

# PROJECT GAIA COOK STOVE PROGRAMME OF ACTIVITIES - CPA0002

## DJIBOUTI LSC REPORT

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## SECTION A.

## PROJECT DESCRIPTION

### A. 1. Title of the project activity

Title: Project Gaia Cook Stove Programme of Activities - CPA0002 Djibouti (GS ID 4602)

Date: 15/12/2015

Version no.: 0.2

### A. 2. Project eligibility under the Gold Standard

#### ***Scale of the project activity:***

The Project Gaia Cook Stoves Programme of Activities CPA-0002 Djibouti forms part of the Project Gaia Cook Stoves Programme of Activities. The CPA will distribute energy efficient cook stoves powered by ethanol, a renewable energy source. Individual cook stove units distributed under the CPA will have a rated capacity of either 1.5kWth or 3.0 kWth depending on the specific model of the cook stove unit.

In accordance with the applicable CDM methodologies, *AMS-I.E: Switch from non-renewable biomass for thermal applications by the user* and *AMS-I.I: Biogas/biomass thermal applications for households/small users*, small-scale project activities should not exceed a capacity of 45MWth throughout the crediting period and individual units should not exceed a rated capacity of 150 KWth. It has already been demonstrated that individual units distributed under the CPA will be below a rated capacity of 150 KWth. Furthermore, the CPA will ensure that the cumulative capacity of all cook stove units distributed will not exceed 45MWth. The CPA is therefore considered as a small-scale project activity since it will remain within the small-scale thresholds.

#### ***Host country or state:***

The CPA will be implemented within the national borders of Djibouti, a Least Developed Country and a Non-Annex I country that has no GHG cap and is eligible under the Gold Standard<sup>1</sup>. This CPA will not be extended outside the boundary of Djibouti's borders.

#### ***Type of project activity:***

According to the Gold Standard Toolkit version 2.2, the CPA falls under the renewable energy supply category defined as the generation and delivery of energy services (e.g. mechanical work, electricity, heat) from non-fossil and non-depletable energy sources. This classification is selected because the CPA involves the distribution of energy efficient cook stoves powered by ethanol, a renewable energy source, to users for cooking.

Further eligibility criteria for biomass resources are discussed below:

Eligibility	Justification
Activities making use of non-renewable	The CPA uses ethanol, a renewable energy

<sup>1</sup> [http://unfccc.int/parties\\_and\\_observers/parties/non\\_annex\\_i/items/2833.php](http://unfccc.int/parties_and_observers/parties/non_annex_i/items/2833.php)

<p>biomass resources shall not be eligible for Gold Standard registration. Project participants shall therefore provide convincing evidence that the project activities making use of renewable biomass resources. The criteria shall be monitored along crediting period and therefore be included in the sustainable monitoring plan.</p>	<p>source, derived from sugar molasses, a bi-product of sugar processing.</p> <p>The ethanol used for the cook stoves is considered renewable based on condition 5 of EB 23 Annex 18 that states “Biomass is considered renewable if the biomass is from the non-fossil fraction of an industrial or municipal waste.”</p> <p>Ethanol used in the CPA shall be primarily sourced from Ethiopia’s large government owned sugar factories that produce about 115,000 tones/year molasses as a by product. Previously a large amount of the molasses ended up being dumped in rivers or on land resulting in pollution. The government of Ethiopia has been working to put up ethanol plants in all sugar mills in Ethiopia. It is expected that this would produce 130 million liters/year of ethanol.<sup>2</sup></p> <p>Following GS Annex C requirements this criteria shall be monitored during the CPA’s crediting period and has been included in the sustainability monitoring plan.</p>
<p>Activities expected to make use of biomass resources already in use shall not be eligible for Gold Standard registration unless convincing evidence is provided showing that the current users are in agreement with the envisioned shift of use (potential leakage associated to such a shift must be taken into account). In the absence of such an agreement, Project Participants shall demonstrate that their project makes use of surplus biomass for each type of biomass resources used. They must do so one ex-ante on time for validation for small-scale activities, and in time for validation and for each one of the verifications (inclusions in the Sustainability Monitoring plan) for large-</p>	<p>The CPA will not make use of biomass resources already in use. Sugar factories in Ethiopia are the main source of molasses, which is the main raw material for ethanol production. These sugar factories have been producing a large amount of molasses that has been dumped in rivers or on land resulting in pollution. These molasses are going to be put to better use through the production of ethanol. It can therefore be concluded that in the absence of the project, biomass used in the project activity was not used for other purposes.</p> <p>The CME also ensures that this requirement will be taken into consideration by all future CPAs included</p>

<sup>2</sup> The Ashden Awards for Sustainable Energy

scale activities.	in the POA by including this to the applicability criteria provided in section D.2 of the CPA-DDs in section.
Project Participants shall demonstrate that their activity will only make use of degraded land and shall include this criterion in the Sustainability Monitoring Plan. Two exceptions may be considered: convincing evidence is provided showing that the envisioned energy crop is part of a traditional rotational cropping, or an increase of the productivity is obtained, locally and to the benefit of the current users, through measures implemented in the context of the activity so as to at a minimum compensate for the part of the land newly allocated to growing the energy crop. Compliance with these criteria above must be monitored over the crediting period and thus be part of the Sustainability Monitoring Plan.	The CPA will involve the use of ethanol derived from molasses produced from sugarcane factory waste. The project activity is not and shall not be engaged in cultivation of biomass but shall instead purchase already manufactured ethanol from sugar factories in Ethiopia.  Monitoring to ascertain compliance with these criteria is therefore not required.
Activities making use of GMOs shall declare so in a transparent way. Local stakeholders opinion on GMOs shall prevail and appropriate mitigation measures shall be put in place to address their concerns if any in a satisfactory way.	The CPA is not involved in the cultivation of biomass and does not make use of any GMOs.
<b>Target area</b>  The target area of the project will be the whole of Djibouti.	<b>Transfer of credit ownership:</b>  Credits accrued from the use of the project stoves will be owned by Project Gaia Inc. The transfer of ownership of the credits will be done in a transparent and voluntary manner, which will be communicated through the end user agreement. This end user agreement will have a paragraph that explains the ownership of the carbon credits.
<b>Greenhouse gases:</b>  The project activity involves reduction of Carbon Dioxide gas (CO <sub>2</sub> ), which is one of the eligible gases under the Gold Standard as shown below:	

Greenhouse gases		Greenhouse gas eligible under Gold standard	Greenhouse gas to be reduced by the project
CO2	Carbon dioxide	Yes	Yes
CH4	Methane	Yes	No
N2O	Nitrous oxide	Yes	No
PFCs	Perfluorocarbons	No	No
HFCs	Hydrofluorocarbons	No	No
SF6	Sulphur hexafluoride	No	No

***Official Development Assistance:***

According to the GS rules, a project is not eligible under the Gold Standard registration if it has received or benefited from ODA under the condition that credits coming out of the project are transferred, directly or indirectly, to the donor country providing ODA assistance. The CPA has not received any ODA. This will be evidenced through submission of a signed ODA declaration form.

***Project Timeframe:***

The project time frame is indicated in section A.3 below. Upon implementation, the CPA will achieve average annual emission reductions of 20,809 t CO2e. The CPA will use a renewable crediting period of 7 years' renewable twice for a total of 21 years.

***Other Certifications:***

The CPA does not receive certificates under any other scheme.

**A. 3. Current project status**

This is the second CPA under the Project Gaia Cook Stove Programme of Activities. Prior consideration was sent to the UNFCCC secretariat and the host country's DNA on 15 February 2015 to officially notify the DNA of the intention to develop the PG POA and a CPA in Djibouti as a carbon project. A Local Stakeholder Consultation meeting was planned and held in Djibouti City on 31<sup>st</sup> August 2015. Currently, the CPA is at the implementation-planning phase. It is expected that the first units will be commissioned in the last quarter of the year 2015.

The table below summarizes the milestones that have been achieved and those expected to be achieved by the CPA:

#	Milestone	Date
2	Prior Consideration notification	15 February 2015
3	LSC meeting in Djibouti	31 August 2015
4	Expected timeline for signing of an agreement to roll out pilot stoves	January 2016

## SECTION B. DESIGN OF STAKEHOLDER CONSULTATION PROCESS

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

#### i. Agenda

A meeting was carried out in Djibouti City at *Les Acacias Hotel* for this CPA. Stakeholders from the different categories as described in the GS Toolkit v2.2 were invited to the meeting to discuss the project's implementation in Djibouti.

The agenda of the meeting is presented below.

#### PROJECT GAIA COOKSTOVES PROGRAMME OF ACTIVITIES STAKEHOLDER CONSULTATION MEETING

***Projet Gaia < fourneaux alimentés >Programme d'Activités (PdA) Djibouti Réunion de  
Consultation des Intervenants Locaux***

***Les Acacias Hotel, Djibouti 31/08/2015***

#### *Agenda / Ordre du jour*

Time / Temps	Activity/Topic (Activité / Sujet)	Facilitator (facilitateur)
9h00 - 9h30	Arrival and registration of participants <i>Arrivée et inscription des participants</i>	Carbon Africa
9h30 - 9h45	Opening remarks <i>Remarques d'ouverture</i>	Gaia & Carbon Africa
9h45 – 10h30	Overview on Project Gaia/ Q&A	Gaia

	<i>Aperçu de projet Gaia</i>  <i>Q&amp;A</i>	
<b>10h30 – 11h00</b>	<b>Tea Break (<i>Pause thé</i>)</b>	
<b>11h00 -12h00</b>	Explanation of Climate Change and Carbon Credits  <i>Explication du changement climatique et des crédits de carbone</i>	Carbon Africa
<b>12h00-12h30</b>	Preliminary discussion on <b>Do-No-Harm Assessment</b>  <i>Discussion préliminaire sur Faites-Pas-Nuire évaluation</i>	
<b>12h30 – 13h30</b>	<b>Lunch Break (<i>pause déjeuner</i>)</b>	
<b>13h30- 14h00</b>	Introduction to <b>Sustainable Development Benefits</b>  <i>Introduction d'avantages du développement durable</i>	Carbon Africa
<b>14h30 - 15h15</b>	Group discussions on Sustainable Development Benefits of the project  <i>Les discussions de groupe d'avantages du développement durable</i>	Carbon Africa
<b>15:15 - 15h40</b>	Discussion on <b>monitoring</b> of sustainable Development benefits  <i>Discussion sur la surveillance d'avantages du développement durable</i>	Carbon Africa
<b>15h40 - 16h00</b>	Discussion on <b>Grievance Mechanism</b>  <i>Discussion sur les griefs Mécanisme</i>	Carbon Africa & Gaia

<b>16h:00 -16h15</b>	Closing the meeting <i>Fermeture de la réunion</i>	Gaia & Carbon Africa
<b>16h15 - 16h30</b>	<b>Refreshments &amp; Guests leave at own pleasure</b> <i>Rafraîchissements &amp; Invités partent à propre plaisir</i>	

## ii. Non-technical summary

*Non-technical summary in English*

### **NON-TECHNICAL SUMMARY OF PROJECT GAIA COOK STOVE PROGRAMME OF ACTIVITIES (PoA)**

#### **Introduction**

In many developing countries the dependency on firewood and charcoal as a source of energy is very high<sup>3</sup>, with around 3 billion people combusting solid fuels in open fires to meet their cooking and heating needs<sup>4</sup>. As a result, indoor air pollution is one of the ten major threats to health globally, causing almost 2 million deaths annually due to solid fuel use<sup>5</sup>. In most cases, the collection of firewood and the production of charcoal is done illegally, thus, contributing to deforestation and forest degradation and also resulting in the emission of greenhouse gases.

#### **Description of the PoA**

Project Gaia Incorporation, a multinational non-governmental organization, is establishing a Cook stove Programme of Activities that will cover Ethiopia, Djibouti and Haiti, and will seek registration under the Gold Standard and the Clean Development Mechanism (CDM). The company has years of experience in assisting communities to become energy independent by creating the demand for ethanol for cooking. This is achieved through the provision of support for the establishment of locally owned micro-distilleries and the distribution of energy efficient ethanol stoves. Through the extensive experience in alcohol powered cook stoves, Project Gaia will act as the Coordinating/Managing Entity of the programme.

#### **Objective of the Programme of Activities (PoA)**

The programme will work towards the distribution of clean, safe and energy efficient cooking stoves powered by ethanol to households/communities in select African and South American countries. The stoves will replace traditional cooking stoves, which utilize firewood and charcoal and fossil fuel based stoves, which use kerosene for heat generation. The first component project activity (CPA) under the PoA will be implemented in Ethiopia while the second in Djibouti. Plans are underway to include the programme in Haiti and considerations also in place to expand the programme to other countries. For more information, visit the project website <https://projectgaia.com/about/>

Under the programme, Project Gaia Inc. will act as the Coordinating/Managing Entity (CME) or the

<sup>3</sup> Food and Agriculture Organization: *Forests and Energy*, Rome: FAO. (2008)

<sup>4</sup> World Health Organization: *Indoor air pollution and health, Fact sheet No. 292*: WHO (2011)

<sup>5</sup> World Health Organization: *Indoor air pollution and health, Fact sheet No. 292*: WHO (2011)

owner of the programme and will be responsible for:

- Preparation of all the Gold Standard and CDM documentation
- Liaise with the Designated National Authorities and other government entities on matters related to the implementation of the PoA and inclusion of future CPAs
- Collection and compilation of data from each component project activity required for monitoring carbon reductions achieved e.g. the number of stoves distributed under each CPA
- Coordination of monitoring activities and data management for each CPA
- Contracting an independent auditor to verify compliance with CDM and GS rules
- Preparation and submission of monitoring reports to determine the amount of carbon credits and facilitate the auditing of the same;
- Communication with the CDM and the GS on matters related to the PoA.

### **Technology implemented**

The technology involves stoves that use ethanol to generate heat for cooking. The ethanol used by the stoves will be produced from sugar factories in Ethiopia. The stoves come in four model types; aluminum single burner stove, aluminum double burner stove, stainless steel single burner stove and stainless double burner stove as shown in Figure 1 and Figure 2 below respectively.

The stoves have a variable lifespan; with the Aluminum model having a lifespan of 6 years while the stainless steel model having 10 years. The canister capacity of the stoves is 1.2 liters with a burning duration of 4-5 hours at maximum heat and 9-10 hours at low heat.



**Figure 1: Double Burner Stove**



**Figure 2: Single Burner Stove**

## Carbon credits

Emissions reductions will be generated through replacing the use of wood and fossil fuels with ethanol, which is a renewable energy source of energy. The revenue from sale of these credits will be used to expand the programme to reach many end-users benefiting from the programme through the purchase of more stoves to be distributed under the programme.

The diagram below provides a simplified illustration of how emission reductions are achieved.



## Contribution to Sustainable Development

Besides generating carbon credits the project will have the following co-benefits:

- Provide clean and reliable source of energy for cooking purposes.
- Raise awareness of the safety, health, economic, and environmental benefits of alcohol fuels.
- Displace traditional polluting fuels by implementing community-based alcohol stove and fuel projects.
- Spur job creation by encouraging local production and commercialization of alcohol fuels and appliances.
- Replicate successful projects and increase energy access by sharing knowledge and resources with governments, the private sector, nonprofits, and other stakeholders.

## Joining the PoA

Individual projects (CPA) to be included under this PoA will be developed by Project Gaia Inc. Other projects interested in joining this PoA may also be considered. Contractual agreements between the CME and the CPA implementing entities will cover all the requirements for joining the PoA. These agreements will clearly define, among other things, the need for a CPA implementing entity to pay a joining fee.

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For more information on technical issues, please contact:

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*Non Technical Summary in French*

### **RÉSUMÉ NON TECHNIQUE**

### **PROJET GAIA PROGRAMME D'ACTIVITÉS (PoA) FOYERS DE CUISSON**

#### **Introduction**

Dans de nombreux pays en développement, la dépendance à l'égard du bois de chauffage et le charbon de bois comme source d'énergie est très élevé, avec près de 3 milliards de personnes utilisant des combustibles solides dans les foyers ouverts pour répondre à leurs besoins de cuisson et de chauffage. En conséquence, la pollution de l'air intérieur est l'une des dix principales menaces pour la santé à l'échelle mondiale, provoquant près de 2 millions de décès chaque année en raison de l'utilisation de combustibles solides. Dans la plupart des cas, la collecte de bois de feu et la production de charbon de bois se fait illégalement, ainsi, de contribuer à la déforestation et la dégradation des forêts, résultant en l'émission de gaz à effet de serre.

#### **Description du programme**

Project Gaia, Incorporated (Inc.), une organisation non gouvernementale multinationale, mettra en place un programme d'activités de foyers de cuisson qui couvrira l'Ethiopie, le Djibouti et l'Haïti, et cherchera enregistrement en vertu de la Gold Standard et le Mécanisme de Développement Propre (MDP). La société a des années d'expérience pour aider les communautés à devenir énergie indépendante en créant la demande pour l'éthanol pour la cuisson. Ce résultat est obtenu grâce à la fourniture de soutien à la création de micro-distilleries de propriété locale et la répartition des foyers à éthanol d'énergie économies. Grâce à sa vaste expérience avec les cuisinières propulsé par l'alcool, le projet Gaia sera l'entité de la coordination / gestion (CME) du programme. Le programme à l'appui de l'Agence des Nations Unies pour les réfugiés (UNHCR), qui achètera les cuisinières améliorées pour les distribuer aux ménages dans les camps de réfugiés en Ethiopie et à Djibouti.

#### **Objectif du Programme d'activités (PoA)**

Le programme au but de distribuer des cuisinières à l'éthanol propres, sûres et économies en énergie dans des camps de réfugiés et d'autres ménages dans certains pays africains et sud-américains. Les foyers améliorés remplaceront des cuisinières traditionnelles, qui utilisent de bois de chauffage et du charbon et les combustibles fossiles (le kérosène) pour la cuisson et le chauffage. L'activité de projet

de premier composant (CPA) – le premier projet individuel - dans le cadre du programme sera mise en œuvre en Ethiopie tandis que la deuxième à Djibouti. Des plans sont en cours pour inclure l'Haïti au programme et également pour étendre le programme à d'autres pays. Pour plus d'informations, veuillez visiter le site web du projet <https://projectgaia.com/about/>

En vertu du programme, le Project Gaia sera le gestionnaire et le propriétaire du programme et sera responsable de:

- Préparation de toute la documentation Gold Standard et le MDP
- Assurer la liaison avec les autorités nationales désignées et d'autres entités gouvernementales sur les questions liées à l'exécution du programme et l'inclusion des CPAs suivants
- Collection et la compilation des données de chaque activité de projet composant requis pour le surveillance des réductions de carbone obtenus par exemple le nombre de foyers distribués sous chaque APC
- Coordination des activités de surveillance et la gestion de données pour chaque CPA
- Contractante un vérificateur indépendant pour vérifier la conformité avec règles du MDP et du GS
- Préparation et soumission des rapports de suivi pour déterminer le montant des crédits de carbone et de faciliter la vérification de la même;
- Communication avec le secrétariat du MDP et du GS sur les questions liées à la programme

### **La technologie**

La technologie implique les foyers de cuisson qui utilisent l'éthanol pour produire la chaleur pour la cuisson. L'éthanol utilisé sera produit à partir des usines de sucre en Ethiopie. Les cuisinières améliorées déclinent en quatre types de modèles; aluminium seul brûleur, en aluminium double brûleur, l'acier inoxydable seul brûleur et inoxydable à double brûleur comme illustré dans Figure 1 et la Figure 2 ci-dessous, respectivement.

Les foyers ont une durée de vie variable; avec le modèle d'aluminium ayant une durée de vie de 6 ans tandis que le modèle en acier inoxydable ayant 10 ans. La capacité de boîte métallique des cuisinières est de 1,2 litres avec une durée de combustion de 4-5 heures à la chaleur maximum et de 9 à 10 heures à feu doux.



Figure 1: Foyer de cuisson à double brûleur



Figure 2: Foyer de cuisson à seul brûleur

### Les crédits de carbone

Les réductions d'émissions seront générées en remplaçant l'utilisation de combustibles fossiles et de bois avec de l'éthanol, qui est une source d'énergie renouvelable. Les recettes de la vente de ces crédits seront utilisées pour étendre le programme et acheter et distribuer des plusiers foyers de cuisson à atteindre de nombreux utilisateurs bénéficiant du programme.

Le diagramme ci-dessous donne une illustration simplifiée de la façon dont les réductions d'émissions sont atteintes.



### Contribution au développement durable

En plus de générer des crédits de carbone le projet aura les co-bénéfices suivants:

- Fournir une source d'énergie propre et fiable pour la cuisson.
- Sensibiliser à la sécurité, la santé, l'économie, et les avantages environnementaux des carburants à l'alcool.
- Remplacer les combustibles polluants traditionnels en mettant en œuvre les projets communautaires de foyers de cuisson à alcool et de carburant.
- Stimuler la création d'emplois en encourageant la production et la commercialisation de carburants à l'alcool et appareils locaux.
- Répliquer projets réussis et accroître l'accès de l'énergie en partageant les connaissances et

les ressources avec les gouvernements, le secteur privé, les organisations à but non lucratif et autres parties prenantes.

### **Rejoindre le Programme**

Les projets individuels (CPAs) pour être incluses dans ce programme sera développé par le projet Gaia Inc. Les autres projets intéressés à se joindre à ce programme peuvent également être considérés. Les ententes contractuelles entre le CME et les entités de mise en application de la CPA couvriront tous les besoins pour joindre au programme. Ces accords définir clairement, entre autres, la nécessité d'une entité de mise en œuvre de payer un droit d'inscription si nécessaire.

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Pour plus d'informations sur les questions techniques, veuillez contacter:

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Pour plus d'informations sur les changements climatiques et les crédits de carbone, veuillez contacter:

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*Non Technical Summary in Somali*

### **SOO KOOBID AAN FARSAMDA LA XIDHIIDHIN MASHRUUCA GAIA EE SHOOLADAHA WAX KARINTA**

### **Hordhac**

Qaar badan oo ka tirsan dalalka soo koraya ku tiirsanaanta qoriga iyo dhuxusha ee loo isticmaalo tamarahaan waa mid aad u sarreeya, iya daooku dhowaad 3 bilyan oo qof ay u isticmaalayaanta marahaansi ay u daboolaan baahidoodadadhanka wax karinta iyo kulaylinta. Taasiwaxay horseeday in wasakhowgaha wa daeegurya hadhexdooda u unoqdo mid kamidatobanka shay Eekhatartakuhayacaafimadkadakaaduunka, Iisticmaalka dhuxusha iyo qorigu waxay sanadkasta sababtaa dhimashada dad ku dhow laba milyan oo qof. Inta badan soo ururinta qoriga iyo samaynta dhuxusha waxa lo sameeyaa si sharcidaro ah, sidaasoo ay tahay waxay horseedaa xaaluf ku yimaada deegaanka iyo wasakhowga hawada.

### **Waamaxay barnaamijka**

MASHRUUCA GAIA Iskudarka waa ururaan dawlia hayno kashaqeeya dalal badan, wuxuhirgalinaya mashruuca shooladaha wax karinta kaasigaadhidoona dalalka Ethiopia, Djibouti iyo Haiti.

Waxaanusidoo kale raadindoonaadiwaangalintaisagooadeegsanayaheerkadahabiga (Gold Standard) iyo hababka horumarinta iyo nadiiftaah (clean development mechanism).

Sharikaduwaxaykhibraddheeroosanaddo ah u

leedahayinaybulshooyinkakacaawisoinaynoqdaanqaarkamadaxbananadhankatamartaiyadoo u soobandhigaysadareeraha(ethanol) si ay wax ugukarsadaan. Taas waxalagugaadhadhayadoocaawimolagahelayosamayntawarshadowaryaroomaxalioosaarikaradareeraha wax kukarsashadaee ETHANOL iyo qaybinta shoolado awoodda beekhaamiya ee kushaqeeya dareeraha ethanol. Iyadoo la adeegsanayo khibrada dheeereeanu u leenahayshooladahakushaqeeya ethanol, Project GAIA waxayf ulindoontaa mashruuca shooladaha iyado o gacan lagahelayo.

### **Ujeedadaa mahadafka mashruuca.**

Mashruucu wuxu ka shaqayn doonaa sidii loo heli lahaa shoolado nadiifa, tamartana beekhaamiya oo u ku shaqeeyaa ethanol ee dalalku yaala Africa iyo south America U darnaa deegaanka.

Wajiga koowaad ee mashrruuca waxalaga fulindoona Ethiopia iyo Djibouti iyo qorshaha kujirto in wajiga labaadla guusoo daro Haiti, maskaxda nalaguhayo in lagusoo darodalal kale.

### **Hirgalinta tiknoolojiyada.**

Technology ayaa waxaa kamid ah qalabka cuntada lagu kariyo oo isticmaala ethanol in ay curiyaan kulayl lagu karsado. Ethanol isticmaalaan qalabka cuntada lagu kariyo ayaa laga soo saari doonaa laga bilaabo warshadaha sonkorta ee Ethiopia. Shooladaha waa afar nooc; aluminium kariyaha gubi hal, aluminium kariyaha gubi labo, ahama kariyaha gubi hal iyo stainless kariyaha gubi labo sida ku cad Jaantus 1 iyo 2 ee hoose siday u kala horreeyaan.

Shooladaha waxay leeyihii cimri ah variable; modelka Aluminium ah isagoo cimri o 6 sano ah halka model ah ahama isagoo 10 sano. Awoodda koonbo weyn ee xaabada lagu yahay 1.2 liitar oo cimri gubanaaya ka mid ah 4-5 saacadood ee kulaylka ugu badan iyo 9-10 saacadood kulaylka hooseeyo.



**Jaantuska 1: Jiko gubi Laba**



**Jaantuska 2: Jiko gubi Hal**

### **Farsamada Carbonka**

Wasakhda yareynta willbe ahbaa marayo bedelay isticmaalka qoryo iyo lafo shidaalka ee ethanol, taas oo ah il-cusboonaysiinta tamarta. Dakhliga laga helo iibka credits, kuwaas oo loo adeegsan doonaa si loo ballaariyo barnaamijka si loo gaaro badan dhamaadka dadka ka faa'iideysanayaan barnaamijka ah ee xaabada lagu iibisan doona oo dheeraad ah si loo qaybin hoos imaneysey barnaamijka

Shaxda hoos kutuseysaa sawir fudud oo sida yareynta warshadu hawada lagu gaaraa.



Ka sokow abuurid credits carbon mashruuca wuxu yeelan doonaa faa'iidooyinka oo:

- Waxay bixiyaan isha nadiif ah oo la isku halayn karo ujeeddooyin wax lagu karsado.
- Kor loo qaado wacyigelinta ee ammaanka, caafimaadka iyo dhaqaalaha.
- Barakiciyey shidaal wax wasakheeya dhaqameed ay fulineysey mashaariic kariyaha khamriga iyo shidaalka ku salaysan bulshada.
- Faa'idada mashaariic guul iyo in la kordhiyo helitaanka tamarta oo aqoonta iyo khayraadka dowladaha, ganacsiga gaarka loo leeyahay, iyo kuwa kale ee la wadaago

### **Ku biiritaanka PoA**

Mashaariicda kale (CPA) in lagu daro ka yar xabisid tan kale la diyaarin doonaa ee Project GAIA Inc. Mashaariicda kale xiiseyneynin inuu ku biiro xabisid waxaa laga yaaba in sidoo kale loo tixgeliyo. Heshiisyo qandaraas u dhexeeyaa CME iyo hirgelinta hay'adaha CPA dabooli doontaa dhammaan

shuruudaha ku biiro xabisid ah. Heshiisyada waxay si cad u qeexi doona, iyo waxyaabo kale, baahida loo qabo CPA ah fulinta Ciddu inay bixiyaan ujro ku biiro haddii loo baahdo.

### iii. Invitation tracking table

Category code	Organisation (if relevant)	Name of invitee	Way of invitation	Date of invitation	Confirmation received? Y/N
A	Centre d'Etudes et de Recherches de Djibouti (CERD)	Said Ismael Awaleh	Email	3-Aug-15 20-Aug-15	N
A	Alpha Renewable Energy Pvt. Ltd	Ashwin Patel	Email	3-Aug-15 20-Aug-15	N
A	Federation of National Associations of Women in Business in Common Market for Eastern and Southern Africa (FEMCOM)	Mrs Hawa Djama Idleh	Email	3-Aug-15 20-Aug-15	N
A	National Investment Promotion Agency (NIPA)	Mahdi Darar Obsieh	Email	3-Aug-15 20-Aug-15	N
A	University of Djibouti	Dr. Abdillahi Aptidon Gambor	Email	3-Aug-15 20-Aug-15	N
A	University of Djibouti	Dr. Abdirahman Yacin	Email	3-Aug-15 20-Aug-15	N
A	Institut Supérieur des Sciences de la santé (ISSS), or Higher Institute for Health Sciences	Dr Anab Daher Madar	Email	3-Aug-15 20-Aug-15	N

A	Institut Supérieur d'Etudes et de Recherches Scientifiques et Techniques (ISERST)	Mohammed Jalludin	Email	3-Aug-15 20-Aug-15	N
A	Ethio Resource Group (ERG)	Getnet Tesfaye Beyene	Email	3-Aug-15 20-Aug-15	N
A	National Union of Djiboutian Women (UNFD)	Hassan Gouleh Aptidon	Email	3-Aug-15 20-Aug-15	N
B	Ministère de l'Energie et des Ressources naturelles	Mr. Farah Ali Ainan	Email	3-Aug-15 20-Aug-15	N
B	Direction de la Statistique et des Études Démographiques (DISED)	Mr. Idriss Ali Sultan	Email	3-Aug-15 20-Aug-15	N
B	Djibouti Chamber of Commerce and Industry	Mr. Rifki Abou Dulkader	Email	3-Aug-15 20-Aug-15	N
B	Electricité de Djibouti (EDD)	Djama A. Guelleh	Email	3-Aug-15 20-Aug-15	N
B	Ministère de l'Agriculture, de l'Elevage et des Pêches, Chargé des Ressources Hydrauliques	Mohamed Moussa Mohamed	Email	3-Aug-15 20-Aug-15	N
B	Ministère de l'Economie, des Finances chargé de l'Industrie et de la Planification (MEFIP)	Aboubaker Abdoulkader Guedi	Email	3-Aug-15 20-Aug-15	N

B	Ministère de l'Education et de l'Enseignement Supérieur	Said Barakat	Email	3-Aug-15 20-Aug-15	N
B	Ministère de l'Habitat, de l'Urbanisme, de l'Environnement et de l'Aménagement du Territoire	Ali Ainan Farah	Email	3-Aug-15 20-Aug-15	N
B	Ministère de l'Habitat, de l'Urbanisme, de l'Environnement et de l'Aménagement du Territoire	Mr. Abdoulkader Oudoum Abdallah	Email	3-Aug-15 20-Aug-15	N
B	Ministère de l'Energie et des Ressources naturelles	Abdulkarim Aden Cher	Email	3-Aug-15 20-Aug-15	N
B	Ministère de la Promotion de la Femme	Amina Abdi	Email	3-Aug-15 20-Aug-15	N
B	Ministre de la Santé	Dr. Osman Kassim Issak	Email	3-Aug-15 20-Aug-15	N
B	Ministry of Energy & Natural Resources	Ali Yacoub	Email	3-Aug-15 20-Aug-15	N
B	Ministry of Health	Mrs Nima Omar Awaleh	Email	3-Aug-15 20-Aug-15	N
B	Ministry of Housing, Urbanism and Environment	Dini Abdallah Omar	Email	3-Aug-15 20-Aug-15	Y
B	Ministry of Housing, Urbanism and Environment	Mohamed Moussa Ibrahim	Email	3-Aug-15 20-Aug-15	N

C	Direction de l'Aménagement du Territoire et de l'Environnement	Mr. Idriss Ismael Nour	Email	3-Aug-15 20-Aug-15	N
D	Norwegian Refugee Council (NRC)	Ms. Gabriella Waaijman	Email	3-Aug-15 20-Aug-15	Y
D	Norwegian Refugee Council (NRC)	Mr. Kennedy Mabonga	Email	3-Aug-15 20-Aug-15	Y
D	Norwegian Refugee Council (NRC)	Ms. Mauren Kinyanjui	Email	3-Aug-15 20-Aug-15	Y
D	FEWS NET Djibouti	Beydane Miyr	Email	3-Aug-15 18-Aug-15	N
D	Red Crescent Society of Djibouti	Abdi Farah Ahmed	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	Abdourahman Chamsan Saleh	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	Fatouma Ababa	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	Abdi Kaireh Bouh	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	Moussa Djama	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	M. Daher	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	Zakariye Djibril	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	Moustapha Mahamad	Email	3-Aug-15 20-Aug-15	N
D	Red Crescent Society of Djibouti	Mamadou Bah	Email	3-Aug-15 20-Aug-15	N

D	Life International	John Nordmeyer	Email	3-Aug-15 20-Aug-15	N
D	National Office for Assistance to Refugees and Affected Populations (ONARS)	Hassan Omar	Email	3-Aug-15 20-Aug-15	N
D	African Rescue Committee (AFREC)	Abdi Raghe	Email	3-Aug-15 20-Aug-15	N
D	UNDP- FNUAP	M. Sunil Saigal	Email	3-Aug-15 20-Aug-15	N
D	Organisation Mondiale de la Santé	Moustafa Tyane	Email	3-Aug-15 20-Aug-15	N
D	USAID-Djibouti	Janet Schulman	Email	3-Aug-15	N
D	Fonds Monétaire International – FMI	M. Mohamed Said	Email	3-Aug-15 20-Aug-15	N
D	Agence Djiboutienne de Développement Social (ADDS) / Djiboutian Social Development Agency (DSDA)	Dirieh Farah Souldan	Email	3-Aug-15 20-Aug-15	N
D	Délégation de l'Union européenne au Djibouti	Quartier du Héron	Email	3-Aug-15 20-Aug-15	N
D	Association Volontaire de Développement Durable Djibouti / Voluntary Association of Sustainable Development Djibouti	Issa Omar Djama	Email	3-Aug-15 20-Aug-15	Y

D	Union Nationale des Femmes de Djibouti (UNFD)	Mme Degna Mohamed Issack	Email	3-Aug-15 20-Aug-15	N
D	Agence Française de Développement (AFD)	Rue Ibrahim M. Sultan	Email	3-Aug-15	N
D	Association Al Biri charitable	M.Mohamoud	Email	3-Aug-15 20-Aug-15	N
D	Association socio-culturelle bienfaisance de Bender Djedid	Ismael Said	Email	3-Aug-15 20-Aug-15	Y
D	Association des Jeunes du Villages d'Assamo (YOAV) / Youth Organisation of Assamo village	Osman Ahmd Farah	Email	3-Aug-15 20-Aug-15	Y
D	Organisation de Bender Djedid Pour le Développement Socio-Economique	Ismaël Saïd Ismaël	Email	3-Aug-15 20-Aug-15	Y
D	Horn of Africa Regional Environment Center and Network	Houssein Rayaleh	Email	3-Aug-15 20-Aug-15	Y
D	International Community Empowerment & Pastoralist Education Program (ICE-PEP)	Hussein Osman Hussein	Email	3-Aug-15 20-Aug-15	N
D	Intergovernmental Authority for	Mahboub Maalim	Email	3-Aug-15 20-Aug-15	N

	Development (IGAD)				
D	The African Centre For Empowerment Gender & Advocacy	Rahab M. Muiu	Email	3-Aug-15 20-Aug-15	N
D	Caritas Djibouti	Beata Biela	Email	3-Aug-15 20-Aug-15	Y
D	FHI 360 Djibouti	Fara-had Hassan	Email	3-Aug-15 20-Aug-15	N
D	HEDON (Household Energy Network)	Grant Ballard-Tremeer	Email	3-Aug-15 20-Aug-15	N
D	Horn Alternative Energy Company	Abdi Nooh	Email	3-Aug-15 20-Aug-15	N
D	SOS SAHEL International	Salifou Ouedraogo	Email	3-Aug-15 20-Aug-15	N
D	UNHCR Djibouti	Honorine Sommet-Lange	Email	3-Aug-15 20-Aug-15	N
D	Inter-Governmental Authority on Development (IGAD)	Tekeste Ghebray	Email	3-Aug-15 20-Aug-15	N
D	AID AFRICA	Otuukene Issa	Email	3-Aug-15 20-Aug-15	N
D	Energy and Security Group	Thayer Tomlinson	Email	3-Aug-15 20-Aug-15	N
D	American National Standards Institute (ANSI)	Joseph Tretler	Email	3-Aug-15 20-Aug-15	N
D	Brokers Carbon	Nathan Dale	Email	3-Aug-15 20-Aug-15	N
D	Build-a-gasifier	Steve Ewings	Email	3-Aug-15 20-Aug-15	N

D	JSI Research & Training Institute, Inc.	Terry Greene	Email	3-Aug-15 20-Aug-15	N
D	HELIAC	Paul Christoffer sen	Email	3-Aug-15 20-Aug-15	N
D	GAIA Association	Desalegn Getaneh	Email	3-Aug-15 20-Aug-15	N
D	Danish Refugee Council, Djibouti	Heather Amstutz	Email	3-Aug-15 20-Aug-15	Y
D	Cleancook Sweden AB	Robert Sagulin	Email	3-Aug-15 20-Aug-15	N
D	Agence Djiboutienne de Développement Social	Mahdi Mohamed Djama,	Email	3-Aug-15 20-Aug-15	N
D	Association la Caravane du Développement de Gobaad	Ali Ibrahim Houmed	Email	10-Aug-15 20-Aug-15	N
D	Danish Refugee Council, Djibouti	Luca Marten-Perolino	Email	21-Aug-15	Y
D	Agro-Pastoral Association Djibouti	Taheri Issa	Email	3-Aug-15 20-Aug-15	N
D	Association Pour le Development de l'Agriculture	Mohamoud Elmi Ayeh	Email	3-Aug-15 20-Aug-15	N
E	Gold Standard Foundation	Johann Thaler	Email	3-Aug-15 20-Aug-15	Y
D	UNICEF,Djibouti	Aloys Kamuragiye	Email	3-Aug-15 18-Aug-15	N
D	UNDP	Hodan Haji-Mohamud	Email	3-Aug-15 20-Aug-15	N

D	USAID, Djibouti	Littleton Tazewell	Email	3-Aug-15 20-Aug-15	Y
D	FAO Djibouti	Emmanuel le Guerne Bleich	Email	3-Aug-15 20-Aug-15	N
D	FAO Djibouti	Littleton Tazewell	Email	3-Aug-15 20-Aug-15	Y
D	FAO Djibouti	Fozia Sahal Ismael	Email	3-Aug-15 20-Aug-15	Y
D	FAO Djibouti	Fozia Sahal Ismael	Email	12-Aug-15 20-Aug-15	Y
D	WFP Djibouti	Jacques Higgins	Email	3-Aug-15 20-Aug-15	N
D	WFP Djibouti	Etienne Labande	Email	18-Aug-15	N
F	World Vision	Andrew Binns	Email	3-Aug-15 20-Aug-15	N
F	Action Carbone (Good Planet Foundation)	Nitin Pagare	Email	3-Aug-15 20-Aug-15	N
F	Care International	Christoph er (Kit) Vaughan	Email	3-Aug-15 20-Aug-15	N
F	HELIO International	Helene O'Connor- Lajambe	Email	3-Aug-15 20-Aug-15	N
F	Mercy Corps	David Nicholson	Email	3-Aug-15 18-Aug-15	N
F	REEEP	Katrin Harvey	Email	3-Aug-15 20-Aug-15	N
F	Renewable Energy & Energy Efficiency Institute	Kudakwas he Ndhlukula	Email	3-Aug-15 20-Aug-15	N
F	SouthSouthNo rth	Stefan Raubenhei mer	Email	3-Aug-15 20-Aug-15	N

F	World Vision Australia	Dean C. Thomson	Email	3-Aug-15 20-Aug-15	N
F	WWF International	Bella Roscher	Email	3-Aug-15 20-Aug-15	N
F	A World Institute for a Sustainable Humanity (A W.I.S.H)	Michael Karp	Email	3-Aug-15 20-Aug-15	N
F	BASE (Basel Agency for Sustainable Energy)	Daniel Magallon	Email	3-Aug-15 20-Aug-15	N
F	Hivos	Harry Clemens	Email	3-Aug-15 20-Aug-15	N
F	Hivos East Africa	Mendi Njonjo	Email	3-Aug-15 20-Aug-15	N
F	Impact Carbon	Caitlyn Toombs	Email	3-Aug-15 20-Aug-15	N
F	Initiative Développement	Olivier Lefebvre	Email	3-Aug-15 20-Aug-15	N
F	MyClimate	Job Orina	Email	3-Aug-15 20-Aug-15	N
F	MyClimate	Ujala Qadir	Email	3-Aug-15 20-Aug-15	N
F	MyClimate	Franziska Heidenreich	Email	3-Aug-15 20-Aug-15	N
F	WWF International	Irene Mwaura	Email	3-Aug-15 20-Aug-15	N
F	World Vision International	Victor Mwanyolo	Email	3-Aug-15 20-Aug-15	N

The stakeholders were selected according to the Gold Standard recommendations whereby the selection should ensure a representation of all the stakeholders. Representatives from relevant categories, especially local NGOs with activities in environmental affairs, government agencies with relevance to the project, rural energy and refugee affairs, organizations working on improvement of gender equality and project developers in the energy sector providing similar service were invited.

#### Identification of stakeholders

The project activity invited a broad range of stakeholders to the Local Stakeholder Consultation meeting. The stakeholders were invited based on the description of a stakeholder to be “anyone who is or is likely to be affected by the implementation of the project activity”. The identified stakeholders can be broadly categorized as follows:

**General Public:** The general public is a stakeholder because they will be the end users of the ethanol powered cook stoves from the project and will be the most impacted upon by the project.

**Refugees:** Refugees are considered stakeholders because the ethanol powered cook stoves will also be distributed to refugee households at some point under the PG PoA

**Academia:** Higher learning institutions are considered stakeholders because of relevant data and information they might possess regarding the region that the developer may not be aware of.

**Similar Technology Providers:** They were regarded as stakeholders since they are considered to have experience on what it takes for similar projects to flourish in the current environment. They are also in a good position to know any potential synergies for the project and ways in which the project can tap into them.

**Government representatives and Designated National Authority:** Government representatives and the Designated National Authority are considered stakeholders because the implementation of the project is expected to have an impact on the achievement of a number government policy and sustainable development goals in relation to poverty reduction and energy provision and thus their input is important.

**NGOs, community representatives and donor representatives:** NGOs, community representatives and donors are considered stakeholders because of their unique position in direct contact with the community members and refugees.

#### **How stakeholder comments were solicited**

Comments from the various groups of stakeholders were solicited by the use of emails, phone calls, websites and word of mouth, as further described below:

**Email invitations:** Most of the stakeholders identified had access to email services and therefore they were invited using emails. The emails were sent approximately four weeks before the date of the meeting in accordance with the Gold Standard guidelines so as to give the stakeholders sufficient time to plan ahead of the meeting. Stakeholders who confirmed that they could not attend the meeting due to other commitments were asked to send representatives if possible. A sample email invitation is attached in **section iv** below.

**Phone call invitations:** Some stakeholders whose home numbers were available were invited by through phone calls

**Website Adverts:** Website adverts were used, the advertisement was put up on Carbon Africa and Project Gaia’s websites.

Follow-up of invitations:

The invitation e-mails were sent in two rounds whereby the first round was the initial invitation then followed by follow up e-mails to the stakeholders. In addition to the follow up e-mails, the invitations to the stakeholders was followed up through phone calls for those whose phone numbers were available.

. A sample of a follow-up email invitation is attached in **section iv** below.

#### iv. Text of individual invitations

##### ***Sample of email invitation sent to the stakeholders***



Cher intervenant,

Carbon Africa Ltd au nom du Projet Gaia Inc. est heureux de vous inviter à la réunion de consultation des parties prenantes locales à venir du **Projet Gaia < fourneaux alimentés >Programme d'Activités (PdA) Djibouti - CPA0002** qui se tiendra le **31 Août 2015** au **Les Acacias Hotel, Djibouti** partir **09h00-16h30**. Le but de la réunion est de discuter le projet et sa contribution au développement durable à Djibouti et à chercher votre apport précieux sur les différentes approches à l'amélioration de la mise en œuvre du projet.

Le projet vise à distribuer des fourneaux alimentés à l'éthanol aux ménages à Djibouti. Le projet permettra de réduire les émissions de gaz à effet de serre en remplaçant l'utilisation du bois de chauffage et le kéroène pour la cuisson avec de l'éthanol alimenté fourneaux. Ce sera alors rendre le projet admissible à des crédits de carbone. Par conséquent, le projet demande l'inscription de la Mécanisme de Développement Propre (MDP) et le Gold Standard. Projet Gaia Inc. est la coordination / Entité de Gestion du programme tout en Carbon Africa Ltd est le consultant de carbone. Pour que le projet soit inscrit, une consultation des parties prenantes locales devra être effectué tel que requis par Gold Standard et le MDP.

Un bref résumé non technique du projet, joint à cet e-mail, a été fourni pour plus d'informations sur le projet de la réunion.

Pour la planification, vouloir confirmer votre présence à Martha Jepkirui: [martha@carbonafrica.co.ke](mailto:martha@carbonafrica.co.ke) et Ayshehum Abebew: [ayshehum@carbonafrica.co.ke](mailto:ayshehum@carbonafrica.co.ke) avant le 20 Août 2015

Ne pas hésiter à communiquer avec le soussigné en cas de questions ou si vous avez besoin d'éclaircissements.

Nous attendons avec intérêt de recevoir votre confirmation de la présence

 RE: Invitation au Réunion de consultation des parties prenantes locale de...

Martha Jepkirui

Sent: Monday, August 3, 2015 at 14:55

To:

Cc: elijah isabu; Daniel G Seals; Wubshet T. Tsehayu

Bcc: Martha Jepkirui; Edwin Obiero; energysolar2004@yahoo.fr; cerd@intnet.dj; ap@wallguard.net; and [92 more](#)

📎: [PG PoA Non-Technical Summary\\_French.pdf](#) (174.1 KB); [PG PoA Non-Technical Summary\\_English.pdf](#) (215.9 KB);

[PG Non-Technical Summary\\_Somali.pdf](#) (177.8 KB) [Preview All](#)

Dear Stakeholder,

*Carbon Africa Ltd on behalf of Project Gaia Inc. is glad to invite you to the coming Local Stakeholder Consultation meeting for Project Gaia Cookstoves Programme of Activities Djibouti – CPA0002 to be held on 31st August 2015 at Les Acacias Hotel, Djibouti starting from 9:00 am to 4:30 pm. The purpose of the meeting is to discuss the project and its contribution to sustainable development in Djibouti and also to seek your valued input on different approaches to improving the implementation of the project.*

*The project seeks to distribute ethanol-powered cookstoves to households in Djibouti. The project will reduce greenhouse gas emissions by replacing the use of wood fuel and kerosene for cooking with ethanol powered stoves. This will then make the project eligible to receive carbon credits. Therefore, the project is seeking registration under both the Clean Development Mechanism (CDM) and the Gold Standard, for this to happen a local stakeholder consultation will need to be carried out as required by Gold Standard and CDM. Project Gaia Inc. is the Coordinating/Managing Entity of the programme while Carbon Africa Ltd is the carbon consultant.*

*A brief non-technical summary of the project in French, English and Somali (as per your preference) is attached for more information on the project.*

*For planning purposes, kindly confirm your attendance to Martha Jepkirui: [martha@carbonafrika.co.ke](mailto:martha@carbonafrika.co.ke) and Aysheshum Abebaw: [aysheshum@carbonafrika.co.ke](mailto:aysheshum@carbonafrika.co.ke) before 20th August 2015*

<mailto:martha@carbonafrika.co.ke>

*Do not hesitate to contact the undersigned in case of any questions or if you need clarification.*

*We look forward to receiving your confirmation on the attendance.*

**Email confirmation from a respondent**

RE: Follow-up: Invitation to Project Gaia Local Stakeholder Consultation Meeting in Djibouti – INBOX

Message

Delete Reply Reply All Forward Move Rules Junk Unread Categorize Follow Up

**RE: Follow-up: Invitation to Project Gaia Local Stakeholder Consultation Meeting in Djibouti**

Luca Marten Perolino  
Sent: Monday, August 24, 2015 at 11:58  
To: Martha Jepkirui  
Cc: Elijah Isabu; Edwin Obiero; ayshehum; Wubshet T. Tsehayu; HEATHER AMSTUTZ  
You replied to this message on 8/24/15, 12:13. Show Reply

Dear Martha,

Thanks you very much for the invitation.

I confirm my presence for the meeting.

Best  
Luca

**Luca Marten-Perolino**  
Area manager Djibouti  
Danish Refugee Council (DRC), Horn of Africa and Yemen

Mobile: +253-77-20-65-99 (Djibouti)  
Landline: +253 21 34 04 78 (Djibouti)  
E-mail: [l.marten@drctdjibouti.org](mailto:l.marten@drctdjibouti.org)  
Skype: martenperolino

**Follow up of the invitations**

After the emails were sent out on 3<sup>rd</sup> August 2015 to the stakeholders, follow up emails were sent out on 18<sup>th</sup> an 20<sup>th</sup> August to the stakeholders reminding them of the meeting. For those whose phone numbers were available phone calls were also made to them following up on the meeting invitation.

**Follow up email to a respondent**

RE: Suivre: Invitation au Réunion de consultation des parties prenantes locale de projet Gaia à Djibouti – Sent Mail

Message

Delete Reply Reply All Forward Move Rules Unread Categorize Follow Up

**RE: Suivre: Invitation au Réunion de consultation des parties prenantes locale de projet Gaia à Djibouti**

Martha Jepkirui

Sent: Tuesday, August 18, 2015 at 15:55  
To: dini.omar12@gmail.com; metade@intnet.dj  
Cc: Elijah Isabu; Edwin Obiero; aysheshum; Wubshet T. Tsehayu  
Attachment: PG PoA Non-Technical Summary\_French.pdf (174.1 KB); PG Non-Technical Summary\_Somali.pdf (177.8 KB); PG PoA Non-Technical Summary\_English.pdf (215.9 KB) Preview All

Cher M. Dini Abdallah Omar,

Nous espérons que cet e-mail vous trouve bien.

Nous sommes bien vouloir solliciter votre réponse à l'invitation que nous vous avons envoyé le **3 Août** ici à **2015** au sujet de la prochaine réunion de consultation des intervenants locaux pour le **Projet Gaia < fourneaux alimentés >Programme d'Activités (PdA) Djibouti - CPA0002** qui se tiendra le **31 Août 2015** au **Les Acacias Hotel, Djibouti** partir **09h00-16h30**.

Le but de la réunion est de discuter le projet et sa contribution au développement durable à Djibouti et à chercher votre apport précieux sur les différentes approches à l'amélioration de la mise en œuvre du projet.

Le projet vise à distribuer des fourneaux alimentés à l'éthanol aux ménages à Djibouti. Le projet permettra de réduire les émissions de gaz à effet de serre en remplaçant l'utilisation du bois de chauffage et le kérozène pour la cuisson avec de l'éthanol alimenté fourneaux. Ce sera alors rendre le projet admissible à des crédits de carbone. Par conséquent, le projet demande l'inscription de la Mécanisme de Développement Propre (MDP) et le Gold Standard. Projet Gaia Inc. est la coordination / Entité de Gestion du programme tout en Carbon Africa Ltd est le consultant de carbone. Pour que le projet soit inscrit, une consultation des parties prenantes locales devra être effectué tel que requis par Gold Standard et le MDP.

Un bref résumé non technique du projet, joint à cet e-mail, a été fourni pour plus d'informations sur le projet de la réunion.

Pour la planification, vouloir confirmer votre présence à Martha Jepkirui: [martha@carbonafrica.co.ke](mailto:martha@carbonafrica.co.ke) et Aysheshum Abebew: [aysheshum@carbonafrica.co.ke](mailto:aysheshum@carbonafrica.co.ke) avant le **20 Août 2015**

Ne pas hésiter à communiquer avec le soussigné en cas de questions ou si vous avez besoin d'éclaircissements.

Nous attendons avec intérêt de recevoir votre confirmation de la présence. Vous pouvez envoyer un représentant si vous n'êtes pas en mesure d'assister et de nous le faire savoir de la même.

## v. Text of public invitations

The public was invited using various means

Public invitation was done by through placements of invitations on Carbon Africa's website and Project Gaia's website. Documentation on the project was also made available together with the public invitation.

**Web advert on Carbon Africa's website**



**Invitation to the Local Stakeholder Consultation for the Project Gaia  
Cookstove Programme of Activities - Djibouti (CPA 002)**  
**03 August 2015**

Project Gaia Inc., an NGO based in the United States of America and which focuses on the distribution of energy efficient cookstoves powered by ethanol from renewable sources, is developing a Cookstove Programme of Activities (PoA). The programme is seeking to be registered under both the Clean Development Mechanism (CDM) and the Gold Standard. The second project under this programme will be implemented in Djibouti. The project will result in the reduction of greenhouse gases through the displacement of kerosene, charcoal and firewood used for cooking. In addition to this, the project will also result in a number of sustainable benefits including reduction of deforestation and desertification, reduction of indoor air pollution, reduction of fuel costs, reduced healthcare costs from improved indoor air conditions and better environmental sanitation.

It is in this regard that, Carbon Africa, on behalf of Project Gaia Inc. have the pleasure of inviting you to participate in the coming Local Stakeholder Consultation for the project scheduled to take place on the 31 August 2015 at the **Les Acacias Hotel** in Djibouti from 9:00 am to 4:30 pm. The purpose of the meeting is to discuss the project design and its impact on the sustainable development in Djibouti and getting your valued feedback on ways of improving its implementation. Please find attached a non technical summary of the project at:

**Non Technical Summary - English**

**Non Technical Summary - French**

**Non Technical Summary - Somali**

Please confirm attendance by 20 August 2015 through Martha Jepkirui: **martha@carbonafrica.co.ke**, M: +254 706 374150 or +254 731 851754 or Aysheshum Abebew: **aysheshum@carbonafrica.co.ke** M: +251 911 348277

**Website advert on Project Gaia's Website**

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## INVITATION TO A LOCAL STAKEHOLDER CONSULTATION FOR PROJECT GAIA COOKSTOVE PROJECT OF ACTIVITIES

August 3, 2015  
By Project Gaia Team

Carbon Africa, on behalf of Gaia Association and Project Gaia, Inc., an NGO based in the United States of America and which focuses on the distribution of efficient Cookstoves powered by ethanol from renewable sources. Project Gaia, Inc. is developing a Cookstove Programme of Activities (PoA) that will seek to be registered under both the Clean Development Mechanism (CDM) and the Gold Standard.

The PoA will cover Ethiopia and Djibouti with a possible expansion to Haiti. The project will result in a number of sustainable benefits including reduction of deforestation and desertification, reduction of indoor air pollution, reduction of carbon dioxide and methane emissions to the atmosphere that is attained from kerosene use and uncontrolled manure decomposition respectively, reduction of fuel costs, reduced healthcare costs from improved indoor air conditions and better environmental sanitation.

It is in this regard that we have the pleasure of inviting you to participate in the coming local Stakeholder Consultation for the project scheduled to take place on the **31<sup>st</sup> August 2015 at Les Acacias Hotel Djibouti** from **9:00 am to 4:30 pm**.

The purpose of the meeting is to discuss Gaia Cookstove Project and its impact on the sustainable development in Djibouti and getting participants' valued feedback on ways of improving its implementation.

Kindly confirm attendance to Martha Jepkirui martha(@)carbonafrica.co.ke or M: +254 706 374 150 or +254 731 851 754] or Ayshehum Abebawa: ayshehum(@)carbonafrica.co.ke M: +251 911 34 82 77

Kindly find a non-technical summary of the project: [English](#), [French](#), and [Somali](#).

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Project Gaia Inc., an NGO based in the United States of America and which focuses on the distribution of energy efficient cookstoves powered by ethanol from renewable sources, is developing a Cookstove Programme of Activities (PoA). The programme is seeking to be registered under both the Clean Development Mechanism (CDM) and the Gold Standard. The second project under this programme will be implemented in Djibouti. The project will result in the reduction of greenhouse gases through the displacement of kerosene, charcoal and firewood used for cooking. In addition to this, the project will also result in a number of sustainable benefits including reduction of deforestation and desertification, reduction of indoor air pollution, reduction of fuel costs, reduced healthcare costs from improved indoor air conditions and better environmental sanitation.

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Please confirm attendance by 20 August 2015 through Martha Jepkirui: [martha@carbonafrica.com](mailto:martha@carbonafrica.com) This e-mail address is being protected from spambots. You need JavaScript enabled to view it

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

Apart from the consultation methods discussed above, no other suitable methods were available to be used to solicit input from stakeholders.

## SECTION C. CONSULTATION PROCESS

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

#### i. List of participants

Participants list					
Date and time: 31 <sup>st</sup> August 2015, 9: 00 am – 4:30 pm					
Location: Les Acacias Hotel, Djibouti					
Category Code	Name of participant, job/ position in the community	Male/ Female	Signature	Organisation (if relevant)	Contact details
A	Mohammed Ismail Ali	Male	✓	Holl Holl Refugee Camp	+25377619753
A	Oubah Hussein Hachin	Female	✓	Holl Holl Refugee Camp	+25377022355
B	Mohammed Elmi	Male	✓	Ministry of Housing, Urbanism and Environment	+25321351020
D	Luca Marten Perollino	Male	✓	Danish Refugee Council	<a href="mailto:l.marten@drcdji.bouti.org">l.marten@drcdji.bouti.org</a> +25377206599
D	Anan Mohamed	Male	✓	PRAREV-PECHE SB	+25377603150
D	Sufian Mutagoma	Male	✓	PRAREV-PECHE SB	+25377125315
B	Abdillahi Ahmed	Male	✓	Association Volontaire de Developpement Durable Djibouti	<a href="mailto:gourrey@yahoo.fr">gourrey@yahoo.fr</a>
A	Mohammed Abdi	Male	✓	PSD Translation Services	+253771194 21
D	Robleh Osman	Male	✓	Association Djibouti Nature	<a href="mailto:roblehosm1@gmail.com">roblehosm1@gmail.com</a>
D	Leone H. Lombi	Male	✓	FAO	<a href="mailto:Leone.MagliocchettiLombi@fao.org">Leone.MagliocchettiLombi@fao.org</a>

D	Abdourahman Abdi	Male	✓	Norwegian Refugee Council	<a href="mailto:abdourahman.a_bdi@nrc.no">abdourahman.a_bdi@nrc.no</a>
D	Beata Biela	Female	✓	Caritas Djibouti	<a href="mailto:caritassomalia@gmail.com">caritassomalia@gmail.com</a>
C	Idriss Nour Isamael	Male	✓	Ministry of Housing, Urbanism and Environment	<a href="mailto:distri_play@yahoo.fr">distri_play@yahoo.fr</a>
B	Abdulkader Abdallah	Male	✓	Ministry of Housing, Urbanism and Environment	<a href="mailto:gueddar@hotmail.com">gueddar@hotmail.com</a>
D	Ismaël Saïd Ismaël	Male	✓	Association socio-culturelle bienfaisance de Bender Djedid	<a href="mailto:amin20064@hotmail.com">amin20064@hotmail.com</a>

Comments accompanying Annex 1

None

## ii. Evaluation forms

Name	Sufian Mutagoma
What is your impression of the meeting?	<i>Interesting</i>
What do you like about the project?	<i>Technical aspects of the presentation</i>
What do you not like about the project?	-
Are there any other on-going or planned activities that you can think of that can obstruct the project?	-

Name	Abdourahman Abdi
What is your impression of the meeting?	<i>My impression is positive, because I meet cases of this bad condition of health in the camps. This project will be successful in the camp</i>
What do you like about the project?	<i>The project will limit carbon emissions and that is why I say I agree with this project</i>
What do you not like about the project?	<i>The price for the host community will be expensive</i>

Are there any other on-going or planned activities that you can think of that can obstruct the project?	<i>Actually, we have a project on improving the community kitchen and I think this project can be part of the improvements.</i>
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Name	Beata Biela
What is your impression of the meeting?	<i>Interesting, it seems that the project may be of benefit but still needs more data to be elaborated (It's competitiveness to kerosene, price of ethanol and stoves, usefulness for refugees where there are strong winds, potentially better opportunities such as solar)</i>
What do you like about the project?	<i>It gives an option to choose for people living in cities and free stoves and ethanol to refugees</i>
What do you not like about the project?	<i>Solar energy would be a better alternative if possible to implement on a similar basis. Lack of tents for stoves in the refugee camps resulting in strong winds and lack of security for the stoves</i>
Are there any other on-going or planned activities that you can think of that can obstruct the project?	<i>It may take too long to implement so as to benefit the end-users. The change of prices of kerosene and ethanol</i>

Comments accompanying Annex 2

None

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







Stakeholders following the proceedings of the consultation meeting

### C. 3. Outcome of consultation process

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

##### **Project Gaia Djibouti Local Stakeholder Consultation Meeting Minutes**

**Date:** 31<sup>st</sup> August 2015

**Venue:** Les Acacias Hotel

**Minutes by:** Elijah Isabu

##### **Minute 1: Introduction**

The meeting started at 9:30 am with registration of stakeholders in attendance followed by introductions from Carbon Africa and Gaia.

##### **Minute 2: Opening remarks**

Mr. Wubshet, a representative from Gaia gave the opening remarks of the local stakeholder meeting. He presented the objectives of the meeting and an overview of how the meeting would proceed and the expected

outputs from the meeting.

The stakeholders were given a chance to introduce themselves and the entities and organizations that they were representing.

### Minute 3: Overview of the project

Mr. Wubshet from Gaia gave a description of the project where he elaborated on the stove technology, the availability of the technology in Djibouti and in the region and the roll out plan for the stoves.

He further explained the importance of the project in terms of the potential reduction of carbon monoxide and particulate matter when cooking. He also briefed the stakeholders on the challenges that Gaia faces in its implementation of the project.

### Minute 4: Question and Answer session

#### Q.1 ***What happens at the end of the stove's useful life?***

**Answer:** Mr. Wubshet clarified that once the lifetime of the stoves is over then it will be up to the end-users to get replacements for their stoves at their own cost but subject to prior arrangement, Gaia may provide the replacement stoves.

#### Q.2 ***When will Gaia start distributing the stoves in Djibouti?***

**Answer:** Mr. Wubshet explained that discussions are ongoing with the Ministry of Environment and UNHCR in Djibouti and that the distribution of stoves in Djibouti would begin once all formalities have been agreed on by all the entities involved.

#### Q.3 ***What is the safety of ethanol in this project?***

**Answer:** It was explained by Mr. Wubshet that to ensure safe use of the stoves, Gaia trains the end users during distribution on the safe use of the stove and ethanol. The proper storage of ethanol is also covered during the training. The ethanol that will be used is also colored to ensure that it is not mistaken for other household liquids like water.

#### Q.4 ***For how long will a litre of ethanol burn?***

**Answer by Elijah:** The ethanol stoves that are going to be distributed are designed such that 1 liter of ethanol can burn for approximately 4.5 hours when the stove is used on high power. Also, 1 litre of ethanol can cook 3 meals a day for a family of 5. However, this will depend on the cooking frequency of the end users.

#### Q.5 ***What is the price of ethanol compared with the price of kerosene?***

**Answer by Wubshet:** Currently the price of ethanol is slightly higher than that of kerosene but ethanol has no indoor air pollution when used for cooking unlike kerosene that produces particulate matter, carbon monoxide and other pollutants. Using ethanol for cooking leads to extra benefits such as health improvements as a result of reducing the air pollution that would have been witnessed in the continual use of kerosene. These