

Tracking Tool for Climate Change Mitigation Projects (For Terminal Evaluation)

Special Notes: reporting on lifetime emissions avoided

Lifetime direct GHG emissions avoided: Lifetime direct GHG emissions avoided are the emissions reductions attributable to the investments made during the project's supervised implementation period, totaled over the respective lifetime of the investments.

Lifetime direct post-project emissions avoided: Lifetime direct post-project emissions avoided are the emissions reductions attributable to the investments made outside the project's supervised implementation period, but supported by financial facilities put in place by the GEF project, totaled over the respective lifetime of the investments. These financial facilities will still be operational after the project ends, such as partial credit guarantee facilities, risk mitigation facilities, or revolving funds.

Lifetime indirect GHG emissions avoided (top-down and bottom-up): indirect emissions reductions are those attributable to the long-term outcomes of the GEF activities that remove barriers, such as capacity building, innovation, catalytic action for replication.

Please refer to the Manual for Calculating GHG Benefits of GEF Projects.

Manual for Energy Efficiency and Renewable Energy Projects

Manual for Transportation Projects

For LULUCF projects, the definitions of "lifetime direct and indirect" apply. Lifetime length is defined to be 20 years, unless a different number of years is deemed appropriate. For emission or removal factors (tonnes of CO2eq per hectare per year), use IPCC defaults or country specific factors.

General Data	Results	Notes
	at Terminal Evaluation	
Project Title	Microturbine Cogeneration Te	chnology Application Project (MCTAP)
GEF ID	2935	
Agency Project ID	3471	
	Indonesia	
Region	EAP	
GEF Agency	UNDP	
Date of Council/CEO Approval		Month DD, YYYY (e.g., May 12, 2010)
GEF Grant (US\$)	2,587,300	
Date of submission of the tracking tool	January 1, 2015	Month DD, YYYY (e.g., May 12, 2010)
Is the project consistent with the priorities identified in National Communications,	4	
Technology Needs Assessment, or other Enabling Activities under the UNFCCC?	ı	Yes = 1, No = 0
Is the project linked to carbon finance?	0	Yes = 1, No = 0
Cumulative cofinancing realized (US\$)	2160759	
		additional resources means beyond the cofinancing committed at
Cumulative additional resources mobilized (US\$)		CEO endorsement

ejective 1: Transfer of Innovative Technologies	
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ase specify the type of enabling environment created for technology transfer through this project	t en
National innovation and technology transfer policy	Yes = 1, No = 0
Innovation and technology centre and network	Yes = 1, No = 0
Applied R&D support	Yes = 1, No = 0
South-South technology cooperation	Yes = 1, No = 0
North-South technology cooperation	Yes = 1, No = 0
Intellectual property rights (IPR)	Yes = 1, No = 0
Information dissemination	Yes = 1, No = 0
Institutional and technical capacity building	Yes = 1, No = 0
Other (please specify)	
Number of innovative technologies demonstrated or deployed	
se specify three key technologies for demonstration or deployment	
Area of technology 1	
Type of technology 1	specify type of technology
Area of technology 2	
Type of technology 2	specify type of technology
Area of technology 3	
Type of technology 3	specify type of technology
Status of technology demonstration/deployment	O: no suitable technologies are in place 1: technologies have been identified and assessed 2: technologies have been demonstrated on a pilot basis 3: technologies have been deployed 4: technologies have been diffused widely with investments 5: technologies have reached market potential
Lifetime direct GHG emissions avoided	tonnes CO2eq (see Special Notes above)
Lifetime direct post-project GHG emissions avoided	tonnes CO2eq (see Special Notes above)
Lifetime indirect GHG emissions avoided (bottom-up)	tonnes CO2eq (see Special Notes above)
Lifetime indirect GHG emissions avoided (top-down)	tonnes CO2eq (see Special Notes above)

Dijective 2: Energy Efficiency		
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lease specify if the project targets any of the following areas		
Lighting	0	Yes = 1, No = 0
Appliances (white goods)	0	Yes = 1, No = 0
Equipment	1	Yes = 1, No = 0
Cook stoves	0	Yes = 1, No = 0
Existing building	0	Yes = 1, No = 0
New building	0	Yes = 1, No = 0
Industrial processes	1	Yes = 1, No = 0
Synergy with phase-out of ozone depleting substances	0	Yes = 1, No = 0
Other (please specify)	Cogeneration	
Policy and regulatory framework	2	0: not an objective/component 1: no policy/regulation/strategy in place 2: policy/regulation/strategy discussed and proposed 3: policy/regulation/strategy proposed but not adopted 4: policy/regulation/strategy adopted but not enforced 5: policy/regulation/strategy enforced
Establishment of financial facilities (e.g., credit lines, risk guarantees, revolving funds)	0	O: not an objective/component 1: no facility in place 2: facilities discussed and proposed 3: facilities proposed but not operationalized/funded 4: facilities operationalized/funded but have no demand 5: facilities operationalized/funded and have sufficient demand
Capacity building	3	O: not an objective/component 1: no capacity built 2: information disseminated/awareness raised 3: training delivered 4: institutional/human capacity strengthened 5: institutional/human capacity utilized and sustained
_		M1000 1 1 150 2
Lifetime energy saved	35,307,0	MJ (Million Joule, IEA unit converter: http://www.iea.org/stats/unit.asp) Fuel savings should be converted to energy savings by using the ne calorific value of the specific fuel. End-use electricity savings should be converted to energy savings by using the conversion factor for the specific supply and distribution system. These energy savings are
Lifetime direct GHG emissions avoided	2,1	thon totaled over the respective lifetime of the investments tonnes CO2eq (see Special Notes above)
Lifetime direct post-project GHG emissions avoided		tonnes CO2eq (see Special Notes above)
Lifetime indirect GHG emissions avoided (bottom-up)	6,5	67 tonnes CO2eq (see Special Notes above)
Lifetime indirect GHG emissions avoided (top-down)	1.244.1	05 tonnes CO2eq (see Special Notes above)

Objective 3: Renewable Energy	
Diagon angelfy if the project includes any of the following areas	
Please specify if the project includes any of the following areas Heat/thermal energy production	Yes = 1, No = 0
On-grid electricity production	Yes = 1, No = 0
Off-grid electricity production	Yes = 1, No = 0
On grid dictardity production	103 - 1, 140 - 0
	0: not an objective/component 1: no policy/regulation/strategy in place
	2: policy/regulation/strategy fir place
Policy and regulatory framework	3: policy/regulation/strategy proposed but not adopted
	4: policy/regulation/strategy adopted but not enforced
	5: policy/regulation/strategy enforced
	0: not an objective/component
	1: no facility in place
Establishment of financial facilities (e.g., credit lines, risk guarantees, revolving funds)	2: facilities discussed and proposed
Establishment of financial facilities (e.g., credit lines, risk guarantees, revolving funds)	3: facilities proposed but not operationalized/funded
	4: facilities operationalized/funded but have no demand
	5: facilities operationalized/funded and have sufficient demand
	0: not an objective/component
	1: no capacity built
Capacity building	2: information disseminated/awareness raised
Capacity building	3: training delivered
	4: institutional/human capacity strengthened
	5: institutional/human capacity utilized and sustained
Installed capacity per technology directly resulting from the project	
Wind	MW
Biomass	MW el (for electricity production)
Biomass	MW th (for thermal energy production)
Geothermal	MW el (for electricity production)
Geothermal	MW th (for thermal energy production)
Hydro	MW
Photovoltaic (solar lighting included)	MW
Solar thermal heat (heating, water, cooling, process)	MW th (for thermal energy production, 1m² = 0.7kW)
Solar thermal power	MW el (for electricity production)
Marine power (wave, tidal, marine current, osmotic, ocean thermal)	MW
Lifetime energy production per technology directly resulting from the project (IEA unit	
Wind	MWh
Biomass	MWh el (for electricity production)
Biomass	MWh th (for thermal energy production)
Geothermal	MWh el (for electricity production)
Geothermal	MWh th (for thermal energy production)
Hydro	
Photovoltaic (solar lighting included)	MWh
Solar thermal heat (heating, water, cooling, process)	MWh th (for thermal energy production)
Solar thermal power	MWh el (for electricity production)
Marine energy (wave, tidal, marine current, osmotic, ocean thermal)	MWh
Lifatima direct CHC aminaiana avaidad	tonnes CO2eg (see Special Notes shous)
Lifetime direct GHG emissions avoided Lifetime direct post-project GHG emissions avoided	tonnes CO2eq (see Special Notes above) tonnes CO2eq (see Special Notes above)
Lifetime direct post-project GHG emissions avoided Lifetime indirect GHG emissions avoided (bottom-up)	tonnes COzeq (see Special Notes above) tonnes COzeq (see Special Notes above)
Lifetime indirect GHG emissions avoided (bottom-up) Lifetime indirect GHG emissions avoided (top-down)	11 1
Elicultic findirect of to emissions avoided (top-down)	tonnes CO2eq (see Special Notes above)

Objective 4: Transport and Urban Systems	
Please specify if the project targets any of the following areas	
Bus rapid transit	
Other mass transit (e.g., light rail, heavy rail, water or other mass transit;	
excluding regular bus or minibus)	
Logistics management	
Transport efficiency (e.g., vehicle, fuel, network efficiency)	
Non-motorized transport (NMT)	
Travel demand management	Yes = 1, No = 0
Comprehensive transport initiatives (Involving the coordination of multiple strategies	
from different transportation sub-sectors)	Yes = 1, No = 0
Sustainable urban initiatives	Yes = 1, No = 0
Policy and regulatory framework	0: not an objective/component 1: no policy/regulation/strategy in place 2: policy/regulation/strategy discussed and proposed 3: policy/regulation/strategy proposed but not adopted 4: policy/regulation/strategy adopted but not enforced 5: policy/regulation/strategy enforced
Establishment of financial facilities (e.g., credit lines, risk guarantees, revolving funds)	3: facilities proposed but not operationalized/funded 4: facilities operationalized/funded but have no demand 5: facilities operationalized/funded and have sufficient demand
Capacity building	0: not an objective/component 1: no capacity built 2: information disseminated/awareness raised 3: training delivered 4: institutional/human capacity strengthened 5: institutional/human capacity utilized and sustained
Length of public rapid transit (PRT)	
Length of non-motorized transport (NMT)	
Number of lower GHG emission vehicles	
Number of people benefiting from the improved transport and urban systems	
Lifetime direct GHG emissions avoided	
Lifetime direct post-project GHG emissions avoided	
Lifetime indirect GHG emissions avoided (bottom-up)	
Lifetime indirect GHG emissions avoided (top-down)	tonnes CO2eg (see Special Notes above)

Objective 5: LULUCF		
Objective of Edebon		
Area of activity directly resulting from the project		
Conservation and enhancement of carbon in forests, including agroforestry	ha	
Conservation and enhancement of carbon in nonforest lands, including peat land	ha	
Avoided deforestation and forest degradation	ha	
Afforestation/reforestation	ha ha	
	<u> </u>	
Good management practices developed and adopted	O: not an objective/component 1: no action 2: developing prescriptions for sustainable management 3: development of national standards for certification 4: some of area in project certified 5: over 80% of area in project certified	
Carbon stock monitoring system established	O: not an objective/component 1: no action 2: mapping of forests and other land areas 3: compilation and analysis of carbon stock information 4: implementation of science based inventory/monitoring system 5: monitoring information database publicly available	
Lifetime direct GHG emission avoided		
Lifetime indirect GHG emission avoided	tonnes CO2eq (see Special Notes above)	
Lifetime direct carbon sequestration		
Lifetime indirect carbon sequestration	tonnes CO2eq (see Special Notes above)	

Objective 6: Enabling Activities			
Please specify the number of Enabling Activities for the project (for a multiple country project, please put the number of countries/assessments)			
National Communication			
Technology Needs Assessment			
Nationally Appropriate Mitigation Actions			
Other			
Does the project include Measurement, Reporting and Verification (MRV) activities?		Yes = 1, No = 0	