



Gold Standard[®]
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TEMPLATE

POA DESIGN CONSULTATION REPORT

PUBLICATION DATE **14.10.2020**

VERSION **v. 1.1**

KEY PROJECT INFORMATION

GS ID of PoA	GS10898	
Title of PoA	Up Energy Improved Cookstove Programme, Uganda CDM Ref: CDM PoA 9956	
GS ID (s) of C/VPA (s) submitted at PoA Preliminary Review	GS ID of VPA	Corresponding CDM CPA ID
	GS 10899	9956-P1-0001-CP1
	GS 10900	9956-P1-0002-CP1
	GS 10901	9956-P1-0003-CP1
	GS 10902	9956-P1-0004-CP1
	GS 10903	9956-P1-0005-CP1
	GS 10904	9956-P1-0006-CP1
	GS 10905	9956-P1-0007-CP1
	GS 10906	9956-P1-0008-CP1
	GS 10907	9956-P1-0009-CP1
	GS 10908	9956-P1-0010-CP1
	GS 10909	9956-P1-0011-CP1
	GS 10910	9956-P1-0012-CP1
	GS 10911	9956-P1-0013-CP1
	GS 10912	9956-P1-0014-CP1
	GS 10913	9956-P1-0015-CP1
	GS 10914	9956-P1-0016-CP1
	GS 10915	9956-P1-0017-CP1
	GS 10916	9956-P1-0018-CP1
	GS 10917	9956-P1-0019-CP1
	GS 10918	9956-P1-0020-CP1
	GS 10919	9956-P1-0021-CP1
	GS 10920	9956-P1-0022-CP1
GS 10921	9956-P1-0023-CP1	
Version number of the DCR	1.0	
Completion Date of version	04/02/2021	
Time of First Submission Date		
Tentative Implementation date of the Programme	The PoA is an existing CDM PoA. This is a design consultation to label the CDM PoA as GS CDM PoA	
Design Consultation Start and End Date	04/01/2021-03/02/2021	
Date of any Physical Meeting (s)	Not applicable, the consultation was conducted virtually	

SECTION A. DESIGN OF STAKEHOLDER CONSULTATION

A.1. Description of the consultation methods used

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The design consultation was conducted using electronic media (email and phone)¹. The Design Consultation involved inviting comments/feedback from the following, but limited to, category of stakeholders:

- Local people impacted by the project and official representatives
- Local policy makers and representatives of local authorities
- Local non-governmental organizations working on topics relevant to the PoA
- Host country DNA
- Research organizations/institutes working on the technology involved in the PoA
- Renewable energy/energy development nodal agencies
- GS NGO Supporters (present in that host country) + International GS NGO Supporter NGOs
- Other relevant local NGOs of the host country

During consultation, a project key information note for the PoA and associated CPAs was provided to all stakeholders along with a feedback questionnaire. The initial invitation to relevant stakeholders was shared via email on 04 January 2021, providing them a period of 30 days for submitting comments, reviews and feedback, if any. Follow up emails were sent to the identified stakeholders on 27/01/2021 to encourage maximum participation. Finally, a closure email was sent on 03 Feb 2021, thanking all stakeholders for their participation. The project key information note copies were also kept at the offices of CME/CPA Implementer to encourage stakeholders to give feedback.

The comments received from the various stakeholders are listed out in Section B.1. No negative comments were received regarding the PoA and the stakeholders were appreciative of the PoA.

A. 2. Information Made Available to Stakeholders

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A non-technical summary / Project Key Information Note was shared with the relevant stakeholders and is available in Appendix 1.

A.3. Invitation/consultation tracking table

Organisation (if relevant)	Name of invitee	Method of invitation	Date of invitation (>30 days before any meeting or e-consultation)	Date of Follow up (essential for e-consultations)
Up Energy	Mitch Sauers	Email	04/01/2021	27/01/2021
Up Energy	Anantha Kartik	Email	04/01/2021	27/01/2021
Ministry of Water and Environment	Isaac Rubayiza	Email	04/01/2021	27/01/2021

¹ Physical meeting was not conducted due to COVID constraints.

Ministry of Water and Environment	Mastula Nabbanjah	Email	04/01/2021	27/01/2021
Director-Environmental Monitoring and Compliance	Arnold Waiswa	Email	04/01/2021	27/01/2021
Local council representative, Bugolobi	John Steven Kabuna	Phone	04/01/2021	27/01/2021
Climate Change Dept (Ministry of Water and Environment)	General	Email	04/01/2021	27/01/2021
Ministry of Water and Environment	General	Email	04/01/2021	27/01/2021
UNDP	General	Email	04/01/2021	27/01/2021
UNDP	Gloria Namande	Email	04/01/2021	27/01/2021
UN Resident Coordinator	Rosa Malango	Email	04/01/2021	27/01/2021
Country Director UNDP	Almaz Gebru	Email	04/01/2021	27/01/2021
Ministry of Education & Sports	General	Email	04/01/2021	27/01/2021
KCCA PTF Secretariat Directorate of Public Health and Environment Environment Department	General	Email	04/01/2021	27/01/2021
Senior Economist and Desk Officer for Climate Change Financing	Masaba Andrew	Email	04/01/2021	27/01/2021
Country Dialogue Specialist	Adeyemi Sandra Freitas	Email	04/01/2021	27/01/2021
Regional Advisor	Chantal Naidoo	Email	04/01/2021	27/01/2021
Ministry of Water and Environment, UNFCCC National Focal Point for Uganda (DNA)	Mr. Bob Natifu	Email	04/01/2021	27/01/2021
Ministry of Water and Environment, UNFCCC National Focal Point for Uganda (alternate DNA)	Mr. Alfred Okot Okidi	Email	04/01/2021	27/01/2021
ACRE	Adam Rajab	Email	04/01/2021	27/01/2021
Believe Green LLC	Federico Gallo	Email	04/01/2021	27/01/2021
Biolite Inc	Erik Wurster	Email	04/01/2021	27/01/2021
BRAC Uganda	Hasina Haque	Email	04/01/2021	27/01/2021
CDC Investment works	Tenbite Ermias	Email	04/01/2021	27/01/2021
CO2balance UK ltd	Lucas Emmerson	Email	04/01/2021	27/01/2021
CO2balance UK ltd	Ilona Coulson-Ashworth	Email	04/01/2021	27/01/2021
CO2balance UK ltd	Mark Simpson	Email	04/01/2021	27/01/2021
Fenix International	Vincent Kienzler	Email	04/01/2021	27/01/2021

GIZ	Victoria Butegwa	Email	04/01/2021	27/01/2021
Global-woods AG	Representative of Global-wood AG	Email	04/01/2021	27/01/2021
Impact Carbon	Evan Haigler	Email	04/01/2021	27/01/2021
Natural Capital Partners	Arjun Patney	Email	04/01/2021	27/01/2021
Nucafe	Deusdedit	Email	04/01/2021	27/01/2021
Potential Energy	Jessica De Clerck	Email	04/01/2021	27/01/2021
Simoshi Limited	Virginia Echavarria	Email	04/01/2021	27/01/2021
Uganda Carbon Bureau	Georg Zenk	Email	04/01/2021	27/01/2021
Village Power	Thomas Huth	Email	04/01/2021	27/01/2021
Action for Rural Women's Empowerment	General	Email	04/01/2021	27/01/2021
Finance Trust Bank	General	Email	04/01/2021	27/01/2021
Country Manager, Africa Development Bank	Mbekeani Kennedy	Email	04/01/2021	27/01/2021
Private Sector Foundation Uganda	General	Email	04/01/2021	27/01/2021
Agency for Accelerated Regional Development	General	Email	04/01/2021	27/01/2021
African Evangelistic Enterprise	General	Email	04/01/2021	27/01/2021
GIZ	General	Email	04/01/2021	27/01/2021
IRC Uganda	General	Email	04/01/2021	27/01/2021
Joint Effort To Save The Environment	General	Email	04/01/2021	27/01/2021
Katosi Women Development Trust	General	Email	04/01/2021	27/01/2021
Uganda Muslim Rural Development Association	General	Email	04/01/2021	27/01/2021
National Union of Disabled Persons of Uganda	General	Email	04/01/2021	27/01/2021
Executive Director, National Union of Disabled Persons of Uganda	Edson Ngirabakunzi	Email	04/01/2021	27/01/2021
Masaka Diocesan Development Organisation	Caritas MADDO	Email	04/01/2021	27/01/2021
UNICEF	General	Email	04/01/2021	27/01/2021
Country Director, Danish Refugee Council	Jean Christophe Saint Esteben	Email	04/01/2021	27/01/2021
United Purpose	Lloyd Archer	Email	04/01/2021	27/01/2021
HIVOS	Harry Clemens	Email	04/01/2021	27/01/2021
HIVOS Foundation	Michel Farkas	Email	04/01/2021	27/01/2021
CEDESOL	David Whitfield	Email	04/01/2021	27/01/2021
Global Offset Research	Siddharth Yadav	Email	04/01/2021	27/01/2021

Lean Management Systems Promotion Society	Raave Jain	Email	04/01/2021	27/01/2021
Concern Health Ghana	Isaac Ampomah	Email	04/01/2021	27/01/2021
MyClimate	Thomas Finsterwald	Email	04/01/2021	27/01/2021
Gold Standard Foundation	General	Email	04/01/2021	27/01/2021
Sustain-CERT	Richard Iliffe	Email	04/01/2021	27/01/2021
Sustain-CERT	Annyta Luo	Email	04/01/2021	27/01/2021
Sustain-CERT	Neha Rao	Email	04/01/2021	27/01/2021
Sustain-CERT	General	Email	04/01/2021	27/01/2021
Gold Standard Foundation	General	Email	04/01/2021	27/01/2021
Beneficiary	okello bosco	Phone	04/01/2021	27/01/2021
Beneficiary	Ocen Patrick	Phone	04/01/2021	27/01/2021
Beneficiary	George Amodoli	Phone	04/01/2021	27/01/2021
Beneficiary	Kizibwe	Phone	04/01/2021	27/01/2021
Beneficiary	Muwanika Ronald	Phone	04/01/2021	27/01/2021
Beneficiary	Akech Flavia	Phone	04/01/2021	27/01/2021
Beneficiary	Awori Juliet	Phone	04/01/2021	27/01/2021
Beneficiary	Agaba catherine	Phone	04/01/2021	27/01/2021
Beneficiary	Yusuf Kasimu	Phone	04/01/2021	27/01/2021
Beneficiary	Sabiti J	Phone	04/01/2021	27/01/2021
Beneficiary	Sebukaku	Phone	04/01/2021	27/01/2021
Beneficiary	Kasolo Hashim	Phone	04/01/2021	27/01/2021
Beneficiary	Mugoya	Phone	04/01/2021	27/01/2021
Beneficiary	Kasule Peter	Phone	04/01/2021	27/01/2021
Beneficiary	Katusabe	Phone	04/01/2021	27/01/2021
Beneficiary	Dickson	Phone	04/01/2021	27/01/2021
Beneficiary	Akullu deborah	Phone	04/01/2021	27/01/2021
Beneficiary	Kiconco Adrine	Phone	04/01/2021	27/01/2021
Beneficiary	Salome kiwanuka	Phone	04/01/2021	27/01/2021
Beneficiary	Sarah	Phone	04/01/2021	27/01/2021
Beneficiary	Rubongatwera Paul	Phone	04/01/2021	27/01/2021
Beneficiary	Nuwahereza Peninah	Phone	04/01/2021	27/01/2021
Beneficiary	Jane	Phone	04/01/2021	27/01/2021
Beneficiary	Regina K	Phone	04/01/2021	27/01/2021
Beneficiary	Nambatya Agness	Phone	04/01/2021	27/01/2021
Beneficiary	Apolot Florence	Phone	04/01/2021	27/01/2021
Beneficiary	Kajumba Rose	Phone	04/01/2021	27/01/2021
Beneficiary	Mary	Phone	04/01/2021	27/01/2021
Beneficiary	Tabaruka	Phone	04/01/2021	27/01/2021
Beneficiary	Joseph	Phone	04/01/2021	27/01/2021
Beneficiary	Aisha	Phone	04/01/2021	27/01/2021
Beneficiary	Easter	Phone	04/01/2021	27/01/2021
Beneficiary	Natyaaba E	Phone	04/01/2021	27/01/2021
Beneficiary	Wasibwa	Phone	04/01/2021	27/01/2021
Beneficiary	Namatovu sarah	Phone	04/01/2021	27/01/2021
BM Energy	Hanny Haxan	Email	04/01/2021	27/01/2021
BOLD ENERGY	Ronald	Email	04/01/2021	27/01/2021

BOLD ENERGY	Racheal	Email	04/01/2021	27/01/2021
International Lifeline Fund	Rebecca Apicha	Email	04/01/2021	27/01/2021
International Lifeline Fund	Timket Biresaw	Email	04/01/2021	27/01/2021
Energy Uganda Foundation	Farooq Kiryowa	Email	04/01/2021	27/01/2021
GBE	Ziwa Hillington	Email	04/01/2021	27/01/2021
Director, Climate Secure India Pvt Ltd.	Rohit Lohia	Email	04/01/2021	27/01/2021
Sr. Consultant, Climate Secure India Pvt Ltd.	Nihar Kumar	Email	04/01/2021	27/01/2021
Consultant, Climate Secure India Pvt Ltd.	Ashutosh Tiwari	Email	04/01/2021	27/01/2021

Initial Email Invitation:

----- Forwarded message -----

From: **Anantha Karthik Rajagopalan** <anantha@upenergygroup.com>

Date: Mon, Jan 4, 2021 at 9:17 AM

Subject: Invitation for Design / Stakeholder Feedback Consultation - GS 10898 / CDM 9956 - Up Energy Improved Cookstove PoA in Uganda

To: Help <help@goldstandard.org>

General
Gold Standard Foundation

Dear Valued Stakeholder,

Greetings from The UpEnergy Group (hereby UpEnergy), as the Coordinating/Managing Entity (hereby CME) of CDM PoA, "Up Energy Improved Cookstove Programme, Uganda".

The CDM PoA (and its CPAs 01-23) is registered under CDM-UNFCCC with reference ID 9956. It is now seeking labelling under the Gold Standard for the Global Goals (GS4GG) to certify the contribution of PoA towards achievement of various SDGs.

The purpose of the subject PoA/CPAs is to facilitate the transition away from inefficient traditional biomass fired stoves/3 stone fires, by providing high-efficiency and clean combustion ICS that reduce wood and charcoal consumption.

Several greenhouse gases (GHG), including carbon dioxide, are produced as a result of combustion of non-renewable biomass in traditional, inefficient cooking stoves. The project ICS improves combustion / heat transfer efficiency thereby reducing the amount of fuel consumed by project beneficiaries. The improved fuel combustion results in reducing smoke, black soot and particulate matter (PM) emissions as compared to that in traditional, inefficient stoves. Thus, the PoA supports the intended goals of reducing fuel consumption, improving health, reducing deforestation, and reducing GHG emissions in Uganda.

As a valued stakeholder to the PoA, you are requested to participate in the Design / Stakeholder Feedback Consultation to give your kind feedback. Due to the current situation with COVID-19, this is being organized virtually. Please find attached the Non-Technical Summary (NTS) and the Stakeholder Feedback form annexed to this email. We welcome your thoughts and suggestions and cordially request you to fill the form to share your views on this PoA. You are kindly requested to provide us with your valuable feedback within 60 days from the date of receipt of this mail / letter. Please revert to the emails mentioned in the Non-Technical Summary.

If you have any questions, please don't hesitate to ask.

Best,
Anantha Karthik Rajagopalan
Carbon Project Manager
UpEnergy Group
www.upenergygroup.com
India: +91 9884273950
Skype: ananthakarthikr



Reminder Email Invitation:

----- Forwarded message -----

From: **Anantha Karthik Rajagopalan** <anantha@upenergygroup.com>

Date: Wed, Jan 27, 2021 at 3:31 PM

Subject: Invitation for Design / Stakeholder Feedback Consultation - GS 10898 / CDM 9956 - Up Energy Improved Cookstove PoA in Uganda

To: Help <help@goldstandard.org>

Dear Valued Stakeholder,

Greetings from The UpEnergy Group (hereby UpEnergy), as the Coordinating/Managing Entity (hereby CME) of CDM PoA, "Up Energy Improved Cookstove Programme, Uganda".

The CDM PoA (and its CPAs 01-23) is registered under CDM-UNFCCC with reference ID 9956. It is now seeking labelling under the Gold Standard for the Global Goals (GS4GG) to certify the contribution of PoA towards achievement of various SDGs.

As a valued stakeholder to the PoA, we would like to follow-up with you as we have only 7 days to the close of the 30-day period to respond to design consultation. Please find attached the Non-Technical Summary (NTS) and the Stakeholder Feedback form annexed to this email. We welcome your thoughts and suggestions and cordially request you to fill the form to share your views on this PoA. You are kindly requested to provide us with your valuable feedback within the next 7 days from the date of receipt of this mail / letter. Please revert to the emails mentioned in the Non-Technical Summary.

If you have any questions, please don't hesitate to ask.

Best,

Anantha Karthik Rajagopalan

Carbon Project Manager

UpEnergy Group

www.upenergygroup.com

India: +91 9884273950

Skype: ananthakarthikr



Closure Email Notification:

----- Forwarded message -----

From: **Anantha Karthik Rajagopalan** <anantha@upenergygroup.com>

Date: Wed, Feb 3, 2021 at 5:18 PM

Subject: Thank you for your time and feedback

To: Isaac Ampomah <isaac.ampomah34@gmail.com>

Dear Valued Stakeholder,

Thanks a lot for your time and feedback.

We have taken note of all the recommendations and suggestions. We have closed the design consultation feedback round (30 days) by today.

Thanks again!

Best,

Anantha Karthik Rajagopalan

Carbon Project Manager

UpEnergy Group

www.upenergygroup.com

India: +91 9884273950

Skype: ananthakarthikr



SECTION B. OUTCOME OF THE CONSULTATION PROCESS

B.1. Assessment of comments received

Organization	Stakeholder comments (relevant)	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
Ziwa Hillington, Green Bio Energy Ltd	<ul style="list-style-type: none"> I will recommend various Research and technological institutions like CREEC, and other Non-Governmental organizations be involved in the PoA. 	Yes	UpEnergy welcomes the suggestion.
Victoria Butegwa, GIZ Energising Development (EnDev) Uganda	<ul style="list-style-type: none"> The PoA design should have a strong focus on the after-sales/warranty services offered by UpEnergy to ensure customers are well trained on proper use and maintenance of the improved cookstoves, and fully understand the warranty services offered to address any issues with the stove. I will recommend to Raising Gabdho (ICS producer and distributor that also operates in refugee and host community areas), Africa Energy and Environment Saving Stoves (AES), Bold Energy (one of the largest manufacturers of improved cookstoves), BM Energy Saving and Equipments Ltd. 	Yes	<p>All stoves are provided with limited warranty which is communicated to the users.</p> <p>AES, BOLD and BME are already involved in the PoA.</p>
Rubayiza Isaac, Ministry of Water and Environment Climate Change Department	<ul style="list-style-type: none"> Can measurements be done for the changes on indoor air pollution as a result of the ICS use. For SDG indicator 13 Climate Change - For transparency purposes, this should be shared with the DNA. I am against to system of waiver of ownership of carbon credits by end users. A way of sharing these credits should be explored, this could actually encourage uptake of the technology. 	Yes	<p>Quantitative measurement of changes in indoor air pollution is very challenging. Hence, instead, this is being monitored qualitatively.</p> <p>This is a CDM PoA and any CER/VER issued will automatically become known to DNA.</p>

	<ul style="list-style-type: none"> I have recommendations to Synergize monitoring and reporting of the SDG outcomes with government 		<p>The waiver of ownership of credit is a mandatory requirement and cannot be avoided.</p> <p>Up Energy will explore synergies with government in SDG reporting.</p>
Annet Ssempala, GIZ EnDev Uganda	<ul style="list-style-type: none"> CPA would have been allocated by region to make sure all regions can easily access the technologies. I will recommend to African Energy and Environment saving stoves (AES) Limited would join the PoA since they make good stoves and are already producing stoves with UpEnergy. UpEnergy engages so many partners to produce and distribute their stoves on their behalf. These partners might also be registered with other PoAs and the numbers get mixed up/double counting. 	Yes	<p>Each VPA is PAN Uganda so all regions in Uganda are covered by the PoA/CPAs.</p> <p>AES is already included in the PoA.</p> <p>Each stove has a unique serial number, so double counting risks are completely avoided in the PoA.</p>

B.2. Report on Level of consultations

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Organization	Stakeholder Feedback
Green Bio Energy Ltd	The stakeholders’ interaction should be conducted at activity (CPA) level to allow of more diverse ideas
GIZ Energising Development (EnDev) Uganda	The stakeholders’ interaction should be conducted at PoA level would be ideal to keep relevant stakeholders informed on progress or needs given various cook stove PoAs under development from different partners
Ministry of Water and Environment Climate Change Department	The stakeholders’ interaction should be conducted at PoA level as this option provides a clear feedback on what is transpiring on ground where the PoA is to be implemented
GIZ EnDev Uganda	The stakeholders’ interaction should be conducted at PoA level since there are many PoAs in Uganda, who are not known or active. Knowing and working with each other builds support/encourage. They need to know from each other which CPA belongs to who and related challenges.

B.3. Summary of changes to the Programme design based on stakeholder feedback received.

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No changes are deemed required to the Programme design based on stakeholder feedback received.

Revision History

Version	Date	Remarks
1.1	14 October 2020	Addition of version history table Removal of Section A which repeats information in the POA-DD Clarification on reporting information made available for stakeholders Clarity on minimum period for invitation and consultation and that follow up is necessary for e-consultations Clarity that a GS representative should be invited
1.0	10 July 2017	Initial adoption

APPENDIX 1: PROJECT KEY INFORMATION NOTE/ NON-TECHNICAL SUMMARY

1. Introduction

UpEnergy Group is an organization that develops well-engineered technology solutions to improve the living conditions on a global scale with primary emphasis on applications in developing countries.

UpEnergy brand is known for quality, reliability, and the livelihood improvements it delivers. The products that UpEnergy sell saves fuel, protect forests, and improve health and benefit consumers and their local producers. The use of UpE's product line mitigate carbon emissions which is quantified, certified and delivered to buyers of high-quality carbon credits. UpEnergy is further known for the 30+ years of collective experience which they bring to the development of superior carbon emissions reduction projects that benefit low-income people.

The CDM PoA "*Up Energy Improved Cookstove Programme, Uganda*" is a voluntary initiative by UpEnergy Group (hereby UpEnergy), as the Coordinating/Managing Entity (hereby CME). As the CME, UpEnergy will communicate with the CDM Executive Board, Sustain-Cert, Gold Standard and/or the pertinent DOE on all matters.

The CDM PoA (and CPAs 01-23) is registered under CDM-UNFCCC with the reference ID (9956). It is now seeking labelling under the Gold Standard for the Global Goals (GS4GG) to certify the contribution of PoA towards achievement of various SDGs.

No ODA funding is involved in the PoA/CPAs.

2. PoA/CPAs Description

The PoA (and CPAs 01-23) is located in the Republic of Uganda and involves distribution of efficient biomass fired Improved Cookstoves (ICS). The project ICSs replace the low efficiency, traditional biomass fired stoves/3 stone fires, used for meeting equivalent thermal energy needs in the absence of the project activity.

Uganda is considered by the UN to be a Least Developed Country. As per SE4ALL², By the end of 2018, just over 1 percent of Ugandan households were using clean fuel as their primary cooking energy source, typically LPG (0.7 percent) or electricity (0.5 percent). Approximately 95% of households still cook with wood or charcoal. Also, at the end of 2018, only about 1 percent of households in Uganda were estimated to be cooking with charcoal or wood using a high-quality industrial ICS that meets international minimum standards on fuel efficiency and emissions. This is also supported by Uganda DHS 2018 that specifies a whopping 94.8% population relying on wood or charcoal for cooking³.

The target areas are all regions with traditional biomass stove users. The consumption of non-renewable biomass for fuel, in the form of both wood and charcoal derived from

² https://www.seforall.org/system/files/2019-12/Taking-Pulse-Uganda_0.pdf, page 105

³ Uganda Demographic and Health survey Report, January 2018, table 2.4

wood, consumes high proportion of beneficiaries' income and time through fuel purchase and/or collection.

Furthermore, the use of solid biomass fuels (e.g. wood & charcoal) in inefficient traditional stoves and on open fires – whilst meeting domestic household and community level needs - releases large amounts of particulate matter (PM) into the local environment, creating toxic levels of indoor air pollution (IAP). IAP – generated largely by inefficient and poorly ventilated stoves burning biomass fuels such as wood, crop waste and dung, or coal – globally is responsible for the deaths of an estimated 1.6 million people annually. More than half of these deaths occur among children under five years of age. In developing countries with high mortality rates overall, indoor air pollution ranks fourth in terms of the risk factors that contribute to disease and death (World Health Organization).⁴

The purpose of the PoA/CPAs is to facilitate the transition away from inefficient traditional biomass fired stoves/3 stone fires, by providing high-efficiency and clean combustion ICS that reduce wood and charcoal consumption. Several greenhouse gases (GHG), including carbon dioxide, are produced as a result of combustion of non-renewable biomass used in baseline cooking stoves. The project ICS improve heat transfer efficiency thereby reducing the amount of fuel consumed by ICS beneficiaries. The improved fuel combustion results in reducing smoke, black soot and particulate matter (PM) emissions as compared to that in traditional or inefficient stoves. Thus, the PoA supports the intended goals of reducing fuel consumption, improving health, and reducing deforestation in Uganda. Additionally, the ICSs they contribute significantly towards GHG emissions reductions.

The PoA link to CDM-UNFCCC website is as follows:

https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/WRL90IO62SKX4BD5CYJT8E1HVZ7QUM/view

For more information on the PoA and concerned CPAs, please refer the GS4GG KPID documents available at:

https://www.dropbox.com/sh/iyunlqa3ba5maje/AACd6Jxigxlz3x6A72I_0Y4ca?dl=0

Please note that the above link shall remain valid for 60 days only and will expire on 01 March 2021.

3. Start date of the PoA / CPAs

GS Reference Number of PoA: GS 10898

CDM Reference Number of PoA: 9956

PoA Start Date: 02 Aug 2011

PoA Lifetime: 28 years

CDM Registration Date: 22 Jul 2014

⁴ <https://www.who.int/heli/risks/indoorair/indoorair/en/>

GS Reference No.	CDM Reference No.	CPA Start Date	Crediting Period Start Date
GS 10899	9956-P1-0001-CP1	02/01/2013	22/07/2014
GS 10900	9956-P1-0002-CP1	09/05/2014	17/03/2015
GS 10901	9956-P1-0003-CP1	02/04/2015	17/04/2015
GS 10902	9956-P1-0004-CP1	02/04/2015	17/04/2015
GS 10903	9956-P1-0005-CP1	04/05/2016	01/01/2017
GS 10904	9956-P1-0006-CP1	07/06/2016	01/01/2017
GS 10905	9956-P1-0007-CP1	05/07/2016	01/01/2017
GS 10906	9956-P1-0008-CP1	09/08/2016	01/01/2017
GS 10907	9956-P1-0009-CP1	20/06/2017	15/07/2017
GS 10908	9956-P1-0010-CP1	20/07/2017	20/08/2017
GS 10909	9956-P1-0011-CP1	22/08/2017	25/09/2017
GS 10910	9956-P1-0012-CP1	25/09/2017	21/10/2017
GS 10911	9956-P1-0013-CP1	16/08/2018	05/12/2019
GS 10912	9956-P1-0014-CP1	16/08/2018	05/12/2019
GS 10913	9956-P1-0015-CP1	16/08/2018	05/12/2019
GS 10914	9956-P1-0016-CP1	16/08/2018	05/12/2019
GS 10915	9956-P1-0017-CP1	16/08/2018	05/12/2019
GS 10916	9956-P1-0018-CP1	16/08/2018	05/12/2019
GS 10917	9956-P1-0019-CP1	16/08/2018	05/12/2019
GS 10918	9956-P1-0020-CP1	16/08/2018	05/12/2019
GS 10919	9956-P1-0021-CP1	16/08/2018	05/12/2019
GS 10920	9956-P1-0022-CP1	16/08/2018	05/12/2019
GS 10921	9956-P1-0023-CP1	16/08/2018	05/12/2019

4. Current Status of the PoA/CPAs

The PoA and the twenty-three CPA are operational since their start date.

5. Implementation Framework of the PoA/CPAs

UpEnergy is the Coordinating/Managing Entity (CME) for the PoA and the CPA Implementer of the CPAs proposed for GS labelling. The Implementation of the PoA follows the following management system.

1. The CME / CPA implementer (CPAI) manages ICS sales and distribution via local sales and distribution partners (SDP). CME provides guidance / training / instructions to them on requisite data collection at the time of sale/distribution.
2. An electronic database is maintained containing the end-user information for each installation / distribution including unique identification of each stove unit.
3. The CME / CPAI ensures that end users are aware of, and have agreed, that their unit is being subscribed to the PoA through warranty cards/sales receipt clearly stating the same.
4. The CME / CPAI ensures that end users are aware of, and have transferred, the ownership of carbon credits to CME.
5. The CME / CPAI ensures that there is no double counting of any unit in the electronic database by means of unique serial number associated with each unit.
6. The CME / CPAI coordinates all ex-post monitoring activities in the PoA

6. Geographic Boundaries of the project

The boundary for the PoA in terms of a geographical area is defined as the territorial boundary of the Republic of Uganda. All CPAs associated with this PoA are implemented within the geographical boundary of the PoA.

7. Technological Details

The PoA involves ICS technology which is based on the principle of improving heat transfer from combustion chamber to the cooking pot, saving cooking fuel and time.

The stoves distributed under this PoA have thermal efficiencies in the range of 25-38%. These stoves reduce the amount of fuel consumed for cooking and heating, thereby reducing GHG emissions associated with use of non-renewable biomass, compared to baseline.

The stoves consist of a metal frame (called cladding) with interior ceramic liner for thermal insulation. The ICS has a provision that allows ash collection at the base. A thin layer of cement is placed between the cladding and the liner to bind the two. During use, a single pot rests at the top the stove. The materials are from readily available local materials requiring limited tools and training to manufacture.

The stove is assembled locally in Uganda according to specific design parameters and dimensions, providing for uniform performance between units.

8. PoA/CPA eligibility under The Gold Standard

As per section 3.1.1 of GS4GG Principles & Requirements, compliance with relevant Eligibility criteria is demonstrated in the PoA-KPID document. Please refer link in the section 1. Above.

9. Baseline Scenario

In the absence of the project activity, the baseline scenario would be the use of fossil fuels for meeting equivalent thermal energy needs.

10. Target audience for the use of technology

The purpose of the proposed PoA/CPAs is the installation of energy efficient ICS stoves in households in Uganda. The primary target population of the distributed technology is those who use traditional cooking methods and are exposed to IAP health hazards as a result. The PoA will also target retailers, distributors and institutional buyers. While retailers and distributors are a key to ensure the dissemination of the technology directly to the end users, institutional buyers (NGOs, social service groups, corporate or micro-finance cooperatives etc.) can assist in bridging the gap in the supply chain, creating awareness and demand and making the technology more accessible to the targeted users.

11. Grievance Mechanism

Method	Include all details of Chosen Method (s) so that they may be understood and, where relevant, used by readers.	Justification
Continuous Input / Grievance Expression Process Book (mandatory)	Continuous input / Grievance Expression process book is available at the office at the following address: UpEnergy (Uganda) Limited	In line with section 2.1 of the Annex W Expression book has been placed at office of UpEnergy in Uganda. Stakeholders are free to voice their concerns via the Grievance Expression Book. By maintaining feedback book at the local office, it is

	Plot 3848 Rwakiseta Road (Off Kironde Road) P.O. Box 24480 Muyenga, Kampala Uganda	ensured that stakeholders that don't have access to electronic media for expressing concerns / grievances are also able to share their concerns / feedback. Additionally, the end users always have an option to revert to the salesperson (representative of distribution/retail partners etc.) in case of any feedback / complaints with the product post distribution.
GS Contact (mandatory)	help@goldstandard.org	
Others	Customer Care: +256 393-516-685	As the project is spread across a huge area hence telephone access has also been provisioned for in line with Annex W, section 2.3 of Gold Standard
	Email: info@upenergygroup.com	As per para 2.4 of Annex W of GS, the stakeholders with internet access have an option of contacting UpEnergy through the email id provided.

12. Contribution to SDGs / SDG Impacts

GOAL 1: No Poverty

1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance	<p>Relevance: The PoA/CPA by installation and dissemination of ICS avoids cooking on traditional baseline stoves. Thus, the PoA results in increased access to basic services (clean cooking), new technology (improved stoves) as well as reduces poverty by reducing purchased fuel consumption.</p> <p>Target Indicator – 1.4.1 Proportion of population living in households with access to basic services</p>
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GOAL 2: Zero Hunger

– No significant direct impact

GOAL 3: Good Health and Well-being

3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.	<p>Relevance: The PoA/CPA by installation and dissemination of ICS results in reduction in exposure to indoor air pollutants associated with biomass fuel based traditional cooking.</p> <p>Target Indicator – 3.9.1 Mortality rate attributed to household and ambient air pollution</p>
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GOAL 4: Quality Education

- No significant direct impact

GOAL 5: Gender Equality

<p>5.4 Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate.</p>	<p>Relevance: In the poorest communities, the burden of collecting and/or purchasing fuel, often firewood, often falls on women and children. By reducing fuel collection and cooking time, the PoA/CPA provides women in project households with more time to invest in other productive economic development activities.</p> <p>Target Indicator – 5.4.1 Proportion of time spent on unpaid domestic and care work, by sex, age and location</p>
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GOAL 6: Clean Water and Sanitation

- No significant direct impact

GOAL 7: Affordable and Clean Energy

<p>7.1 By 2030, ensure universal access to affordable, reliable and modern energy services</p>	<p>Relevance: The PoA/CPA involves dissemination of clean, modern technology for cooking, by using available energy sources more efficiently.</p> <p>Target Indicator – 7.1.2 Proportion of population with primary reliance on clean fuels and technology</p>
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GOAL 8: Decent Work and Economic Growth

<p>8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value</p>	<p>Relevance: The PoA/CPA results in generating employment for marketing / sales and distribution / technical / other employees.</p> <p>Target Indicator – 8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities</p>
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GOAL 9: Industry, Innovation and Infrastructure

- No significant direct impact

GOAL 10: Reduced Inequality

- No significant direct impact

GOAL 11: Sustainable Cities and Communities

- No significant direct impact

GOAL 12: Responsible Consumption and Production

<p>12.2 By 2030, achieve the sustainable management and efficient use of natural resources</p>	<p>Relevance: ICS included in the PoA/CPA will reduce the consumption of non-renewable biomass in participant households by as much as 50%, depending on stove model.</p>
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	Target Indicator – 12.2.2 – Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP
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GOAL 13: Climate Action

Climate Action	<p>Relevance: The PoA/CPA is directly related to the target as it contributes towards avoidance of GHG emissions from replaced of fossil fuel / non-renewable biomass-based cooking.</p> <p>Amount of CO₂e emissions reduced by the project per year.</p>
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GOAL 14: Life Below Water

- No significant direct impact

GOAL 15: Life on Land

15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally	<p>Relevance: ICS included in the PoA/CPA will reduce the consumption of non-renewable biomass in participant households /SMEs and will contribute towards reducing deforestation.</p> <p>Target Indicator – 15.2.1 Progress towards sustainable forest management</p>
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GOAL 16: Peace and Justice Strong Institutions

- No significant direct impact

GOAL 17: Partnerships to achieve the Goal

- No significant direct impact

Annex 1 – PoA Design Consultation Feedback form

Please provide your kind responses against each question

Feedback from stakeholders

NAME:
Organization:
Contact:

Please select the appropriate category that describes you or your organization from the table below:

Category Code	Category	✓
A	Local people, communities and or representatives directly / indirectly impacted by the project	<input type="checkbox"/>
B	Stakeholders with land-tenure rights within or adjacent to the project	<input type="checkbox"/>

C	Local policy makers and representatives of local authorities	<input type="checkbox"/>
D	DNA representative of the host country	<input type="checkbox"/>
E	Local non-governmental organizations, women groups working on topics relevant to your project	<input type="checkbox"/>
F	The local Gold Standard expert who is located closest to your project location (help@golstandard.org)	<input type="checkbox"/>
G	Relevant international Gold Standard Non-Governmental Organizations (NGOs) supporters, with a representation in your region and ALL GS NGO Supporters located in the host country of the project.	<input type="checkbox"/>

1. Are you already aware of the improved biomass cook stove as a technology? If yes, please mention the source of information.

2. Kindly provide feedback, if any, on the design of the PoA and suggestions towards an improvement.

3. Kindly provide feedback, if any, on the expected impacts of the PoA.

4. Kindly provide feedback, if any, if the proposed PoA's is in line with the national or regional sustainable development goals or priorities.

5. Would you recommend any group/institution to be involved in the PoA? If yes, please provide name of the institution and why it may be included in the PoA?

6. Kindly provide a feedback on implementation/institutional framework of the PoA.

7. Kindly provide feedback, if any, on the PoA' interaction with other similar initiatives in the region/within the programme boundary and any anticipated potential conflict of interest. Please give details of any interaction identified.

8. Please suggest at which level should the stakeholders' interaction be conducted i.e., at PoA level or activity (CPA) level. Kindly explain your choice.

9. Any other feedback (technology, geographical spread/ location etc.)?

Annex 2 – PoA / CPA Stakeholder Feedback Consultation Form

NAME:
Organization:
Contact:

Please select the appropriate category from the table below:

Category Code	Category	✓
A	Local people, communities and or representatives directly / indirectly impacted by the project	<input type="checkbox"/>
B	Stakeholders with land-tenure rights within or adjacent to the project	<input type="checkbox"/>
C	Local policy makers and representatives of local authorities	<input type="checkbox"/>
D	DNA representative of the host country	<input type="checkbox"/>
E	Local non-governmental organizations, women groups working on topics relevant to your project	<input type="checkbox"/>
F	The local Gold Standard expert who is located closest to your project location (help@golstandard.org)	<input type="checkbox"/>
G	Relevant international Gold Standard Non-Governmental Organizations (NGOs) supporters, with a representation in your region and ALL GS NGO Supporters located in the host country of the project.	<input type="checkbox"/>

Stakeholder Feedback – SDG Monitoring Plan

GS SDG Indicator	Possible parameter	Chosen Parameter and Justification	Monitoring procedure	Comments, if any on adequacy of SDG monitoring procedure
Environment				
3.9.1 Mortality rate attributed to household and ambient air pollution	Improvement in Indoor air quality as installation of project ICS will reduce IAP exposure	Reduction in PM/smoke emissions is a direct indicator of reduction of households’ exposure to IAP resulting in reduced mortality rate due to IAP	Monitoring Surveys conducted to determine % users reporting reduction in smoke/PM after shifting to ICS in project	
12.2.2 - Domestic material consumption, domestic material consumption per capita, and domestic material	Biomass savings effected by the project activity	Biomass saving is the direct indicator of positive management of natural resources	Average % Fuel savings reported by users in the project	

GS SDG Indicator	Possible parameter	Chosen Parameter and Justification	Monitoring procedure	Comments, if any on adequacy of SDG monitoring procedure
consumption per GDP				
13 Climate Change	As per GS methodology applied	Emission Reductions achieved by the project	As per GS methodology applied	
Social development				
1.4.1 Proportion of population living in households with access to basic services	<p>1. Number of ICS distributed under the project as an indicator of providing basic service access to households</p> <p>2. Money savings due to reduction in purchased fuel consumption</p>	<p>1. The Number of ICS distributed under the project as an indicator of providing basic service access to households (Clean cooking).</p> <p>2. Recording the money saved due to reduced purchased fuel consumption as an indicator of providing basic service access to households</p>	<p>1. Monitor the number of ICS distributed under the project as an indicator of providing basic service access to households</p> <p>2. Monitor % users reporting money saving due to reduction in purchased fuel consumption in project</p>	
5.4.1 Proportion of time spent on unpaid domestic and care work, by sex, age and location	Reduction in cooking time / reduction in fuel collection time	The qualitative assessment of reduction in cooking time/reduction in fuel collection time is a direct indicator of more time available for productive work by those engaged in cooking	Monitor the % users reporting time saving due to reduction in collected fuel consumption / cooking time in project	
7.1.2 Proportion of population with primary reliance on clean fuels and technology	Proportion of project households with working project stoves	Beneficiaries with working project stoves is a direct indicator for population serviced with clean fuel/technology.	Monitor the % of ICS distributed and operating under the project as an indicator of providing clean technology (relative to	

GS SDG Indicator	Possible parameter	Chosen Parameter and Justification	Monitoring procedure	Comments, if any on adequacy of SDG monitoring procedure
			baseline stoves).	
Economic and technological development				
8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities	Employment generated by the project	Recording the number of employments generated is a direct indicator of earnings of the employee.	Recording the number of employees (male / female) in the project under administrative, sales, production and management positions	
15.2.1 Progress towards sustainable forest management	Woodfuel eq savings reported by user in the project	Woodfuel eq saving is the direct indicator halting deforestation.	Aggregate Woodfuel eq savings due to project stoves.	

Stakeholder Feedback – General

Sl. No.	Question	Response
1	What are your views on system of waiver of ownership of carbon credits by end users?	
2	Kindly express your views on the grievance mechanism explained above?	
3	What recommendations do you have for monitoring procedures discussed above regarding the SDG indicators?	

Stakeholder Consultation – Overall Evaluation

Question: What is your impression of the Stakeholder Consultation?	
Question: What do you like about the PoA / CPA?	
Question: What do you not like about the PoA / CPA?	