

NS-260 - Small Hydro Projects Development in Zambia

Zambia

NAMA Seeking Support for Implementation

A Overview		
A.1 Party	Zambia	
A.2 Title of Mitigation Action	Small Hydro Projects Development in Zambia	
A.3 Description of mitigation action	This NAMA proposes implementation of six small hydro sites. The selected sites are: Chavuma and Chanda Falls, Chikata Falls, W Zengamina and Kasanjiku in North Western Province and Chilunga in Eastern Province. The proposed total installed capacity is 25. an estimated generation of 42.39 GWh, 61.21Gwh and 85.45GWh in the year 2020, 2025 and 2030, respectively.	
A.4 Sector	☒ Energy supply ☐ Residential and Commercial buildings ☐ Agriculture ☐ Waste management ☐ Other ☐ Transport and its Infrastructure ☐ Industry ☐ Forestry	
A.5 Technology	☐ Bioenergy ☐ Energy Efficiency ☒ Hydropower ☐ Wind energy ☐ Carbon Capture and Storage ☐ Land fill gas collection ☐ Other ☐ Cleaner Fuels ☐ Geothermal energy ☐ Solar energy ☐ Ocean energy ☐ Low till / No till	
A.6 Type of action	☐ National/ Sectoral goal ☐ Strategy ☐ National/Sectoral policy or program ☐ Other ☒ Project: Investment in machinery ☐ Project: Investment in infrastructure ☐ Project: Other	
A.7 Greenhouse gases covered by the action	☒ CO2 ☒ N2O ☐ PFCs ☐ Other ☒ CH4 ☐ HFCs ☐ SF6	
B National Implementing Entity		
B.1.0	Name	Ministry of Energy and Water Development; Department of Energy
B.1.1	Contact Person 1	Director – Department of Energy (kalumiana64@yahoo.com)
B.1.2	Address	Department of Energy; P.O.Box 51254, Ridgeway, Lusaka
B.1.3	Phone	+260211251337
B.1.4	Email	
B.1.5	Contact Person 2	Principal Energy Officer
B.1.6	Address	
B.1.7	Phone	+260979150653
B.1.8	Email	luzuhat@yahoo.co.uk
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	110,967,212 Conversion to USD: 110,967,212
E.1.2	Comments on full cost of implementation	Government will contribute to capacity building and feasibility study amounting to US\$12,844,905. The NAMA donor will contribute US\$55,929,714 in form of s remainder (US\$42,192,592) will be contributed by private sector in form of equity and loans.
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	55,929,714 Conversion to USD: 55,929,714
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	Government will contribute to capacity building and feasibility study amounting to US\$12,844,905. The NAMA donor will contribute US\$55,929,714 in form of s remainder (US\$42,192,592) will be contributed by private sector in form of equity and loans.
F.2.1	Amount of Technological support	
F.2.2	Comments on Technological support	
F.3.1	Amount of capacity building support	3,844,905 Conversion to USD: 3,844,905
F.3.2	Type of required capacity building support	☒ Individual level ☒ Institutional level ☒ Systemic level ☐ Other
F.3.3	Comments on Capacity Building support	To develop human resources locally in order to equip them with skills in small hydro power development knowledge and other related skills and development c sets and information on resources, in particular hydrology, topography, sediments, geology and geotechnical and other measures which could contribute to re of developing small hydro power plants (over time).
G Estimated emission reductions		
G.1	Amount	0.51
G.2	Unit	MtCO2e
G.3	Additional information (e.g. if available, information on the methodological approach followed)	Baseline and project emissions determined to obtain 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	(i) health (improved child and maternal health and reduced mortality rates); (ii) education (improved opportunities for girl child and women's education); (iii) food security (improved agriculture activity); (iv) rural development (increased investments); (v) employment creation (creation direct and indirect employment); and (vi) GHG emissions and air quality (reduced emissions and pollutants).
J Relevant National Policies strategies, plans and programmes and/or other mitigation action		
J.1	Relevant National Policies	NAMA is being developed within the overall policies and strategies of the Government of the Republic of Zambia namely National Energy policy (NEP) 20 Revised Sixth National Development Plan (R-SNDP), and Rural Electrification Master Plan (REMP).
J.2	Link to other NAMAs	(none)
K Attachments		

K	Attachments	<table><tr><th>Title</th><th>Description</th></tr><tr><td colspan="2">No records to display.</td></tr></table>	Title	Description	No records to display.	
Title	Description					
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K.1	Attachment description					
K.2	File	Choose File No file chosen				

L Support received

L.1	Outside the Registry											
L.2	Within the Registry	<table><tr><th>Support provided</th><th>SupportType</th><th>Amount</th><th>Comment</th><th>Date</th></tr><tr><td colspan="5">No records to display.</td></tr></table>	Support provided	SupportType	Amount	Comment	Date	No records to display.				
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