

### Project Summary

Required information	Provided information
<b>Name, title and address of developer.</b>	<p><b>Name:</b> James Beaumont</p> <p><b>Title:</b> CEO</p> <p><b>Address of Developer:</b> Unit 2, The Old Dairy, Church Lane Lower Fyfield, Marlborough SN81PX UK</p> <p><b>N.B:</b> Manna Energy Ltd has been contracted by DelAgua Health and Development Program to implement this project. Manna Energy Ltd is registered in Rwanda and located in UTEXRWA Compound, P.O. Box 1594 Kigali, Rwanda</p>
<p>Name, purpose, objectives and nature of project, including attributes such as size of project, design, activities that shall be undertaken during and after the establishment of the project, products and inputs, sources of inputs, etc.</p>	<p><b>Project name:</b> DelAgua Public Health Program in East Africa.</p> <p><b>Project Purpose:</b> To address waterborne and respiratory diseases, Unicef 2011 report ranked as the first two critical public health challenge in developing countries</p> <p><b>Project Objective:</b></p> <p>To distribute point of use water treatment and high efficiency cook stoves to approximately 600,000 households (3 million residents).</p> <p><b>Nature of project:</b></p> <p>This project consists of importing and distributing household high-tech water filters and high efficiency improved cook stoves. The project qualifies under the Clean Development Mechanism (CDM) methodologies, III.AV “Low greenhouse gas emitting water purification systems,” and II.G “Energy efficiency measures in thermal applications of non-renewable biomass” are utilized in this project. These methodologies allow for crediting of water</p>

treatment systems and improved cook stoves reducing the use of kerosene, LPG and nonrenewable biomass for boiling. These methodologies are applied through a Program of Activities (POA) and Certified Project Activities (CPA).

**Project Size:**

This project aims at covering all of the following districts in the Western Province: Rutsiro, Karongi, Ngororero, Nyamasheke, Nyabihu (excluding part of the district to the north of the Ruhengeri road), and Rubuvu (excluding part of the district to the north of the Ruhengeri road), and the following districts in the Southern Province: Nyaruguru, Nyamagabe, Muhanga, Ruhango, and in the Northern Province: Gakenke.

**Design:**

The project is in partnership with the Government of Rwanda Ministry of Health and being developed by Manna Energy Limited, a social enterprise that pioneered carbon financed water treatment in Rwanda. The project is designed in such a way that it matches with existing health national programs such health care (Mutuel de Santé) and is implemented using health system under Maternal and Child Health Department of Ministry of Health.

**Activities:**

DelAgua is currently developing this program, with a targeted validation by the end of 2012, and submitted for registration by January 1, 2013 at United Nations Framework Convention for Climate Change Secretariat.

DelAgua has completed a training program for Environmental Health Officers (EHO) and Community Health Workers (CHWs) in Western Province in both cookstove and water filter technologies, baseline survey enumeration and smartphone application for

monitoring and follow up. CHWs and EHOs carried out a total of 400 baseline surveys in all seven districts of Western Province.

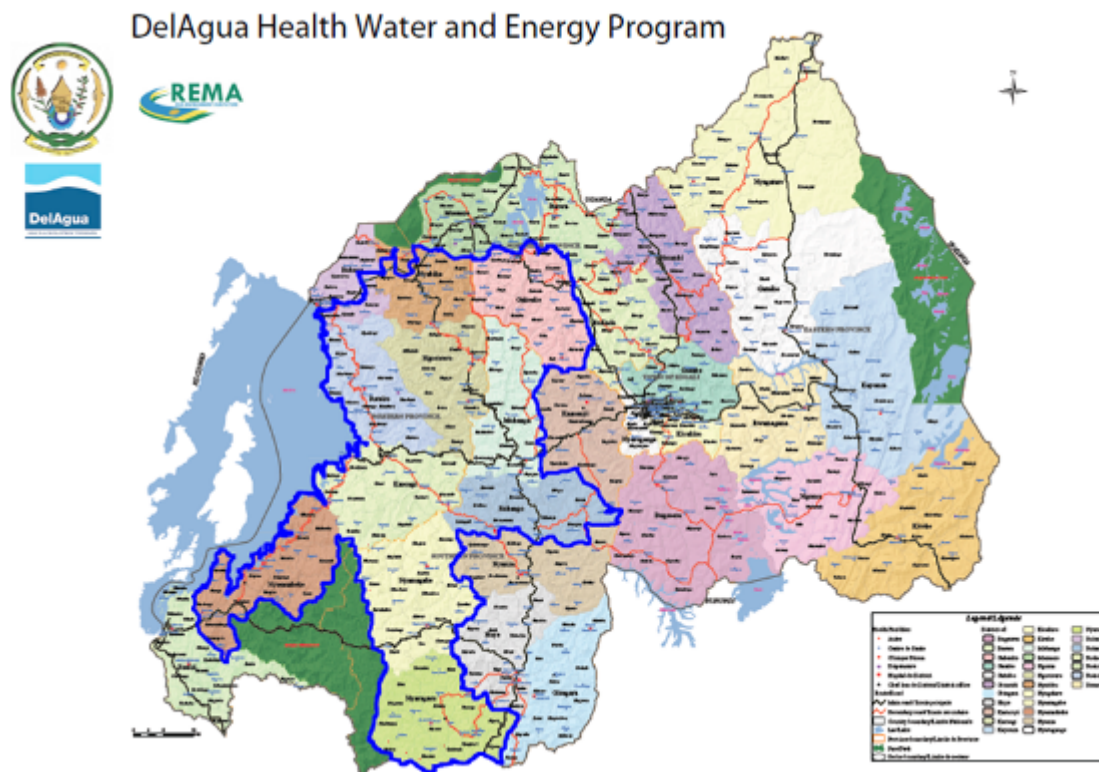
The project trained CHWs have completed field performance trials (pilot) involving education, training and deployment of cookstoves and water filters to 100 households in Karongi District in Western Rwanda. CHWs and pilot end-users were present at the stakeholder meeting to provide feedback on the program. The goal of the field performance trial is to measure end-user uptake of products, test product efficiency and determine effectiveness of distribution and the Community Health Worker education plan.

A second pilot of 2,000 households covering all districts in the program boundary is scheduled for October 2012. The project will undergo registration as a regular cycle project. Implementation of the second pilot will occur prior to registration. Emission Reductions for the second pilot will be retroactively claimed from the date of the distribution.

During full deployment of high efficiency improved cook stoves and high-tech household water filters scheduled in July 2013, distribution centers will be established in each program district. The same centers will be used for replacement of damaged stoves or filters so that they can be sent to a contracted local recycling factory if any or channeled back to manufacturer. All the stoves are designed from USA and assembled in China. They will consequently be imported from China to Rwanda.

Description of the proposed project site and its surroundings and alternative sites, if any, where the project is to be located.

Below is a map showing project boundaries. It



Description of how the proposed project and its location conform to existing laws, regulations and policies governing such project and the use of the site/area proposed for its location.

1. Since the project will import and distribute environmental friendly equipment, this project comply with both ministerial Order N° 004/2008 on Establishing the list of works, activities and projects that have to undertake an environmental impact assessment and the Ministerial Order N° 006/2008 on regulating importation and exportation of ozone layer depleting substances, products and equipment containing such substances.

	<p>2. The project will promote gender and youth through employment and education component of the program that matches well with Rwanda Economic Development and Poverty Reduction Strategy (EDPRS) and Vision 2020.</p>
<p>Any likely environmental impacts that may arise due to implementing various phases/stages of the project and proposed mitigation measures thereto.</p>	<p>A potential environmental impact that may arise is throwing plastic parts of the water filters into the environment after their lifespan. However the project developer has considered this risk and the proposed mitigation measures is that all stoves and filters will be barcoded and tracked with GPS coordinates of each recipient household. During replacement phase expected in year 4 after full deployment, new stoves and filters will be given out only upon presentation of used or damaged stoves and filters received previously. Expended units will be recycled as per Rwandan regulations. We have a monitoring methodology supported by a smart phone technology that is easily used by local community health workers.</p>
<p>Description of any other alternatives, which are being considered (e.g. siting, technology, construction and operation procedures, sources of raw materials, handling of wastes etc., decommissioning/closure and site restoration).</p>	<p>We are working with district and local authorities through district health director to select distribution centers locations. We will not use local raw material since all project stoves and filters to be distributed will be imported. The project will not generate wastes and therefore not reason to handle wastes.</p>
<p>Any other information that may be useful in determining the level of EIA required.</p>	<p>This project will not change physical morphology and will never use any kind of chemical.</p>