

**SUBMISSION TEMPLATE**

**Research-2-Practice Symposium on Renewable Energy, Water and Climate Security in Africa  
16 - 18.04.2018, Tlemcen, Algeria**

**Category: Practice and Non-Scientific Contributions**

Within the broad themes of water, energy, climate change and the nexus within these themes, forum organisers encourage non-scientific participants/stakeholders interested or involved in practice and applied oriented initiatives to send a submission. These participants may be seeking knowledge, strategic partnerships, funding strategies or merely an opportunity to showcase their work based on real-life scenarios and practice within the priority areas of this call (energy, water, climate change and the nexus between energy, water and climate change).

**General Guidelines:**

Project should be directly and indirectly contributing to AU's vision 2063 and operating in the priority sectors of this call. Project submissions shall be written in Calibri font, single line spacing and 10 font size. Submissions can contain figures, tables and/or images. Page format should be A4 page size with margins 2.5 cm wide from the right, left, top and bottom. **Submissions should not exceed 4 pages (including images)** and pages should not be numbered.

Projects (in PDF format) shall be submitted via <https://easychair.org/conferences/?conf=res2prac>

For submission of projects, registration on [easychair.org](https://easychair.org) is required. The conference name on [easychair.org](https://easychair.org) is "Res2Prac 2018". **Guidelines for abstracts submissions at [easychair.org](https://easychair.org) are provided in the Call for Abstracts.** For more information on the Research2practice Conference on Energy, Water and Climate Security in Africa, visit <http://www.pauwes.com/Res2Prac2018>

**Author's details:** please complete the table below before submitting the abstract.

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**Project Title : GREEN KIOSK**

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**Project Summary**

(max. 100 words; Calibri, 10pt, left alignment)

Green Kiosk project will use green energy as a catalyst for poverty eradication in Kenya. We are planning to work with women groups where we shall train them to sell green fuels to homes, we shall empower youths by providing them with automated tree nurseries where they shall foster tree planting and thus improving their lives. We will target disadvantaged communities where through our solar panel the families can charge their phones and lamps to use during the night. We shall work with farmers who burn organic wastes to convert them into pellets to use to cook.

**Website link for the project:** [www.ecobora.co.ke](http://www.ecobora.co.ke)

**1. Background** (Title: numbered, bold, Calibri, 10pt, left alignment)

Problem statement covering the origin, background, motivation and challenge the organisation is trying to addressing through the initiative. Should not exceed 100 words.

Ecobora will use green energy as a catalyst for poverty eradication in Kenya. We are planning to work with women groups where we shall train them to sell green fuels to homes, we shall empower youths by providing them with automated tree nurseries to foster afforestation and thus improving their lives. We will target disadvantaged communities through our solar panel the families can charge their phones and lamps to use during the night. We shall work with farmers who burn organic wastes to convert them into pellets to use to cook and lastly to locally assembly tier 4 gasifire stoves.

**2. Beneficiary profile**

A clear description of beneficiaries or communities impacted. Description should cover demographics, age, location and numbers of beneficiaries, among other key indicators. Should not exceed 150 words.

Ecobora is targeting to support rural and peri-urban families who live under \$1 a day. We are targeting to work with families in central Kenya in Kiambu and Muranga counties who mostly are involved in subsistence farming. We shall specifically set the Kiosks in Kinoo, Vianja, Matii and Waseta regions where we shall work with 230 women aged from 27-59 years who are small scale traders of agricultural products. Each receiving 1 green Kiosk. 54 youth groups will be equipped with tree nurseries. They are school dropouts who are aged between

18-27 years old who spends their time idling in the local shopping centres. With this project the youths will have an income source taking home \$3 per day each and thus we are working towards eradicating poverty.

### 3. Achievements and challenges

Update on the status of the project. Provision of key highlights, milestones, challenges and success stories achieved to date. Images and/or links to media coverage are also welcomed. Should not exceed 200 words.

We have raised the number of families whom we have reached to in Limuru, Kariobangi, Kinoo and even Ruiru from 256 homes to 639 homes for the past 6 months who now can consume up to 36Tons per month from the previous 21Tons per month with an average use of 2Kg of pellets per day. This was due to having to produce pellets of high quality at an affordable price that satisfies the consumer's needs.

For the month of May-June, we have created **12 ECOBORA CLUBS**. One club is now owned by youths who belong to **MASHINANI HUB**. This was the first training we did. There was a huge number of youths interested in our activities which I found quite motivating. Currently clean cook stoves available are so expensive costing \$40 and to families earning less than \$5 per day it would be a challenge to think of acquiring one. This is the biggest risk as a business that we have faced in this energy space since the two are complementary products.



**Fig: Ecobora holding an eco-literacy training to youths in Mashinani hub**



We partnered with Burn cook stoves and Ecozoom Company in Kenya and Mimi Moto Company from Netherlands to supply clean cook stoves to our customers at a subsidized price. We have currently supplied more than 540 cook stoves to families in Ruiru, Limuru and Elbagon courtesy of our partners. Families using the stoves have experienced great transformation since we have revolutionized cooking and made it an enjoyable experience.

#### 4. Project support and sustainability

Description of external institutional partners or strategic alliances formed to sustain the project and clear articulation of further support required for bigger impact. Should not exceed 200 words.

Ecobora Company will invest in the fully production of wood pellets where they will outsource a pellet machine and buy waste rice and coffee husk from local farmers to provide affordable and clean wood pellets for cooking. Renetech Company will spearhead the supply of solar panels and installation to the green kiosks and automated tree nurseries. Mimi Moto Company will oversee the production of the tier 4 gasifire stoves here in Kenya and train the local show to make them. Collectively all the tree partners will be working hand in hand to complete the project. Ecobora will be mostly in-charge of all the ground operations since it is a Kenyan based company with good network and knowhow of the culture to implement the work of other partners. The other partners will also be actively involved in sourcing funds and partnership to support the activities on the ground.

#### 5. Future plans

Concluding remarks covering innovative or creative ways to transition the organisation to the future. This should also cover the how the initiative needs to adapt or morph against perceived landscape changes. Should not exceed 200 words.

In the next 30 months, the 4300 families in Kiambu and Limuru regions living below \$5/day will be able to access clean and affordable wood pellets and thus saving 50% of their cooking costs. Over 2000 Girls and mothers will no longer walk long distances to forests to collect firewood nor suffer from lung infections due to cooking in Smokey kitchens. We shall create 42 jobs in the stove assembly and pellet production where we shall practice fair trade and thus offer decent jobs to women and youths uplifting them out of poverty. Creating 40 green kiosks and 40 tree nurseries to women and youths respectively which will in these period lead to “paying it forward” where the profit earned from them will be used to create more than 120 green kiosks and nurseries hence opening up these marginalized regions. With the planting of 2000 trees by the youths and supply of affordable fuel and energy saving cook stoves we shall Make the communities here resilient to climate change and also reduce CO<sub>2</sub> emissions by 25% and lastly we shall leverage on the partnerships created to raise funds to expand the testing approach and empower communities out of poverty.