



EWWR good practices and case studies

1. Details of Action:

EWWR Coordinator: Lipor – Serviço Intermunicipalizado de Gestão de Resíduos do Grande Porto
Country/Region: Portugal / Porto
Name of nominated action developer: Educafrica, ONGD
Name of nominated action: “A drop of Light”
Place: Castêlo da Maia
Town: Maia
Region: Porto
Country: Portugal
Website: www.educafrica.pt
Nominee **category**: Association/NGO
Dates of action: 23rd november

2. Please select the theme(s) highlighted in the action:

- Reduce – Strict avoidance and reduction at source
- Reuse – Preparing for reuse and reuse
- Recycle – Waste sorting and Recycling
- Let's Clean Up Europe!

3. Type of Action

- Action open to general public
- Action open to a target group
- Action based on the production of communication tools
- Other, please specify:

4. Please give a detailed and precise description of the nominated action



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In the mission held in March 2013 to Guinea-Bissau, EDUCAFRICA found that the inside of dwellings and public buildings were quite dark, with few openings and doorways of light due to the heat which is felt in that country. In addition, the roofs of homes and schools are composed of zinc plates that do not allow the passage of light and many of the photovoltaic panels that we were encountering along the way were used in a manner not very effective, because much of the energy captured is used during the day, so the idea of trying to minimize the energy consumption during the day through the use of zinc plates embedded in bottles, allowing the passage of light and maximizing the use of accumulated energy by the panels during the day for use at night.

The idea grew, we carry out the first tests and obtained excellent results, an average of 40W per bottle used.

Is our aim in the next mission, in April 2014, providing some of the schools, health centers and homes with these bottles in order to ensure that during the day the students and users have direct light in the rooms and in the evenings the adults can receive literacy classes with the accumulated energy photovoltaic at school.

From this project was born the **Workshop one drop of Light**, first mooted in November 23, 2013 in the European week for waste prevention. **This workshop intends to simultaneously raise awareness to the whole community to the poor living conditions of the African people and to the sustainable construction by reusing materials for clean energy production.**

Workshop Organization

In a **first part** is presented to the group the objectives of our projects and the path until we developed PET lamps. Is also explained the whole process of preparing it, since the material necessary to the final result.

In the **second part** of the workshop the participants draw up a lamp with the material provided by Educafrica and tested, in the end, their effectiveness on a prototype developed by the Association for that purpose. The workshop was designed to receive **participants of all ages** who are provided with personal protective equipment. **All PET bottles produced at the workshop will be installed during the next mission in 2014 to Guinea-Bissau.**

At national level it is intended to consolidate and disseminate the Workshop one drop of Light, making this project a way of simultaneously, sensitize the entire community to the poor living conditions of the African people and to the sustainable construction by reusing materials for clean energy production, while working with citizenship issues and cooperation.

The success of the workshops already held within the European week for waste prevention and in groups of Scouts and schools is, in itself, a guarantee of these assumptions.

In this workshop we educate for citizenship and for sustainability, bringing smiles, solidarity and light where these are more accurate.



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5. Please describe the target audience and how the action motivated its public/target audience, as well as the number of participants

The target audience were people of all ages, including Scouts and Students in a total of 10 participants. They are people concerned with the environment and life conditions. This action motivated the audience in two ways: The **prevention and sustainability** itself, by the reusing of PET bottles and on the other hand, the **humanitarian character**, by providing an essential good to people with low possibilities.

[Pictures]



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