Creating Health & Climate Impact

Restoring Madagascar's broken drinking water infrastructure.

> Clean Cooking & Sustainable Fuels











Welcome





Welcome

- 1. Explaining the Clean Water Clean Cooking PoA.
- 2. A programme under the Gold Standard for the Global Goals.
- 3. About SaniTap.
- 4. Why we need your input Design Consultation.
- 5. We will tell you about the Programme of Activities (PoA).

Information Packs have been sent or are available to provide information to support this presentation.

Gold Standard







Agenda

- 1. Opening and welcome: Introduction to SaniTap
- 2. Purpose and Intent of the PoA (Programme of Activities)
 - a) Explanation of VPA (Voluntary Project Activity) 1 (Clean Water)
 - b) Explanation of VPA 2 (Clean Cooking)
- 3. Sustainable Development Impacts of the Projects and Positive Impacts on Stakeholders

ooking

- 4. Gender Responsive Projects
- 5. Safeguarding Principles and Adverse Risks
- 6. Free Prior and Informed Consent: Transfer of carbon emission reduction ownership
- 7. Feedback and Grievance process
- 8. Questions and Answers
- 9. Information on Next Steps and Contact Details
- 10. Evaluation Collecting Feedback



Purpose and Intent of the PoA





Sanijap

Purpose and Intent of Clean Water Clean Cooking PoA

- Provide households with lifesaving clean cooking and safe water technologies and improve living conditions.
- Reduce greenhouse gas (GHG) emissions related to the use of biomass for cooking and water boiling.

This Programme of Activities (PoA) will be certified by the Gold Standard for Global Goals.

- Projects under this PoA are registered as Voluntary Project Activities (VPA) using Gold Standard methodologies.
- These projects will generate carbon credits by preventing GHG emissions including CO₂.
- Savings of non-renewable biomass will reduce deforestation and contribute to improved health conditions of vulnerable female and male end users whilst creating health, convenience and economic benefits.
- This programme actively contributes to several UN Sustainable Development Goals (SDGs).
- The PoA and its related VPAs adhere to all Gold Standard for Global Goals Safeguarding Principles and Requirements. All VPAs will seek to achieve Gender Responsive certification.

PoA Details



Boundary

- Madagascar
- Guinea
- Mozambique
- South Africa
- Ethiopia
- Zimbabwe

Duration of the PoA The PoA is expected to run from 2024 to 2044.

Coordinating/Managing Entity

SaniTap Ltd is the Coordinating/Managing Entity (CME).

Madagascar Project Developer SaniTap Ltd is the Project Developer in Madagascar

Product

Requirements

applied

Green House Gas (GHG) Emissions Reductions.

No ODA Funding

No ODA funding will be used within the PoA or its VPAs

PoA VPA Details

Technologies:

- Technologies to provide and enable Safe Drinking Water.
- Technologies to provide Improved and Clean Cooking.
- Technologies that enable fuel switching.

Project Activity Examples:

• Restoration of failed water points to provide safe drinking water.

Cooking

- Provision of household water filters.
- Production of biomass pellets for use in improved cookstoves.
- Provision of improved cookstoves.

VPA Scale: Small Scale and Micro Scale

Methodologies:

The PoA is expected to include, but not be restricted to, the use of the following methodologies:

- MECD 'Metered and Measured Energy Cooking Devices' Version1.0.
- ERSDW 'Emission Reductions from Safe Drinking Water Supply' Version 1.0.
- TPDDTEC 'Reduced Emissions from Cooking and Heating Technologies and Practices to Displace Decentralized Thermal Energy Consumption'. Version 4.0.
- SMEC 'Simplified Methodology for Efficient Cookstove' Version3.0

Who is SaniTap

Mission

To **implement scalable business models** that deliver reliable and affordable **WASH services** and **Clean Cooking** to unserved populations, through technology innovation, novel financing mechanisms and last-mile delivery partnerships.

Vision

All people have access to **climate secure clean water** and **clean cooking**.

SaniTap is the Coordinating/Managing Entity for this PoA.



SaniTap

Design Consultation: your input valued



Sanijap

CLEAN

Clean Cooking

Objectives of Design Consultation

- 1. Meaningfully identify, engage and consult stakeholders to improve programme design and outcomes.
- 2. Inform stakeholders and discuss likely programme impacts (positive / negative) during the design, planning and implementation stages, and their relevance.
- Establish an ongoing engagement process to provide input, feedback and to raise concerns throughout the project.



ooking

SaniTap

Without reducing the importance of men, we particularly welcome feedback from women and others whose voice is not normally heard well enough.



Example of VPA within the PoA:

Clean Water Project



:Madagascar

VPA: Clean Water

- Across rural Madagascar, over ten thousand non-functioning water points exist, having fallen into disrepair.
- This project restores broken wells, or construct new, and maintain them for 15+ years, providing clean drinking water to tens of thousands of people.
- There are expected to be multiple small scale and/or micro scale VPAs in Madagascar alone.
- Using the Gold Standard for Global Goals' *Methodology for Emissions Reductions from Safe Water*, VER carbon credits will be generated.
- Sale of the VERs creates an income stream that funds the rehabilitation of non-functioning water points; and ensures their ongoing maintenance;
- The project contributes to 8 UN SDGs, of which 3-4 will be monitored.







The Problem



Thousands of water points have broken down due to lack of spare parts; inability to pay for repairs; poor community management; or lack of technical competence.

IMPACT:

Waterborne diseases are rampant in such villages, and young children are especially at risk.

Without clean water, households are forced to boil dirty water.

CO₂ emissions are produced because firewood and charcoal are used as fuel resulting in **deforestation** and **loss of precious ecosystems**.





Need for Safe Water

Large need for safe water:

- Over 10k existing water points (>60% broken).
- <34% rural people have safe water access.
- Population growth > construction rate.

Scale:

- 1. Phase 1: Well repair for known 4,310 communities in Madagascar
- 2. Each small scale VPA =~ 800 wells
- 3. Phase 2: Additional repair for existing wells: up to **4,000 extra** communities in Madagascar
- 4. Est 25% of handpumps for 200m users are broken across sub-Saharan Africa.



Sustainable Development Impacts of the Project Solution

(or construct new) and maintain them for 15+ year. Instead of charging poor communities the full cost, revenues are earned through the sale of verified carbon credits.

The credits are generated by eliminating the need to boil unsafe water with firewood.

This creates a virtuous impact cycle: more wells generate more carbon revenues, which are ploughed back to maintain more water points....







Explanation of Project Project Technologies

Examples of project technologies:

- 1. Restoration of non-functional (or new construction) of hand pumps, boreholes, wells, (solar) pumped or gravity fed systems, and other community or household systems.
- 2. Piped water systems are included in the possible range of safe drinking water technologies.





Project technologies examples:





CIEA



SaniTap

Explanation of Project Implementation Plan







Sustainable Development Impacts of the Project SDG Monitoring & Reporting plan

We measure impact created across the programme:

- # of pumps repaired.
- # days operational.
- Speed of response in case of repair.
- # of people reached.
- Tons of CO₂ emissions prevented.
- Various parameters for GS Meth

We deploy innovative technology & use apps like mWater & sensors on selected sample wells.



 $\langle \rangle$



SaniTap



Example of VPA within the PoA:

Clean Cooking Madagascar



Problem

In urban areas, most people cook on charcoal. Modern fuels are too expensive.

Charcoal is often produced from unsustainable sources, using inefficient techniques that waste wood – which causes deforestation.

NEGATIVE IMPACT:

- Disease from smoky stoves kills many women and children from Indoor Air Pollution
- **Deforestation** from inefficient charcoal production (1 tons of charcoal needs 10 tons of wood).
- Greenhouse gas emission because wood for charcoal comes mostly from non-renewable sources.
- Increased poverty due to rising charcoal costs (as wood becomes scarce).



Cooking

In Fort Dauphin Households: 20,000 Daily requirement charcoal/hh: 1Kg Daily town requirement charcoal: 20 tonnes Wood required: 200 tonnes/day =73,000 tonnes per year



Introduce cooking on pellets, which use **90% less wood** compared to charcoal.

• When made from sustainably-sourced biomass, the forest-savings are huge.

Introduce modern cookstoves that burn pellets, which are convenient, fuel-efficient (Tier 3 or 4)

• Clean-burning save lives by preventing indoor air pollution.



Tap



Clean

Cooking

SaniTap

Solution: a Sustainable Model



Project technology (pelletising)

The Gold Standard Methodology for *Metered and Measured Energy Cooking Devices* measures fuel used.

- Pellet fuel will be produced from sustainable biomass sources – including some grown by local people.
- Renewable energy will be used to power the production plant.
- Fuel must be readily available and sold at par or cheaper than charcoal.
- Pellets can only be used in special 'gasifying' stoves.



Project Technology (stoves)

Modern gasifying stoves will be used.

- They replace charcoal with sustainably ٠ produced biomass pellets.
- The choice of the stoves impacts ER ٠ calculation (thermal efficiency).
- 'Stove stacking' is immaterial as MECD ٠ will only measure pellets used *not* reducing in charcoal consumption.
- Stoves will be readily available and sold ٠ cheaper than traditional stoves.
- Stoves are convenient (as easy to light as ٠ a gas stove) with great cooking experience.

Forced air gasifier stoves: pollutant emissions reduced by up to 90%.

Clean Cooking





Clean

Cooking

SaniTap

Our Core Business = Impact

Explanation of Project Clean Cooking VPA: Implementation Plan







Sustainable Development Impacts





Sustainable Development Impacts of the Project **Core impacts**





- SDG13 CO₂ and GHG reductions
- SDG15 Reduced deforestation
- SDG5 Improved Gender Equality especially for women and girls affected most
- SDG6 Access to safe drinking water
- SDG1 Reduced expenditure on fuel
- SDG3 Reduced indoor air pollution
- SDG7 Increased access to energy
- SDG8 Increased Employment Opportunities

Each VPA will typically monitor 3-4 SDGs

Positive Impacts on Stakeholders Economic, Social and Environmental

- Household wealth increased. Less time or money spent on fuel allowing income generating activity & education.
- **2. Improved health.** Reduced indoor air pollution as less time is spent boiling water or cooking on inefficient stoves.
- **3. Reduced illness.** Access to safe water and better hygiene practices reduce water-borne disease.
- **4. Reduce time spent gathering fuel** required to boil water enhancing gender equality as this predominantly impacts women, girls and boys.
- **5. Improved gender equality.** The above impacts benefit predominantly women, girls and boys, in addition to improved education and gender responsive activities.
- 6. Increased employment. Job creation throughout the safe water & clean cooking value chains.
- **7. Reduced deforestation.** Less fuel needed for boiling water or cooking: demand for wood reduces.



Cooking

SaniTap



Gender Responsive VPAs





A Gender Responsive Project SDG 5: Gender Equality



Gold Standard projects are required to be <u>gender-sensitive</u>. Projects wishing to quantify Gender Equality impact (SDG 5) must be <u>gender-responsive</u>.

GENDER SENSITIVE

 Objective: prevent adverse impacts on women and men.
 Requires compliance with Safeguarding Principles and consultation requirements.

GENDER RESPONSIVE

 Objective: pro-active approach to improving gender equality and claim contributions to SDG 5.
 Requires to:

 (i) conduct deeper gender analysis.

- (ii) (ii) select gender- targeted project goals and action.(iii) design project-specific gender
 - indicators and parameters

5 GENDER EQUALITY

SDG 5 Mission Statement: "Achieve gender equality and empower all women and girls."

A Gender Responsive Project **Project focus**



5 GENDER EQUALITY



Periodic monitoring and evaluation of impacts to adjust projects

A Gender Responsive Project Project Gender Activities (examples) TBD Clean Clean

SaniTap

CLEAN

WATER



Periodic monitoring and evaluation of impacts to adjust projects

National policies for gender



VPAs will comply with National Policy and Standards

• La constitution de Madagascar reconnait

- dans son article 6 l'égalité homme femme. Tous les individus sont égaux en droits et jouissent ales mêmes libertés fondamentales protégées par la loi sans discrimination fondée sur le sexe, le degré d'instruction, la fortune, l'origine, la race, la croyance ou l'opinion.
 Dans son article 7 : Les droits individuels et les libertés fondamentales sont garantis par la constant de la con
- constitution...

• En 2000, la Politique Nationale de Promotion de la Femme (PNPF) a été mis en place à Madagascar et arrivée à son terme en 2015.

• En 2003, le pays s'est doté d'un Plan d'Action National Genre et Développement (PANAGED) et de Plans d'Action Régionaux (PARGED) pour la période 2004-2008.

•En 2016, la Stratégie Nationale de Lutte contre les Violences Basées sur le Genre 2017- 2021 a été adoptée •En 2018, l'analyse situationnelle de l'égalité femme-homme, préalable à l'elaboration de la Politique Nationale de l'Egalité Femme-Homme 2020-2030 et de son Plan d'Action quinquenal a été initiée.

• Depuis 2019, le pays dispose de sa Politique Générale de l'Etat -Initiative Emergence Madagascar (PGE-IEM) qui inclut dans ses priorités la promotion de la femme et accorde à la femme la place qui lui revient dans la société et dans l'économie en général.

• En 2020, la Loi n° 2019 – 008 du 16 janvier 2020 relative à la lutte contre les Violences Basées sur le Genre a été promulguée.

•En 2023, la stratégie nationale du genre et changement climatique a été publiée. Le document décrit les impacts du changement climatique sur les femmes et les hommes, ainsi que les mesures prises pour intégrer le genre dans les politiques, les stratégies et les programmes relatifs au climat. Il propose également des solutions pour renforcer la capacité d'adaptation des femmes face aux changements climatiques.



VPAs supported by national Gender Experts

• Les croyances et les normes traditionels attribuent

•aux hommes le sexe fort et aux femmes le sexe plus faible (cf: adage malagasy :"les femmes sont des meubles plus fragiles"

•Les hommes gerent et représentent officiellement la famille : la loi relative au mariage et aux regimes matimoniaux les place comme chef de famille³

• Les femmes s'occupant principalement des rôles reproductifs (santé des enfants), tandisque les hommes l'autorité pour prendre les decisions finales sur l'affectation des revenus importants (USAID, 2020)

les travaux mieux rémunérés sont souvent assumes par les hommes alors que les femmes occupent des emplois considérés comme plus faciles (exemple : gestion des infrastructures publiques par les hommes et les travaux de nettoyage par les femmes)
Les femmes et les filles collectent l'eau et dépensent au moins 30mn/jours (USAID, 2020)⁴

•Selon textes législatifs, les femmes et les hommes sont égaux en droit, pourtant dans la réalité, une grande disparité existe. A titre d'exemple,

• Les femmes sont lésées au droit à la propriété : 15% des femmes et des filles possèdent des titres foncier contre 52% chez les hommes (MPPSPF, 2023)¹

Budget temps : la charge de travail des femmes (13h) est plus importante que celle des hommes (10h), due à la gestion du foyer en milieu rural.(FERT –FIFATA, 2020)²
Emploi : les femmes et les filles sont nombreuses dans les activités informelles de

survie avec un taux de 51,70% (Politique Nationale de l'Emploi et de la Formation Professionnelles, 2015)

• Accès à l'éducation (AFROBAROMETRE, 2022)




Safeguarding Principles





Safeguarding Principles and Adverse Risks



Project adheres to all **Gold Standard for Global Goals Safeguarding Principles and Requirements** and seeks Gender Responsive certification.

Few disadvantages of the project except

- The possibility of reduced income to producers of charcoal.
- Fabricators of traditional cookstoves might see a reduction in turnover. They can be encouraged to sell & service improved cookstoves and/or produce sustainable biomass.

SaniTap seeks input from stakeholders to identify additional adverse risks and identify mitigation solutions.

See Details of Safeguarding Principles in Information Pack.





Transfer of carbon emission reduction ownership





Free Prior and Informed Consent **Transfer of carbon emission reduction ownership**

Carbon rights (ownership of carbon emission reduction and other mitigation outcomes) initially **belong to the households that reduce their CO**₂**emissions** by using less firewood and charcoal for boiling water, using clean fuels or improved cookstoves.

- This is because they are the ones taking action to reduce emissions.
- However, to effectively monetize these carbon emission reductions and generate funds to implement Clean Water and Clean Cooking projects, the ownership of these carbon rights needs to be transferred to SaniTap.



End-users need to enter into an agreement with SaniTap, transferring 'Full and uncontested legal ownership of any Products' that are generated under Gold Standard Certification (VER carbon credits), in return for the subsidised / freely provided services or technologies. Users must also agree to data collection which will be required to monitor the project activities.



Feedback and Grievance process





Continuous Input and Grievance



SaniTap established a process for stakeholders to submit feedback or to record concerns/grievances during the entire project lifetime.

- 1. A Continuous Input and Grievance Expression Book and telephone number will be available at each VPA location.
- 2. Email to stakeholder.consultation@sanitap.org.
- 3. SaniTap can also be emailed at CleanWaterCleanCooking@sanitap.org.
- 4. Mail can be sent to: SaniTap Ltd, Hamptons Farmhouse, Park Rd, Hadlow, TN11 9SR. United Kingdom.
- 5. Grievance will be treated confidentially and can be submitted using the feedback form or by email at <u>confidential_grieveance@sanitap.org</u> or by telephone to the Grievance Officer at SaniTap or any Director of the company.





Questions and Answers

sanitap.



Sanifap.

Information on next steps



Next steps

- 1. The 'first-round' feedback from the physical Stakeholder Consultation meeting including feedback from those unable to attend the meeting will be consolidated. SaniTap will respond to this feedback, circulating its response.
- 2. Stakeholders can then provide **'second-round'** feedback **over the following 30 days** (ie feedback on SaniTap's response to the first-round feedback).
- 3. Subsequently, SaniTap will submit a **Stakeholder Consultation Report** to Gold Standard. This will be **published on the Gold Standard Registry.**
- 4. All stakeholders can provide further feedback at any point over the full duration of the Project, through the feedback and grievance processes detailed in previous slide.



Feedback





What we will do with the feedback: next steps

- SaniTap will aim to respond to all feedback promptly and individually
- All feedback will be digitised and held on the SaniTap systems for transparency and may be used for audit purposes by Gold Standard as part of the registration process.

SaniTap

Cooking

- SaniTap will review and evaluate all feedback for potential incorporation in the design of the PoA and subsequent VPAs
- All attendees of the Design Consultation will receive consolidated feedback and SaniTap responses so that further feedback can be given (another 30 days minimum).
- SaniTap will inform all stakeholders of the 2nd round feedback and SaniTap response and use of the feedback.
- All feedback and SaniTap's response to the feedback will be made publicly available through the Design and Stakeholder Consultation Reports which will be published on the Gold Standard Impact Registry

We look forward to receiving your helpful feedback, concerns, comments or advice.

Evaluation - Collecting Feedback Today

- 1. Please complete the Feedback Forms available at the meeting today
- 2. Or use the Feedback form using the QR Code
- 3. Face-to-face feedback can be given to any members of the SaniTap team, including independent representatives of WaterAid
- Feedback can be given to any members of the independent Malagasy Expert Gender Stakeholders team (SiMIRALENTA) during or after the Stakeholder Consultation meeting

Stakeholder Feedback Clean Water Clean Cooking SaniTap

SaniTap



SaniTap will aim to respond to all feedback promptly

info@sanitap.org





Suppressed demand support low-carbon development for poor communities, who lack access to enough energy to meet their basic needs. They should not have to increase their emissions before they can benefit from carbon markets.

Without 'suppressed demand' we would have to encourage people to boil water (using non-renewable biomass) – causing emissions and deforestation. ONLY THEN would we be able to start a carbon program...

Suppressed demand enables projects to avoid such unnecessary future deforestation and emissions and get people clean water NOW instead of years later.