

Evidence-based barriers to widespread adoption of PV Solar Lanterns in Rural Namibia

Mr. Innocent Onah
Sustainable Energy & Climate Fellow, (AC)
United Nations Foundation, Washington DC

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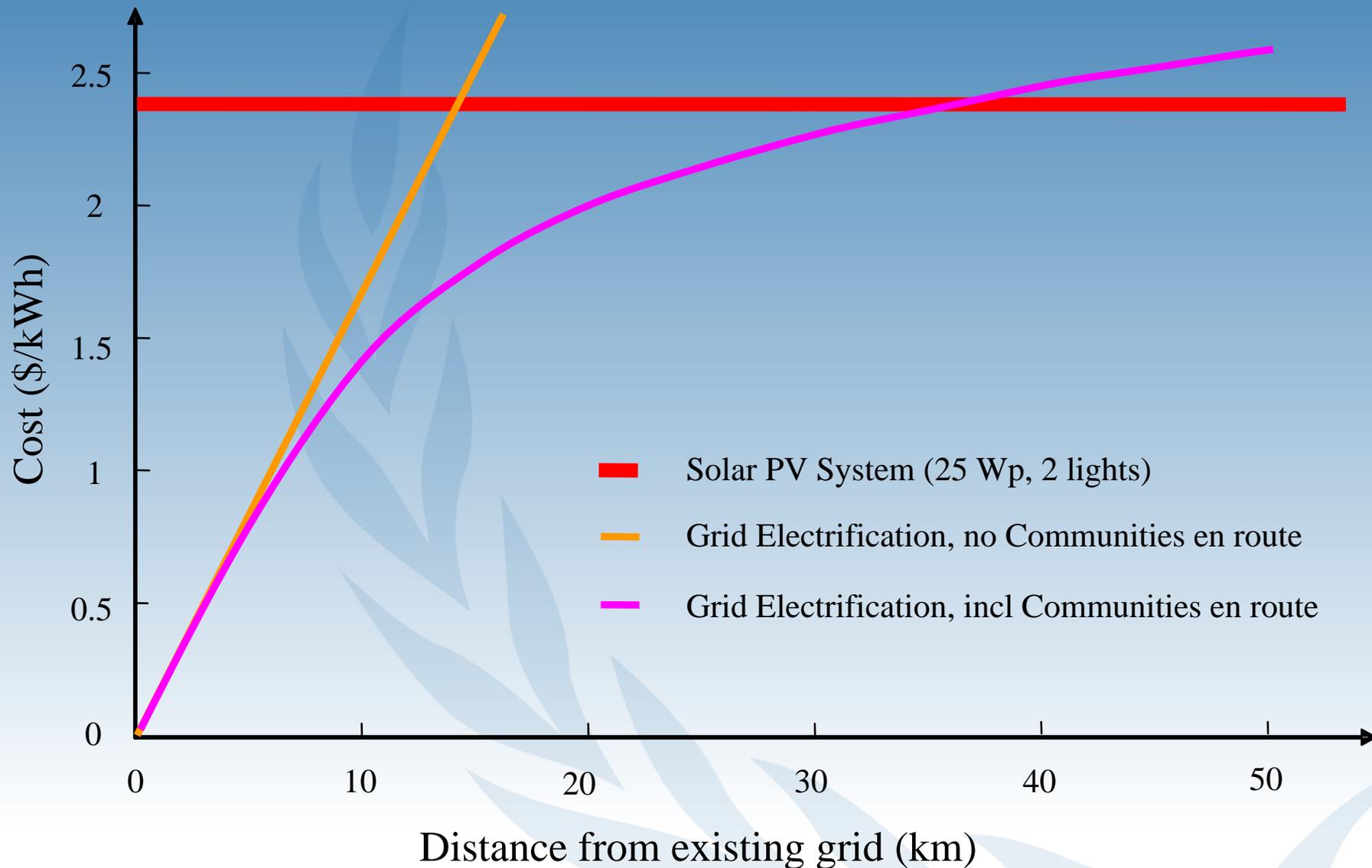


<http://vimeo.com/10930099>



Evidence-based Barriers	Category
<ol style="list-style-type: none"> 1. High relative cost. 2. Requires upfront down payment. 	Financial
<ol style="list-style-type: none"> 1. Lesser versatility: One brightness setting and not very bright. 2. “High setting” is too bright without a shade, can harm eyes. 3. LED light bulbs last only 1 year before needing replacement. 4. Samsung & LG connector cable not included. 5. Power switch problem shortly after purchase. 6. Lack of repair person to deal with maintenance issues (no after sales services). 7. The button on the lamp can wear out. 8. Battery susceptible to rain damage (not water resistant/water-proof). Spare battery caps not provided with purchase. 9. No cell phone charger. 	Product Quality
<ol style="list-style-type: none"> 1. Fixing solar panel to roof increases risk of theft. 2. Lanterns not always available. 	Supply Chains

Sample Electrification Curve for Small Communities (pop: 500) Northern Nigeria ***Adapted to Rural Namibia



Electrification Rates by Region (%)

	1970	1990	2000	2015	2030
North Africa	34	61	90	98	99
Sub-Sahara	9	16	23	33	49
Africa	14	25	34	43	56
South Asia	17	32	41	53	66
Latin America	45	70	87	94	96
East Asia/China	30	56	87	94	96
Middle East	36	64	91	97	99
Developing countries	25	46	64	72	78
World	49	60	73	78	83



2012 INTERNATIONAL YEAR OF SUSTAINABLE ENERGY FOR ALL

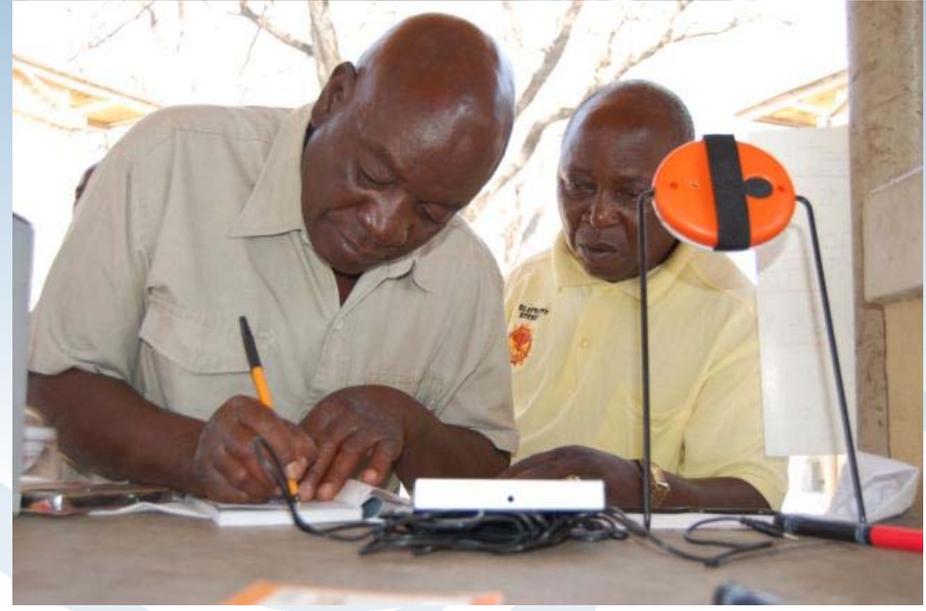
Three global campaign goals by 2030:

- Achieve universal access to modern energy services
- Double the rate of energy efficiency
- Double the use of renewable energies globally

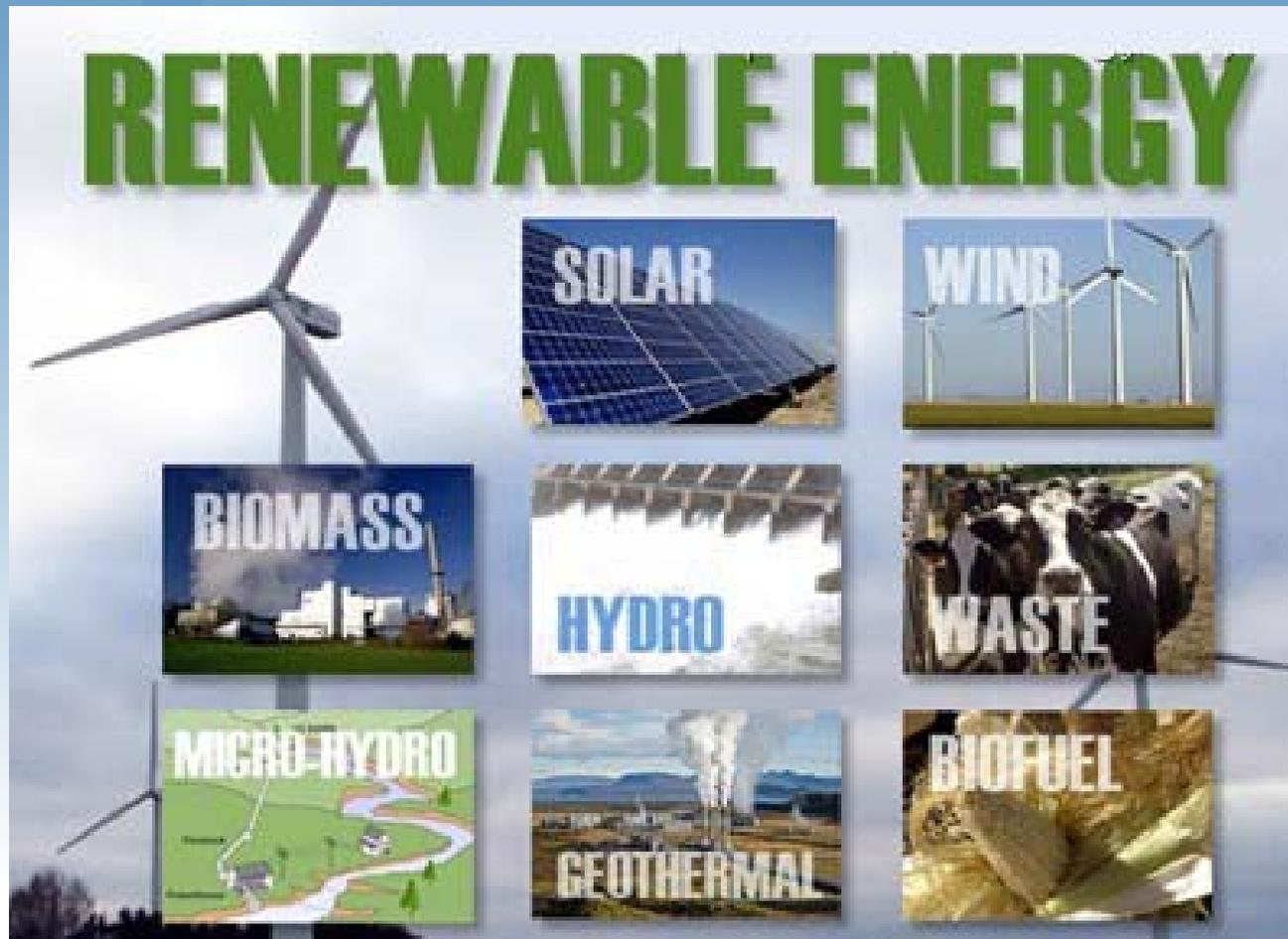


Energy Access Practitioner Network on Electrification

- Address the market barriers to scaling the deployment of affordable energy primarily focusing on mini-grid and off-grid applications.
- Working group focus on mini-grids, finance & investment, standards, link with agriculture, health, and sustainable supply chains/ entrepreneurship.



Are we getting energy access research,
technology & policy right?





Thank You!