Levering Mobile Infrastructure for Community Energy

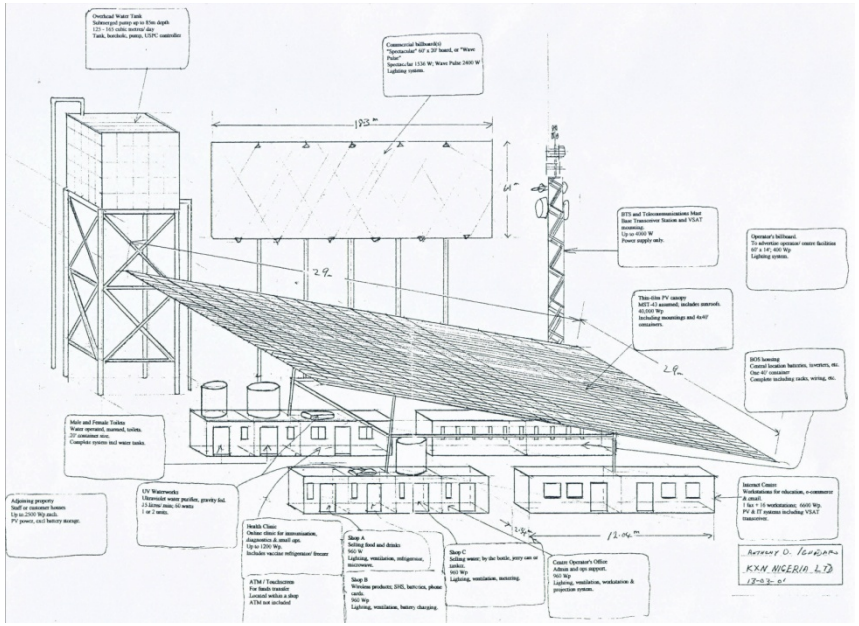
Community Power from Mobile, Accra, Ghana
5 November 2012

Anthony Ighodaro
KXN Nigeria Ltd
www.solarsolve.com

Introduction

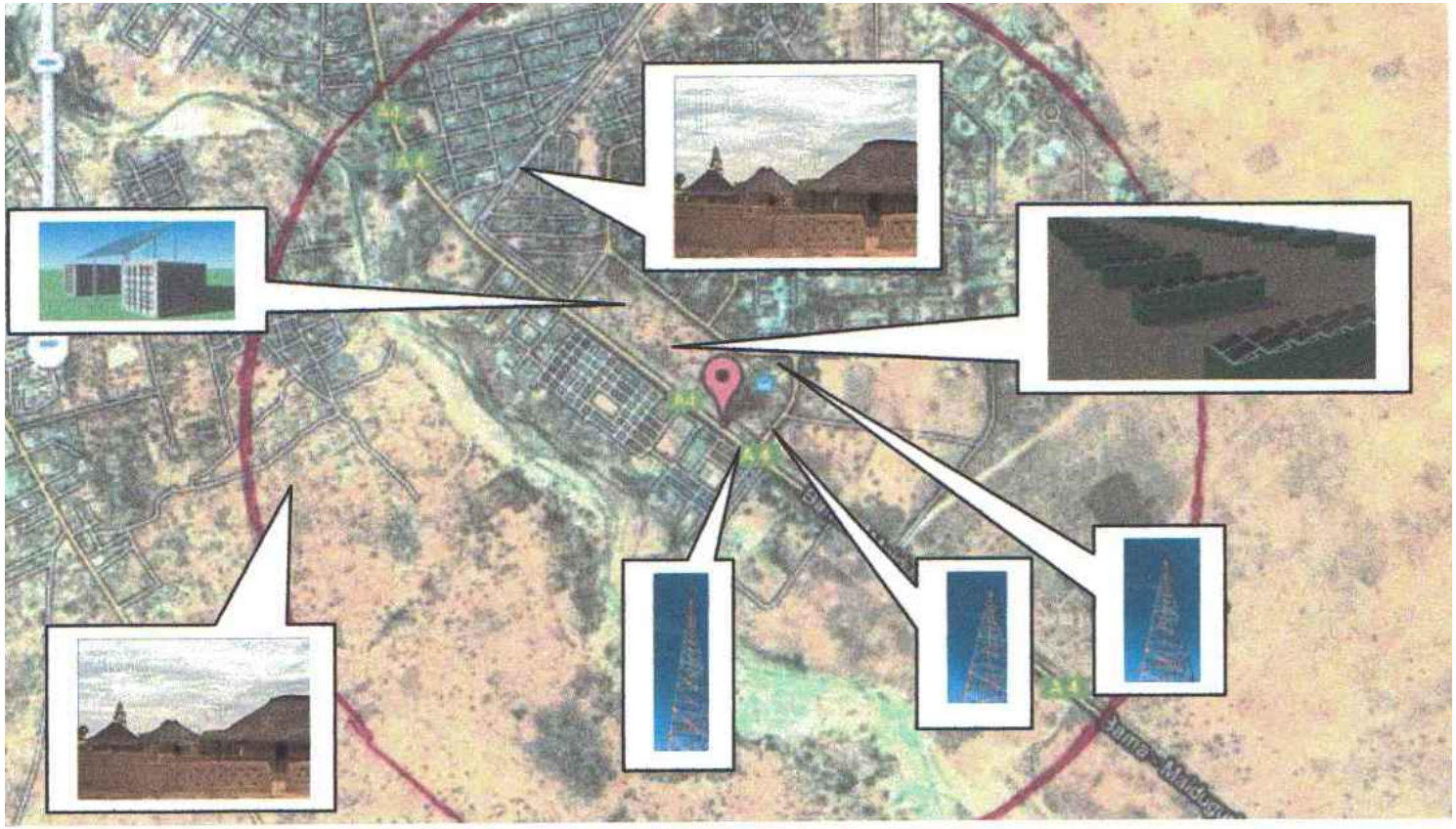
- KXN Nigeria Ltd (www.solarsolve.com), a solar systems integrator, is the winner of an Ashden Award (www.ashden.org) for innovative delivery of solar-powered refrigeration for vaccines in Northern Nigeria. Established in 1999, they have designed and installed almost a thousand such systems, as well as standalone systems for clinics, schools, cybercafes and residences. They are also distributors of Sharp, Kyocera and Solarworld photovoltaic modules, Phocos and Morningstar controllers and West African master distributor of Trojan batteries. KXN has experience of working in remote and hard-to-reach rural areas, and with diverse tribal and religious communities.

Community Power Precedents



- Multifunctional platforms
- Greenstar
- Regional Solar Programme

Telecom Tower Communities



What's new?

R.E. Power System Cost trends since 2001

- PV panels < 10%
- Batteries > 150%

Mobile Telephone Networks

R.E., Transportation, Lighting & Banking Technologies

External Pressures and Shocks

- Oil Supply & Prices
- Demographics
- Climate Change
- Socio-Economic Turbulence
- Attacks

So what's feasible now?

Telecoms

Enterprise

Water Pumping

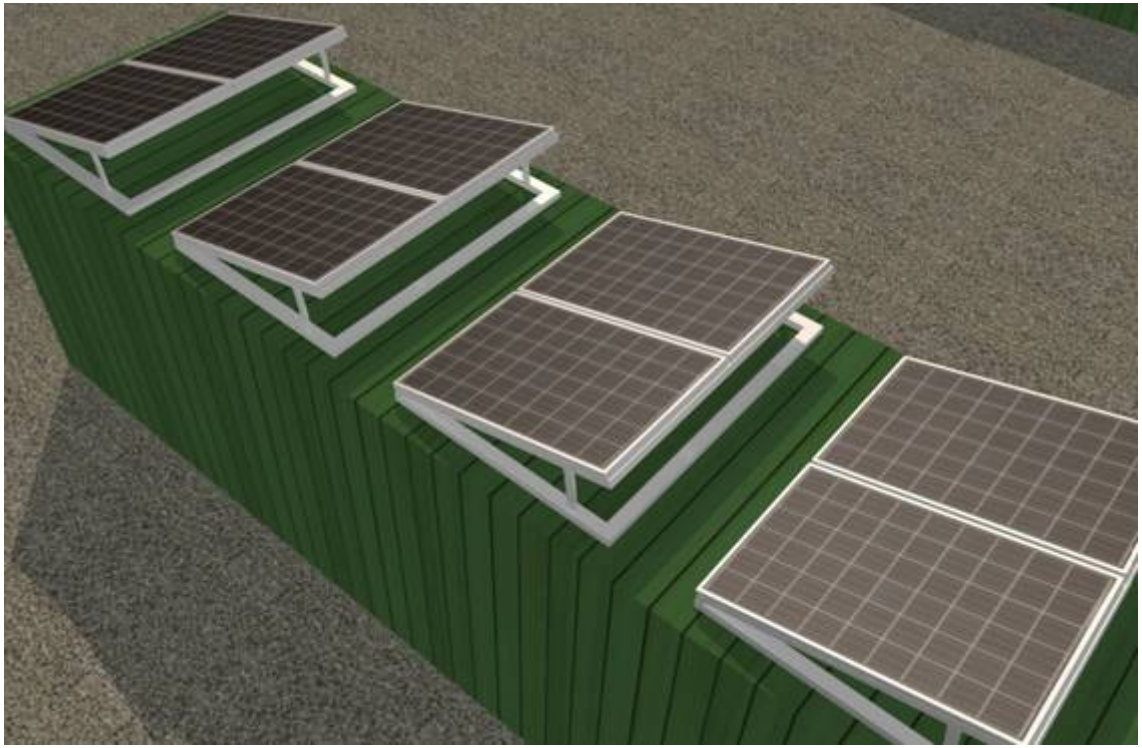
Healthcare

Education

What is the energy demand?

- Hard data – energy use, profile and costs, ability and willingness to pay
  - Anchor loads (Telecom Tower Infrastructure)
  - Business loads (Productive Enterprises)
  - Community loads (Household and Public)

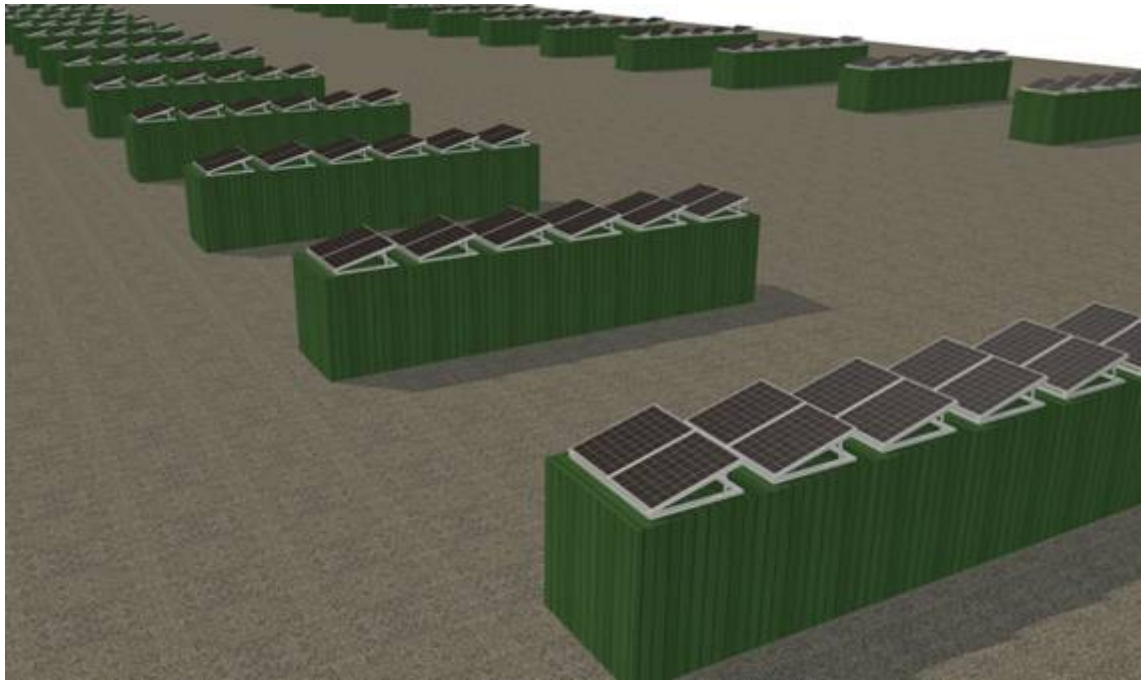
Solar Container Kiosk



Alternative Solar Kiosk Configurations



RESCO Enterprise Zone / Mall



Thank you!

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