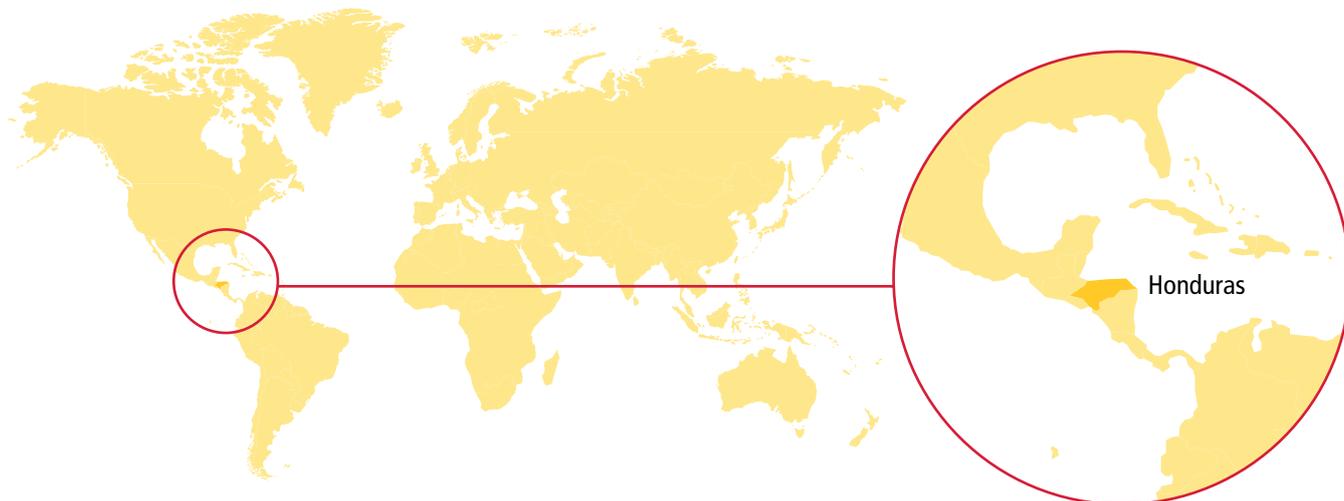


# GOGREEN CLIMATE PROTECTION PROJECT: BIOSAND WATER FILTER IN HONDURAS



In order to provide our climate neutral service GoGreen, we need carbon credits to offset the greenhouse gas emissions that result from transport and logistics services for our customers. We obtain these carbon credits by investing in certified climate protection projects such as this biosand water filter project in Honduras.

Project type	Energy efficiency
Project technology	Biosand water filter
Project location	Honduras
Project goal	To reduce CO <sub>2</sub> emissions by using water filters instead of boiling water with firewood
Project standard	Verified Emission Reductions (VER) Gold Standard (GS 1290)



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**Gold Standard**  
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# GOGREEN CLIMATE PROTECTION PROJECT: BIOSAND WATER FILTER IN HONDURAS



## Project description

In Honduras, many low-income households do not have access to clean drinking water. Every day, people of all ages, especially children, are exposed to the risk of being infected with waterborne diseases. Traditionally, drinking water is boiled on wood-fired stoves to limit the risk. The burning of wood, however, generates CO<sub>2</sub> emissions as well as air pollutants which result in significant health risks, especially in the case of indoor fireplaces. Additionally, firewood is often obtained in an unsustainable manner, which again has a negative environmental impact – locally as well as globally.

The Hydrail® BioSand water filter is a zero energy filtration system. It consists of enclosed layers of sand, gravel and biological organisms such as algae or plankton that consume pathogens to purify the water. The water filter has a lifetime of over ten years and requires minimal servicing after its installation. Thus, it provides a CO<sub>2</sub> emission-free alternative to boiling water.

In addition to the climate protection aspect, the project contributes to the well-being of the local population. The provision of safe drinking water along with the prevention of air pollution from the smoke of wood-fired stoves improves quality of life. The use of water filters reduces the need for firewood or other fuels, which has a positive effect on the population as well as on the environment. Moreover, the project creates employment from the sale and maintenance of the water filters.

## Additionality

The establishment of a comprehensive water filter program leads to higher costs and special technical requirements for manufacturing. The project could not have been realized without the additional revenues generated from the sale of carbon credits. Thus, the project fulfills the additionality criterion of the Gold Standard: CO<sub>2</sub> emission reduction provided by avoiding the burning of wood for water treatment is in addition to what would otherwise occur or that is regulated by law.

## Links

[dpdhl.com/gogreen-projects](https://dpdhl.com/gogreen-projects)  
[mer.markit.com/br-reg/public/master-project.jsp?project\\_id=103000000000032](https://mer.markit.com/br-reg/public/master-project.jsp?project_id=103000000000032)



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