



BRIEFING PAPER

Haiti Trip June 8-18, 2010

The Project Gaia team visited Haiti June 8-18, 2010, to organize pilot projects and prepare the way for manufacture and development of the ethanol-fueled, energy-efficient, user-friendly CleanCook stove in Haiti under local ownership. Project Gaia was accompanied by HAES (Haitian American Association of Engineers and Scientists), William Mebane of the Marine Biological Laboratory (MA) and Paolo Moresco of Dometic AB/Dometic Group.



Students and staff at Grace International's young women's orphanage in Carrefour participate in a demonstration of the CleanCook stove.



Project Gaia met with members of the Haitian Ministry of Women's Affairs, which agreed to assist with the CleanCook stove project. They will invite the ministries of Agriculture and Environment to participate.

KEY ACCOMPLISHMENTS OF TRIP

- Identified **pilot sites for the initial donation of stoves** (approximately 1,440 units) **and ethanol** from Brazil (100,000 liters):
 1. **Harmony Elementary School** in Marigot, near Jacmel, southern Haiti.
 2. **Grace International's** school and compound in Carrefour and its new "sustainable model village" of 280 acres in Léogâne. Grace also plans to install a modern microdistillery using their abundant sugar cane crop to make and use ethanol fuel cooperatively among 5,000 families.
 3. **Kay Nou ("Our Home")** compound, part of the Brazilian NGO **Viva Rio** that provides a variety of social services to more than 500 families in a secure setting in Port-au-Prince. Viva Rio has a good services delivery system already in place, has cooks who come to the compound each day, has well-established networks in the city, runs a series of environmentally progressive projects and is equipped with heavy duty trucks.
- Identified **local stove factory** to first assemble, then produce the stove in cooperation with Dometic.

The Haitian American Association of Engineers and Scientists (HAES) identified Jean Claude Etienne, Machine Technology and Application Corporation (MTAC) in Port-au-Prince, which has modern machinery, ample factory floor space and good warehousing. Dometic (the owner of the ethanol stove technology) has agreed to sign an agreement and begin working with MTAC to assemble and then manufacture the stove in Haiti.

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KEY ACCOMPLISHMENTS (continued)



Cooks come into the Viva Rio compound to prepare hot meals for staff and residents. Currently they must rely on charcoal.



Viva Rio director Pedro Penna and energy expert Valmir Fachini with a Haitian colleague, showing the CleanCook stove.



Owner Michael Moscoso shows the Project Gaia team through his distillery in Léogâne, the largest in the area. Fermentation vats are shown. This distillery can produce fuel-grade ethanol.

- Identified **an owner, distributor/retailer** of both stoves and ethanol fuel:

SIMACT SA, a Haitian-American investment group already invested in Haiti, with important government connections and commercial networks in the country, will sign an agreement with Dometic to own and run a stove and ethanol fuel business in Haiti. It may pioneer other Dometic products as well. It takes on this business as part of its ambitious economic and social programming for Haiti.

- Through meetings, conference, networking and site visits, the team **determined resources for and established key contacts** in the following areas:

1. Currently operational **distilleries** for producing fuel-grade ethanol and opportunities for establishing new, modern and efficient micro distilleries using rotational crops (sugar cane, sweet sorghum manioc, etc.) and waste streams (discarded fruits from the city market).
2. Opportunities in **business and reconstruction** with assistance from multilateral organizations, the Haitian, Brazilian and U.S. governments, and NGOs. These include Brazil's Ministry of External Relations Energy Office, UNICA, the International Rescue Committee (IRC), the U.S. Department of Commerce, the U.S. Agency for International Development and the Haitian Ministry of Women's Affairs, which will invite the ministries of Agriculture and Environment. Helping to facilitate opportunities for Project Gaia and SIMACT is the Public Private Alliance Foundation (PPAF), associated with the U.N.
3. Help with **on-the-ground project organization**, market chain development, and designing to the "base of the pyramid." Key partners include the IRC, the Instituto Haitiano de Desarrollo Integral (IHDI), Viva Rio and other project-based NGOs.
4. Identification of logistical assistance in the storage and handling of fuel and stoves from port to pilot sites. Partners include SIMACT, Hands on Disaster Response in Léogâne and other partners.