



PROVISION OF WATER AND
ENERGY FACILITIES TO RURAL
COMMUNITIES IN DEVELOPING
COUNTRIES

IMPROVING THE LIVING CONDITIONS OF COMMUNITIES



The Context

Remote communities in developing countries suffer from a **difficult access to the most basic services**: getting water, sanitation or electricity is a daily struggle.

Poor access to electricity has **dire consequences**: safety and education for instance are impacted by this issue. The lack of sanitation facilities increases the **risk of waterborne diseases** and the child death rate.

The people most impacted by these issues are also the most vulnerable ones, and the ones that need to be taken care of.

Our solution for energy

The Modular hybrid energy container provides free energy to remote communities or refugee camps. Based on transportable shipping containers, it includes a complete Solar Photovoltaic System.

Thanks to its shape, it is **easy to transport** over long distances by sea or by truck. To ensure a reliable energy supply, a battery bank can be added, or the installation can be linked to a power generator to **reduce the dependency to fossil energies**.

After assessing the needs, Enviroearth can **adapt the system** and **design the best solution** to meet the demand.

This installation is a **turnkey, highly efficient** system to provide remote communities with a **long-term, reliable and affordable access to electricity**.

Treatment of wastewater

Treatment of wastewater is often neglected, in favour of other seemingly more urgent issues. However, an unhealthy environment has dire consequences. By increasing the risk of waterborne diseases, the cost of medication rises and income decreases due to unworked days. It is also a matter of dignity.

Our innovative solution at Enviroearth consists in using a **fully natural process**: the filtration of organic particles by bamboo. This **low-carbon technology** is **culturally adapted** to tropical areas, **easy to implement** and **creates income generating Activities** from the sales of bamboo. It is a step to a virtuous circle leading to the **sustainable development** of the community.

Our Expertise

Enviroearth is an energy and environment engineering company. From design to implementation, we involve and coordinate technical experts and civil works onsite installation, providing an integrated plan and taking in charge the overall project for our customers: UN Organisations, NGOs, refugees and military camps, scientific institutions, rural communities, industries...

Our Added Value

Thanks to their 15-years on-site experience gained in the most remote areas in the world (Tristan Da Cunha Island, Easter Island, Paraguay, Papua New Guinea, Kenya, Ivory Coast, Madagascar...), our engineers integrate practical, easy-to-use and environment-friendly turnkey systems, dedicated to isolated sites for the production of green energy and the treatment of waste and wastewater.

A reliable energy system fully customizable depending on your needs	
Size of the container	8Ft, 10 Ft, or 20Ft Optional sound proofing for engine
Power of the solar farm	0.6 kWp to 10.8 kWp MPPT Solar Charge Controller
Backup generator	6.8 to 52 kW _e - 120/240 V AC Single phase or three phases Fuel tank: 250 to 1,000 Litres
Battery bank	5.5 kWh to 44 kWh 24V or 48V Automatically ventilated battery bank enclosure