

# Stakeholders' Workshop On Gender And Energy

To be held at Lemigo Hotel in Kigali, Rwanda on 29th October 2018, 10am to 4pm



Photos courtesy of Energia

Innovations for Poverty Action (IPA), University of Cape Town (UCT), INSEAD Business School, Nuru Energy East Africa, MARGE, Inclusive Business & Consultancy (IB&C) Rwanda, ENDA Energie, and the University of Twente, Netherlands are hosting a workshop in Kigali to share findings from their two research studies conducted in Rwanda, Senegal and South Africa focusing on the impacts of gendered micro-enterprise business models to women's empowerment (1), and impacts of access to energy services on the development of women's enterprises in the street food sector (2). This workshop will bring together policymakers, non-governmental organizations, practitioners and researchers with expertise in the energy sector.

The workshop and the research projects are funded by ENERGIA and are part of its overall DFID-funded Gender and Energy Research Programme.

## Background

### **Study on Female Microenterprise Creation and Business Models for Private Sector Distribution of Low-Cost Off-Grid LED Lighting: Multiple Randomized Experiments, conducted by IPA and UCT**

The first study was carried out by IPA, UCT, INSEAD Business School and Nuru Energy East Africa between 2015 and 2018 in rural areas of Rwanda. This study has reviewed several aspects of rolling out a gendered micro-enterprise program in the renewable lighting sector amongst poor rural households in Rwanda. In partnership with Nuru Energy East Africa, a social enterprise committed to scaling up LED lighting to the rural poor, the study tests the impact of randomized gender assignments of Village Level Enterprises as well as business models where we vary the start-up price of lights, the recharge rates and also the role of behavioral factors (inconvenience) and liquidity constraints in facilitating frequent usage of the lights. The main methodology revolves around several randomized control trials conducted with 272 villages in Ruhango and Rulindo districts in Rwanda. We specially developed remote data capturing technology using cellular GSM transmission. Lights were programmed to be able to communicate with the recharge-center and the recharge-center engineered to communicate via GSM to our cloud-based database. This unique data collection technology allowed us to measure actual usage rates, instead of relying on surveys to measure usage which are

expensive and inaccurate and have been shown to change behavior. The study has provided many new insights into empowerment programs in the LED sector and business modeling which we'd like to share with various stakeholders in the gender and energy sector.

### **Study on Productive Uses of Energy in the Street Food Sector (SFS), conducted by University of Twente, MARGE, ENDA Senegal, UCT and Inclusive Business & Consultancy**

The second study was led by the University of Twente, with its regional partners MARGE in Rwanda, ENDA in Senegal, and University of Cape Town in South Africa between 2015 and 2018 in urban areas of Rwanda, Senegal and South Africa. The study assessed if and how access to modern energy sources and appliances would affect owners and employees of street food enterprises with the final aim to investigate linkages between energy use and the formalization of these businesses, and the role that energy could play in empowering women also at the household level. The results were instrumental to further deepen the understanding of the street food sector in Rwanda, Senegal and South Africa, and what it means for men and women operating in the sector, when variables such as energy use, formalization of the sector and regulation come into play.

For more information about the two projects, please refer to this link: <https://www.energia.org/research/>

# Workshop Aims

The details of the various topics covered by the studies and other interesting results relevant to policymakers will be shared through presentations and plenary discussions during the workshop. Key Rwandan stakeholders including government, NGOs and private sector are invited to bring and share their experience as major players in the sector allowing further discussions and confrontations among all participants. The main outcomes will then be integrated in the final reports of the two research studies, which will then be disseminated among all interested parties to allow future informed decisions. Below is the detailed agenda for the workshop.

## Agenda

### SESSION 1: RA 5 RESEARCH EVENT

#### Female Entrepreneurship: Empowerment in the Renewable Lighting Sector

10:00 - 10:15

##### Arrival & Introductions

Phillip Okull - Innovations for Poverty Action (IPA)

10:15 - 10:30

##### Opening Remarks

Doug Kirke-Smith - Innovations for Poverty Action (IPA)

10:30 - 11:00

##### *Presentation: A Gender-Focused Business Model - Initial Findings from an RCT*

Martine Visser - University of Cape Town (UCT)

11:00 - 11:30

##### *Presentation and Q&A: The Importance of Pricing and Subsidies in Making Renewable Lighting Viable*

Rowan Clarke - University of Cape Town (UCT)

11:30 - 11:50

##### Tea Break

11:50 - 12:30

##### *Presentation: Risk, Competition, and Pro-Social Behaviors Among Females: Lab Experiment from Low-Cost Off-Grid Renewable Energy Microenterprises in Rural Rwanda sector*

Rebecca Klege - University of Cape Town (UCT)

12:30 - 13:30

##### Lunch Break

### SESSION 2: RA 2 RESEARCH EVENT

#### Productive Uses of Energy in the Street Food Sector (SFS)

13:30 - 14:00

##### RA 2 Project Background

Nthabi Mohlakoana - University of Twente

14:00 - 14:20

##### *Presentation: Main Results and Policy Advice*

Andrea Ranzanici - MARGE

14:20 - 14:40

##### *Presentation: The Crucial Role of Electricity in the Development of the Street Food Sector in Rwanda*

Anicet Munyehirwe - Inclusive Business & Consultancy (IB&C)

14:40 - 15:00

##### **The Efforts of Local Governments towards the Formalization of the Street Food Sector in Rwanda**

Virginia San Felice - MARGE

15:00 - 15:40

##### Discussion

Panel Discussion - RA2

15:40 - 16:00

##### Concluding Remarks

ENERGIA Representative