropriate Mitigation Action

NAP National Adaptation Plan

NAPA National Adaptation Programme of Action
NBSAP National Biodiversity Strategy and Action Plan

NDC Nationally Determined Contribution

NDP National Development Plan

NPCC National Policy on Climate Change PIA Pensions and Insurance Authority

REDD Reducing Emissions from Deforestation and Forest Degradation

SEC Securities Exchange Commission
SNAP Second National Agriculture Policy
SDG Sustainable Development Goals
SFM Sustainable Forest Management

TORS Terms of References

TNA Technological Needs Assessment
TNC Third National Communication

TWG Technical Working Group

UNDP United Nations Development Programme

UNFCCC United Nations Framework Convention on Climate Change

ZEMA Zambia Environmental Management Agency ZMD Zambia Meteorological Department

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### Zambia

#### **Nationally Determined Contribution Implementation Framework**

The NDC Implementation Framework Narrative summarizes the content and the context behind Zambia's NDC implementation developed by the Government of Zambia with support from the NDC Partnership. The Narrative follows the validation of the Framework by the Government of Zambia, and before Implementing and Development Partners respond with indications of support. The following information intends to help NDC Partnership members and non-members identify opportunities to engage early in the NDC implementation process. Partners interested in supporting a Framework component are invited to reach out to the Government and the Partnership for additional information.

#### 1. CONTEXT AND DEVELOPMENT OUTCOMES

Zambia's Eighth National Development Plan (8NDP) has identified environmental sustainability as an important strategic area. Among the outcome areas of the 8NDP are strengthened climate change adaptation, strengthened climate change mitigation and enhanced disaster risk reduction and response. The Development Plan has further acknowledged the important role the Nationally Determined Contributions (NDC) will play in achieving environmental sustainability during the period of implementation. The NDC was developed with a conditional pledge of reducing Greenhouse Gas (GHG) emissions by 25% (20,000 Gg CO2 eq.) by 2030 against a base year of 2010 under the BAU scenario with levels of international support prevailing in 2015 or by 47% (38,000 Gg CO2 eq.) with substantial international

support. Therefore, the Government will utilize the NDC Implementation Framework as a tool to operationalize the aspirations of the 8NDP on environmental sustainability. This will be done by implementing the 11 clustered sectors and 18 outcome areas carefully selected and prioritized to guide the implementation of adaptation and mitigation actions. The sectors of interest include Banking and Finance – Fiscal Policy, Agriculture Forest and Land Use -AFOLU Multi-sector (Climate institutional Capacity, Information, Transparency, and Environmental Issues), Forest, Energy, Buildings and Infrastructure, Waste Management, Health, Water, Industry, and Transport. The NDC Implementation Framework has identified 135 measures and 158 key performance indicators. The estimated implementation cost of the Framework is US\$17.2 billion covering the 8-year period of 2023 to 2030. Renewable Energy generation, Railway and expansion of social security system are the key cost drivers of the Framework.

## 1.1. Outcomes and Rationale for the Zambia NDC Implementation Framework

#### 1.1.1. Banking & Finance- Fiscal Policy

**Policies Improved to Foster Low-Carbon and Resilient Sustainable Development:** Zambia has adopted a two-pronged approach to financing its NDC through a business-as-usual unconditional scenario and new approach utilizing the conditional scenario. The business-as-usual approach includes domestic resources the country can mobilize and limited international support estimated at US\$15 billion. The conditional scenario includes the mobilization of adequate international resources from bilateral and multilateral sources in the amount of US\$35 billion for the period 2016 to 2030. To achieve this objective, the Ministry of Finance and National Planning intends to improve the fiscal regime and public finance management to foster low carbon and resilient sustainable development, enhance domestic resource mobilization, increase the efficiency of public expenditure, halt the accumulation of arrears and improve fiscal transparency. The Ministry will furthermore develop a resource mobilization strategy, create a climate change fund

and ensure key tools for mainstreaming climate change and budget tracking of budget allocations and expenditures are developed and deployed. During the Implementation period of this Framework, total financial resources amounting to US\$17.2 billion from domestic and international sources would have been mobilized and expended towards achieving the outputs identified in the Framework. The improvement of fiscal policies to foster low carbon and resilient sustainable development alone is estimated to cost US\$1.78 million by 2030.

#### 1.1.2. Banking & Finance - Financial Sector

Financial Stability and Supervisory Policy and Procedures Improved to Foster Low-Carbon and Resilient Sustainable Development: The Intergovernmental Panel on Climate Change (IPCC), in the latest Sixth Assessment report, has cited the importance of awareness raising by investors, central banks, and financial regulators for climate policy development and subsequent implementation. As a critical action point, during the implementation of the 8NDP and the NDC Implementation Framework, monetary and financial sector policies will aim to maintain price and financial system stability to promote sustainable growth. As an important financial stability and supervisory measure, the tripartite green finance working group comprising the Bank of Zambia (BOZ), the Securities Exchange Commission (SEC) and the Pensions and Insurance Authority (PIA) will target the improvement of policies and procedures to foster low-carbon and resilient sustainable development. Specific outputs include the development of green finance and green loans guidelines and the development of climate taxonomy including incentives for green bonds and associated market. The estimated budget for all the outputs is US\$450,000 with a target delivery date of June 2024.

#### 1.1.3. AFOLU- Agriculture

Strengthened climate resilience of agricultural production and agriculture productivity: Agriculture is central to Zambia's efforts to respond to climate change and economic growth. The vision of the second national agriculture policy launched

in 2016 is an efficient, competitive and sustainable agricultural sector, which assures food and nutrition security, increased employment opportunities and incomes. As highlighted in the 8NDP, the agriculture sector provides livelihoods to more than 70% of Zambia's population. The Revised NDC has projected emission reduction in the agriculture sector to reach 1,232GgCO2 eq. through sustainable agricultural production practices. As such, in the NDC Implementation Framework, the Government has prioritized the strengthening of climate resilience of agricultural production and productivity through the promotion of irrigation and efficient use of water resources targeting 80,000 households1 by 2026. Other measures include increasing the use of technologies for soil fertility improvement and moisture storage (including soil conservation measures) targeting 700,000 farming households while 750,000 additional farming households will increase the use of indigenous and scientific knowledge on drought tolerant crop types. Additional actions include upscaling to social cash transfer by the vulnerable farmers to 1,500,000, increased access of farming households to insurance against climate-induced risks related to agriculture and infrastructure targeting 1,100,000, accelerated implementation of food security packs, conservation and commercialization of indigenous crop varieties and implementation of gender-sensitive agriculture technologies. The estimated cost of implementing the priority activities is approximately US\$2.5 billion by 2030.

#### 1.1.4. Multi-Sector- Climate Information

Enhanced Early Warning Systems with a Focus on Agriculture, Livestock and Fisheries Implemented: As the frequency and intensity of climate-related shocks in Zambia increase, there is an urgent need for the country to enhance its Early Warning Systems (EWSs) as one way to strengthen adaptation to a changing climate. The Government of Zambia has prioritized the improvement of early warning systems in the agriculture, livestock and fisheries sector for installing critical technologies and developing the necessary systems to integrate climate change-related information into

<sup>&</sup>lt;sup>1</sup> This is roughly 400,000 people at an average of 5 people per household. Zambia's population is currently estimated at 19.5 million people in 2022.

decision-making processes. To enhance disaster risk management, the Government will strengthen disaster risk reduction measures and enhance early warning systems for timely action including promoting disaster preparedness for effective response to build back better in recovery, rehabilitation and reconstruction. Further, the Government will expand and modernize weather and climate observations infrastructure by 500 units for ground stations, 2400 rainfall stations and 5 upper air Monitoring systems. Through the Zambia Meteorological Department, the Government will increase awareness and information about climate change risks and early warning in key sectors. The total estimated budget of the actions highlighted above is US\$29.7 million by 2030.

#### 1.1.5. AFOLU-Forestry 1

Reduced vulnerability and strengthened resilience of livelihoods among forest communities: Forest lands represent the lifeline of rural economies and daily subsistence, with the sector currently contributing about 5.2% to the nation's GDP and providing formal and informal employment to about 1.1 million people. From 2001 to 2017, Zambia lost 2.5 million hectares or about 6% of the tree cover across the country. In line with the provisions of the 8NDP and the Revised NDC 2021, the NDC Implementation Framework will focus on programmes aimed at reversing the growing threats to natural resources ranging from habitat transformation, encroachment, uncontrolled wildfires and invasive species. Key interventions include enhance community participation in natural resource management with the resulting strengthening of the committees responsible for the management of natural resources, game management areas, forests and water. Furthermore, the Government will promote the quantification and valuation of natural resources and ecosystem services and operationalization of conservation plans for critical wetlands. The forest sector is projected to contribute 28,812GgCO2 eq. in emission reductions by 2030. The actions outlined above are estimated to cost an estimated US\$301.5 million by 2030.

#### 1.1.6. AFOLU-Forestry 2

Increased Gender Equity and Inclusiveness for Women and Men in Community Forest Management Groups (CFMG): Deforestation is estimated at 172,000 hectares per annum in 2021, placing Zambia among the top 10 countries in Africa with the highest deforestation rates in the world. The National Gender Policy indicates that women have shown to be influential leaders within their communities in addressing deforestation trends. Furthermore, where women help devise early warning systems and reconstruction efforts, communities fare largely better in climate-related natural disasters. Areas of intervention identified in the NDC Implementation Framework include enhancement of rural forest communities and women's livelihood opportunities in non-wood forest products (NWFP), scaling up forest conservation initiatives, development of a policy paper on gender, climate change and forests, women and men participating in the development of local climate change adaptation plans for the forestry sector and increased participation of women in community forest management. With the implementation of various actions in community forest management, it is expected that the deforestation rate will reduce to 120,000 hectares per annum by 2026 from 172,000 hectares of deforestation rate per annum in 2021. The interventions proposed are estimated to cost US\$324,114 by 2030.

#### 1.1.7. Energy

Energy Efficiency Upscaled: The IPCC Sixth Assessment report has noted that the low adoption of low carbon technologies in most developing countries particularly least developed countries is due in part to weaker enabling conditions including limited finance, technology development and transfer and capacity. As a proactive measure, the 8NDP has prioritized enhancement of generation, transmission and distribution of electricity during the plan period 2022 to 2026. Increased investment in the sector will result in an increase in electricity generation capacity to 4,457 megawatts (MW) by 2026 from 3,307.43 MW in 2021. The percentage of renewable energy in the national installed electricity capacity, excluding large hydroelectricity

generation, is expected to increase to 10 percent from 3 percent over the same period. This will, in part, be supported by fifteen renewable energy off-grid projects that will be developed by 2026, in addition to the seven developed in 2021. The NDC Implementation Framework has projected that by December 2030, Government will increase solar energy contribution to the national installed electricity generation capacity by 720MW, add low carbon-based hydro-electricity supplied into the grid by 1400MW while 300MW of wind electricity will be supplied into the grid in addition to generation of geothermal electricity equivalent to 17.7MW. Other renewable solutions include biomass-based electricity amounting to 100MW generated and supplied into the grid, increased generation in renewable energy for off-grid supply of 200MW, production of 100,000 improved cook-stoves and 3,500,000 Incandescent bulbs replaced with LED/CFL across the country. The estimated cost of investments in the outcome areas is US\$6 billion by 2030. An estimated 8,370.77GgC02 eq. in emission reductions from renewable energy sources is anticipated by 2030.

#### 1.1.8. Building & Infrastructure

Enhanced Adaptive Capacity and Strengthened Resilience of Infrastructure to Climate Shocks: The Sixth Assessment Report by the Intergovernmental Panel on Climate Change (IPCC) has concluded that if existing buildings, and buildings yet to be built are retrofitted, the sector is projected to approach net-zero GHG emissions in 2050. The achievement of this aspiration entails implementing policy packages, which combine ambitious, sufficiency, efficiency, and renewable energy measures effectively implemented and barriers to de-carbonization removed. The NDC implementation Framework will aim to strengthen systems and tools for climate resilience and low-carbon investments in the infrastructure sector. The tools to be deployed by the Government include the revised national construction codes and standards and climate sensitive land use planning guidelines spearheaded by the Ministry of Infrastructure and Housing and Urban Development. Other measures include the demonstration of climate resilience housing in urban and rural areas. The estimated cost of this undertaking is US\$831.6 million by 2030.

#### 1.1.9. Waste

Enhanced Solid Waste Management and Resource Recovery: The Government of Zambia has identified improvement of sanitation services across the country by strengthening sewerage and solid waste management systems. This will be achieved through enhancing financing to address the constraint of inadequate solid waste management infrastructure. In addition, the Government will promote sustainable sanitation practices, including personal hygiene promotion and solid waste disposal among others. With these interventions, the proportion of households with access to improved sanitation is expected to improve from 37.2% and 77.7% in 2018 to 55% and 90% in 2026 in rural and urban areas, respectively. Specific programmes include infrastructure development and maintenance, solid waste management through biogas digesters, sanitation and hygiene and investment promotion in waste to energy projects. The Zambia NDC Implementation Framework will facilitate the development of guidelines on waste disposal, raise awareness and build in low-carbon infrastructure such as anaerobic biogas digester systems for enhancing waste management and attainment of low-carbon investments in the sector. The activities listed above will cost an estimated US\$379.3 million by 2030.

#### 1.1.10. Water

Water security of all Zambians is promoted and protected, via gender-responsive and climate-smart water infrastructure: In the 8NDP, the Government has prioritized the provision of clean and safe water across the country, especially in districts, constituencies and wards where there have been water deficiencies also considering the challenges women face in accessing water. Key measures to be implemented will include the development and maintenance of water supply infrastructure, water quality monitoring and protection of aquifers and other water sources. A key indicator of the role of men and women will include the number of beneficiaries trained on the use of climate-resilient water technologies disaggregated by gender. The implementation of these measures is expected to lead to an increase in access to clean and safe water to 67 percent by 2026 from 58% in 2018 for rural

areas and to 98% by 2026 from 91.8% in 2018 for urban areas. Under the water sector outcome, the NDC Implementation Framework will deploy climate-proofing measures to achieve the desired adaptive outcomes during the implementation period. The Government will undertake investments in 38 small dams to increase climate-resilient water sources infrastructure by December 2026. An estimated 41 groundwater aquifer resources will be mapped and protected, 1650 exploratory boreholes drilled and 41 well fields identified. These measures are expected to cost an estimated US\$464.2 million by 2030.

#### 1.1.11. AFOLU-Livestock

Farmers able to cope with Climate change through the Adoption of Improved Practices that Enhance Livelihoods, Sustainable Systems for Improved Smallholder Livestock Production and Productivity Operational: The Livestock sector, viewed as an important component of the government's plan to increase agriculture production and productivity, will aim at strengthening farmers' abilities to cope with climate change impacts through adoption of improved practices that enhance livelihoods. Alongside the agriculture component, this outcome is expected to contribute to an agricultural growth rate of at least 10% per annum over the 8NDP period including to agricultural exports expected to increase to above US\$2 billion by 2026 from US\$756.2 million in 2021. During the NDC Implementation Framework period, the Government will empower 10,000 farmers with capacities to utilize breeds that are resilient to climate change. Investments in water harvesting systems for livestock management across the country at community level. Furthermore, a countrywide Indexed Based Livestock Insurance (IBLI) and a Livestock early Warning Information Systems targeting livestock farmers will be deployed and made operational. Other output areas will include restoration of graded pastures and vegetation cover with different drought tolerant perennial seeds targeting 45,100 hectares. A sustainable forage seed production programme with private sector participation also targeting 900,000 additional farmers will be developed. Diversification of livelihoods and sources of incomes through skin and hides for over

26,000 livestock farmers is another key target area of action. This is in addition to the development of technical and business capacities for construction of 5,000 biogas plants for 19,900 livestock farmers. The estimated cost of undertaking the proposed interventions above is US\$50.3 million by 2030.

#### 1.1.12. Industry

Sustainable Industrial Products and Product Use: The promotion of low carbon technologies and in particular the use of low carbon and energy efficient intensity sources responds to government commitments under the Paris Agreement and the attainment of aspirations contained in the 8NDP on achieving environmental sustainability. As part of Zambia's contribution to reducing emissions under the Kigali Amendments, which sets out an Hydrofluorocarbons (HFC) phasedown that reduces consumption by 85% in CO2 tons equivalent (with some variations), the government has identified reduction of clinker content in cement production and reduction in the use of fluorinated greenhouse gas substances. The sector aims at reducing the clinker content in cement production by 20% and the fluorinated gas by 80% by 2030. These measures will cost an estimated US\$32.4 million. Furthermore, an estimated 7,196GgCO2 emission reductions will be achieved by 2030.

#### 1.1.13. Transport

Sustainable Transportation Infrastructure: The Government has targeted modernizing the transport infrastructure and in particular taking deliberate steps to ensure that at least 30% of bulk cargo is moved off the roads to the railway line through improvements and modernization of the rail infrastructure. The ambition requires using already proved energy efficient systems such as tramway systems in highly populated cities such as Lusaka, Kitwe and Ndola among cities with high population density. Additionally, the deployment of electrified modern railway systems will support the attainment of both the economic and low carbon development goals contained in the Revised NDC and the 8NDP. The NDC Implementation Framework has responded to the aspirations of the 8NDP through

outputs targeting the construction of 50km of the Lusaka Tramway System and the rehabilitation of a total of 2132km railway transport infrastructure. This will include electrification of 30% of total railway systems in the country. The measures outlined above will cost an estimated US\$6.5 billion by 2030. The transport is project to contribute 1,973GgCO2 eq. towards emission reductions by 2030.

## 1.1.14. Multi-Sector-Institutional Capacity, Transparency & Environmental Issues

Strengthened Institutional Capacity for Coordination Climate Change Projects and Programmes in Zambia, Enhanced Transparency for Efficient GHG Accounting and Climate Reporting in place and Enhanced Environmental Sustainability: The Government has strengthened the coordination of climate change projects and programmes through the creation of the Ministry of Green Economy and Environment. The new Ministry was established through a consolidation of departments dealing with environment, climate change, meteorological and biosafety. Among many functions, the Ministry is mandated to develop policies on climate change and to coordinate the implementation of projects and programmes on climate change across the country. Key to the delivery of actions contained in the NDC Implementation Framework is the strengthening of institutional capacities for coordinating climate change projects and programmes through the revision of the National Policy on Climate Change, enactment of the climate change bill, development of the National Green Growth Strategy, NDC Communication Strategy and the NDC Investment Strategy and Financial Plan. The Ministry will further strengthen the capacity of District level staff to conduct climate risk screening at District and constituency levels. Other key multi-sectoral measures include producing biennial transparency reports and the 4th National Communication report for submission to the United Nations Framework Convention on Climate Change (UNFCCC). The Government will also operationalize an MRV Portal for reporting actions on adaptation and mitigation arising from implementing activities contained in the NDC Implementation Framework and the National Adaptation Plan. The

estimated implementation cost of this multi-sectoral section is US\$39.6 million by 2030.

#### 1.1.15. Health

Increased resilience of the health sector to climate change: The Government of Zambia has, in the 8NDP, placed emphasis on strengthening public health, increasing access to quality health care through health infrastructure development, provision of health insurance, enhanced food security and nutrition and strengthening integrated health information system. The NDC Implementation Framework has identified measures on climate change to support the implementation of the 8NDP. These include strengthening policies and institutional capacities to manage climate change risks in the health sector, the development of the Environmental Health policy that clearly defines the strategies that include climate change for the Ministry of Health, and the development of surveillance tools for early warning against climate variability and extreme weather events with a focus on the health sector. The Government will also ensure that climate change is mainstreamed across programmes to enhance resilience of the health sector. The estimate cost for interventions towards the achievement of key performance indicators is US\$128.7 million by 2030.

#### 2. CLIMATE AND SUSTAINABLE DEVELOPMENT LINKAGES

# 2.1. Alignment with National and Sectoral Development Policies, Plans and Budgets

The NDC Implementation Framework is being complemented by various national and sectoral policies that also aim to achieve climate resilient and low carbon objectives. The Framework will substantially contribute to the success of the Vision 2030, the 8NDP, the Revised and Updated NDC and the National Policy on Climate Change when priority adaptation and mitigation projects are effectively implemented. Through the resource mobilization efforts that will anchor the delivery of priority actions contained in the Framework, budget execution will also be strengthened during the implementation period. The table below provides a comprehensive list of policies, laws

and strategies and describes the areas of alignment with the NDC Implementation Framework.

Table 1: Sectoral Development Policies, Plans and Strategies

Name	Year	Description
Nationally Determined Contribution (NDC)	2021	Zambia's revised and updated NDC sets the climate targets for both mitigation and adaptation
Third National Communication (NC)	2020	Highlights the country's anthropogenic Greenhouse Gas (GHG) emission sources and sinks for the years 2005 and 2010, emission drivers, and measures to abate GHG emissions.
National Policy on Transport (NPT)	2019	Promotes private sector involvement in infrastructure development and service provision under a regulated environment.
National Energy Policy (NEP)	2019	Seeks to achieve optimal energy resource utilization to meet Zambia's domestic and non-domestic needs at the lowest total economic, financial, social, environmental, and opportunity cost to establish Zambia as a net exporter of energy.
Energy Regulation Act No. 12 of 2019	2019	Establishes the Energy Regulation Board, as a body corporate, whose primary role is to license entities that intend to produce energy.
Electricity Act No. 11 of 2019	2019	Provides for the regulation of the generation, transmission, distribution, and supply of electricity.

Name	Year	Description
8th National Development	2022	Promotes socioeconomic transformation for
Plan (8NDP)		improved livelihoods through Economic
		Transformation and Job Creation, Human
		and Social Development, Environmental
		Sustainability, and Good Governance
		Environment.
Climate Change Gender	2017	Ensures gender consideration in the
Action Plan (CCGAP)		implementation of climate change mitigation
		and adaptation programs and projects.
Second National	2016	Provides a framework to promote sustainable
Agriculture Policy 2016		agricultural diversification, agricultural
(SNAP)		commercialization, private sector
		participation, and inclusive agricultural
		growth.
National Policy on	2016	Provides for a low-carbon and climate-
Climate Change (NPCC)		resilient development pathway.
The National Forestry	2015	Provides an environmental policy framework,
Policy (NFP)		monitor, evaluate and co-ordinate its
		implementation, to ensure the protection of
		the environment and sustainable
		development, management, and utilization of
		natural resources for the benefit of the
		present and future generations.
Forest Act. No. 4 of 2015	2015	Provides for forest protection and
		conservation including guidelines for carbon
		trade.
Second National	2015	Provides for biodiversity conservation focus
Biodiversity Strategy and		points and incorporates climate change
Action Plan (NBSAP)		

Name	Year	Description
		resilience principles in biodiversity conservation.
National Strategy for Reducing Emissions from Deforestation and Forest Degradation (REDD)	2015	Provides a framework to address drivers of forest loss to reduce emissions from deforestation and forest degradation.
Nationally Appropriate Mitigation Actions (NAMA)	2014	Outlines concrete programs and projects in the Energy, Agriculture, Transport, Forestry, and Waste Management sectors that will assist the country to transition into a low- carbon development trajectory.

#### 2.2. Green Recovery

The Zambian economy experienced a decline by 2.8% in 2020, with most sectors recording negative growth mainly because of the COVID-19 Pandemic. The exceptions were the agriculture, health, and information and communications technology sectors which registered positive growth, Growth in 2021 was rebounded to positive levels at 3.3%, driven by a recovery and subsequent expected good performance in mining, wholesale and trade, and electricity generation. The Government employed various measures to respond to the effects of the COVID-19 pandemic on livelihoods and the economy. These measures included allocations of an estimated US3.2 million to the Epidemic Preparedness Fund and US\$36.6 million equivalent to the COVID-19 Contingency and Response Plan. The Government further established a US\$6 million three to five years Targeted Medium-Term Refinancing Facility (TMTRF) to eligible financial service providers for on-lending to priority sectors at attractive rates. To alleviate economic pressure associated with the COVID-19 and reduce liquidity challenges, the Government issued the US\$450 million COVID-19 Mitigation Bond for economic stimulus packages aimed at dismantling arrears, VAT refunds and outstanding arrears owed to retirees. Some of the resources from the bond were

earmarked for grain purchases for National Food Reserves and for the Constituency Development Fund as a way of ensuring that community projects were implemented. The Government was further able to respond to the call by the Green Climate Fund (GCF) COVID-19 Readiness and Recovery Support to enhance the recovery of climate impacted communities also facing the effects of the COVID-19 pandemic.

#### 3. SUMMARY OF PROCESS

#### 3.1. Key Consultations

The compilation of the NDC Implementation Framework commenced in early 2020 and was preceded by a scoping mission conducted by the NDC Partnership Support Unit on 29 September to 4 October 2019. Stakeholder engagements in the subsequent months were hindered by the outbreak of the COVID-19 Pandemic which also slowed the progression in the collection of information between March 2020 and December 2022. Lockdown measures imposed to reduce the spread of the disease also constrained in-person meetings thereby limiting access to information required to update the Implementation Framework. Following the removal of COVID-19 restrictions, five stakeholder workshops were held in Kabwe and Lusaka leading to the production of the draft NDC Implementation Framework at the end of December 2022. The Government conducted additional stakeholder consultations to refine the key performance indicators and the cost estimates between January and April 2023. During the whole period, the Government relied on technical assistance provided by the NDC Partnership through an individual consultant, a firm and the NDC In-Country Facilitator. Cooperating Partners based in Zambia also provided information through a project matrix administered by Government to collection information on support provided during the period of the country's NDC.

#### 3.2. Stakeholder Engagement

Zambia joined the NDC Partnership in 2016 with the aim of accelerating the implementation of mitigation and adaptation actions aspired for in the country's National Development Plans and strategies. Three Focal Point Institutions - Ministry

of Lands and Natural Resources, Ministry of Finance and Ministry of National Development Planning - were nominated. Following the merging of the Ministry of Finance and the Ministry of National Development Planning and the creation of the Ministry of Green Economy and Environment, two focal point Ministries were assigned to the NDC Partnership. These include the Ministry of Green Economy and the Ministry of Finance and National Planning.

Several consultations were undertaken with representatives from key sectors such as Ministries of Agriculture, Fisheries and Livestock, Finance, Bank of Zambia, Pensions and Insurance Authority, Securities Exchange Commission, Zambia Meteorological Department, Zambia Environmental Management Agency, Ministry of Health, Ministry of Green Economy and Environment-Forest Department and Green Economy and Climate Change Department, Ministry of Energy, Ministry of Water Development and Sanitation, Office of the President-Gender Division, Ministry of Local Government and Housing and Ministry of Commerce, Trade and Industry. Private Sector Institutions such as the Indaba for Agriculture Policy Research Institute (IAPRI) and the Zambia Chamber of Commerce and Industry also participated. Other key stakeholder included Non-Governmental Organizations and the Cooperating Partners who also provide inputs into the development of the Framework.

#### 4. IMPLEMENTATION FRAMEWORK

## 4.1. Coordination Mechanisms (Government Structure for Climate Change)

The NDC Implementation Framework will be coordinated in line with the provisions of the National Policy on Climate Change 2016. The Policy mandates the Council of Ministers as the supreme decision-making body for overseeing climate change interventions. The Chairperson of the Council is the Vice President, while the Secretariat is the newly created Ministry of Green Economy and Environment which is responsible for coordinating the implementation of climate change projects and programmes across the country. The Ministry of Green Economy and Environment

also chairs the Steering Committee of Permanent Secretaries. The Steering Committee is the principal advisory body to the Council of Ministers on policy and programme coordination and implementation. The Secretariat to the Steering Committee is currently the Green Economy and Climate Change Department. The Technical Committee on Climate Change, chaired by the Director of Green Economy and Climate Change, also provides technical advisory services to the Steering Committee of Permanent Secretaries chaired by the Permanent Secretary - Ministry of Green Economy and Environment. At technical committee level representatives of government ministries, civil society organizations and private sector participate in technical discussions and provide inputs into recommendations for consideration by Permanent Secretaries and subsequently the Committee of Ministers. The implementation of initiatives contained in the NDC Implementation Framework will be subject to the governance arrangements described above.

#### 4.2. Financing and Resource Mobilization

The NDC Implementation Framework is estimated to cost the country US\$17.2 billion covering 11 clustered sectors, 18 outcome areas 135 measures and 158 key performance indicators (KPIs) between 2023 and 2030. While Government has devised mechanisms for financing of the 8NDP which will be done through traditional and non-traditional sources of finance, the NDC Investment Strategy and Financial Plan propose ways to ensure effective resource mobilization. These approaches include (i) increased awareness, knowledge and capacities to accelerate the mobilization of funding sources and mechanisms and (ii) the NDC achieving high-level political recognition and alignment from international cooperation and private sector engagement to fulfil its mandate and (iii) achieving a diversified national portfolio of financial sources and mechanisms to meet the targets set to bridge the NDC Financial gap by 2030. Traditional sources identified include domestic revenue, grants, donations and concessional loans that will also form the primary source of financing adaptation and mitigation projects. Non-traditional sources of finance will include alternative sources that will have low or no interest payments or guarantee

commitments from the Government, such as public-private partnerships (PPPs) and impact capital. As observed in the 8NDP, some programmes and projects in the Plan will not be financed from the national budget but from resources coming through private sector and other cooperating and development partners. The table provides a breakdown of financing needs per sector, the number of measures identified in the framework, the number of key performance indicators and the implementation cost estimates. The table below highlights sectors, number if measures and key performance indicators in the framework the cost estimates of actions in each sector.

Table 2: Sectors, Measures, Key Performance Indicators and Implementation Costs

Sector	# of Measures in the Framework	# of KPIs	Implementation Cost (US\$)
Banking & Finance	16	22	2,227,868
Agriculture & Livestock	18	19	2,503,333,089
Multi-sector	34	40	39,617,986
Forestry	16	16	301,849,061
Energy	16	17	5,985,964,860
Buildings & Infrastructure	10	10	831,604,013
Waste	9	11	379,284,421
Health	4	5	128,744,093

Water	6	12	464,181,973
Industry	2	2	32,385,539
Transport	4	4	6,524,896,777
Total	135	158	17,194,089,680

#### 4.3. Tracking Implementation Progress

Tracking the progress of NDC implementation will employ a three-prong approach to reporting which include: (i) the NDC Online Partnership Plan tool (ii) the Measuring, Verification and Reporting web-based system and (iii) NDC Country Engagement quarterly reports. A climate-related MRV system has been developed by the Zambia Environmental Agency through a consultative process and integrated into a web-based system to enhance transparency in reporting and access to information by the general public. Furthermore, the Ministry of Green Economy and Environment will work closely with the Ministry of Finance and National Planning to operationalize the budgeting tracking tool to further improve the country's tracking of resources allocated and expended towards climate actions identified in the NDC Implementation Framework.

## Annex I: Linkages with 8<sup>th</sup> National Development Plan and Sustainable Development Goals

Implementation Framework	8 <sup>th</sup> Nation	al Development Plan	SDG
Outcomes	Development	Development Outcome	Outcome
	Outcome	Description	Areas
	Areas		
Fiscal Policies Improved to	5.6, 7.4, 7.5	Competitive Private	7, 13, 17
Foster Low-carbon and		Sector	
Resilient sustainable		• Enhanced mitigation	
Development		and Adaptation to	
		climate change	
		Sustainable & Natural	
		Resources Management	
Financial Stability and	5.6, 7.4, 7.5	Competitive Private	7, 13, 17
Supervisory Policy and		Sctor	
Procedures Improved to		• Enhanced Mitigation	
Foster Low-carbon and		and Adaptation to	
Resilient Sustainable		Climate Change	
Development		Sustainable & Natural	
		Resources Management	
Strengthened Climate	5.4, 5.5, 6.4,	An Industrialised and	1, 2, 3,
Resilience of Agricultural	6.5. 6.6, 7.4,	Diversified Economy	10, 12,
Production and Productivity	7.5	Enhanced Citizenry	13
		Participation in the	
		Economy	
		• Improved Health, Food	
		and Nutrition	

		I	
		Improved Water Supply	
		and Sanitation	
		Reduced Poverty,	
		Vulnerability and	
		Inequality	
		• Environmental	
		Sustainability	
Enhanced Early Warning	7.4, 7.5, 8.4	Reduced Poverty,	13, 14,
Systems with a focus on		Vulnerability and	15
Agriculture, Livestock and		Inequality	
Fisheries Implemented		Environmental	
		Sustainability	
		Improved Policy and	
		Governance	
		Environment	
Reduced Vulnerability	6.7, 7.4, 7.5	Enhancing human	1, 2, 13
and Strengthened		development	
Resilience of		Environmental	
Livelihoods among		Sustainability	
Forest Communities		Sustainable environment	
		& Natural Resources	
		Management	
Increased Gender Equity and	5.5, 6.4, 6.7,	• Enhance citizens	5, 13, 17
Inclusiveness for both	7.4, 7.5	participation in the	
women and men in		economy	
Community Forest		Human and Social	
	1		

		Reduced poverty,		
		vulnerability and		
		Inequality		
		Environmental		
		Sustainability		
		Sustainable		
		Environment & Natural		
		Resources Management		
Gender Responsive	5.4, 5.5, 6.4,	An Industrialised and	5,	7,10,
Increased share of	6.7, 7.4, 7.5	Diversified Economy	13	
Renewable Energies in the		A competitive private		
National GRID and Increased		sector		
Energy Efficiency Upscaled		Human and Social		
		Development		
		Reduced poverty,		
		vulnerability and		
		Inequality		
		Enhanced Mitigation		
		and Adaptation		
		Sustainable		
		Process State Control (Processor State Control		
		Environment & Natural		
		Resources Management		
Enhanced Adaptive Capacity	5.4, 7.4, 7.5	An Industrialised and	9, 1	.3
and Strengthened Resilience		Diversified Economy		
of Infrastructure to Climate		Enhanced mitigation		
Shocks		and Adaptation to		
		climate change		

		Sustainable	
		Environment and	
		Natural resources	
Enhanced Solid Waste	6.6, 7.4, 7.5	• Improved water supply	6, 7,13
Management and Resource		and sanitation	
Recovery		Enhanced mitigation	
		and Adaptation to	
		climate change	
		Sustainable	
		Environment and	
		Natural resources	
Livestock Farmers able to	5.4, 5.5, 6.5,	An Industrialised and	1, 2, 3,
Cope with Climate Change	6.7, 7.4	Diversified Economy	5, 10, 13
through adoption of		• Enhanced Citizenry	
Improved Practices that		Participation in the	
Enhance Livelihoods		Economy	
		• Improved Health, Food	
		and Nutrition	
		• Reduced poverty,	
		vulnerability and	
		Inequality	
		Enhanced Mitigation and	
		Adaptation	
Sustainable Systems for	5.4, 5.5, 6.5,	An Industrialised and	1, 2, 3, 5,
Improved Smallholder	6.7, 7.4	Diversified Economy	10, 13
Livestock Production and		Enhanced Citizenry	
Productivity Operational		Participation in the	
		Economy	

		- Improved Hoolth Food	T
		Improved Health, Food	
		and Nutrition	
		Reduced poverty,	
		vulnerability and	
		Inequality	
		Enhanced Mitigation	
		and Adaptation	
Sustainable Industrial	5.4, 5.6, 7.4,	An Industrialised and	7, 9, 11,
Products and Product Use	7.5	Diversified Economy	12, 13
		A competitive Private	
		Sector	
		Enhanced Mitigation	
		and Adaptation	
		Sustainable	
		Environment and	
		Natural Resources	
Sustainable Transportation	5.4, 7.4, 7.5	An Industrialised and	7, 9, 11,
Infrastructure		Diversified Economy	13
		Enhanced Mitigation	
		and Adaptation	
		Sustainable	
		Environment and	
		Natural Resources	
Strengthened Institutional	5.5, 5.6, 6.4	Enhanced citizenry	5, 13, 16,
Capacity for Coordination	2 22	Participation in the	17
Climate Change Projects and		Economy	
Programmes in Zambia		A Competitive Private	
		Sector	
	L		

		Human and Social		
		Development		
Enhanced Transparency for	6.4, 7.4, 7.5,	Human and Social	13,	16,
Efficient GHG Accounting	8.4, 8.5	Development	17	
and Climate Reporting in		Enhanced mitigation		
place		and Adaptation to		
		Climate Change		
		Sustainable		
		Environment and		
		Natural Resources		
		Management		
		Improved Policy and		
		Governance		
		Environment		
		• Rule of Law, Human		
		Rights and		
		Constitutionalism		
Enhanced Environmental	6.4, 7.4, 7.5,	Human and Social	13,	14,
Sustainability	8.4, 8.5	Development	15	
		Enhanced mitigation		
		and Adaptation to		
		Climate Change		
		Sustainable		
		Environment and		
		Natural Resources		
		Management		
		Improved Policy and		
		Governance		
		Environment		

		Rule of Law, Human     Rights and     Constitutionalism	
Increased resilience of the Health sector to climate change	6.4, 6.5, 7.4	Human and Social 3, 6,     Development     Improved Health, Food and Nutrition     Enhanced mitigation and Adaptation	12

# Annex II Implementation Framework Sectors

Γ	9					
2	Cost estimate	\$67,500	\$978,236	\$226,457		
×	Primary Government Agency / Institution	Ministry of Finance and National Planning	Ministry of Finance and National Planning	Ministry of Finance and National Planning		
-	Sources of Verification	Ministry of Green Economy and Environment Website Ministry of Finance and National Planning Reports	Statutory instruments	Ministry of Finance and National Planning Reports		
-	Target	The MoFNP Strategic Plan approved and launched by December of 2023	Climate Change Bill to establish Fund passed by the Parliament by December of 2023	Final Guidelines produced by March of 2024		
I	Milestones	Climate Finance Resource Mobilization Strategy Draft by September of 2023	Presentation to Parliament by July of 2023	Draft Screening Guidelines developed by January of 2024		
9	Baseline	(i) A Strategic Planning Committee constituted in 2021; (ii) The 8th National Development Plan 2022-2026 launched; and (iii) A draft strategic plan for MoFNP for the period 2022 to 2025 has been prepared which incorporates a Climate Finance Resource Mobilisation Strategy	(i) Draft Bill in Place and circulated to stakeholders for comments in 2022 (ii) Council of Ministers approved the draft bill in 2022 (iii) Draft is with Ministry of Justice for legal drafting	(i) Existing Macro economic policies which lack integration of climate change mitigation and adaptation. (ii) Implementation of the climate tagging tool to the Budget Process		
4	Key Performance Indicators	1.1. Climate Finance Resource mobilization Strategy developed	1.21. Climate change bill to establish and pass the fund	1.3.1. Guidelines for assessing integration of climate adaptation in and mitigation in macroeconomic and microeconomic policies		
9	Focus	Cross	Cross	Cross		
۵	Output	1.1. Climate Finance Resource Mobilization Strategy developed	1.2. Climate change Fund established and launched	change mainstreamed into socio- economic planning, budgeting and public financial		
a	Outcomes	Outcomes improved to foster low- carbon and resilient sustainable development				
8	Contribution to National and/or Sectoral Plans and Strategies	Strategies and Strategies and Strategies and Strategies and Strategies Finance Act No. 1. Fiscal poli improved to National Policy foster low-on Climate Change 2016, resilient and Budgeting development Act 1, 2020				
A	Sector	ance - Fiscal Policy	Bsuking & Fin			
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1	\$135,305	\$50,165
×	Ministry of Finance and National Planning	Ministry of Finance and National Planning
-	Climate Change Ministry of Finance Public Expenditure and National Reviews final Development report by Planning-Annual December of 2024 Economic Reports	Budget Tracking Reports
-	Δ μ	Budget Tracking System is operational by December of 2024
Ξ	Climate Change Public Expenditure Reviews Draft Report by December of 2023	Budget tracking system and tools tested by December of 2023
9	Reconciliation activities on what was funded versus budgeted	Budget tracking reports for 2014 and 2018
4	1.4.1 Comprehensive climate change public expenditure and budget reviews conducted	1.5.1. Functional climate change budget Tracking System and Tools in place
ii.	Cross	Cross
۵	1.4. Climate Change Public Expenditure Reviews conducted	1.5. Budget Tracking Tool for climate change investments strengthened
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7	\$33,772	\$100,145	\$186,288	000'09\$	
K	Ministry of Finance and National Planning	Ministry of Finance and National Planning	Ministry of Finance and National Planning	Bank of Zambia	Bank of Zambia
1	Ministry of Finance and National Planning Reports / Website	Ministry of Finance and National Planning Reports	Ministry of Finance and National Planning Reports	Bank of Zambia annual reports	Bank of Zambia annual reports
	Climate Proofing. final Manual by December of 2023	100% sector working groups trained by December of 2025	Project pipeline TBC projects under developed by implementation phase by 2025 December of 2030	Green Finance Guidelines Gazetted by April of 2024	Green Loans Guidelines Gazetted by April of 2024
Н	Draft Climate Proofing Manual by April of 2023	50% sector working groups trained by July of 2024	Project pipeline developed by December of 2025	Concept Note developed by June of 2023	Concept Note developed by June of 2023
9	Template-Climate proofing manual for Livestock	Climate Change mainstreaming tool study report	PPP Ministerial Committee constituted supported by the PPP Secretariat in the Ministry of Finance and National Planning	Boz Green Finance Technical Working Group (TWG) established in 2017; (ii) Produced 2 knowledge products on green finance; (iii) TA	and Natural Resources, Alliance for Financial Inclusion, World Bank and Toronto Centre
F	1.6.1. Climate proofing final manual for integrating climate change into Public Financial Management policies developed and	I./ I National and sector working groups trained in mainstream climate into sectoral and national development	1.8.1 Private Public Partnership Infrastructure projects Implemented	21.1 Green Finance Guidelines developed	21.2 Green Loans Guidelines developed
ш	Cross	Cross	Cross	Cross	
D	1.6. Climate proofing manual for public financial management policies developed and is operational	1.7. Capacity Building for national and sector working groups conducted	1.8. Private Public Partnership Infrastructure on Adaptation and Mitigation Projects promoted and implemented	2.1 Green Finance Guidelines and Green Loans Guidelines	Bank of Zambia reviewed and strengthened
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7	000'09\$	\$80,000
×	Bank of Zambia	Bank of Zambia
	Annual reports from Bank of Zambia, Pensions and Insurance Authority (PIA), and Securities and Exchange Commission (SEC)	Bank of Zambia annual reports
-	100% examiners/inspect ors at BoZ, PIA and SEC trained; and 50% of the Financial Sector Policies and Management Unit at Ministry of Finance and National Planning by April of 2024	Regulatory and supervisory instruments for greening the banking sector developed (as guided by the consultant) by April of 2024
I	Consultancy contract awarded under the TA from MGEE and NDC Partnership by June of 2023	Consultancy contract awarded under the TA from MGEE and NDC Partnership by April of 2023
9	(i) Boz Green Finance Technical Working Group (TWG) established in 2017; and (ii) trainings conducted by Toronto Centre; Alliance for Financial Inclusion; Deutche Bundesbank; Bank of England & Bank of Chana; IMF/Africa South; Bank of England & Reserve Bank of South Africa	(i) BoZ Green Finance Technical Working Group (TWG) established in 2017; (ii) the Tripartite (BoZ, PJA, SEC) Green Finance Mainstreaming Working Group established in January 2021 and partnerships for TA established with Ministry of Lands & Natural Resources, Ministry of Green Economy & Environment, Ministry of Finance & National Planning, UN Biofin Zambia Initiative, World Wide Fund (WWF) Zambia
4	2.2.1 Manual updated and trainings delivered by April 2024	2.3.1 Regulatory and supervisory instruments developed by April 2024
u	Cross	Cross
Q	2.2 Capacity building program and virtual peer exchange for Boz staff, selected Government officials, and financial institutions on green finance and the operationalization of the guidelines (covering TCFD, TNFD, and Basel recommendations on sustainable finance)	2.3 Regulatory and supervisory instruments to operationalize the guidelines (in line with the country context and international best practices such as TCFD, TNFD, and the Basel recommendations on sustainable finance)
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1	000'05\$	\$50,000
×	Bank of Zambia	SEC
-	Bank of Zambia annual reports	SEC Website / Annual Reports
-	Green finance taxonomy developed by December of 2024	Submission for incentives for green bonds made to Parliamentary Review Committee, and subsequently, the SEC Website / 2023 National Budget included a waiver on the 15% WHT on interest earned on green bonds by January of 2023
Ξ	Consultancy contract awarded by April of 2023	N/A by N/A
G	(i) Boz Green Finance Technical Working Group (TWG) established in 2017; (ii) the Tripartite (BoZ, PlA, SEC) Green Finance Mainstreaming Working Group established in January 2021 and partnerships for TA established with Ministry of Lands & Natural Resources, Ministry of Green Economy & Environment, Ministry of Finance & National Planning, UN Biofin Zambia Initiative, World Wide Fund (WWF) Zambia	(i) SEC issued regulations for green bonds: (ii) The Tripartite (BoZ, PlA, SEC) Green Finance Mainstrearning Working Group established in January 2021 with partnerships for TA from Ministry of Lands & Natural Resources, Ministry of Green Economy & Environment, Ministry of Finance & National Planning, UN Biofin Zambia Initiative, World Wide Fund (WWF)
4	2.41. Green Finance taxonomy for Zambia developed by December 2024	2.5.1 Tax incentives provided for green bonds
ui,	Cross	Cross
0	2.4. Climate Taxonomy for the financial sector developed	2.5 Incentives for Green Bonds developed
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×	SEC	SEC	SEC
	SEC Website / Annual Reports	SEC Website / Annual Reports	SEC Website / Annual Reports
-	Green Bonds Guidelines reviewing by December of 2023	Green Bond Investment online portal development by December of 2023	Establishing a pipeline for bond issuers by December of 2023
Ξ	N/A by N/A	N/A by N/A	Procurement of consultants by June of 2023
.5	(i) SEC issued regulations for green bonds; (ii) The Tripartite (BoZ, PIA, SEC) Green Finance	mainstreaming working Group established in January 2021 with partnerships for TA from Ministry of Lands & Natural Resources, Ministry of Green Economy & Environment, Ministry of Finance & National Planning, UN Biofin Zambia Initiative, World Wide Fund (WWF)	Zambia
- E	2.6.1 A Sectoral Green Bond Taxonomy for Zambia developed	2.6.2 An online Green Bond Investment Portal (for pipeline projects) for Zambia developed	2.6.3 Technical Assistance services for potential green bond issuers, including capacity building
Э.		Cross	
D		2.6 Green Bond Market Development	
U	2.Financial stability and supervisory policy and procedures improved to foster low-carbon and resilient sustainable development		
8	8th National Development Plan 2022-2026 National Climate Change Policy 2016		
A	Banking & Finance - Financial sector		18

A B C C DOS STANDING Finance Policy for Policy and Implementation Plan for Zambia's financial sector.  A B B C C DOS STANDING STANDING STANDING SCOT CORRECT SCOT CORRECT STANDING SCOT CORRECT STANDING SCOT CORRECT SCOT CORRE
27.1 A Green Finance Policy for Finance Policy for Finance Policy for Policy and Implementation Plan for the Green Finance Policy for Finance Policy for Cross Innancial sector Geveloped Financial sector.
A B C C D D E F FINANCE CONSTITUTE (BOZ, PIA, SEC) Green Finance Policy for Plan for Lambia's financial sector are plan for the Green Finance Plan for the Green Financial sector.  27.7 Green Finance Policy for Wide Fund (WWF) Zambia Initiative, World Financial sector.
A B C D F F F  27.1A Green Finance Policy for Zambia's financial sector developed lmplementation plan for Zambia's financial sector financial sector.  Cross Implementation plan for the Green Finance Policy for the financial sector.
A B C D F F F  27.1A Green Finance Policy for Zambia's financial sector developed lmplementation plan for Zambia's financial sector financial sector.  Cross Implementation plan for the Green Finance Policy for the financial sector.
2.7 Green Finance Policy and Plan for Zambia's financial sector
2.7 Green Finance Policy and Implementation Plan for Zambia's financial sector
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-		\$50,000	
×	Bank of Zambia	Bank of Zambia	Bank of Zambia
ī	The Green Finance Mainstreaming Working Group secretarist; Annual reports of financial sector regulators	The Green Finance Mainstreaming Working Group secretariat Annual reports of financial sector regulators	The Green Finance Mainstreaming Working Group secretariat, Annual reports of financial sector regulators
-	Green finance tagging / reporting system developed under BoZ regulatory framework by June of 2024	Green finance tagging / reporting system developed under PIA regulatory framework by June of 2024	Green finance tagging / reporting system developed under SEC regulatory framework by June of 2024
I	Procurement of consultants by June of 2023	Procurement of consultants by June of 2023	Procurement of consultants by June of 2023
9		The Tripartite (BoZ, PIA, SEC) Green Finance Mainstreaming Working Group established in January 2021 with partnerships for TA from Ministry of Lands & Natural Resources, Ministry of Green Economy & Environment, Ministry of Finance & National Planning, UN Biofin Zambia Initiative, World Wide Fund (WWF) Zambia	
4	2.8.1.A green finance tagging/reporting system under the BoZ regulatory framework	2.8.2 A green finance tagging/reporting system under the PIA regulatory framework	2.8.3. A green finance tagging/reporting system under the SEC regulatory framework
В		Cross	
Q		2.8 Creen Finance Tagging and Reporting System (to report on financial flows related to climate change, biodiversity conservation and green finance) for Zambia's financial	sector
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	008'	7,486	5,470	5,023
1	\$61,209,800	\$78,507,486	\$173,765,470	\$677,765,023
Ж	МОА	МоА	МоА	МоА
1	Zamstats(Crop B0,000 farmers. by Forecast survey & December of 2026 Post Harvest survey report	Zamstats(Crop. Forecast survey & Post Hanvest survey. report	Zamstats(Crop Forecast survey & Post Harvest survey report IAPRI RALS	Ministry of Community Development Department of Agriculture
31	Zamstats(Crop. 80,000 farmers. by Forecast survey & December of 2026 Post Harvest surve report	700,000 farming households by December of 2026	750, 000 additional farming households adopting drought resilient crops by December of 2026	1,500,000 Ministry of vulnerable farmers Community segregated by Developme gender by Departmen December of 2026 Agriculture
π	60,000 farming households adopting efficient irrigation technologies by December of 2024	300,000 farmers adopting technologies for fertility improvement and moisture storage per annum by December of 2024	500,000 farming households adopting drought resilient crops annually by December of	1,400,000 beneficiaries covered by December of 2024
5	So,000 farmers.	100,000 farmers.	1.15million households representing about 72% of agricultural households. (Source RALS19)	1,3 million households (MCDSS Factsheet 2022).
F	3.1.1. Number of farming households surveyed using efficient irrigation system disaggregated by gender & age	3.2.1 Number of farming households surveyed adopting technologies for fertility improvement and moisture storage disaggregated by gender and age	3.3.1 Number of farming households surveyed adopting drought resilient crops disaggregated by gender and age	3.4.1 Number of male and female headed HH of Adaptation vulnerable farmers covered by social cash transfer schemes
4	Adaptation	Adaptation	Adaptation	Adaptation
D	3.1. Promotion of irrigation and efficient use of water resources.	3.2. Increase the use of technologies for soil fertility improvement and Adaptation moisture storage (including soil conservation measures).	3.3. Increased use of indigenous and scientific knowledge on drought tolerant crop types	3.4. Upscaled access to social cash transfer by the vulnerable farmers.
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L	224	82	26	27

ũ	\$103,008,759	\$975,659,927	\$347,616	\$6,184,514	\$29,154,171
×	MoA	МоА	МоА	МОА	МоА
-	MoA Annual Report IAPRI	Ministry of Community Development Department of Agriculture	Zambia Small & Medium Sized Enterprise Survey Report	SCCI & ZARI reports IAPRI RALS	MoA Annual Report
_	1100000 by MOA./ December of 2026   MPRI	1570000 by December of 2026	Zambia Small & 150 enterprises by Medium Sized December of 2024 Enterprise Survey Report	160 community seed banks established by December of 2026	400000 by December of 2026
Ξ	1050000 by December of 2024	1002000 by December of 2024	35 enterprises reported practicing agro value addition annually by December of 2023	40 community seed banks established by December of 2024	200000 by December of 2024
9	In the 2021/2022 agriculture season, FISP will target a total of 1,024,434 farmers across the country. All beneficiaries of the programme each contribute K400 to be eligible to receive inputs, and from this contribution, K100 will be paid as a premium towards the weather index insurance.	280,000 (2022/2023, according to Ministry of Community Development)	.55 Enterprises	A/A	650,000 households adopting improved technologies by 2014 according to IAPRI
F	3.5.1 Number of farmers (by season) under weather indexed insurance	3.6.1 Number of beneficiaries segregated by age and gender receiving food security packs	3.7.1 Number of enterprises involved in agro- processing and value addition	3.8.1 Number of community seed banks established	3.9.1 Number of female farmers trained in gender sensitive agricultural technologies
E	Adaptation	Adaptation	Adaptation	Adaptation	Adaptation
Q	3.5. Increased access of farming households to insurance against climate-induced risks related to agriculture and infrastructure	3.6. Accelerated implementation of Food Security Pack Programme	3.7. Value addition in agriculture production and productivity promoted	3.8. Conservation and 3.8.1 Number of commercialization Adaptation community seed of indigenous crop banks establishe varieties	3.9.Cender sensitive agriculture technologies implemented
a	3. Strengthened climate resilience of Agricultural production and productivity				
sa	Second National Agricultural Policy, 8NDP, Vision 2030				
A	PDLU - Agriculture				
Ц	28	R.	30	띪	32

\$120,208		\$1,770,841		Q	\$113,383	
¥	ZMZ ZMD		ZMD	ZMD	DMMU/ZMD	ZMD
7	Act of Parliament.	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	DMMU Zambia Meteorological Department Annual Reports	ZMD Internal records
	Bill enactment by Parliament by December of 2025	Meteorological Policy launched by December of 2025	One product by sector (Water & Energy, DRM, Health & AFOLU) by December of 2025	7 by December of 2025	Monthly meeting by sector during rainy season by December of 2025	30Mbps by December of 2025
	Scoping Report of current laws by December of 2023	Consultancy awarded by December of 2024	N/A by N/A	3 by December of 2024	At least two meetings with each sector covered during rainy season by December of 2024	12Mbps by December of 2023
	N/A	N/A	General Product	1, maize	Technical Committee meetings on rainfall season forecast 3 meetings with Agricultural sector	10 Mbps 2023
	4.11. Enactment of Adaptation Meteorology Bill	4.1.2. Meteorological Policy	4.2.1 Climate Information Products and Services tailored to each sector by year	4.2.2 Crops covered with climate and weather information services	4.3.1 Number of technical meetings with stakeholders on the impacts of weather, climate, climate variability and climate exhange with each sector annually	4.3.2 Internet bandwidth expanded
	Adaptation	Adaptation	Adaptation	Adaptation	Adaptation	Adaptation
	4.1. Strengthening	of Legal Framework for Meteorological Services	4.2. Increased awareness and information about climate change risks and early warning systems		4.3. Strengthened coordination and information exchange processes to optimize and potentiate climate actions and build community resilience	4.4. Internet bandwidth expanded
The state of the s						

\$211,636	\$4,018,727		\$349,200	\$207,701	\$130,228	\$59,825
× QWZ	ZMD		ZMD	ZMD	ZMD	ZMD
Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports Independent Broadcasting Authority	Zambia Meteorological Department Annual Reports Ministry of Agriculture	Zambia Meteorological Department
One platform per sector (Water & Energy, DRM, Health & AFOLU) by December of 2025	2,250,000 hard copy records digitized by December of 2025	116 computers by December of 2024	25 TB of Cloud Zambia based Storage and Meteorological processing by Department An December of 2024 Reports	100 by December of 2025	450 agricultural extension officers trained by December of 2025	Report produced by December of 2024
N/A by N/A	750,000 hard copy records digitized annually by December of 2023	N/A by N/A.	N/A by N/A	29 linkages established with CRS by December of 2023	250 agricultural extension officers trained by December of 2024	N/A by N/A
26 innovations in digital agriculture In 2022	3,000,000 on paper in 2022		3 high-performance computers 22 Tb & S12 Gb of Mernory RAM	17 community radio stations (total of 78 radio stations) Reached in 2022	12.5	•
4.5.1. Digital Platforms for accessing weather and climate products tailored at the sectoral level developed	4.6.1. Number of hard copy records digitized	4.7.1. Number of computing infrastructure for weather and climate modelling acquired	4.7.2. TB of Cloud based Storage and processing	4.8.1. number of linkages with community radio stations	4.9.1 Number of agricultural extension officers trained in the development of user-oriented weather and climate services	4.10.1 Mapping report of sectors and locations specific areas generating data and receiving weather and climate products, services and early warning produced
Adaptation	Adaptation		Adaptation	Adaptation	Adaptation	Adaptation
4.5. Applications for accessing weather and climate products developed	4.6. Paper records digitised	47 Access to	modernised computing infrastructure	4.8. Linkages with radio stations established and operational	4.9. Oriented stakeholders on the development of a user-oriented weather and climate services trained.	4.10. Mapping of sectors and locations specific areas receiving weather and climate products, services and early warning conducted.
	4. Enhanced early warning systems with a systems with a agriculture, livestock and fisheries implemented					
8th National Development Plan 2022-2026 National Climate Change Policy	8th National Development Plan 2022-2026 National Climate Change Policy 2016					
Multi-sector -	07	Tig.	24	#	4	45

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7		\$2,672,060	\$706,345				
К	ZMD	ZMD	ZMD				
36	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports				
75	Assessment report Meteorol launched by Departm December of 2023 Reports	4 pilot projects under implementation by December of 2025	Zambia S2 by December 116 by December of Meteorological of 2024 Reports				
н	Assessment report commissioned by June of 2023	Project concept notes developed by December of 2023	52 by December of 2024				
6	Draft	0	0				
F	4.11.1 Assessment report on the importance of Adaptation meteorological services for society and the economy made	4.12.1. One pilot project per priority sector enhancing provision of weather and climate services implemented	4.13.1. District-based workshops to enhance awareness and willingness to participate in voluntary rainfall observation conducted annually				
(E)	Adaptation	4.12.1. One project per project per project per project per project on provision of weather and climate services implements	Adaptation				
D	4.11. Socio- economic value of meteorological services documented	4.12. Demonstration of the value of weather and climate services implemented.	4.13. Community-based workshops to enhance awareness and participation in voluntary rainfall observation established,				
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В							
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	46	47	84				

1	\$80,363	\$3,967,830	\$17,032	\$15,297,548	\$103,364,438	\$174,401,315				
К	ZMD	ZMD	ZMD	ZMD	Forestry Department	Forestry Department				
-	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	Zambia Meteorological Department Annual Reports	National forest Monitoring System (NFMS) Data originated by CSO and forestry dep. branches	National forest Monitoring System (NFMS) Data originated by CSO and forestry dep. branches				
	Zambia 10 by December of Meteorological 2025 Reports	6 by December of 2024	Zambia 15 by December of Meteorological of 2023 2024 Department Ar	Ground station 500 Rainfall station 2400 Upper Air Monitoring Systems 5 by December of 2025	2100000 Ha by December of 2026	600000 Ha by December of 2030				
I	2 by December of 2023	3 by December of 2023	15 by December of 2023	Ground station 250 Rainfall station 1200 Upper Air Monitoring Systems 2 by December of 2024	700000 Ha by December of 2024	200000 Ha by December of 2025				
9	UNZA, CBU, Columbia University, IAPRI	0	0	Ground station 210 Rainfall station 461 Upper Air Monitoring Systems 0 by 2023	2,000,000	N/A				
u.	4.14.1. Number of MoU's with research and higher learning institutions established	4.15.1. Number of projects undertaken to enhance meteorological service provision	4.16.1. Number of staff trained to synthesize and feature weather and climate information in sectoral project reports	4.17.1 Items: procured for the expansion and modernisation of weather and climate observation infrastructure	5.1.1. Hectares of forest put under community forest management (additional to baseline)	5.2.1. Hectares of forest put under assisted natural regeneration interventions in degraded forest				
ш	Adaptation	Adaptation	Adaptation	Adaptation	Cross-cutting	Cross-cutting				
a	4.14. Research collaborations with learning institutions locally established.	4.15. Joint international Resource Mobilization and implementation projects promoted	4.16. Staff trained in project writing and resource mobilization	4.17. Expansion and Modernisation of weather and climate observation infrastructure	5.1. Forest under the management of communities	5.2. Increased natural forest regeneration				
3										
60										
A										
L	97	8	rs.	52	88					

1	\$10,795,612	\$10,795,612		Same as E5.5	\$2,169,566
×	Forestry Department	Forestry Department	Forestry Department	Forestry Department	Forestry Department
-	National forest Monitoring System 7500 Ha by (NFMS) December of 2026 Data originated by CSO and fovestry dep. branches	Annual reports Forestry Department	Annual reports Forestry Department	National Forest Monitoring System 750000 Ha by (NFMS) December of 2026 Data originated by Forestry Department branches	Annual reports Forestry Department CF Management Groups (responsible for data collection)
-	7500 Ha by December of 2026	1160 by December Annual reports of 2026 Forestry Depart	185 by December Annual reports of 2025 Forestry Depart	750000 Ha by December of 2026	60% households report taking up alternative livelihoods in forest areas by December of 2026
Ξ	2500 Ha by December of 2024	580 by December of 2024	90 by December of 2024	250,000 Ha by December of 2024	40% households report taking up alternative livelihoods in forest areas by December of 2024
9	N/A.	0	District level fire departments in operation and with fire fighting expertise	ongoing early fire burning countrywide	N/A
F	5.3.1. Hectares of trees planting using suitable tree species	5.4.1. Number of forestry professionals trained on climate change response disaggregated by gender	5.5.1. Trainings in fire management: delivered to CF Management Croups	5.6.1. Hectares of forest burnt early	5.7.1. % of households reporting taking up alternative livelihoods in forest areas (disaggregated by gender)
3	Cross- cutting	Cross-cutting	Cross- cutting	Cross-cutting	Cross-cutting
Q	5.3.Tree planting upscaled	5.4. Increased capacities of forest professionals to enhance their ability in responding to climate change.	5.5. Fire Management Training conducted	5.6. Early forest burning clearing practice promoted.	5.7. Alternative Sources of Livelihoods at Household level in forested areas promoted
3					
8					
A	55	IO IO	45	82	9,0

г				
7	\$454,121	Same as E5.5	\$4,767,876	\$263,794
×	Forestry Department	Forestry Department	Forestry Department	Forestry Department
37	Annual reports Forestry Department	Annual reports Annual reports 2025 CF Management Groups	Annual reports Forestry Department	Ministry of Green Economy and Environment Website Annual reports Forestry Department
_	185 by December of 2025	90 by December of 2025	1 by December of 2025	5 by December 10 by December of of 2023
H	90 by December of 2024	30 by December of 2023	N/A by N/A	5 by December of 2023
9	•	0	0	per 1
y.	5.8.1. CFMG community awareness campaigns on the impacts of climate change on forests (disaggregated by gender)	5.91. Forest fire management plans developed (CFMG)	S.10.1. Forest early- warning and rapid- response systems for fire using electronic channels established	5.11.1. Research reports on vulnerable forest ecosystems in Zambia conducted
3	Cross-cutting	Cross- cutting	Cross- cutting	Cross- cutting
D	5.8. Awareness campaigns on impacts of climate change on forests conducted	5.9. Improved forest fire management at national and subnational levels	5.10. Forest Early warning and rapid response systems for fire using electronic channels established	5.11. Research on vulnerable forest ecosystems in Zambia conducted
3	5. Reduced vulnerability and strengthened resilience of livelihoods among forest communities		324	
8	Zambia Integrated Forest Landscape Programme (Pillars I, II and III of 7NDP) National Investment Plan to Reduce Deforestation and Forest Degradation			
A	AFOLU - Forestry			
	8	19	29	69

1	\$469,003	\$114,816	\$109,949	\$48,037	
×	Forestry Department	Forestry Department Department		Forestry Department	
ſ	Annual reports Forestry Department	Forestry Department Website	Annual reports Forestry Department Forestry Department Website	Annual reports Forestry Department CFMG data	
_	15000 law enforcement operations conducted in gazetted forests and protected areas by December of 2026	Policy Paper on gender, climate change and Forestry developed and disseminated by December of 2024	Database disaggregated by gender established by December of 2024	100 additional annually trained female representatives by December of 2025	
I	7500 law enforcement operations conducted in gazetted forests and protected areas by December of 2024	Scoping report on gender integration in policy documents by December of 2023	Database development technical assistance commissioned by December of 2023	200 annually trained female representatives by December of 2024	
9	A/N	CGAP Report, Gender mainstreaming guidelines, Gender Policy	UN REDD database, MRV Systems (ZEMA)	0	
9	512.1. Number of law enforcement operations conducted in gazetted forests and protected areas	6.1.1. Development: of policy paper, including sector baseline diagnostic, on gender, climate change and Forestry developed and disseminated	6.3.1. Database of disaggregated information with respect to gender, forest and climate change issues developed	6.4.1. Female representatives trained in Community Forest Management Groups (CFMG)	
3	Cross- cutting	Cross- cutting	Cross- cutting	Cross- autting	
Q	5.12. Law enforcement operations conducted in gazetted forest and protected areas	6.1. Policy Paper on gender, climate change and forestry developed and disseminated	6.2.Database on participation in forest management established	6.3. Increased participation of women in Community Forest Management Groups	
3		6. Increased gender equity and inclusiveness for both women and men in Community Forest Management Groups (CFMG)			
80					
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H	Z.	25	- 28		

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7	\$51,312	\$923,599,661	\$3,426,902,997	\$494,327,586
×	Forestry Department	Department of Energy	Department of Energy	Department of Energy
F	Annual reports Forestry Department CFMG data	Energy sector report- Energy Regulations Board	Energy sector report- Energy Regulations Board	300MW of power Energy sector report- generation by Energy Regulations December of 2030 Board
118	25 Materials on lessons learned developed by December of 2025	Additional 720 MW under construction or commissioned by December of 2030	Additional 1400 MW of power generation by December of 2030	300MW of power Energ generation by Energ December of 2030 Board
Ξ	10 Materials on lessons learned developed by December of 2023	Additional 120 MW of generation by December of 2024	1163 MW under construction by December of 2025	130MW under construction by December of 2025
5	0	69MW (Ngonye, Bangweulu)	2354 MW(2019) Large Hydro 43.8MW(2021), Initial Batoka Gorge Feasibility study completed in 1993, another update in 2005 and current 2018	ОММ
3)	6.6.1. Materials on lessons learned developed	7.1. Megawatts of solar electricity supplied in the grid	7.2.1. Megawatts of Mitigation hydroelectricity supplied	7.3.1. Megawatts of wind electricity supplied into the grid
	Cross- cutting	Mitigation	Mitigation	Mitigation
Ø	6.4. Lesson learnt materials produced and published	7.1. Increased solar energy contribution to the national installed electricity generation	7.2. Low carbon based hydro- electricity supplied into the grid	7.3. Wind Electricity supplied into the grid
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	89	69	70.	Ę

1	\$66,576,087	\$307,071,125	\$5,278,690	\$3,604,698	\$740,892,423		\$7,645,601	
К	Department of Energy	Department of Energy	Department of Energy	Department of Energy	Department of Energy	Department of Energy	Department of Energy	Department of Energy
-	Energy sector report- Energy Regulations Board	Energy sector report- Energy Regulations Board	Energy sector report- Energy Regulations Board	Energy sector report- Energy Regulations Board	ZESCO website / reports	ZESCO website / reports	Living Conditions Monitoring Survey or Alternative Energy household level survey	ERB, MoE reports
1	17,7MW of power Energy generation by Energy December of 2030 Board	100MW of power generation by December of 2030	Feasibility study concluded by December of 2026	15 by December of 2026	77299 by ZESCO. December of 2026 reports	1217 by December of 2026	0.25 by December of 2030	100000 by December of 2027
Н	15 MW under construction by December of 2024	36MW under construction by December of 2025	Feasibility study commissioned by December of 2024	N/A by N/A	40000 by December of 2024	500 by December of 2024	0.45 by December of 2025	50000 by December of 2025
9	ммо	7.5.1 Megawatts of electricity generated through 40MW(2019) – at Nakambala sugar. biomass and plant and grid into the grid	ZESCO Energy Mix Strategic Plan launched (10 year rolling)	Fifteen additional renewable energy off-grid projects will be developed by 2026 in addition to the 7 in 2021 (8 NDP)	14,711 businesses connected	ZESCO Energy Mix Strategic Plan launched (10 year rolling)	92% of households using charcoal in 2021	Strategic and Action Plan launched.
F	7.4.1. Megawatts of geothermal electricity generated and supplied into the grid	7.5.1 Megawatts of electricity generated through blomass and supplied into the grid	7.6.1. Feasibility study for nuclear power development	7.7.1.15 RE off-grid projects	7.8.1. Businesses connected to mini grids	7.9.1. Public and private institutions connected to mini grids	7.10.1. % of surveyed household using alternative cooking solution	7.11.1. Improved cookstoves distributed
E	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation
D	7.4. Geothermal electricity generate and supplied into the grid	7.5. Biomass based electricity generated and supplied into the grid	7.6. Nuclear based electricity assessed as future source of energy	7.7. Increased generation in renewable energy for Off-grid supply	7.8. increased number of businesses connected to mini grids	7.9. Public and Private Entities connected to mini grids	7.10. Energy efficiency and conservation promotion	7.11. Improved cook stoves produced and distributed across the country
3	7. Increased share of Renewable Energies in the national grid and increased Energy Efficiency upscaled							
8		8th NDP, Public Finance Act No. 15 of 2004, National Policy on Climate Change 2016, National Planning and Budgeting Act 1, 2020						
A	Energy							
Ц	Z.	23	74	52	92	H	78	97

T I	\$9,425,644		\$168,954	250'05\$		5372,368		
К	Department of Energy	Department of Energy		Department of Energy	Department of Energy	Department of Energy		
1	Ministry of Energy reports	Energy Regulations Board website	Energy Regulations Board website	Ministry of Energy reports	MRV portal and website	MRV portal and website Ministry of Energy reports		
_	3,500,000 LEDs distributed by December of 2027	Renewable Energy Act updated by December of 2026	Energy Efficiency Act updated by December of 2026	Sub-sector energy efficiency stakeholder mapping full report by December of 2026	300 GRZ by MRV por December of 2026 website	20 focal point data by December of 2026		
н	1,000,000 new replacements by December of 2023	Draft bill for Renewable Energy by December of 2025	Draft bill for Energy Efficiency by December of 2025	Sub-sector energy efficiency stakeholder mapping draft report by December of 2025	150 GRZ by December of 2024	10 focal point data by December of 2024		
9	5,000,000 bulbs in 2017	Mini-grid Regulatory framework developed	Mini-grid Regulatory framework developed	Stakeholders identified in 2015	MRV Focal Points in sectors identified	MRV Web-based systems operational		
F	7.12.1. Number of incandescent bulbs replaced with LED/CFL	7.13.1 Legal framework for renewable energy amendment	7.13.2 Legal and implementation framework for renewable energy developed	7.14.1 Sub-sector energy efficiency stakeholder mapping report done	7.15.1. Institutions/person s trained in data capturing in energy efficiency and renewable energy	7.16.1. Functional focal points with data capturing hardware and software tools in energy efficiency and renewable		
E	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
D	7.12. Incandescent. bulbs replaced with LED/CFL	7.12. Incandescent bulbs replaced with LED/CFL framework in renewable energy and energy efficiency updated			7.15. Training of personnel in data capture in energy efficiency and renewable energy technologies	7,16. Data capturing hardware and software tools in energy efficiency and renewable energy procured and adopted		
a	7.12. Incandescent bulbs replaced with LED/CFL framework in renewable energy and energy efficiency updated renewable energy efficiency and renewable energy sub-sector (province & district) mapped personnel in data capture in energy efficiency and renewable							
8								
A	08	B.	88	8	***	<b></b>		

