

Local Stakeholder Consultation for Installation of High Efficiency Wood Burning Cookstoves in Thailand

VERRA/Voluntary Carbon Standard (VCS)



CQuestCapital



Purpose of the Meeting



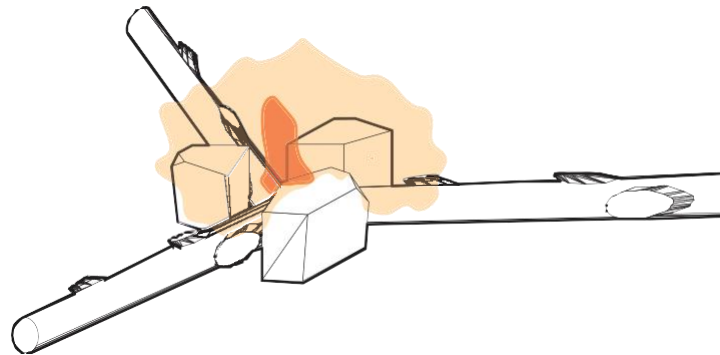
- To explain the background and purpose of our improved cook stove project in Thailand
- To seek feedback from participants on project design and implementation
- To address questions from participants about the proposed project and its implementation



The Baseline



- Approximately 24% population in Thailand depend on solid fuel as their primary energy source for cooking. Of this, almost 75% percent use firewood/charcoal in inefficient traditional cookstoves for preparing meals.
- Open fires achieve only partial combustion of woody fuel, releasing toxic particles (PM2.5) reaching 400 ug/m, 20 times WHO air pollution standards.
- Consistently breathing in wood smoke can cause diseases such as stroke, ischemic heart disease, chronic obstructive pulmonary disease (COPD) and lung cancer.



Geographic Scope

Improved cookstoves will be disseminated across Thailand with a focus on rural communities that use traditional, open-fires.



The Project Stove: Kuniokoa



- The Kuniokoa is a natural draft “rocket” wood burning made of stainless steel metal.
- The Kuniokoa is cleaner and more efficient than any other natural draft rocket stove produced today.
- The Kuniokoa stove is produced in Kenya by Burn Manufacturing, a USA registered company.



The Project Stove: Kuniokoa

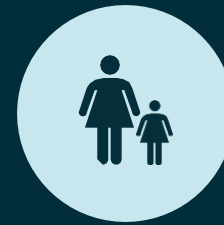


- The Kuniokoa with pot skirt has a thermal efficiency of **48%**.
- Burn Manufacturing Co, estimates the lifespan of the stove to be 10 years.

**Portable/fixed Stoves of make other than Kuniokoa, may be considered for distribution under the project at a later stage depending on performance, demand and uptake of technology by the end user community.*

The Benefits

- The Kuniokoa stove and better-ventilated kitchen lowers the incidence of respiratory and heart disease, premature and underweight birth, blindness and reduces the risk of burns and indoor air pollution.
- Switching to twigs and crop residues eliminates the burden of gathering firewood over long distances, reducing the risk of muscle and spinal damage, and reducing risk of physical abuse. Women can regain ~2 hours per day that can be used for other productive activities and needed rest.
- The Kuniokoa stove enables cooking to be fueled with small-diameter branches, twigs and crop stalks and corn cobs that are fast growing, readily available and 100% renewable.



Reduction of health risks to women and girls -including risk of abuse while collecting firewood.



Reduced exposure to smoke inhalation.



Proven time savings in cooking related activities.



Reduction in labor required for collecting fire wood for women and girls.



Fuel switching to sustainable crop residues and small diameter wood.

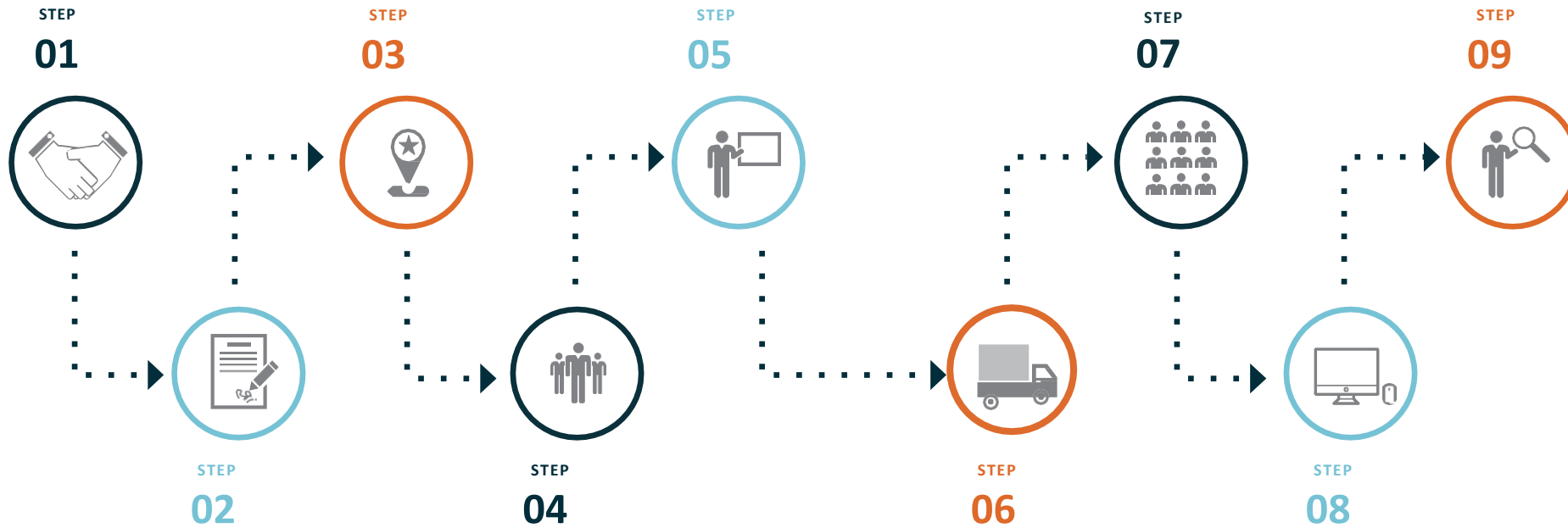


Decrease deforestation through minimal impact on natural resources.



Climate change mitigation from avoided greenhouse gas emissions.

Project Implementation



STEP 01 Finding Partners
Partnership is formed through conversation and exploration of collaboration.

STEP 02 Terms of Agreement
Terms of agreement and contract signed by all parties.

STEP 03 Location
Determine location of implementation.

STEP 04 Sensitization
CQC and partner to follow cultural customs and navigate local authorities.

STEP 05 Trainer of Trainers
Training of trainers.

STEP 06 Stove Delivery
Stove parts are delivered to partner organization for implementation.

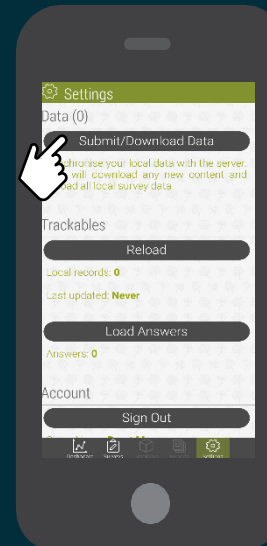
STEP 07 Implementation
Implementation and distribution of cookstoves.

STEP 08 Registration
Constructed and in-use stove registration and third-party review of collected data.

STEP 09 Verification
Verification and issuance of Carbon Credits.

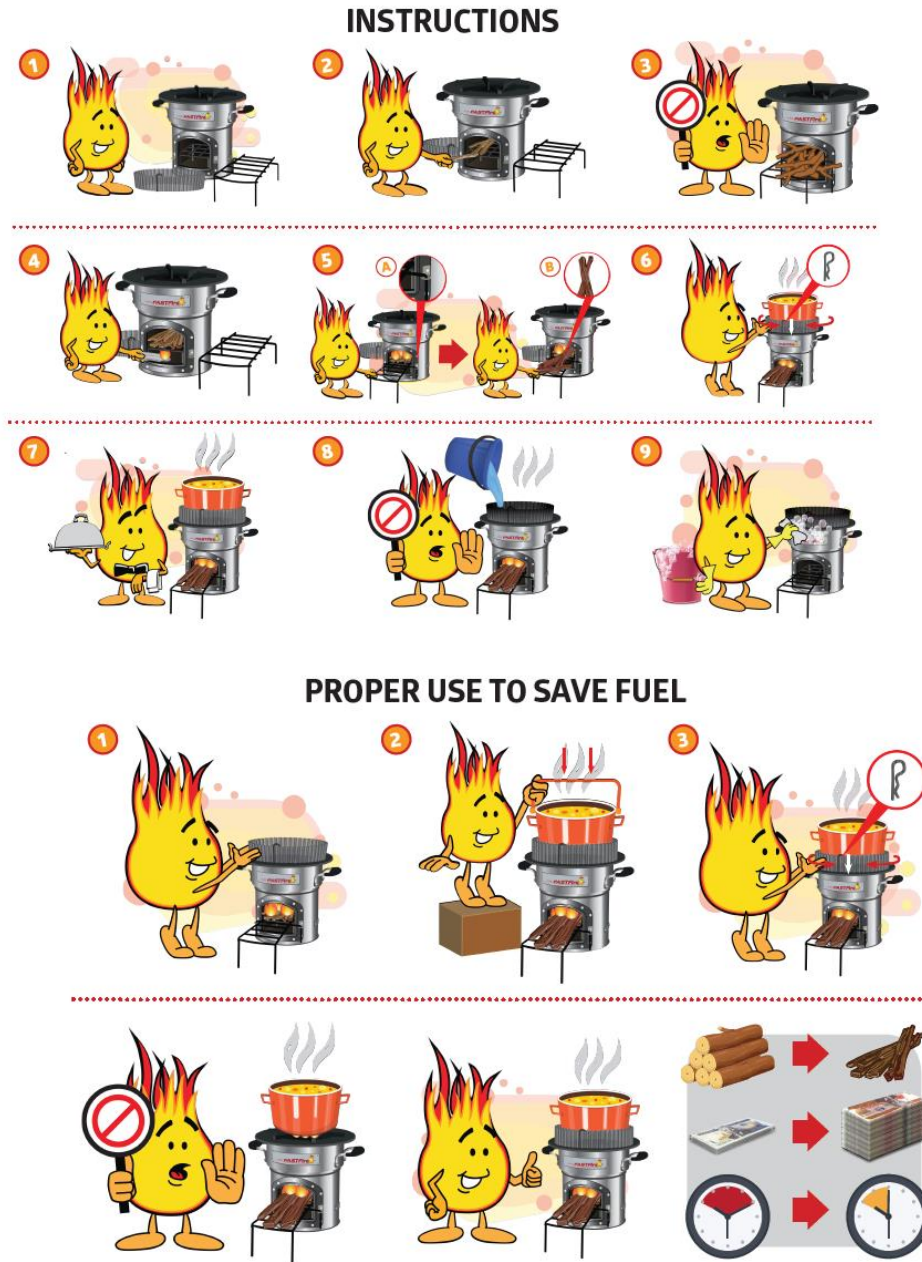
Project Implementation

- Implementation partners work closely with local authorities to distribute stoves to rural communities at a central location within a village or district.
- The registration of each stove includes assigning a unique serial number and collecting end-user information including location information, signature/thumbprint, photographs and date of installation.
- Registration information is collected via a Smart Phone App and it is submitted to a cloud database.



Project Implementation

- Each household is provided a double-side A4 flyer in pictorial form from CQC's local partners on how to use and maintain a Kunioko Stove.
- In addition, stove demonstrations and explanation of how to use the stove are explained at the distribution event.
- And the Implementation Partner will visit every household soon after the distribution and once every year thereafter to ensure proper usage and maintenance.



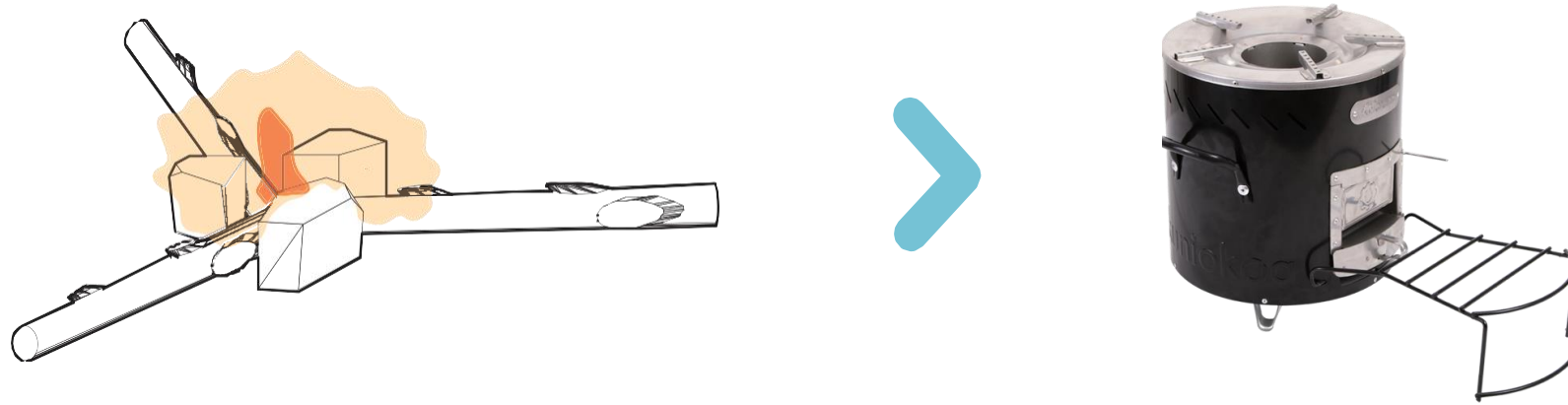
Example flyer

How the Project is Financed - Carbon Finance

Carbon credits are used to finance the distribution of improved cook stoves in Thailand.

The project generates carbon credits by:

- Reducing the amount of fuel from non-renewable sources that is used for cooking by switching from an open-fire (e.g. three-stone fire) or traditional pot support to an improved cookstove, which
- Reduces greenhouse gas emissions (mostly carbon dioxide) that contributes permanently to the stock of carbon dioxide in the atmosphere.



This results in **VCUs** or **Carbon Credits**

How Revenue from Carbon Credits is Used

- Improve stove affordability and availability to a wider range of households
- Finance training on use and maintenance of improved stoves
- Finance project management & dissemination to targeted beneficiaries
- Finance ongoing monitoring, verification of use, and communication about good stove maintenance



VERRA/Voluntary Carbon Standard (VCS)

- We will register the project under VERRA/VCS - <https://verra.org/project/vcs-program/>
- The VCS is a voluntary greenhouse gas accounting standard managed by Verra, a 501(c)(3) not-for-profit organization formed in 2005 and headquartered in Washington, DC.
- The project will apply VCS methodology: VMR0006 Methodology for Installation of High Efficiency Firewood Cookstoves - <https://verra.org/methodology/vmr0006-methodology-for-installation-of-high-efficiency-firewood-cookstoves/>
- This methodology accounts for CO₂, Methane, and Nitrous Oxide Emission Reductions from the reduced consumption of non-renewable biomass

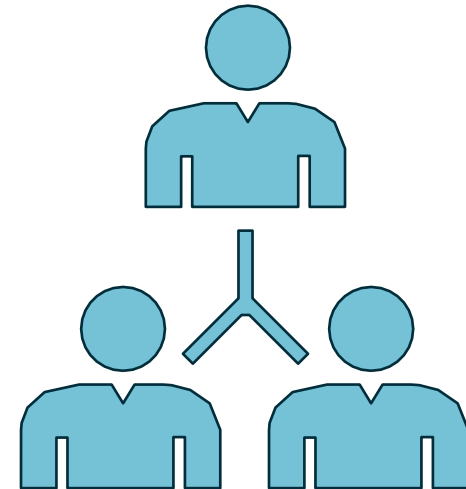


**Verified Carbon
Standard**
A VERRA STANDARD

Constant Communication

Local stakeholders can continue to engage with the project through the following ways:

- C-Quest Capital's contact information provided at the end of this presentation
- Through local, implementing partners, once they have been identified
- Contact information that is provided to all end-users and stakeholders during the implementation of the project



Project Partners

Project Implementation:

- **CQC provides the following support:** start-up investment capital, carbon asset development and management, project supervision, contract management and carbon issuance and monetization.
- **Local Implementors:** identification of target areas, distribution of stoves, train households and communities in stove use and maintenance; register stoves in data bases to enable monitoring performance and provision of parts and maintenance, conduct spot checks and annual monitoring, and facilitate carbon auditor verification
- **Key Government Departments (e.g. Environment, Energy, Forestry):** ensure compliance with sector policies and regulations



Who is C-Quest Capital?

C-Quest Capital (CQC) is a Washington DC headquartered social impact-investment enterprise with operational platforms in developing countries and a strong focus on transforming the lives of the rural poor.

Our Mission

To transform the lives of the world's poorest people by providing them access to sustainable energy services and clean energy technologies.

Our Team

Our Team is comprised of engineers, scientists, lawyers, auditors, and financial analysts specialized in climate and environmental finance, and energy sector project planning and management. Our Senior Managers include founding members of the World Bank's carbon finance business that pioneered the methods, processes, and documentation for carbon asset creation and monetization for North-South trade in carbon emissions reductions under the Kyoto Protocol.

We use our unique experience as pioneers in carbon market development and structured finance for development to conceptualize and pilot new products and markets for verified outcomes in the energy, land use, and health sectors under pay-for-performance contracts.

CQuestCapital



Sustainable Land Management

Fostering Regenerative Agriculture to sequester atmospheric carbon in the form of soil organic carbon across smallholder and broadacre farms



Efficient Lighting

Improving lighting quality, reducing electricity bills, increasing disposable income



Cleaner Cooking

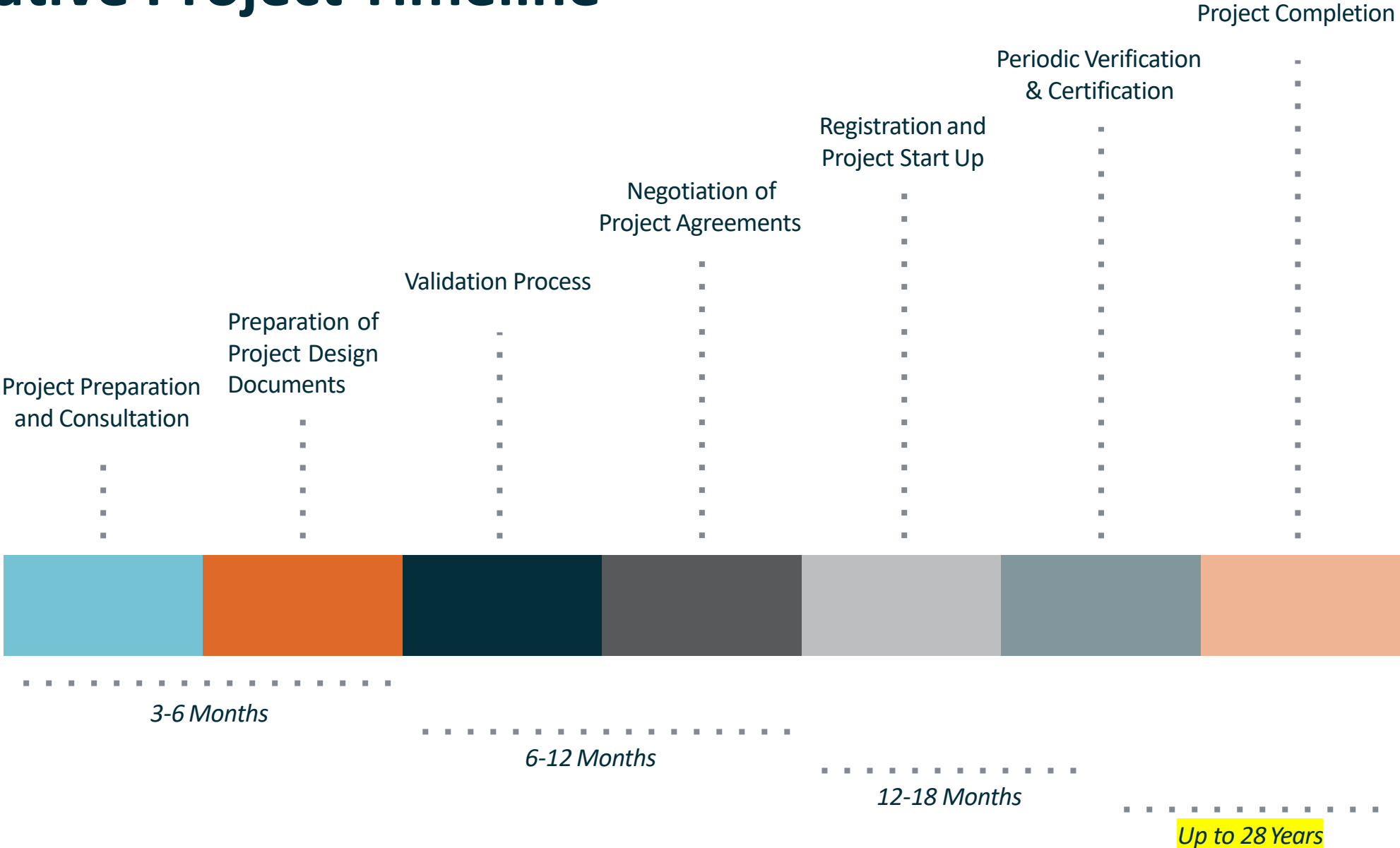
Improving maternal and child health and well-being, reducing drudgery for women and girls, reducing deforestation and land degradation



Sustainable Energy

Creating local jobs, reducing energy costs, improving reliability, and decarbonizing energy supply

Indicative Project Timeline



Next Steps

- Incorporation of feedback & advice received from this Stakeholder Meeting
- Consultations with Government Authorities/Departments to ensure compliance with Sectoral Policies & Regulations on the Environment and natural resources
- Finalize Project Design Documentation
- Preparation / submission to VERRA/Voluntary Carbon Standard
- Consultations with investors to secure funding to meet project targets and objectives



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