

## SUMMARY OF THE PROJECT IN DESIGN \* (\*)

### BlueTech Challenge: Fuego del Sol Haiti Ultra-Efficient Biomass Combustion

<b>PITCH ELIGIBILITY DATE</b>		<b>COUNTRY(IES)</b>
08/24/2022		Haiti
<b>ALIGNED WITH COUNTRY STRATEGY?</b>		
Yes		
<b>PARTNER(S)</b>		
Fuego del Sol Haiti S.A.		
<b>PRELIMINARY CLASSIFICATION ENVIRONMENTAL AND SOCIAL IMPACT</b>		
B (**)		
<b>TOTAL BUDGET</b>	<b>IDB Lab</b>	<b>LOCAL COUNTERPART AND COFINANCING</b>
US 1,400,000	US 600,000	US 800,000
<b>DESCRIPTION</b>		

**The problem** In Haiti, as in many countries in the world, medical waste, e-waste and plastic waste are generally dumped or burned. Additionally, many materials related to industrial activities such as lubricant, which could be recovered for clean reuse, are also wasted needlessly. Practically all recycling equipment and systems available internationally require fuel or electricity to operate. The need is great for off-grid TurnKey: recycling and waste incineration solutions.

**The solution** Fuego del Sol (FdS) solutions address environmental, health, and economic problems. FdS already produces the largest volume of recycled paper products in Haiti. By implementing a proven plastics processing technology, FdS can expand into producing recycled plastic products.

FdS's prototype plastic recycling system, is the first globally that utilizes clean ultra-efficient biomass briquettes as the heating source to cleanly melt plastic into usable items. FdS has successfully achieved basic plastic molding and has products in development. All the products will be designed to either be used on a long-term basis locally or be easily recyclable into another generation of products.

**The beneficiaries** The FdS model can provide long-term healthy ergonomic jobs as it is self-sustainable and utilizes locally available resources.

Recycled briquettes save thousands of trees as an alternative to charcoal. The health of the population in vulnerable communities is also protected as FdS briquette stoves cook producing zero household air pollution.

**The partner** FdS has over 15 years' experience working on the island of Hispaniola. Fds is the current US Embassy and UN recycling contractor for all their P-a-P locations.

\*The information mentioned in this document is indicative and may be altered throughout the project cycle prior to approval. This document does not guarantee approval of the project.

\*\*The IDB categorizes all projects into one of six E/S impact categories. Category A projects are those with the most significant and mostly permanent E/S impacts, category B those that cause mostly local and short-term impacts, and category C those with minimal or no negative impacts. A fourth category, FI-1 (high risk) Financial Intermediary (FI)'s portfolio includes exposure to business activities with potential significant adverse environmental or social risks or impacts that are diverse, mostly irreversible or unprecedented, FI-2 (medium risk) FI's portfolio consists of business activities that have potential limited adverse environmental or social risks or impacts, FI-3 (low risk) FI's portfolio consists of financial exposure to business activities that predominantly have minimal or no adverse environmental and social impacts.

Precious Plastic offers open source small-to-medium scale plastic recycling machines used and adjusted by FdS to fit its needs.

With the support of CONCERN Worldwide, FdS expanded operations to partner with SAKALA Community Center located in Cite Soleil.

**The IDB Lab's contribution** The current project has \$40,000 in seed-money from CONCERN Worldwide with additional partnerships and more potential funding available. The business will be financially sustainable from this initial startup funding.

FdS estimates the total project to cost \$1.4M with a \$600k contribution from IDB Lab, and the remaining \$800k as co-financing/counterpart contribution. IDB Lab's financing would consist of a \$500k contingency recovery investment grant (CRIG) and a \$100k non-reimbursable TC.

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