

Clean Development Mechanism

Sustainable Development co-Benefits Description Report¹

CDM project activity or programme of activities (PoA) information	
Title	Fuel Efficient Stoves in Zambia
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Type	Programmes of Activities
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Host Party	Zambia

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Overview of sustainable development co-Benefits

A. The extent of environmental co-Benefits:

		N/A	No	Slightly	Partly	Highly
Air	Reducing Sox		•			
	Reducing Nox		•			
	Reducing Fly ash		•			
	Reducing suspended particulate matter (SPM)		•			
	Reducing Non Methane Volatile Organic Compounds (NMVOCs)		•			
	Reducing Noise Pollution		•			
	Reducing Odors		•			
	Reducing Dust		•			
	Other air quality improvements		•			
Land	Preventing end of life products/ equipment (solid waste)		•			
	Producing/using compost		•			
	Producing/using manure, mineral fertilizer or other soil nutrients		•			
	Irrigation		•			
	Preventing soil erosion		•			
	Minimum tillage		•			
	Other means to improve land quality		•			
Water	Improving management/control of wastewater		•			
	Saving/conserving of water		•			
	Improving reliability/accessibility of water supply		•			
	Purification/cleaner water supply		•			
	Improving ecological state of water bodies		•			
	Other means to improve water		•			
Natural Resources	Protecting mineral resources		•			
	Protecting/enhancing plant life				•	
	Protecting/enhancing species diversity				•	
	Protecting/enhancing forests					•
	Protecting/enhancing other depletable natural resources		•			

B. The extent of social co-Benefits:

		N/A	No	Slightly	Partly	Highly
Jobs	New long-term jobs					•
	New short-term jobs					•
	New sources of income generation					•
	Other employment opportunities		•			
Health & Safety	Disease prevention		•			
	Reducing accidents					•
	Reducing crime		•			
	Preserving food		•			

	Reducing health damaging indoor air pollution		•
	Enhancing health services	•	
	Improving sanitation and waste management	•	
	Other health and safety improvement	•	
Education	Job-related training		•
	Enhanced educational services	•	
	Project-related knowledge dissemination		•
	Other educational benefits	•	
Welfare	Improving working conditions	•	
	Community or rural advancement		•
	Poverty alleviation (more people above poverty level)	•	
	Improving wealth distribution/ generation of income and assets	•	
	Increased municipal revenues	•	
	Optimized women's empowerment		•
	Reduced traffic congestion	•	
	Other welfare benefits	•	

C. The extent of economic co-Benefits:

		N/A	No	Slightly	Partly	Highly
Growth	New investments		•			
	New industrial/commercial activities		•			
	New infrastructure		•			
	Enhancement of productivity					•
	Reduction of production costs (services)		•			
	New business opportunities		•			
	Other economic benefits		•			
Energy	Improvement in supply of energy		•			
	Access to energy					•
	Affordability and/or reliability of energy					•
	Other energy improvements		•			
Technology	Introducing/developing/diffusing imported technology					•
	Introducing/developing/diffusing local technology		•			
	Adaptation of new technologies to local circumstances					•
	Know-how activities for a technology		•			
	Other technological benefits		•			
Balance of payments	Reduction of foreign dependency		•			
	Other macro-economic benefits		•			

D. Further information:

	Information required			
		Yes	No	N/A
				•

Detailed description

A. Environmental co-Benefits

	Indicator	Specification	Extent
Natural Resources	The CDM protects or enhance depletable natural resources as follows:		
	Mineral resources		No
	Plant life	<i>Stoves reduce the usage of non-renewable biomass, protecting existing natural areas from encroachment, in part protecting plant life.</i>	Partly
	Species diversity	<i>Stoves reduce the usage of non-renewable biomass, protecting existing natural areas from encroachment, in part protecting species diversity.</i>	Partly
	Forests	<i>Stoves reduce the usage of non-renewable biomass, protecting existing natural areas from encroachment and directly protecting forests.</i>	Highly
	Other depletable natural resources		No

B. Social co-Benefits

	Indicator	Specification	Extent
Jobs	The CDM creates new job opportunities including income generation as follows:		
	New long term jobs	<i>Long-term jobs in the overall management of the project have been created.</i> New long-term jobs > 1 year - 5	Highly
	New short term jobs	<i>Short-term jobs in the distribution of stoves, logistics and monitoring of the project have been created.</i> New short-term jobs < 1 year - 25	Highly
	Income generation	<i>Local businesses have received contracts for logistics and distribution of the stoves.</i>	Highly
	Other employment opportunities		No
Health & safety	The CDM results in health and safety improvements as follows:		
	Reduction of diseases, disease prevention		No
	Reduction of accidents	<i>Stoves provide a safer method of combustion in the household, preventing accidents around open fires.</i>	Highly
	Reduction of crime		No
	Preservation of food		No
	Reducing health damaging indoor air pollution	<i>Stoves have a significant impact on reducing indoor air pollution from particulate matter (PM2.5) that can have a detrimental impact on human respiratory systems, causing diseases such as emphysema.</i>	Highly
	Enhancement of health services		No
	Improved sanitation and waste management		No
	Other health and safety improvements		No

Education	The CDM facilitates education, dissemination of information, research or increases awareness as follows:		
	Job related training	<i>Significant levels of training are provided on CDM processes for monitorign staff and local employees have gained new skills, for example in remote data collection and statistical surveys.</i>	Highly
	Enhanced educational services		No
	Project related knowledge dissemination	<i>Project stakeholder engagement has raised awareness of climate change and the impacts of non-renewable biomass usage for local communities.</i>	Highly
	Other educational benefits		No
Welfare	The CDM improves local living and working conditions as follows:		
	Improvement of working conditions		No
	Community or rural upliftment	<i>The project has led to technological transfer of new technologies directly to rural communities.</i>	Highly
	Poverty alleviation		No
	Changes in distribution and/or generation of income and assets		No
	Increased municipal revenues		No
	Empowerment of women	<i>Cooking is predominantly a female-led task in rural Zambia and the stoves have optimized this task via greater efficiency in the use of fuel and time.</i>	Highly
	Reduced traffic congestion		No
	Other welfare benefits		No

C. Economic co-Benefits

	Indicator	Specification	Extent
Growth	The CDM supports economic development and/or stability as follows:		
	New investments		No
	New industrial/comercial activities		No
	New infrastructure		No
	Enhancement of productivity	<i>The stoves increased the productivity of households by reducing the amounht of fuel used and therefore the time required to collect fuel. Also the cooking process itself is faster. This allows family members more time for other productive activities.</i>	Highly
	Reduction of production costs (services)		No
	New business opportunities		No
	Other economic benefits		No
Energy	The CDM supports economic development and/or stability as follows:		
	Supply of energy		No
	Access to energy	<i>Access to energy has improved as c. 50% less fuel is required for day-to-day cooking needs.</i>	Highly
	Affordability and/or reliability of energy	<i>Where fuel is purchased, 50% less fuel is required, making it more affordable.</i>	Highly
	Other improvements to energy		No

Technology transfer	The CDM results in a change in technology as follows:		
	New imported technology	<i>The efficient cooking stove technology used in the project is designed and developed by specialist cookstove manufacturers using state-of-the-art R&D facilities. This is then imported into Zambia.</i>	Highly
	New local technology		No
	Adaptation of new viable technologies	<i>The cookstoves used in the project were specifically adapted to Zambia conditions.</i>	Highly
	Know-how activities for a technology		No
	Other technological benefits		No