



Annual Workplan

EFY 2011/2012

UNDP FY 2019

United Nations Development Programme Ethiopia

Project Title: Promoting Sustainable Rural Energy Technologies (RETs) for Household and Productive Uses

UNDAF Pillar: Pillar 1: Resilience and Green Economy

UNDAF Outcomes: UNDAF outcome 2 By 2020 private sector driven industrial and service sector growth is inclusive, sustainable, competitive and job rich

Outcome 5 - By 2020, key Government Institutions at Federal and Regional levels including Cities are better able to plan, implement and monitor priority climate change mitigation and adaptation actions and sustainable National resource management

Project outcomes:

Outcome 1: Favorable legal and regulatory environment are designed for small-scale off-grid renewable energy investments in rural areas, and modalities for stakeholder training to comply with and implement the new standards and regulations are in place by 2020.

Outcome 2: Greater awareness among rural populations about the benefits and qualities of renewable energy for household and productive uses, as well as awareness among RET enterprises about the availability of SFM and business support created by 2020.

Outcome 3: By 2020, replicable business model for wider scale-up across other developing countries by adopting an integrated approach to addressing demand and supply-side barriers is created.

Outcome 4: By 2019 Business incubation support programme accelerated at MoWIE.

Expected Project Output(s):

Outcome 1, Favourable legal and regulatory environment are designed for small-scale off-grid renewable energy investments in rural areas, and modalities for stakeholder training to comply with and implement the new standards and regulations are in place by 2019

Output 1.1 Improved and new standards are in place for domestic cook-stoves and solar lighting products

Output 1.2 New regulations for enforcement of standards in place

Output 1.3 Stakeholders have been trained in implementation and adherence to the new standards and regulations

Outcome 2: Greater awareness among rural populations about the benefits and qualities of renewable energy for household and productive uses, as well as awareness among RET enterprises about the availability of SFM and business support created by 2019.

Output 2.1 Public awareness campaign to end-users for small-scale RETs designed and implemented through national and regional media

Output 2.2 Showcasing of specific RETs introduced through technology roadshows by hired RET enterprises

Output 2.3 Awareness campaign to RET-enterprises for SFM and business incubation services designed and implemented

Outcome 3: By 2020, replicable business model for wider scale-up across other developing countries by adopting an integrated approach to addressing demand and supply-side barriers is created

Output 3.1 Risk capital for Financial Service Providers established.

Output 3.1.1 Pre-Investment Technical Assistance

Output 3.1.2 Risk Capital Grants

Output 3.2 Credit Risk Guarantees Fund established

Output 3.3 Technical assistance provided for FSPs to deploy SFM for RETs

Output 3.4 Knowledge management and dissemination provided

Outcome 4: By 2019 Business incubation support programme accelerated at MoWIE

Output 4.1: Business incubation support programme accelerated at MoWIE

Output 4.1.1 Linking activities with the Entrepreneurship Development Programme

Output 4.2 Basic business advisory support granted to RET enterprises

Output 4.3 Capable innovators enrolled for advanced business mentoring and advisory service

Output 4.4 Monitoring of RET enterprises development established

Implementing Partner: Ministry of Water, Irrigation and Energy

Responsible Parties: EFCCC (Environment, Forest and Climate Change Commission), DBE (Development Bank of Ethiopia), UNDP, UNCDF and Regional Energy Bureaus

Brief Description

This project complements with the Ethiopian Energy Policy, the Ethiopian Climate Resilient Green Economy Strategy, the Initial National Communication of Ethiopia to the UNFCCC and the Sustainable Energy for All (SE4All) initiative. The project aims to reduce Ethiopia's energy-related CO₂ emissions by approximately 2 million tones CO₂e by promoting renewable energy and low greenhouse gas (GHG)-producing technologies as a substitute for fossil fuels and non-sustainable biomass utilization in the country, with a focus on rural household appliances for cooking, lighting heating and productive uses. The activities proposed in the project are designed to remove barriers that hamper the wide-scale use of off-grid renewable energy technologies in households and productive uses in rural areas of Ethiopia, where extending the grid is simply not feasible in the short-run and where the ability to pay for larger-scale solutions is often limited.

The project consists of four components and is being under implementation over a period of five years.

Component 1: Strengthening Regulatory and Legal Framework based on National Standards

Component 2: Rural Public Awareness Campaign on Renewable Energy Technologies

Component 3: Sustainable Financial Mechanism (SFM) for RETs for rural households – UNCDF CleanStart

Component 4: Business Incubation to Promote Greater Entrepreneurship for Investment in RETs

This UNDP and MoWIE - implemented, GEF-financed project seeks to implement a more private sector-driven and market-based approach towards promoting renewable energy technologies in rural communities in Ethiopia. The four components consist of a combination of de-risking instruments (Component 1) and market-enabling activities (Component 2 and Component 4) that will combine together with a financial support mechanism (Component 3) to help transform the market for off-grid renewable energy technologies in rural communities.

The project budget consists of USD 4,091,781 of GEF grant funding, USD 900,000 from UNDP, USD 80,000 co-financing from UNCDF¹ CleanStart global programme, and co-financing from the Government of Ethiopia (MoWIE, MoF, FeMSMIDA, FUJCFSA/EDP) of USD 35,179,954 as well as further co-financing from the Development Bank of Ethiopia with a loan of USD 20 million, HIVOS, SNV, ABPP (in-kind) USD 6,185,945 and RET Enterprises (in-kind and cash) USD 5,800,000.

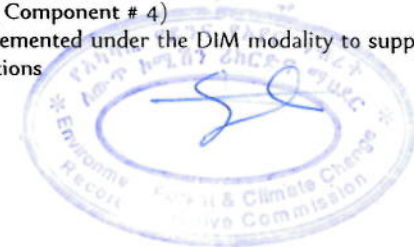
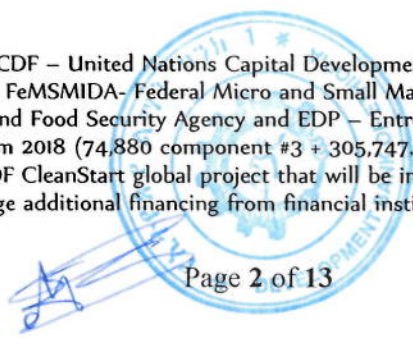
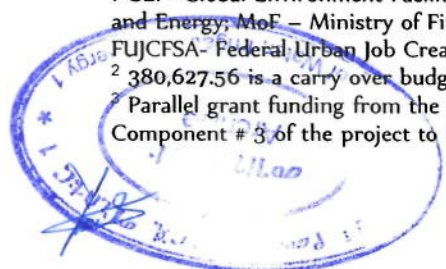
Approximately 800,000 additional households (4 million people) will benefit from the project by being enabled to invest in approximately 200,000 small-scale solar PV products (about 2.5 MWp total capacity) and approximately 600,000 improved cook-stoves; where by as long as the benefit with respect to the Project goals outstands, all types of RETs are included in the implementation of all the project components.

UNDAF Programme Period:	2016-2021	EFY 2011/12 AWP budget:	<u>\$ 1,186,578</u>
Key Result Area (Strategic Plan):	_____	Total resources required	<u>\$ 1,186,578</u>
Atlas Award ID:	00086749	Total allocated resources:	<u>\$ 1,186,578</u>
Duration of AWP		• Regular (TRAC) UNDP	<u>\$ 300,000</u>
Start date:	01/01/2019	• Other:	
End Date:	31/12/2019	* Donor GEF ²	<u>\$ 856,577.56</u>
PAC Meeting Date:	28/07/2015	* UNCDF ³	<u>\$ 30,000</u>
Management Arrangement:	DIM/NIM	*Government	_____
		Unfunded budget:	_____

¹ GEF- Global Environment Facility; UNCDF – United Nations Capital Development Fund; MoWIE – Ministry of Water, Irrigation and Energy; MoF – Ministry of Finance; FeMSMIDA- Federal Micro and Small Manufacturing Industries Development Agency; FUJCFSA- Federal Urban Job Creation and Food Security Agency and EDP – Entrepreneurship Development Program

² 380,627.56 is a carry over budget from 2018 (74,880 component #3 + 305,747.56 Component # 4)

³ Parallel grant funding from the UNCDF CleanStart global project that will be implemented under the DIM modality to support Component # 3 of the project to leverage additional financing from financial institutions



Agreed by MOWIE (Executing Entity/Implanting Partner)

[Signature]

22/01/2019

Date

Frehiwon Woldehanna, (Dr.)
State Minister



Agreed By EFCCC (Responsible Party)

[Signature]
Kebede Yimam
Deputy Commissioner



Date

Agreed by DBE (Responsible Party for Component # 3)

[Signature]
Haileyesus Bekele
President

Date

09/02/2019

Yonas Getahun
UN Agencies, CRGE Facility &
Regional Economic Cooperation
Directorate Director



Agreed by MOF (Government)

[Signature]

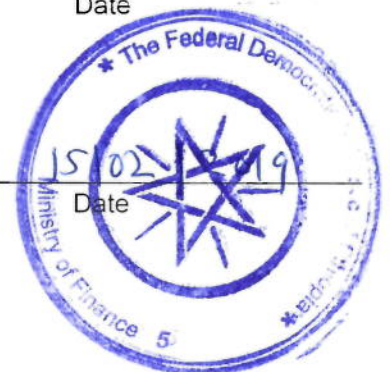
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Agreed by UNDP :(Executing Agency)



[Signature]

Date



15/02/2019

Expected Project Outputs Baseline, associated indicators	Planned Activities		Ethiopia FY2011/2012 Budget (USD)		Responsible Party	Planned Budget (USD)	Budget Description	Total Budget (USD)	
	List of activity results and associated actions		ETH FY 2011	ETH FY 2012					
Targets: 1. New regulations for enforcement of standards in place. 2. Over 500 individual stakeholders have been trained in implementation and adherence with the new standards and regulations.	Action 1.2.7 Publish the approved enforcement mechanism /regulations and disseminate		5,197				Publication of documents	5,197	
	Action 1.2.8 Develop directive /procedures for the execution of the regulations							0	
	Action 1.2.9 Conduct a consultative /validation workshop on the draft directive /procedures		3,700				Workshop	3,700	
	Action 1.2.10 Finalize the draft directive/ procedures							0	
	Action 1.2.11 Submit the draft directive/ procedures to the concerned bodies for approval							0	
	Action 1.2.12 Publish enough copies of the approved directive /procedures and distribute to relevant institutions		2,500				Publication of documents	2,500	
	1.3 Activity: Train Stakeholders on how to comply with new standards and regulations							0	
	Action 1.3.1 Organize capacity building training on the developed standard implementation strategy/regulation for regional energy experts and stakeholders			8,035					
	Action 1.3.2 Cascade training of standard implementation strategy/regulation to energy and other stakeholders' experts at region, zone and woreda levels		15,000		40,556		Training Local training and learning from international best practices	8,035	
	Action 1.3.3 Identify three pilot regions to implement the enforcement of the new standards, regulations and procedures							0	
	Action 1.3.4 Organize and train enterprises on the national standards and quality production of RETs at region level		28,000						
	Action 1.3.5 Conduct awareness creation and planning workshop to implement standard enforcement regulations at region levels								
	Subtotal (per quarter)		34,830	22,297	63,591				33,632
	Subtotal (per half year)								154,350
	Subtotal (FY 2011/12)			154,350					154,350



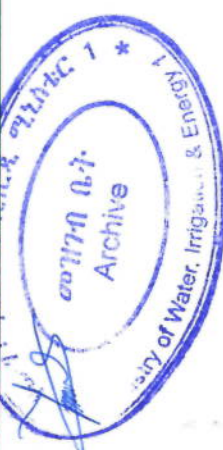
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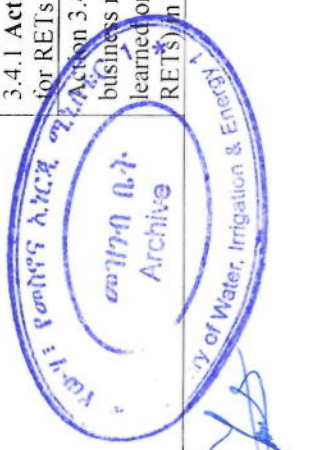
Outcome 2: Rural Public Awareness Campaign on Renewable Energy Technologies	Sub-total	56,273	97,102	0	0	153,375
Output 2.1: Greater awareness among rural populations about the benefits and qualities of renewable energy for household and productive uses	2.1 Activity: Organize Public awareness campaign to end-users for small-scale RETs					0
Baseline: Lack of public awareness in rural communities about the benefits of improved energy technologies for lighting and cooking.	Action 2.1.1 - Prepare and broadcast radio messages on the use and benefit of selected RETs using local languages	12,800				12,800
Indicators: Type, item price and estimated efficiency of technology sold directly at roadshows	Action 2.1.2 – Prepare and broadcast TV messages on the use and benefits of selected RETs using local languages	20,000				20,000
Number, size and length of appearances of promotions in media.	Action 2.1.3 – Assess and evaluate impact of messages broadcasted		9,000			9,000
Number of RET enterprises using SFM or applying for business incubation services.	2.2 Activity: Introduce showcasing of specific RETs through technology roadshows by hired RET enterprises		17,204			17,204
Targets: 300,000 RET items sold directly at roadshows	Action 2.2.1 - Assess and identify existing RET private sector actors (4 solar energy technologies importers and 4 improved biomass stoves producers) to participate on the roadshow					GEF = 139,375.00 and UNDP = 14,000.00
At least 1000 appearances of promotions in media	Action 2.2.2 – Hire experienced promotional company to lead the technology roadshow at national level		65,000			65,000
200 RET enterprises using SFM.	Action 2.2.3 – Identify potential technology roadshow sites at region level	6,500				6,500
500 RET enterprises applying for business incubation services.	Action 2.2.4 – Conduct and monitor technology roadshow (in three regions)		3,000			3,000
	Action 2.2.5 – Prepare, consult, and publish promotion materials (banners, posters, leaflets.....) using different local languages	2,500				2,500
	Action 2.2.6 – Provide logistics and technical support to RET enterprises to participate in bazars and exhibitions at region level	2,898	2,898			5,796



	Action 2.2.7 - Prepare, publish and disseminate user manuals on two selected biomass stoves	5,000							Publication	5,000
	2.3 Activity: Conduct awareness campaign to RET enterprises for SFM and business incubation services									0
	Action 2.3.1- Create awareness through different medias							MoWIE, EFCCC and DBE		0
	Action 2.3.1.1 - Prepare messages to be transmitted about the SFM and business incubation services in collaboration with DBE									0
	Action 2.3.1.2 - Identify FM radios and national TVs for announcement in Amharic and other local languages	6,575							Promotion	6,575
	Subtotal (per quarter)	56,273	97,102	0	0					153,375
	Subtotal (per half year)	153,375								153,375
	Subtotal (EFY 2011/12)									153,375



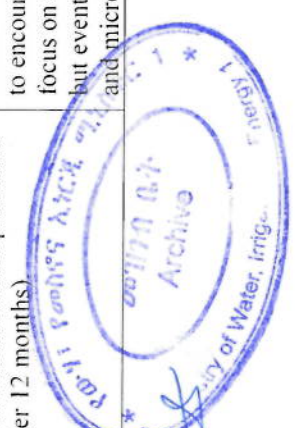
Action 3.3.3.1 Capacity building of MFIs and commercial banks by international experts (incl. product development, loan proposal assessment, support in accessing CRGF and troubleshooting)	10,000	10,000			DBE and UNCDF	GEF = 20,000	Training	20,000
Action 3.3.3.2: Technical Assistance from International experts	5,000	5,000	5,000	5,000	UNCDF	GEF = 20,000	Consultancy services and travel costs	20,000
3.3.4.3 Activity Brokering Partnerships between FSPs and RET Suppliers								0
Action 3.3.4.1: Business to Business Meeting between financial institutions and energy supply companies	4,000	2,000	2,000	2,000			Workshops / training	10,000
Activity 3.3.4.2: Business Development Services to RET suppliers including the business planning and linking with Financial Institutions [3]	2,000	5,000	500		DBE, UNCDF and UNDP	GEF = 22,500	Consultancy and Hands on support from project staff	7,500
Activity 3.3.4.3: Learning Sharing and Planning activities (inter FI activities)		1,000	3,000	1,000			Workshop / training	5,000
Activity 3.3.4.4: Facilitate linkage between grant winner RET suppliers and partner financial institutions in order for the latter to access credit through CRGF facility							Human resource inputs only	0
Activity 3.3.4.5: Promoting /increasing the awareness of RET suppliers on the availability of the CRGF in coordination with technology roadshow which is currently under implementation							Human resource inputs only	
3.3.5 Activity Undertake Monitoring of MFIs and commercial banks (CRGF partners)								0
Action 3.3.5.1 Monitoring of MFIs					DBE, UNCDF and UNDP		Human resource inputs only	0
Action 3.3.4.2 Reporting: Monitoring and Evaluation reports							Human resource inputs only	0
3.4 Activity: Provide Knowledge management and dissemination								0
3.4.1 Activity: Capture and research knowledge on SFM for RETs						GEF = 2,800	Consultancy services,	0
Action 3.4.1.1 Consultant/service provider to capture business models applied, delivery models and lessons learned on RET financing (Solar, JCS, Biogas and other RETs) in Ethiopia		1,500	1,300	1,300	UNCDF and DBE	UNDP = 5,000.00	Professional fees and publications	2,800



	Action 3.4.1.2 Publications, leaflets			2,500	2,500						5,000
	3.5 Activity Quality assurance										0
	3.5.1 Activity: Coordinate the timely implementation of the project activities and ensure quality										
	Action 3.5.1.1 Providing quality assurance/Project management (global CS PM, Global CS Project team members) [4]	12,500	12,500	12,500	12,500					Professional fees, salaries, travel and office expenses	50,000
	Action 3.5.1.2 Coordinating project activities (CleanStart project coordinator Ethiopia including travel costs and office expenses)	11,772	11,772	11,772	11,772					GEF = 78,199 UNCDF = 30,000.00	47,088
	Indirect Support Costs (8% of the budget from GEF)	3,422	3,222	2,342	2,126						11,112
	Subtotal (per quarter)	87,194	59,494	50,114	47,198						244,000
	Subtotal (per half year)	146,688		97,312							244,000
	Subtotal (EFY 2011/12)		244,000								244,000



Outcome 4: Business Incubator to Promote Greater Entrepreneurship for Investment in RETs	Sub-total	18,100	321,575	6,575	3,750				350,000
Output: At least 120 small-scale enterprises and manufacturers are successfully producing and profitably selling RETs both for household consumption and for productive uses.	4.1 Activity Accelerate Business incubation support programme at MoWIE through a programmatic approach that links existing activities of initiatives such as EDC, FeMSEDA/ReMSEDA and CleanStart enhanced by MoWIE								0
Baseline: At least 120 enterprises in Ethiopia are unable to launch improved businesses due to lack of capital and business expertise	Action 4.1.1 Provide training of trainers on the identified technology skill need of RET enterprises to regional energy bureau experts from the nine regions for RETs advancement	22,192				MoWIE, EFCCC and REBS		Training, workshop facilities and professional fees	22,192
Indicators: Number of enterprises that launch micro-businesses to sell either small-scale solar technologies or improved cook-stoves (or both)	4.2 Activity: Provide basic business advisory support to approximately 120 RET enterprises/micro-enterprises/individual businesses with targeted grants to allow rural innovators to emerge								0
Targets: 120 enterprises launch micro-businesses to sell either small-scale solar technologies or improved cook-stoves (or both) with at least a 25% success rate (i.e. still in business and profitable after 12 months)	Action 4.2.1 Conduct mentorship of business development services advisors (in five regions)	4,158					GEF = 395,747.56 and UNDP = 28,000.00	Training DSA and transport	4,158
	Action 4.2.2 - Conduct business advisory services to enterprises at region level	1,750	2,075	2,075	1,750	MoWIE, EFCCC and REBS		Transport and DSA	7,650
	Action 4.2.3 - Conduct review meeting among BDS advisors within region quarterly	1,000	1,000	1,000	1,000			Workshop	4,000
	Action 4.2.4 - Review and evaluate the performance of BDS advisors by EDC Senior advisors		2,500	2,500				Per diem and fuel cost	5,000
	Action 4.2.5 - Establish "Business Development Grant" to encourage RET innovation and announce (with a focus on solar technologies or improved biomass stoves, but eventually also other technologies such as biogas and micro-hydro)								0



12 enterprises develop their business based on innovative RETs further due to investment grants and training received.	Action 4.2.5.1 - Small-scale grant support (kick-off funding) made available through individual technical assistance packages (from one or more local/regional service providers) for approximately 45 enterprises and/or individual innovators	383,747.56	MoWIE and UNDP	Small grant award for RET enterprises and professional fee, logistics arrangement and DSA	383,747.56	
	4.4 Activity: Establishing monitoring of RET enterprises development The start-up and growth of clean energy technologies and monitor its main social, economic and environmental impacts throughout the project lifetime accelerated.				0	
	Action 4.4.1 - Actively pursue, monitor and evaluate a number of impact and result targets	1,000		Per diem and fuel cost	4,000	
	Action 4.4.1.1 - Record number and profile of RET enterprises trained		1,000		0	
	Action 4.4.1.2 - Record and follow-up the performance of RET enterprises that got BDS support				0	
	Action 4.4.1.3 - Record and report the participation and performance of RET enterprises in technology roadshows				0	
	Action 4.4.1.4 - Record and report number of RET enterprises using SFM				0	
	Action 4.4.1.5 - Record and report number of RET enterprises applying for business incubation services				0	
	Action 4.4.1.6 - Record and report number of enterprises that launch micro-enterprises				0	
	Subtotal (per quarter)	30,100	390,323	6,575	3,750	430,748
	Subtotal (per half year)	420,423	10,325			430,748
	Subtotal (EFY 2011/12)		430,748			430,748



Project Management	Sub-total	78,148	80,148	78,611	320,106
Conduct biannual project steering committee meeting		500		500	Workshop facilities
Recruit four resident capacity builders for the nine regions	5,161	5,161	5,161	5,161	Salaries
Give logistics and technical support to regions					Fuel and DSA
Organize and conduct quarter review meeting with project staff	1,500	1,500	1,500	1,500	
Organize and conduct annual project review meeting					
Service Contracts – Individuals (PM, M&E Local consultant, Project M & E Officer and Finance and Administration Officer)	6,551				Workshop
Field travel to assess the performance of project activities (M&E)	11,804	11,804	11,804	11,804	Salaries
Provide result-based planning, monitoring and evaluation training to project staff	500	2,774	2,274	1,774	Fuel and per diem
Other Materials and Goods, and maintenance					
Technical support from international experts	27,409	27,409	27,409	27,409	Procurement
Subtotal (per quarter)	52,928	52,884	50,148	48,148	
Subtotal (per half year)		105,810	98,296		
Subtotal (EFY 2011/12)		204,106			
Total (per quarter)	276,322	622,100	155,428	132,728	
Total (per half year)	898,422		288,156		
Total (EFY 2011/12)		1,186,578			

