

NS-261 - Integrated Waste Management

Zambia

NAMA Seeking Support for Implementation

A Overview		
A.1 Party	Zambia	
A.2 Title of Mitigation Action	Integrated Waste Management	
A.3 Description of mitigation action	The NAMA proposes implementation of four (4) core activities namely; (i) increasing the collection and disposal of municipal solid waste up to 80% by the year 2030 in Lusaka, Kitwe, Ndola and Livingstone; (ii) promoting the practice of solid waste segregation so that by 2030, 90% of recyclable materials are recovered at source and the business of recycling is enhanced; (iii) improving solid waste treatment, disposal and GHG emission reduction in the four selected cities through development of Mechanical Biological Treatment (anaerobic digestion infrastructure for biogas capture to generate electricity; (iv) installation of sludge digesters for each of the mechanical treatment plants as follows: 2 in Lusaka, 4 in Ndola and 1 in Kitwe for electricity generation.	
A.4 Sector	☐ Energy supply ☐ Transport and its Infrastructure ☐ Residential and Commercial buildings ☐ Industry ☐ Agriculture ☐ Forestry ☒ Waste management ☐ Other	
A.5 Technology	☐ Bioenergy ☐ Cleaner Fuels ☐ Energy Efficiency ☐ Geothermal energy ☐ Hydropower ☐ Solar energy ☐ Wind energy ☐ Ocean energy ☐ Carbon Capture and Storage ☐ Low till / No till ☐ Land fill gas collection ☒ Other	
A.6 Type of action	☐ National/ Sectoral goal ☒ Project: Investment in machinery ☐ Strategy ☐ Project: Investment in infrastructure ☐ National/Sectoral policy or program ☐ Project: Other ☐ Other	
A.7 Greenhouse gases covered by the action	☒ CO2 ☒ CH4 ☒ N2O ☐ HFCs ☐ PFCs ☐ SF6 ☐ Other	
B National Implementing Entity		
B.1.0	Name	Ministry of Local Government and Housing for solid waste management, and the National Water and Sanitation Council (NWAS) water management
B.1.1	Contact Person 1	Mr. Nkumbu Siame, Director – Department of Housing and Infrastructure Development (DHID)
B.1.2	Address	P. o. Box 50027RW, Lusaka
B.1.3	Phone	+260 963 832430
B.1.4	Email	nkumbusiame@yahoo.com
B.1.5	Contact Person 2	Mr. Hartman K. Ngwale – Senior Solid Waste Management Officer, DHID
B.1.6	Address	
B.1.7	Phone	+260 211 252335
B.1.8	Email	
B.1.9	Contact Person 3	
B.1.10	Address	
B.1.11	Phone	
B.1.12	Email	
B.1.13	Comments	
Add Additional Entity		
C Expected timeframe for the implementation of the mitigation action		

C.1	Number of years for completion	5
C.2	Expected start year of implementation	2017

D Currency		
D.1	Used Currency	USD
Conversion to USD: 1		

E Cost		
E.1.1	Estimated full cost of implementation	129,859,035 Conversion to USD: 129,859,035
E.1.2	Comments on full cost of implementation	Public Private Partnership (PPP) will bear the cost of implementing the innovative technologies though equity and loan amounting 86,000,000 and NAMA grant of US\$ 37,000,000. The rest of the financing will be met by Government though National Budget an US\$ 6,000,000.
E.2.1	Estimated incremental cost of implementation	 Conversion to USD: 0
E.2.2	Comments on estimated incremental cost of implementation	

F Support required for the implementation the mitigation action		
F.1.1	Amount of Financial support	37,000,000 Conversion to USD: 37,000,000
F.1.2	Type of required Financial support	☐ Grant ☐ Guarantee ☐ Loan (sovereign) ☐ Equity ☐ Loan (Private) ☐ Carbon finance ☒ Concessional loan ☐ Other
F.1.3	Comments on Financial support	Public Private Partnership (PPP) will bear the cost of implementing the innovative technologies though equity and loan amounting 86,000,000 and NAMA grant of US\$ 37,000,000. The rest of the financing will be met by Government though National Budget am US\$ 6,000,000.
F.2.1	Amount of Technological support	
F.2.2	Comments on Technological support	
F.3.1	Amount of capacity building support	2,000,000 Conversion to USD: 2,000,000
F.3.2	Type of required capacity building support	☒ Individual level ☒ Institutional level ☒ Systemic level ☐ Other
F.3.3	Comments on Capacity Building support	Capacity development needed for Policy, institutional arrangements, legal and regulatory framework, financial institutions, private Research and Development (R&D) in integrated waste management.

G Estimated emission reductions		
G.1	Amount	1.6
G.2	Unit	MtCO2e
G.3	Additional information (e.g. if available, information on the methodological approach followed)	Baseline and project emissions determined to arrive at reduction potential by 2030 using IPCC Guidelines

H Other indicators		
H.1	Other indicators of implementation	

I Other relevant information		
I.1	Other relevant information including co-benefits for local sustainable development	Job creation for those that will be involved in recycling and in the collection and disposal of the increasing amounts of wa generation of electricity. Other co-benefits are improved health of the population in the targeted areas and increased aes of the clean surroundings.

J Relevant National Policies strategies, plans and programmes and/or other mitigation action		
J.1	Relevant Policies	This NAMA is being developed within the overall policies and strategies of the Government of the Republic of Zambia namely Revised Sixth National Development Plan (R-SNDP), the Na National Waste Management Strategy and Environmental Management Act (EMA). Other supporting pieces of legislation with regard to waste management include: (i) Local government Act of 1991; (ii) Local Government (Solid Waste Management) regulations 2011, un Government Act Cap 281, SI No. 100 of 2011, aimed at managing the generation of solid and waste management practices; (iii) Public Health Act of 1930, (iv) Mines and Minerals Act of 1 National Health Services Act of 1996; (vi) Ionising Radiation Act of 1975; (vii) Water Act Cap 198 of the Laws of Zambia; (viii) Water Resources Management Act of 2011; and (ix) Water S Sanitation Act No 28 of 1997, and (x) National Energy Policy (NEP 2008).

J.2 Link to other NAMAs

(none)

K Attachments

K Attachments

Title

Description

No records to display.

K.1 Attachment description

K.2 File

Choose File

No file chosen

L Support received

L.1 Outside the Registry

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L.2 Within the Registry

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