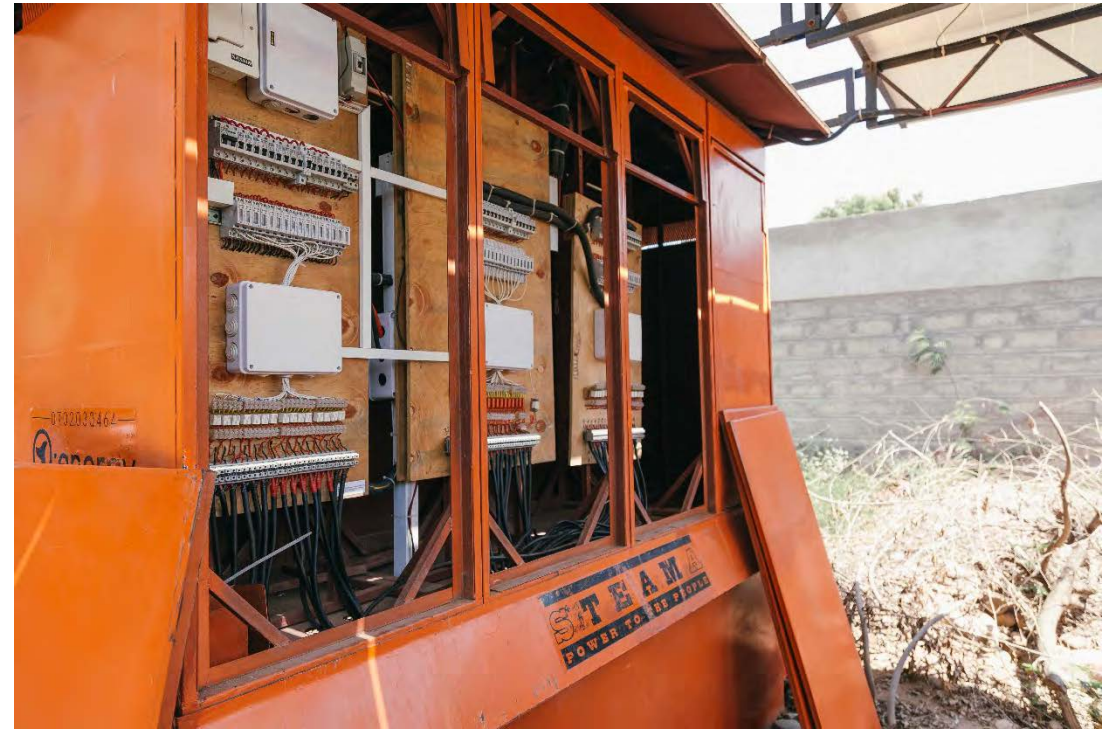
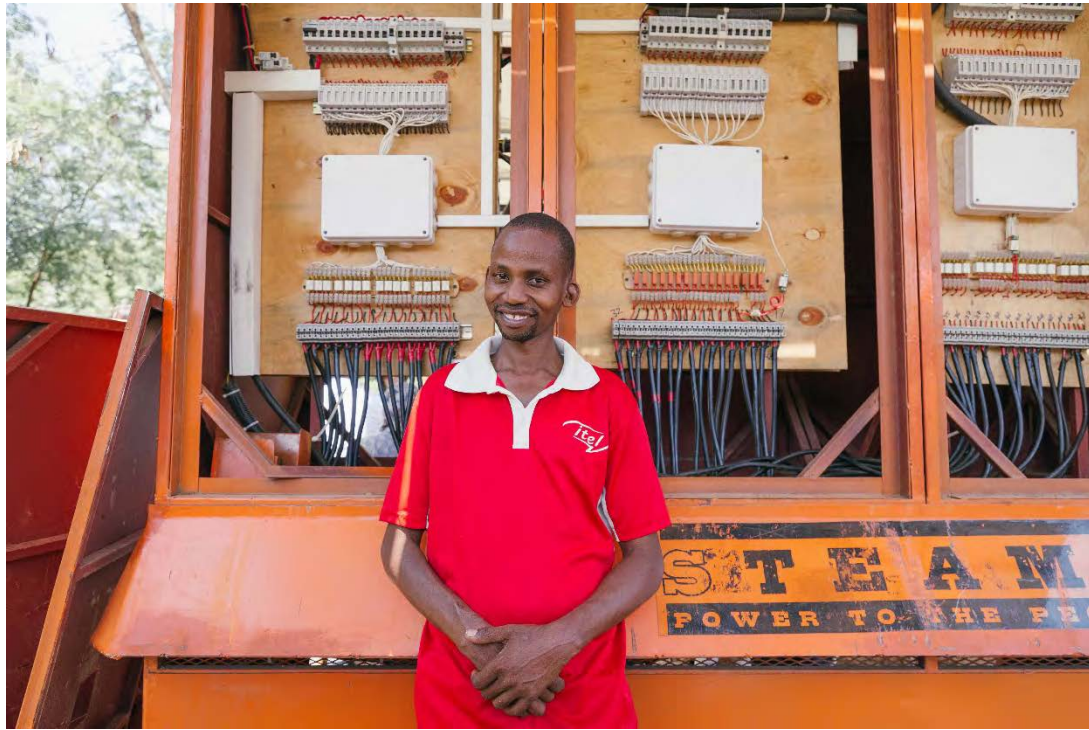


# FIELD VISIT



# FIELD VISIT



# FIELD VISIT



# FIELD VISIT



# FIELD VISIT





ES&F  
Peter Liberal  
HONOR Energy  
USA

Parastatal

Y. Peter Liberal

# Mini-Grid Concessions in Africa: Preliminary Findings

Richard Hosier  
World Bank  
18 May



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ESMAP  
Jacob K. Chepkwony  
Ministry of Energy

ESMAP  
Benon Bena  
Uganda



Parastar  
Parastar

KENYA'S  
MUSICIANS

Fairmont  
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Parastaral

KENYAS  
WATCHING

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ESMAP  
Abishek R...



ESMAP  
**HON. CHARLES KETER**  
Ministry of Energy & Petroleum, Kenya

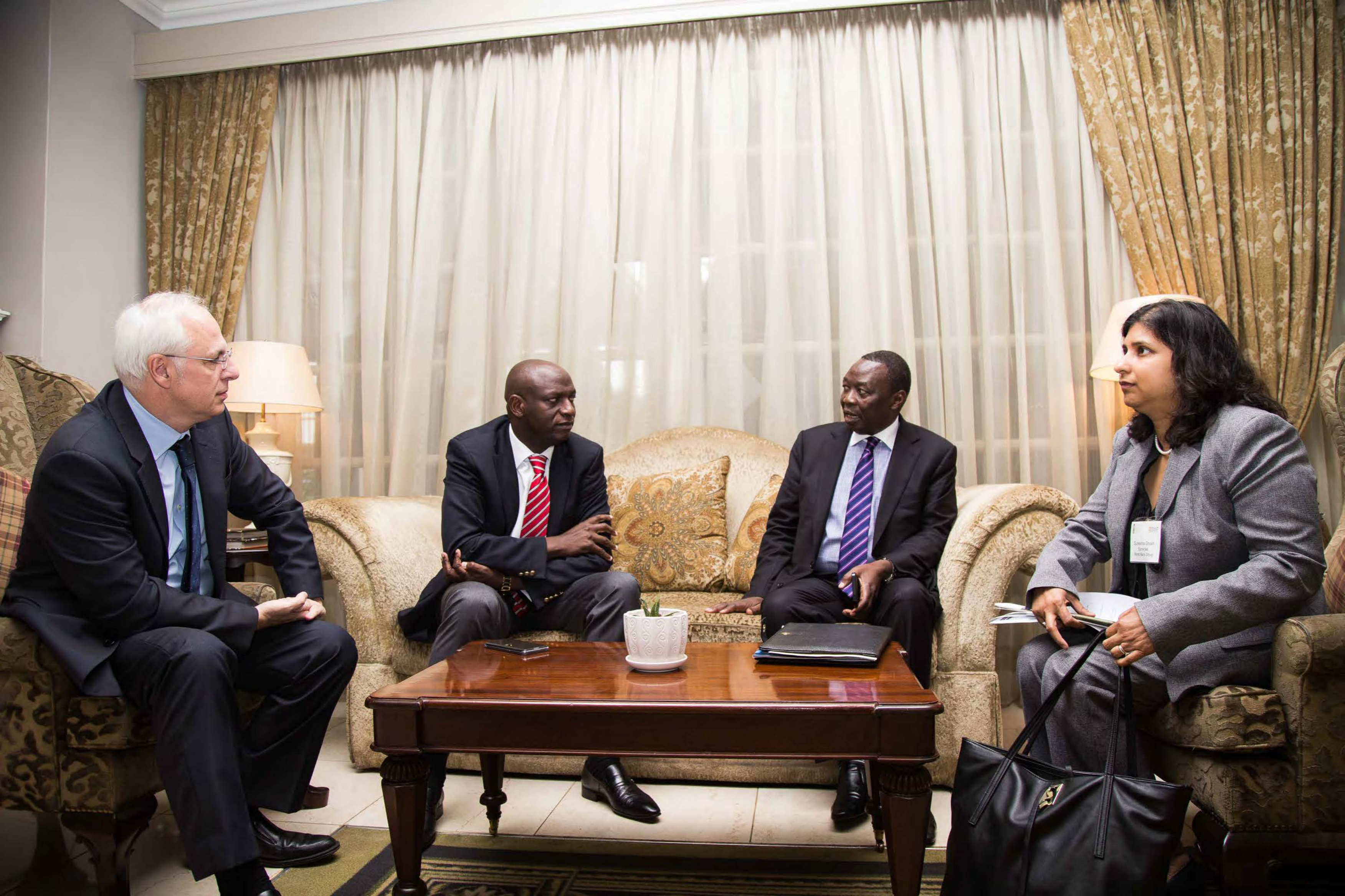


ESMAP  
**Mrs. Diariétou Gaye**  
World Bank Country Director, Kenya









Sumera Ghosh  
Senior  
Marketing Officer













Chris Granger  
West Air Group

Statement of Work



Push bar to open





Mira Ardron  
Lumina

Fairmont  
NORFOLK







where  
(s)do?

ESMAF  
Subodh Mathur  
University



ESMP  
Andrew Tipping  
Economic Consulting  
Associates UK



ESMP  
Charles Irugi K  
Fortin Limited  
Kenya









A man with glasses and a light-colored suit is speaking at a dark wood podium. He is gesturing with his right hand. A laptop is open on the podium, displaying a logo. The podium has the text "Fairmont THE NORFOLK" on it. In the background, there is a wall with a decorative light fixture and wood paneling.

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## Implementation

2/3

ing and capacity building

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ate interaction among stakeholder groups

ard SPPA

essment of the grid expansion

ment of Provincial Councils for off grid electrification

h grants

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Dr. Kapila S...  
DFCC

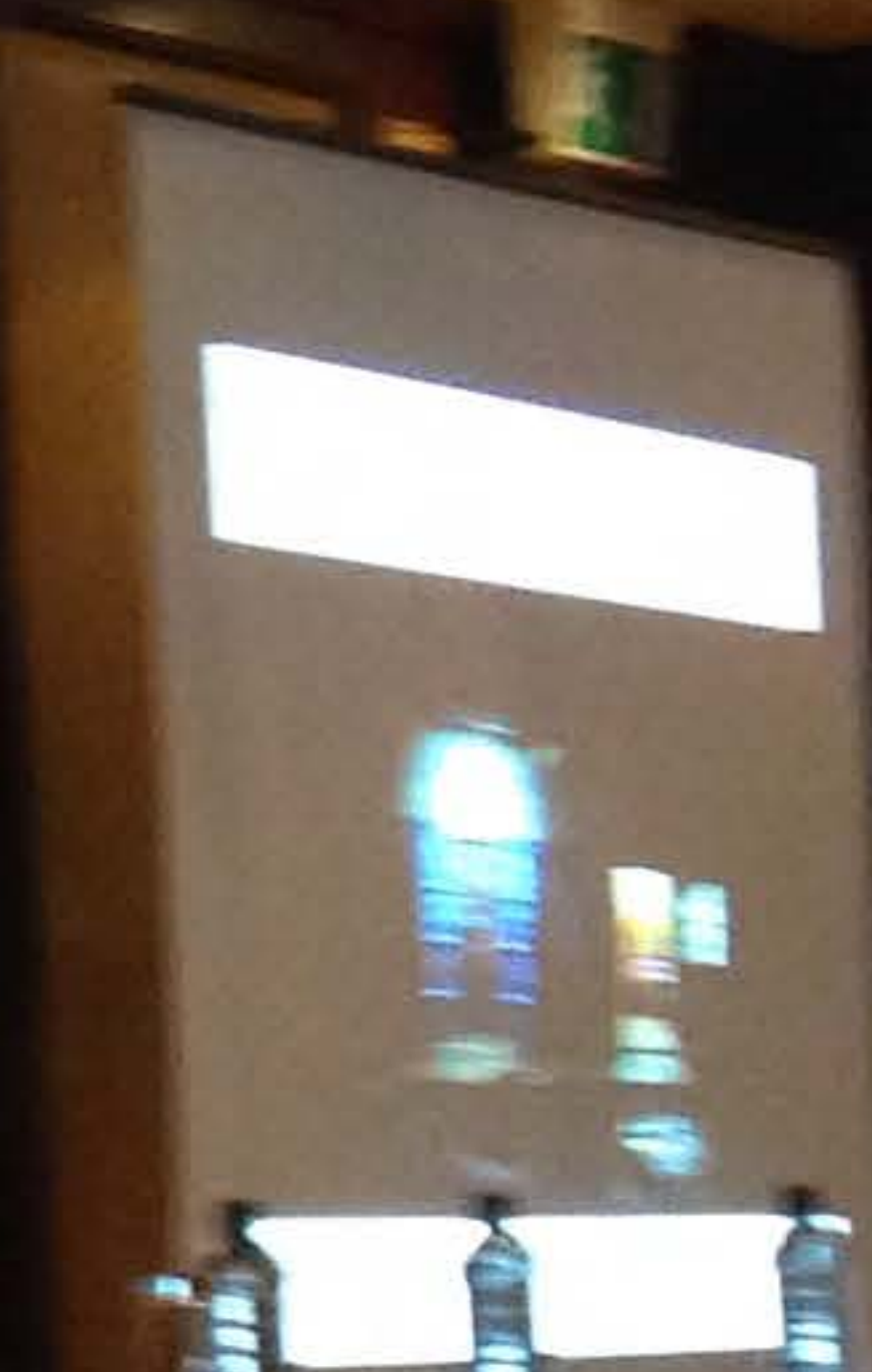
# TECH STANDARDS

- \* COST
- STANDARDS LEVEL FOR MG
- \* METERING
- \* BILLING
- \* EQUIPMENT STD & SPECS
- \* LV SMALL MG INTERCONNECT
- \* WHO PAYS FOR THE HIGH COST OF THE MG-GRID
- \* DC INTERCONNECT
- \* MG Voltage Levels
- \* ~~WHAT IS~~
- \* STORAGE & GEN



## Integration scenarios



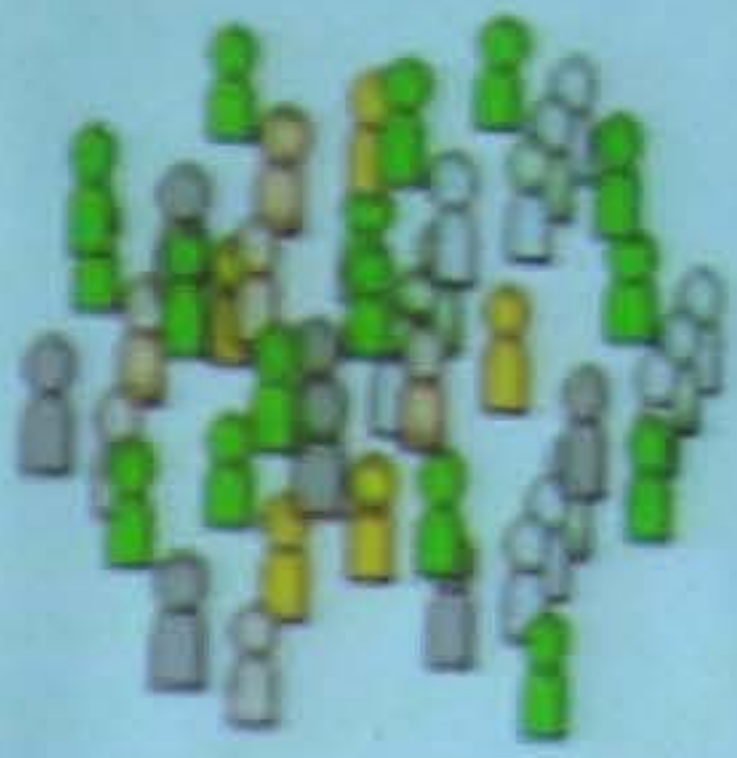




# Kenya as case study: Barriers typical for mini-grid deployment

## Barriers

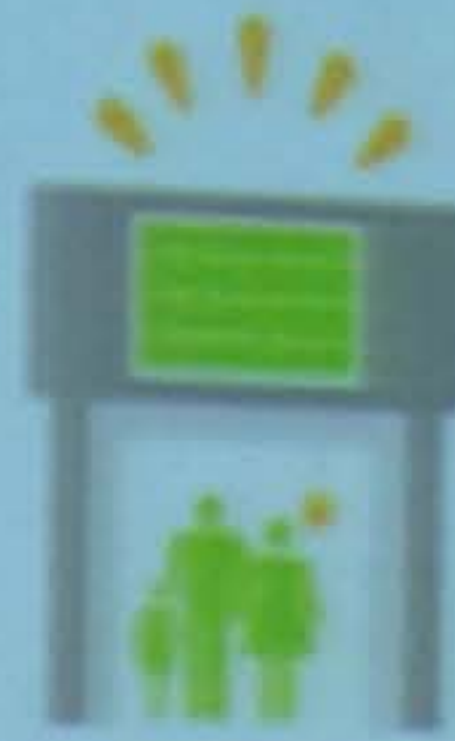
Load curves and customer demand that can often not be predicted



Regulatory framework that hinders free tariff setting



Uniform tariff and single utility model that discourage private sector



A banking sector that is not prepared for small-scale high-risk projects





## SUMMARY

PS NJOROGÉ presented a commitment and the challenge:

How to attract private sector to mini-grid development and financing while meeting the government's goal of social equity with uniform tariff system in place for national grid



Facilitator/Expert: Richard Hosier  
Topic: Concession

**Solution**  
Concessions are necessary, but not sufficient, to mainstream mini grids as a viable solution for private rural electrification.  
To be successful, the public sector needs to provide a clear policy environment, including price reform, and to be willing to cost share investments with private sector partners who in turn need to focus on providing energy services, not just supplying electricity.





STEVEN HUNT  
SPEAKER

Fairmont  
NEW YORK

STEVEN HUNT  
SPEAKER

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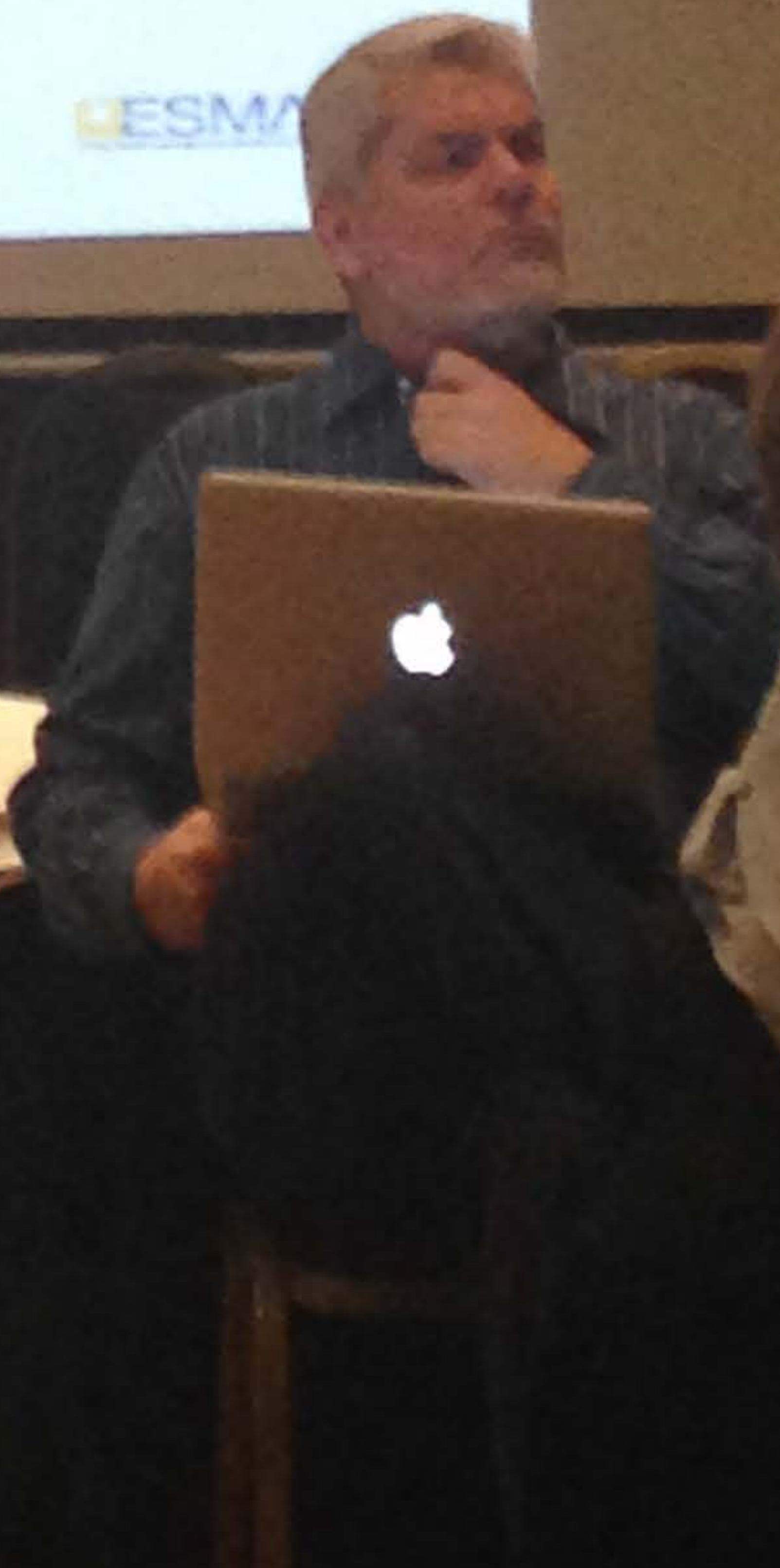
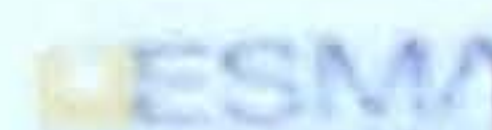
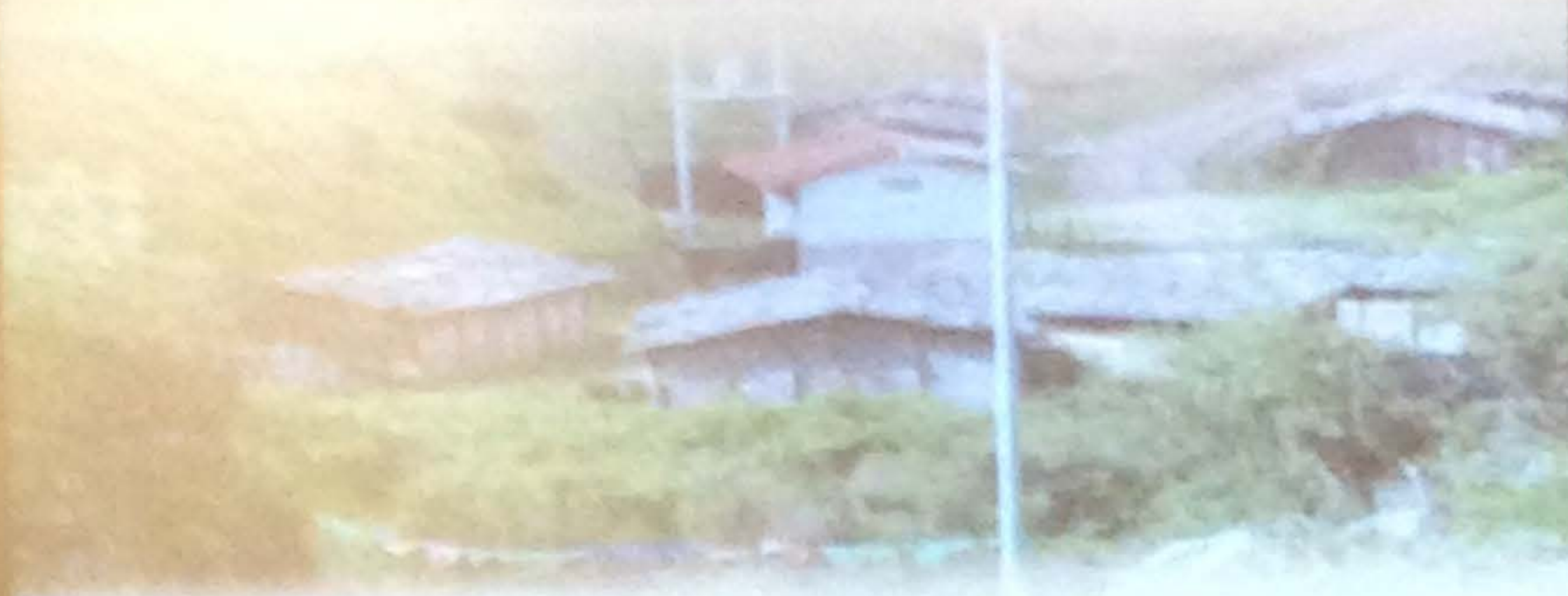


Action Learning Event  
Four Round Tables, a Technical Conference and a Field Visit on

# Upscaling Mini Grids for Least Cost and Timely Access to Electricity Services

"OPERATIONALIZATION"

PREPARED FOR THE MINIGRID PROJECT | MARCH 2015 | PAGE 25 OF 258





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