

**Gold Standard for the Global Goals**  
**Stakeholder Consultation Report**



**Version 1 – July 2017**

## SECTION A. PROJECT DESCRIPTION

### A. 1. Title of the project

Title: Household and Commercial Biogas Plants in Kenya

Date: 30/01/2020

Version no.: 1

### A. 2. Project description and current status

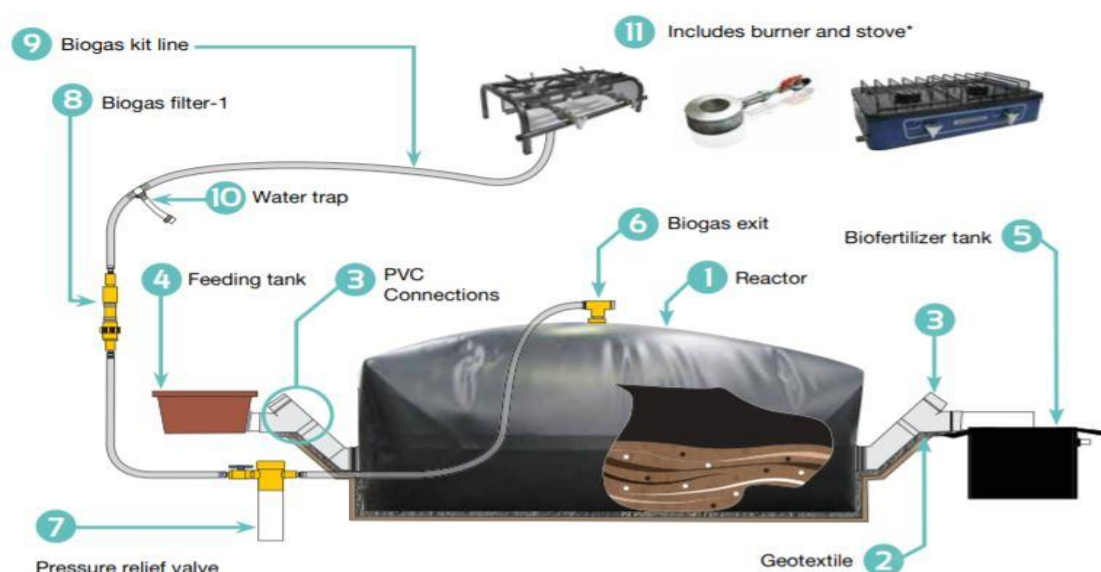
>>

The aim of the project is to provide a wide range of social, economic, and environmental benefits for families and communities in Kenya by installation of Siestema.bio's digesters. These biogas digesters having a varying capacity between 6m<sup>3</sup> to 40m<sup>3</sup> are employed to treat waste, produce renewable energy and organic fertilizer. Each household or commercial unit will utilize the dung of its cows to feed the digester for the production of biogas for domestic purposes. This leads to reduction of greenhouse gas emissions by displacing conventionally used non-renewable biomass with renewable biogas. Further, residue from the biodigesters is used as organic fertilizer and will improve soil conditions in rural areas. In addition to improved sanitation due to proper disposal of waste, the residue from the biodigesters can also be used as an organic fertilizer to enhance soil productivity. Project activity will also contribute towards sustainable development by replacing firewood with biogas generated from the biodigesters.

Details of working of the Sistema.bio digester plants are as follows:

Sistema.bio is a hermetic hybrid reactor which receives the daily waste of a farm and livestock. This waste manure is then mixed with water in order to allow fermentation. In the due process of fermentation methane-rich biogas and an organic fertilizer called boil are produced. Biogas is transported to different points of use like cookings stoves, burnes etc. The mixture left behind in the reactor is a powerful biofertilizer which is stored and applied in the fields as a substitute to chemical fertilizers. The various compents of the Sistema.bio reactor can be seen in Figure 1 below.

**Figure 1: Sistema.bio Plant**



Project has started commissioning of biogas plant from 06/12/2018 and aims to commission 50000 plants by 2023.

## SECTION B. DESIGN OF STAKEHOLDER CONSULTATION PROCESS

### B. 1. Design of physical meeting(s)

#### i. Agenda

##### - Opening of the meeting

*The opening meeting involved welcome note, purpose of the LSC and explanation about the project. Ms. Deepshikha Singh, opened the meeting and introduced herself, the organization Swiss Carbon Value Ltd. This was followed by few words from Ms. Esther Altorfer who gave a brief introduction of Sistema.bio and its digesters. The introductory session was conducted in plenary and lasted for around half an hour.*

##### - Explanation of the project

*The stakeholders were informed about the project by highlighting the key project information elucidated in English as well as the local languages (Swahili and Kikuyu). Benefits of use of Sistema.bio digesters against fire wood or other non-renewable energy sources was explained in line with the The stakeholders were given an account of the GHG emission reductions from the project and its development under the Gold Standard.*

##### - Blind SD exercise

*As a part of the requirement of the GS, the organizers involved the participants in performing a blind exercise on Sustainable Development indicators in accordance with the GS4GG principles and requirements. The participants were not disclosed with the SD indicators identified by the design team and they were encouraged to identify relevant SD indicators related with the project. In order to make sure that the exercise doesn't get out of track, facilitation was done by the proponent. Once the indicators were identified, the participants were asked to score the relevance of the indicator as the project will have positive or negative impact on it. For each indicator identified, the monitoring parameter was discussed. The discussion was held in plenary .*

##### - Discussion on Sustainable Development and its monitoring

*A discussion was initiated to discuss the sustainable development aspect of the project and how will it be monitored. The outcome of the discussion indicated that the stakeholders found the project to be a clean, economical, environment friendly and healthy source of energy which was in line with the SDGs identified by the project proponent.*

##### - Questions for clarification about the project

*The question/answer session was organized to receive feedback from the participants and*

*clarify their queries. While the clarifications sought by the participants during the introductory sessions were clarified instantly, this session was opened to attend some more questions on the project. Majority of the questions were related to the project implementation arrangement, post installation service, fees incurred and life of bio-digesters, safety measures. Key questions raised by the participants and the clarifications provided to them are presented below:*

<b>Questions</b>	<b>Answers</b>
<i>Can the bioslurry be dried for transport to farms that are a distance away?</i>	<i>The project proponent advised that the slurry is used in its watery form for maximum nutrients. It can however be added onto a compost heap which can then be transported to the farms easier.</i>
<i>Is dilution of the slurry necessary?</i>	<i>The project proponent informed that diluting of the slurry depends on the crops planted. A farmer can choose to use it as it is (trees, tea, etc) or dilute (greens and other vegetables).</i>
<i>Must a farmer use only cowdung?</i>	<i>The project proponent informed that for the initial feeding, cowdung is used to introduce the bacteria into the biodigester. Afterwards, farmers can use pig waste, chicken waste or even food waste in different ratios.</i>
<i>Can there be too much water in the digester?</i>	<i>The project proponent informed that yes, there can be too much water in the digester in certain scenarios. If the farmer feeds too much water against waste then there will be production of gas that will not light up. It is advised that the waste fed into the feeding tank has a porridge-like consistence.</i>

<i>In case of a leakage, how dangerous is the gas?</i>	<i>The project proponent informed that the biogas produced is of low pressure. Therefore, it cannot explode and has very low threat in case of leakage. Farmers were advised to however aerate the room in case of a leakage to allow for fresh air into the kitchen.</i>
<i>Can the biodigester be shared?</i>	<i>The project proponent informed that yes, the biodigesters can be shared depending on the distance of the secondary kitchen from the biodigester.</i>

- *Discussion of continuous input /grievance mechanism*

*The project proponent informed the users about the input and grievance mechanism. They were informed about the maintenance of a grievance expression book which would be maintained to have a continuous account of stakeholder's feedback. Whenever the users have grievances related to biogas plant and the project as a whole, the first point of contact shall be Ms. Joyce Njeri, who will further communicate the issue to the concerned authority. Stakeholders were provided below details to register their issues:*

*Ms. Joyce Njeri  
Customer care Team leader, Sistema.bio Kenya  
Phone: 0800 720 109 (toll free number)  
Email: [kenya@sistema.bio](mailto:kenya@sistema.bio)*

- *Closure of the meeting*

*The project proponent summarized the LSC meeting and reiterated the objectives of the project and its benefits. Feed-back forms were collected from stakeholders and finally, a thank you note was delivered to all the participants for their interactive participation and the closure of the meeting was announced.*

## ii. Key project information

The project activity involves installation of biogas plants for households and commercial purposes in Kenya of capacities ranging between 6m<sup>3</sup>-40m<sup>3</sup>. These biogas plants allow households, slaughterhouses and small-medium sized farms to transform their organic waste into renewable biogas to accommodate their energy demand and drive regional sustainable development. The purpose of the project is to reduce greenhouse gas emissions by displacing conventionally used non renewable biomass with renewable biogas. In addition, appropriate disposal of waste will

lead to improved hygiene conditions in the areas where the project activities are implemented. Further, residue from the biodigesters is used as an organic fertilizer and will further enhance the condition of soil.

## ***Its proposed timetable:***

The project will consider biogas plants installed from December 2018 onwards in rural areas of Kenya. As many as biogas plants commissioned from target start date (December 2018) shall be included in the project activity.

Social, economic and environmental benefits and impacts: The project positively benefit towards a) Good health and well being; b) Clean Energy and c) reducing CO<sub>2</sub> emissions in the environment.

In domestic sector, indoor air pollution is one of the biggest problems which is encountered. Health safety concerns from smoke and pollution due to the open fire traditional cookstoves are additional risks faced by poor households also contributing to a substantial percentage of injuries due to fire. Moreover, these traditional cookstoves are also the major source of environmental problems like air pollution, deforestation, and climate change and biodiversity loss. The nexus of firewood consumption with the indoor air pollution and greenhouse gas (GHG) emission is well established. Specifically, the firewood sourced from forest does not entirely come from the forest area that is renewable. Therefore, the firewood consumed is fossil in origin that results in irreversible emissions of GHGs. By use of biogas the firewood consumption will be reduced which in a way improve the indoor air pollution and therefore health of family members especially women and children who spend most of their time indoors. In comparison to traditional cookstove (fire wood or LPG based), biogas will provide clean energy solution which has almost no emissions and is much easy on the pockets of the people.

In addition, the project is expected to reduce on an average 204,831 tCO<sub>2</sub> emissions from atmosphere annually.

Therefore, the project has socio, economic and environmental benefits

## **iii. Invitation tracking table**

Category Code	Organisation (if relevant)	Name of invitee	Way of invitation	Date of invitation	Confirmation received? Y/N
E	Gold Standard	Annyta Luo	E-mail	24-12-2019	N
F	A World Institute for a Sustainable Humanity (A W.I.S.H)	Michael Karp	E-mail	23-12-2019	N
F	Action Carbone (Good Planet Foundation)	Nitin Pagare	E-mail	23-12-2019	N

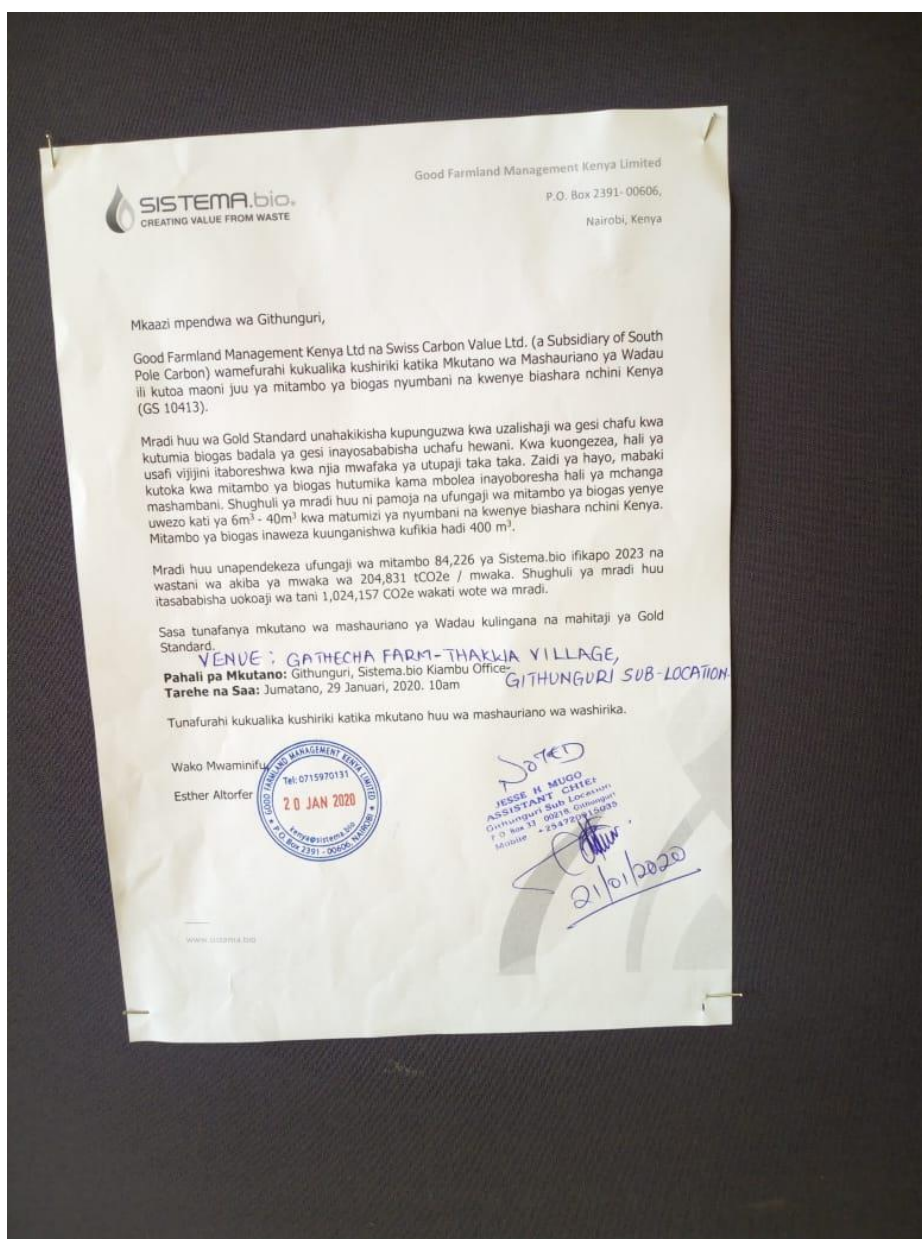
F	Ashanti Social Welfare Association (ASWA)	Habibul Alam	E-mail	23-12-2019	N
F	Atmosfair	Dr. Dietrich Brockhagen	E-mail	23-12-2019	N
F	Bangladesh Centre for Advanced Studies	Mozaharul Alam	E-mail	23-12-2019	N
F	BASE (Basel Agency for Sustainable Energy)	Daniel Magallon	E-mail	23-12-2019	N
F	Carbon Watch	Deepak Mawandia	E-mail	23-12-2019	N
F	CASA (Citizens's Alliance for Saving the Atmosphere and Earth)	Mitsutoshi Hayakawa	E-mail	23-12-2019	N
F	Development Alternatives	Ashok Khosla	E-mail	23-12-2019	N
F	Earth Advantage, Inc.	David Heslam	E-mail	23-12-2019	N
F	EnerGHG India	Narendra Paruchuri	E-mail	23-12-2019	N
F	Energy Forum	Wathsala Herath	E-mail	23-12-2019	N
F	Euronatura—Center for Environmental Law and Sustainable Development	Sara Dourado	E-mail	23-12-2019	N
F	European Business Council For Sustainable Energy e5	Julio Lambing	E-mail	23-12-2019	N
F	Fair Climate Network	Dr. Sudha Padmanabha	E-mail	23-12-2019	N
F	Forum for the Future	Iain Watt	E-mail	23-12-2019	N
F	Fundacion Ecodiversidad Colombia	Carlos Kurimoto	E-mail	23-12-2019	N
F	Fundacion Ecologia y Desarrollo	Cecilia Foronda	E-mail	23-12-2019	N
F	Fundación MDL de Honduras	Suyapa Zelaya	E-mail	23-12-2019	N
F	Germanwatch	Christoph Bals	E-mail	23-12-2019	N
F	Gevalor	Georges Morizot	E-mail	23-12-2019	N
F	Green Camel Bell (Gansu)	Ran Liping	E-mail	23-12-2019	N
F	Greenfleet	Wayne Wescott	E-mail	23-12-2019	N
F	Indonesia Forum for Environment (WALHI)	Pantoro Tri Kuswardono	E-mail	23-12-2019	N
F	Initiative Développement	Olivier Lefebvre	E-mail	23-12-2019	N
F	International Centre for Eradication of Poverty	Dr. Bhausheb Ubale	E-mail	23-12-2019	N
F	Kiko Network	Mie Asaoka	E-mail	23-12-2019	N
F	KLIMA	Angela Consuela Ibay	E-mail	23-12-2019	N
F	Mercy Corps	David Nicholson	E-mail	23-12-2019	N

F	Miombo	Otto Formo	E-mail	23-12-2019	N
F	Miriam-PEACE	Rosario Wood	E-mail	23-12-2019	N
F	Myclimate	Franziska Heidenreich	E-mail	23-12-2019	N
F	National Center for Appropriate Technology (NCAT)	Holly Hill	E-mail	23-12-2019	N
F	National Trust For Nature Conservation (NTNC)	Ngamindra Mr. Dahal	E-mail	23-12-2019	N
F	Non-Conventional Energy and Rural Development Society (NERD SOCIETY Coimbatore)	Sathiajothi Mrs. Kamaraj	E-mail	23-12-2019	N
F	Pembina Institute for Appropriate Development	Rich Wong	E-mail	23-12-2019	N
F	Philippine Network on Climate Change	Dr. Ramon Faustino M. Sales, Jr.	E-mail	23-12-2019	N
F	Philippine Solar Energy Society	Ruperto S. Dr. Sangalang	E-mail	23-12-2019	N
F	Planetair	Karine Oscarson	E-mail	23-12-2019	N
F	Plantons Utile	Eric Lemetais	E-mail	23-12-2019	N
F	Rainforest Alliance	Julianne Baroody	E-mail	23-12-2019	N
F	REEEP	Katrin Harvey	E-mail	23-12-2019	N
F	Renewable Energy Institute of Thailand, REIT	Wanun Ms. Permpibul	E-mail	23-12-2019	N
F	Rural Education for Development Society-REDS	Mr. M. C. Raj	E-mail	23-12-2019	N
	Rural Education for Development Society-REDS	Mrs. Jyothi Raj	E-mail	24-12-2019	N
F	Save the Earth Cambodia	Akhteruzzaman Sano	E-mail	23-12-2019	N
F	Shanshui Conservation Center, China	Fangyi YANG	E-mail	23-12-2019	N
F	Sibol ng Agham at Teknolohiya	Victoria M. Lopez	E-mail	23-12-2019	N
F	SKG Sangha	Vidya Sagar Devabhaktuni	E-mail	23-12-2019	N
F	SolarAid	Nick Sireau	E-mail	23-12-2019	N
F	Sustainable Travel International (STI)	Nick Piedmonte	E-mail	23-12-2019	N
F	The Climate Group (China)	Lili He	E-mail	23-12-2019	N
F	The Environmental Investigation Agency	Sascha Von-Bismarck	E-mail	23-12-2019	N
F	World Vision Australia	Dr. Dean C Thomson	E-mail	23-12-2019	N
F	WWF International	Bella Roscher	E-mail	23-12-2019	N



F	Yunnan Green Environment Development Foundation, China	Ms. Mei Wang	E-mail	23-12-2019	N
D	Chinansi Foundation	Simplex Chithyola	E-mail	23-12-2019	N
D	NOVA Institute	Christiaan Pauw	E-mail	23-12-2019	N
D	ONKE Training	Mmathabo Mrubara	E-mail	23-12-2019	N
D	SouthSouthNorth	Stefan Raubenheimer	E-mail	23-12-2019	N
D	Zero: Regional Environment Organisation	Johannes Chigwada	E-mail	23-12-2019	N
C	National Environment Management Authority	Ms. Anne Nyatichi Omambia	E-mail	24-12-2019	N
C	National Environment Management Authority	Prof. Geoffrey Wahungu	E-mail	24-12-2019	N
D	Kenya Biogas Program	Kevin Kinusu	E-mail	24/1/2020	N
A	Customer	Joseph Njuguna	Invitation Letter	19/1/2020	Y
A	Customer	Peter Njeri	Invitation Letter	19/1/2020	Y
A	Customer	Isaac Chege	Invitation Letter	19/1/2020	Y
A	Customer	Samuel Njoroge	Invitation Letter	19/1/2020	Y
A	Customer	Sarah Wangari	Invitation Letter	19/1/2020	Y
A	Customer	Eunice Muringe	Invitation Letter	19/1/2020	Y
A	Customer	Winfred Wanjiru	Invitation Letter	19/1/2020	Y
A	Customer	Magdalene Muthoni	Invitation Letter	19/1/2020	Y
A	Self Help Group	Mary Nyawira	Invitation Letter	19/1/2020	Y
A	Customer	Joseph Gitau	Invitation Letter	19/1/2020	Y
A	Customer	Joshua Muhuyu	Invitation Letter	19/1/2020	Y
A	Self Help Group	Lucy Wanjiku	Invitation Letter	19/1/2020	Y
A	Customer	Jane Wairimu	Invitation Letter	19/1/2020	Y
A	Local Government Administration	Michael Kinuthia	Invitation Letter	21/1/2020	N
A	Customer	John Muchomba	Invitation Letter	19/1/2020	N
A	Customer	Margaret Waithera	Invitation Letter	19/1/2020	N
A	Customer	Winnie Njoki	Invitation Letter	19/1/2020	N

Public invitation invitation in Githunguri, Kenya dated 21/01/2020



#### iv. Text of individual invitations

Ref: Invitation to Local Stakeholder Consultation Meeting of "Household and Commercial Biogas Plants in Kenya (GS 10413)"

Good Farmland Management Kenya Ltd and Swiss Carbon Value Ltd. (a Subsidiary of South Pole Carbon) are conducting a Local Stakeholder consultation meeting to provide feedback on the Household and Commercial Biogas Plants in Kenya (GS 10413). The proposed project will be developed as a Gold Standard project.

We would like to invite you to participate/witness this Gold Standard Local Stakeholder meeting. Please find attached the formal invitation letter from the project implementer to attend the meeting incorporated with relevant information of the project. The meeting will be held in Githunguri, Sistema Kiambu Office on Wednesday, 29th January, 2020 at 10:00am.

Your valuable participation is very important to us. We would really appreciate it if you could confirm your participation as a response to this email. In case you have any questions, please don't hesitate to ask.

In case you are not able to attend the Local Stakeholder Consultation meeting in person, we would still welcome your feedback over email based on the Project PDD document attached with this email.

Looking forward to your participation.

## **v. Text of public invitations**

Good Farmland Management Kenya Ltd and Swiss Carbon Value Ltd. (a Subsidiary of South Pole Carbon) are pleased to invite you to participate in the Stakeholder Consultation meeting to provide feedback on the Household and Commercial Biogas Plants in Kenya (GS 10413).

This Gold Standard project leads to a reduction of greenhouse gas emissions by displacing conventionally used non-renewable biomass with renewable biogas. In addition, the hygiene conditions in the rural areas will be improved by an appropriate disposal of waste. Further, residue from the biodigesters is used as organic fertilizer and will improve soil conditions in rural areas. The project activity involves installation of biogas plants for households and commercial purposes in Kenya of capacities ranging between 6m<sup>3</sup>-40m<sup>3</sup>. Biogas plants can be combined to reach up to 400 m<sup>3</sup>. The project proposes the installation of 84,226 Sistema.bio plants by 2023 with an average annual savings of 204,831 tCO<sub>2</sub>e/year. The project activity will result in the saving of 1,024,157 tCO<sub>2</sub>e throughout the project tenure.

We are now conducting a Stakeholder consultation meeting as per Gold Standard requirements.

**Venue:** Githunguri, Sistema Kiambu Office

**Date:** Wednesday, 29th January, 2020. 10am

We are hereby pleased to invite you to participate in the stakeholder consultation meeting.

## **B. 2. Description of other consultation methods used**

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In order to make sure that the relevant stakeholders are informed about the project, the proponent informed all stakeholders that feedback round will be conducted and all stakeholders will be again contacted to give feedback. The public consultation and feedback round began on 07.02.2020 and will continue till the next two months from this date.

## SECTION C. CONSULTATION PROCESS

### C. 1. Participants' in physical meeting(s)

#### i. List of participants

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Project Title: Household and Commercial Biogas Plants in Kenya

Participants list

Date and time: 29<sup>th</sup> January, 2020. 10:00 am EAT

Location: Sistema.bio Office. Githunguri, Kiambu Kenya.

Category code	Name of participant	Home area	Position in community	Male/ Female	Organization (if relevant)	Contact	Sign
A	JOSEPH M. NTUGUWA	ITI Githunguri	Customer	M	N/A	0723351379	[Signature]
A	Peter Kirito Njeri	Githunguri	Customer	M	"	0911197595	[Signature]
A	Isaac Chagolmbuga	Kigumo	Customer	M	N/A	0728832520	[Signature]
A	Samuel Njoroge Kigi	Githunguri	"	M	N/A	071041421	[Signature]
A	Sarah Wangari Wabari	Kiratina	Customer	F	N/A	074076560	[Signature]
A	Janice Muriage	Kiratina	Customer	F	N/A	0706475262	[Signature]
A	Ninfrend Wanjiru	Githunguri	Customer	F	N/A	0798615834	[Signature]
A	Magdalene Muthoni	Githunguri	Customer	F	N/A	0791315585	[Signature]
A	Mary Nyawira	GITHUNGU	Group Rep.	F	N/A SHG	0728179635	[Signature]
A	JOSEPH K. CILIN	JAMBUJA	Customer	M	N/A	0700931661	[Signature]
A	JOSEPH M. NJATHA	THAKWA	Customer	M	N/A	0721780303	[Signature]
A	LUCY WANDIRU W.	LALI	Customer	F	N/A SHG	0723002408	[Signature]
A	Janewairimu W	GAKOLE	Customer	F	N/A	0799072755	[Signature]

#### ii. Evaluation forms

>> Attached original evaluation forms as Annex 1.

### C. 2. Pictures from physical meeting(s)







### C. 3. Outcome of consultation process

#### i. Minutes of physical meeting(s)

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Physical meeting of the local stakeholders' consultation was organized on 29/01/2020 in Kenya. After the introductory session, the participants were briefed about the Sistema.bio digesters and its development as a carbon project under the Gold Standard registry. Various project benefits were also discussed in relation to its impact on environment, society and economy.

After project participants presentation, the floor was opened for the stakeholders to ask any questions or clarifications regarding the project. All the questions were answered by the project proponent and the stakeholders seemed to be satisfied by the responses.

The stakeholders were then introduced to the Input & Grievance mechanism through which they could reach out to the project proponent regarding any query or clarification related to the project. They were informed that it was being done to maintain a continuous feedback of their comments and suggestions. Finally, the feedback forms were distributed to stakeholders for their written feedback of the meeting.

## ii. Minutes of other consultations

Apart from physical meeting which took place on 29/01/2020, no comments or suggestions were received through any telephonic or electronic means in response to the project's call for stakeholders' consultation meeting.

## iii. Assessment of all comments

Stakeholder comment	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
<i>Can the bioslurry be dried for transport to farms that are a distance away?</i>	No	<i>The project proponent advised that the slurry is used in its watery form for maximum nutrients. It can however be added onto a compost heap which can then be transported to the farms easier.</i>
<i>Is dilution of the slurry necessary?</i>	No	<i>The project proponent informed that diluting of the slurry depends on the crops planted. A farmer can choose to use it as it is (trees, tea, etc) or dilute (greens and other vegetables).</i>
<i>Must a farmer use only cowdung?</i>	No	<i>The project proponent informed that for the initial feeding, cowdung is used to introduce the bacteria into the biodigester. Afterwards, farmers can use pig waste, chicken waste or even food waste in different ratios.</i>
<i>Can there be too much water in the digester?</i>	No	<i>The project proponent informed that yes, there can be too much water in the digester in certain scenarios. If the farmer feeds too much water against waste then there will be production of gas that will not light up. It is advised</i>

		<i>that the waste fed into the feeding tank has a porridge-like consistence.</i>
<i>In case of a leakage, how dangerous is the gas?</i>	No	<i>The project proponent informed that the biogas produced is of low pressure. Therefore, it cannot explode and has very low threat in case of leakage. Farmers were advised to however aerate the room in case of a leakage to allow for fresh air into the kitchen.</i>
<i>Can the biodigester be shared?</i>	No	<i>The project proponent informed that yes, the biodigesters can be shared depending on the distance of the secondary kitchen from the biodigester.</i>

## iv. Revisit sustainability assessment

Are you going to revisit the SDG and safeguards assessment?	Yes	No
Please note that this is necessary when there are differences between your own assessment and feedback collected during stakeholder consultation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

*Give reasoning behind the decision.*

*The sustainability assessment conducted by the project proponent and the one that was suggested by the LSC meeting was not substantially different. Moreover, the SD exercise performed by the proponent is more elaborative than the one suggested by the stakeholders. Therefore revisiting the SD exercise shall not be conducted .*

## v. Summary of alterations based on comments

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*The comments made by the stakeholders regarding project was already considered by the project design team and therefore no modifications in the project was required.*

## SECTION D. SUSTAINABLE DEVELOPMENT ASSESSMENT

### D. 1. Own sustainable development assessment

#### i. Safeguard assessment

Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
<b>SOCIAL &amp; ECONOMIC SAFEGUARDING PRINCIPLES</b>			
<b>Principle 1 - Human Rights</b>			
a) Recognises the centrality of human rights to sustainable development, poverty alleviation and ensuring fair distribution of development opportunities and benefits; and supports “universal respect for, and observance of, human rights and fundamental freedoms for all”.	The project replaces conventional firewood usage with biogas for domestic cooking and heating purpose. Therefore, it provides development opportunity to all section of people proving cleaner fuel, better livelihood and empowering specially rural women. Hence, the project positively recognizes human rights to sustainable development.	No	Not Applicable
(b) Does not recognise or support Projects that contribute to violations of a state’s human rights obligations and the core international human rights treaties, and seeks to support the protection and fulfilment of human rights.	The project is in accordance with constitution of Kenya and is bound to follow the rules and ruglation of host country. Hence, the project does violate human rights obligations adopted by the host country.	No	Not Applicable
(c) Upholds the principles of accountability and the rule of law, participation and inclusion, and equality and non-discrimination, noting that prohibited grounds of discrimination include race, ethnicity, gender, age, language, disability, sexual orientation, religion, political or other opinion,	Article 21 outlines the “Implementation of rights and fundamental freedoms.”, Article 27 of the constitution hilighgths the “Equality and freedom from discrimination.”Therefore, the project being in Kenya upholds the principles of accountability and the rule of law, participation and	No	Not Applicable



<b>Safeguarding principle</b>	<b>Description of relevance to the project</b>	<b>Assessment (Yes/Potentially/No)</b>	<b>Mitigation Measures</b>
national or social or geographical origin, property, birth or other status including as an indigenous person or as a member of a minority.	inclusion, and equality and non-discrimination.		
The Project Developer and the Project shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights	The constitution of Kenya upholds the protection of Human rights thus, the project is bound to follow the rules and regulation of host country. In addition, Kenya has ratified 'International Convention on the Elimination of All Forms of Racial Discrimination :1969' 'International Covenant on Civil and Political Rights :1976', 'International Covenant on Economic, Social and Cultural Rights :1976', 'Convention on the Elimination of All Forms of Discrimination' against Women (1979). Kenya has also signed Protocol on the Rights of Women in Africa (2005). Therefore, the project developer and the project do respect nationally and internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind.	No	Not Applicable
The Project shall not discriminate with regards to participation and inclusion.	Kenya has ratified 'International Convention on the Elimination of All Forms of Racial Discrimination :1969', Convention on the Elimination of All Forms of Discrimination against Women (1979) in addition to Article 27 of its constitution. Therefore, the project will not discriminate	No	Not Applicable

Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
	with regards to participation and inclusion.		
<b>Principle 2 - Gender Equality and Women's Rights</b>			
(i) Promotes gender equality and the empowerment of women.	Apart from being a member of the above mentioned conventions, Kenya has 'National Policy on Gender and Development' which aims to guarantee Kenyan men and women equality before the law, and to enable men and women to have equal access to economic and employment opportunities. The project positively contributes towards the vision of this policy which promotes gender equality and women empowerment.	No	Not Applicable
(ii) Does not recognise Projects that contribute to discrimination against women or reinforce gender-based discrimination and/or inequalities.	As explained above the project does not contribute to discrimination against women or reinforce gender-based discrimination and/or inequalities.	No	Not Applicable
(iii) Recognises and seeks to contribute to SDG 5, (Achieve gender equality and empower all women and girls).	Project compliance to SDG 5 is explained in section A.8 above.	No	Not Applicable
<b>Mandatory requirements:</b>			
<b>1. The Project shall complete the following gender assessment questions</b>			
Is there a possibility that the Project might reduce or put at risk women's access to or control of	No. The project uses cattle dung and waste as resource to generate biogas. Therefore, it does not put any risk to women's access or	No	Not Applicable

Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
resources, entitlements and benefits?	control of resources, entitlements and benefits.		
Is there a possibility that the Project can adversely affect men and women in marginalised or vulnerable communities (e.g., potential increased burden on women or social isolation of men)?	No, the project will be implemented in households where users depend firewood and conventional cooking stoves. The project replaces the conventional cooking practice with clean biogas based system. Hence, the project does not affect any marginalized or vulnerable communities.	No	Not Applicable
Is there a possibility that the Project might not take into account gender roles and the abilities of women or men to participate in the decisions/designs of the project's activities (such as lack of time, child care duties, low literacy or educational levels, or societal discrimination)?	No, the project actually takes care the upliftment of women and men who otherwise spent more time in sourcing firewood which in the project case not needed, This provides more time to the users. Also biogas being clean fuel, leads to low smoke generation resulting health benefits to end users.	No	Not Applicable
Does the Project take into account gender roles and the abilities of women or men to benefit from the Project's activities (e.g., Does the project criteria ensure that it includes minority groups or landless peoples)?	Yes, the project takes care the role of women in cooking. In presence of the project activity, women who generally who in most cases are responsible for cooking, spend less time in sourcing firewood. This time can be utilize for other productive work. Also due to clean nature of the fuel, smoke related health issues are reduced due to the project activity.	No	Not Applicable
Does the Project design contribute to an increase in women's workload that adds to their care responsibilities or that prevents them from	No, the project takes care of the role of women in cooking. Due to the project women (generally the caretaker of cooking) spend less time in sourcing firewood and can utilize the saved time in other	No	Not Applicable

Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
engaging in other activities?	productive works. Also due to clean nature of the fuel, smoke related health issues are reduced due to the project activity.		
Would the Project potentially reproduce or further deepen discrimination against women based on gender, for instance, regarding their full participation in design and implementation or access to opportunities and benefits?	No, the project does not have any scope which may result to discrimination against women. The project contributes positively to uplift women in its work culture.	No	Not Applicable
Would the Project potentially limit women's ability to use, develop and protect natural resources, taking into account different roles and priorities of women and men in accessing and managing environmental goods and services?	No, the project helps in protecting NRB. Thus, it does not limit women's ability to use or protecting natural resources.	No	Not Applicable
Is there a likelihood that the proposed Project would expose women and girls to further risks or hazards?	No, the project replaces conventional cooking system with clean biogas. Biogas is safe to use and handle. Compared to firewood based cooking system the likelihood of fire hazard is negligible in the project scenario. It also provide smokeless cooking system. Hence, project does not lead to more hazardous conditions.	No	Not Applicable
<b>2. The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women. Specifically, this shall include (not exhaustive):</b>			
Sexual harassment and/or any forms of violence against women - address the multiple	The project happens in individual households. It does not involve any women		Not Applicable

<b>Safeguarding principle</b>	<b>Description of relevance to the project</b>	<b>Assessment (Yes/Potentially/No)</b>	<b>Mitigation Measures</b>
risks of gender-based violence, including sexual exploitation or human trafficking	workforce which may lead to sexual harassment.		
Slavery, imprisonment, physical and mental drudgery, punishment or coercion of women and girls.	No, The project happens in individual households. It does not involve any women workforce which may lead to sexual harassment.	No	Not Applicable
Restriction of women's rights or access to resources (natural or economic).	No, The project actually takes care the upliftment of women and men who otherwise spent more time in sourcing firewood which in the project case not needed, This provides more time to the users. Also biogas being clean fuel, leads to low smoke generation resulting health benefits to end users.	No	Not Applicable
Recognise women's ownership rights regardless of marital status - adopt project measures where possible to support to women's access to inherit and own land, homes, and other assets or natural resources	Yes, The project does not have any scope which needs to recognise the women's ownership rights. The project replaces conventional firewood based cooking system with clean biogas. This helps women to have access to cleaner cooking technologies.	No	Not Applicable
<b>3. Projects shall apply the principles of nondiscrimination, equal treatment, and equal pay for equal work, specifically</b>			
Where appropriate for the implementation of a Project, paid, volunteer work or community contributions will be organised to provide the conditions for equitable participation of men and women in the identified tasks/activities	Yes, the project involves construction of biogas digesters at households. Trained labours are used for the same. Local people are engaged for the same. No discrimination either in gender or any other form is followed to engage local people.	No	Not Applicable

<b>Safeguarding principle</b>	<b>Description of relevance to the project</b>	<b>Assessment (Yes/Potentially/No)</b>	<b>Mitigation Measures</b>
Introduce conditions that ensure the participation of women or men in Project activities and benefits based on pregnancy, maternity/paternity leave, or marital status	This is not applicable. The project does not have any scope of men and women participation where project developer has to ensure condition of benefits related to pregnancy, maternity/paternity leave, or marital status .	No	Not Applicable
Ensure that these conditions do not limit the access of women or men, as the case may be, to Project participation and benefits	Not applicable. Project happens at individual households where household people operate the biogas system as per their requirements.	No	Not Applicable
4. The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks	The project does not has any scope to apply gender strategy as such. Although the project positively contributes towards the National Policy on Gender and Development .	No	Not Applicable
<b>Principle 3 - Community Health, Safety and Working Conditions</b>			
(a) Requires Projects to anticipate and avoid adverse impacts on the health and safety of affected communities during the Project's life cycle from both routine and non-routine circumstances	The project leads to safe working condition and improvement in health as it will replace firewood as fuel with biogas which is clean and safe.	No	Not Applicable
b) Requires Projects to provide workers with safe and healthy working conditions and to prevent accidents, injuries, and disease.	The project leads to safe working condition and improvement in health as it will replace firwood as fuel with biogas which is clean and safe. Further, periodic maintenance by implementing agency ensure prevention of any unsafe working condition.	No	Not Applicable

Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
<b>Principle 4 - Cultural Heritage, Indigenous Peoples, Displacement and Resettlement</b>			
Does the Project Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, or practices)?	The project area covers households which does not have any structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture. Hence, not applicable.	No	Not Applicable
Does the Project require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?	The project area covers households which does not require relocation of peoples; hence not applicable.	No	Not Applicable
Does the Project require any change to land tenure arrangements and/or other rights?	No, the project does not require any change to land tenure arrangements and/or other rights?	No	Not Applicable
For Projects involving land-use tenure, are there any uncertainties with regards land tenure, access rights, usage rights or land ownership?	No, the project does not involve any land use which will have issues related to land tenure or access right.	No	Not Applicable
Are indigenous peoples present in or within the area of influence of the Project and/or is the Project located on land/territory claimed by indigenous peoples?	No, the project involves household biogas digesters. Therefore, it does not involve any influence towards indigenous people.	No	Not Applicable
<b>Principle 5 – Corruption</b>			
The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	The project benefits households with clean fuel (biogas). There is no corruption provision in the project activity.	No	Not Applicable

Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
<b>Principle 6 - Economic Impacts</b>			
<b>Labour Rights:</b> The Project Developer shall ensure that there is no forced labour and that all employment is in compliance with national labour and occupational health and safety laws, with obligations under international law, and consistency with the principles and standards embodied in the International Labour Organization (ILO) fundamental conventions. Where these are contradictory and a breach of one or other cannot be avoided, then guidance shall be sought from Gold Standard	The project does not require labour force for implementation of the project. Trained technicians are involved in construction and operation and maintenance of plants. Therefore, no forced labour is involved in the project. No child labour is involved.	No	Not Applicable
<b>ENVIRONMENTAL &amp; ECOLOGICAL SAFEGUARDING PRINCIPLES</b>			
<b>Principle 1 - Climate and Energy</b>			
<b>Emissions:</b> Will the Project increase greenhouse gas emissions over the Baseline Scenario?	No, the project will replace firewood use with biogas. Hence, it will reduce greenhouse gas emissions over the Baseline Scenario.	No	Not Applicable
<b>Energy Supply:</b> Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?	No, the project uses inhouse cattle dung and waste only.	No	Not Applicable




Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
<b>Principle 2 – Water</b>			
Will the Project affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity	No, Water in huge quantity is not required for the project which can impact the ground water level or any seasonal flow.	No	Not Applicable
Erosion and/or Water Body Instability: Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion? If 'Yes' or 'Potentially' proceed to question 2.	No, Water in huge quantity is not required for the project which can impact the ground water level or any seasonal flow.	No	Not Applicable
<b>Principle 3 – Environment, ecology and land use</b>			
<b>Landscape Modification and Soil</b>			
Does the Project involve the use of land and soil for production of crops or other products?	No, the project does not involve any crop production.	No	Not Applicable
<b>Vulnerability to Natural Disaster</b>			
Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	No, the project activity takes place at individual households. There is no activity which can affect adversely the natural system to cause earthquake, landslides, erosion, flooding, draught or other extreme climatic conditions.	No	Not Applicable



Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
<b>Genetic Resources</b>			
Could the Project be negatively impacted by the use of genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development)?	Not applicable. The project does not involve any crop production or cultivation.	No	Not Applicable
<b>Release of pollutants</b>			
Could the Project potentially result in the release of pollutants to the environment?	No, the project does not release any pollutants to the environment.	No	Not Applicable
<b>Hazardous and Non-hazardous Waste</b>			
Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	Not applicable. The project does not involve any production process.	No	Not Applicable
<b>Pesticides &amp; Fertilisers</b>			
Will the Project involve the application of pesticides and/or fertilisers?	Not applicable. The project does not involve any crop production or cultivation.	No	Not Applicable
<b>Harvesting of Forests</b>			
Will the Project involve the harvesting of forests?	Not applicable. The project happens at individual households.	No	Not Applicable
Food: Does the Project modify the quantity or nutritional quality of food available such as through crop regime	Not applicable	No	Not Applicable

Safeguarding principle	Description of relevance to the project	Assessment (Yes/Potentially/No)	Mitigation Measures
alteration or export or economic incentives?			
Animal husbandry: Will the Project involve animal husbandry?	No	No	Not Applicable
<b>High Conservation Value Areas and Critical Habitats</b>			
Does the Project physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	Not Applicable	No	Not Applicable
Endangered Species: Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)?	Not Applicable	No	Not Applicable

## ii. Sustainable Development Goals (SDG) outcome

>> (Specify the relevant SDG target for each of three SDGs addressed by the project. Refer most recent version of targets [here](#).)

SDGs	Targets
 <p><b>3</b> GOOD HEALTH AND WELL-BEING</p>	<p>The project will contribute to the SDG goal “ By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination ”. The project replaces firewood consumption with biogas. Therefore, the indoor air quality at user point will improve and will contribute to the SDG goal.</p>

	<p>The project will contribute towards below SGD goals:</p> <ul style="list-style-type: none"> <li>• By 2030, ensure universal access to affordable, reliable and modern energy services</li> <li>• By 2030, increase substantially the share of renewable energy in the global energy mix</li> </ul>
	<p>The project will contribute towards below SGD goals:</p> <ul style="list-style-type: none"> <li>▪ Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning</li> <li>▪ Integrate climate change measures into national policies, strategies and planning</li> </ul>

## D. 2. Stakeholders' Blind sustainable development assessment

### i. Safeguard assessment

There was no substantial difference between sustainable development assessment done by the proponent and that arising from the blind SD exercise. Therefore no further consideration on revisiting the SD indicators was observed.

### ii. Sustainable Development Goals (SDG) outcome

>>

There was no substantial difference between sustainable development assessment done by the proponent and that arising from the blind SD exercise. Therefore no further consideration on revisiting the SD indicators was observed.

## SECTION E. SUSTAINABILITY MONITORING PLAN

### E. 1. Discussion on Sustainability monitoring Plan

>>

Stakeholders agreed for the proposed sustainable development monitoring plan and indicators suggested by project proponent were accepted. No further idea provided by stakeholders.

### E. 2. Discussion on continuous input / grievance mechanism

>>

*Discuss the Continuous input / grievance mechanism expression method and details, as discussed with local stakeholders.*

Particulars	Method Chosen	Justification
Continuous Input / Grievance Expression Process Book	The input grievance book is kept by Joyce Njeri	The input and grievance expression could be reflected via telephone, email or writing on grievance book. All the contact information would be announced to stakeholders.
Telephone Access	Contact Person: Joyce Njeri Phone No: 0800 720109	Designation: Customer Care Team Leader
Internet/Email Access	Contact Person: Joyce Njeri Email: kenya@sistema.com	Designation: Customer Care Team Leader

All issues identified during the crediting period through any of the Methods shall have a mitigation measure in place. The identified issue should be discussed in the monitoring report and the corresponding mitigation measure should be added to sustainability monitoring plan.

## SECTION F. DESCRIPTION OF THE DESIGN OF THE STAKEHOLDER FEEDBACK ROUND

>>

Stakeholders were informed about feedback round and invited to provide any comment regarding the project activity. No comment received in stakeholder feedback round.

## ANNEX 1. ORIGINAL EVALUATION FORMS



Good Farmland Management Kenya Limited  
P.O. Box 2391- 00606,  
Nairobi, Kenya

### Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Sarah Wungari Wamburi
What is your impression of the meeting?	we have shared talks with the leader and we customers
What do you like about the project?	It save time, money, and have good healthy
What don't you like about the project?	everythi is good
Any other comments on the project?	The projet is good to me always. and have more time with us. with
Participant's Signature	Samburi



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Nairobi, Kenya

## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	JOSHUA MUTUYU NJATHA
What is your impression of the meeting?	The meeting is good and educative.
What do you like about the project?	The project is good and economical
What don't you like about the project?	Everything about the project is good
Any other comments on the project?	we are satisfied with service given by Project
Participant's Signature	



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P.O. Box 2391- 00506,  
Nairobi, Kenya

## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Jane Wairimu Ndere
What is your impression of the meeting?	Good
What do you like about the project?	fire
What don't you like about the project?	tuxewe ya stima bio
Any other comments on the project?	Nothing
Participant's Signature	

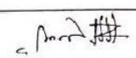
### Translation Notes:

-Cooking Gas

-Provide us with biogas  
lighting



## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	SAMUEL NJOROGE KARANGA
What is your impression of the meeting?	It was well explained and an eye opener toward the global air pollution
What do you like about the project?	The project is good and Economical and it has no comparison.
What don't you like about the project?	NONE
Any other comments on the project?	Be visiting us regularly and also giving us Seminar as today.
Participant's Signature	




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Nairobi, Kenya


## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Isaac Chege Mbugua.
What is your impression of the meeting?	Good and clear discussion and very farre welcome
What do you like about the project?	The project is good and economical
What don't you like about the project?	nothing!
Any other comments on the project?	Visit us most of time for monitoring the system.
Participant's Signature	

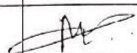
## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Joseph K. Githau
What is your impression of the meeting?	The meeting was so good I liked it.
What do you like about the project?	The project is a good work
What don't you like about the project?	11
Any other comments on the project?	go on and help our pupils
Participant's Signature	

## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Joseph M. Munguna
What is your impression of the meeting?	It is good and educative.
What do you like about the project?	The project is economical, improves the health of the user and protects the environment.
What don't you like about the project?	The project is ok, nothing bad about it.
Any other comments on the project?	Improve on other economical factors e.g. lightings, Generators.
Participant's Signature	

## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Mary Nyawira Muchai
What is your impression of the meeting?	tumesoma mambo mingi
What do you like about the project?	Imesaidia watu kipa kaka hataka Raiko na usafi kwa nyumba
What don't you like about the project?	haku na
Any other comments on the project?	masomo ikuwe mingi dio watu wengi wajue
Participant's Signature	

### Translation notes

-We have learnt a lot

-It has helped people to cook faster and keeps the house clean

- Nothing

-Organize more educative forums so that a lot of people cab get this knowledge




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## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Peter Wanjiku Njiru
What is your impression of the meeting?	The meeting was very informative since I interacted with other L.D. systems users, trainers and members of SEDs where improvements, challenges and experiences were shared.
What do you like about the project?	<ul style="list-style-type: none"> <li>1) Cost savings</li> <li>2) Flexible and affordable payment mode.</li> <li>3) Time saving</li> <li>4) Environmentally friendly.</li> </ul>
What don't you like about the project?	Nothing at the moment.
Any other comments on the project?	
Participant's Signature	



Participant's Name	Eunice Muringe
What is your impression of the meeting?	Nimeelewa <del>banamba</del> mingi kukika vile nilikuwa nimeelewa
What do you like about the project?	Nimuhimu kwag Sababu huokag wakati napig <del>to</del> situmii pesa kuna kuni.
What don't you like about the project?	Kila kila nikizuri kuhusu bia gas.
Any other comments on the project?	Mumefanya vizuri sana.
Participant's Signature	

#### Translation Notes

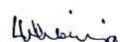
-I have understood even more things than I had known before

-It's important because it saves time and I don't spend money on firewood

-Everything about biogas is good

-You have done very well

## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	LECY WANJIKU WAINANIA
What is your impression of the meeting?	The meeting was educative about the Bio-SISTEMA.Bio, about the economy in our community
What do you like about the project?	The project assist in time and money savings
What don't you like about the project?	I would like you to come nearer or close to the community to teach more people about it
Any other comments on the project?	The project is good. Try to add more use <del>to</del> not only cooking
Participant's Signature	



## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Kinfrend Wanjiru Kibira
What is your impression of the meeting?	<del>Mucutano</del> Mucutano yaleo Imenisa dia Sam Kwamambo Mingi :
What do you like about the project?	1) bio ina nisa dia kupika haraka 2) Kuweka nyumba yangu safi 3) Sikohoi
What don't you like about the project?	Napenda kila huduma yake
Any other comments on the project?	hakuna
Participant's Signature	WJK'

### Translation Notes

-Today's meeting has helped me so much in many ways.

-The biogas helps me cook faster to keep my clean and I don't cough.

-I like evert service

-None



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Nairobi, Kenya

## Gold Standard Stakeholder Meeting - Feedback Form

Participant's Name	Magdalene Muthoni Ngugi
What is your impression of the meeting?	We have been enlightened on the benefits of the sistema Bio.
What do you like about the project?	I like the using gas without smoke, clean kitchen health lungs because you don't cough and sneeze.
What don't you like about the project?	Nothing
Any other comments on the project?	Help the customers to have - Installation - chaff cutters
Participant's Signature	

[www.sistema.bio](http://www.sistema.bio)