

Bottling the Power of the Sun



→ Liter of Light redesigns solar lighting for the developing world using plastic bottles. The simple design creates local jobs and teaches green skills.



ENVIRONMENTAL

Discarded plastic bottles are reused and upcycled to a daylighting system in 10 minutes.



SOCIAL

Liter of Light prevents fires and inhalation of toxic fumes from kerosene lamps.



ECONOMIC

Each lamp saves households \$10 monthly in electricity costs and 200 kilograms of carbon emissions per year.

A Liter of Light is a plastic bottle filled with water and a bit of bleach. Inserted through the roof, each **solar bottle refracts sunlight** with the intensity of a 55-watt light bulb. Using simple tools and basic carpentry skills, volunteers and local entrepreneurs can light up their communities for just \$2. The **nighttime upgrade with a solar panel** retails at \$10. Built by grassroots entrepreneurs and women's groups in the Philippines, the cost of finished goods are reduced by 40%.

Liter of Light has grown from one home in Laguna, Philippines, to **350,000 lights in 10 countries** in just 20 months. Three hundred and seventy grassroots solar entrepreneurs are trained in 20 months, with each entrepreneur servicing an average of 11,000 homes per year.

Why a Sustainia100 solution?

Over 1 billion people around the world suffer from lack of access to energy, including 15 million people in the Philippines. Energy poverty will only be solved by using local materials, easily replicable technologies, and livelihood-generating enterprises. Liter of Light is helping end energy poverty one bottle at a time.



Developed in Philippines

Deployed in **Indonesia, Cambodia, Bangladesh, India, South Africa, Kenya, Colombia, Peru, Mexico, Spain**

