

Clean Energy Investment in Africa

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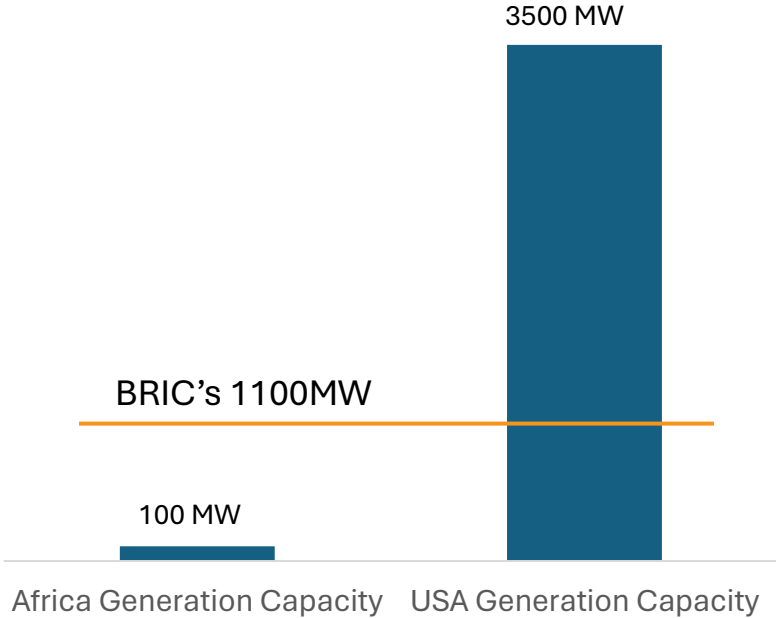
Wall Street Green March 12 & 13



Clean energy investment opportunity in Africa

Energy systems plagued by years of underinvestment in “on-grid” generation (or transmission and distribution)

Generation Capacity per Million people

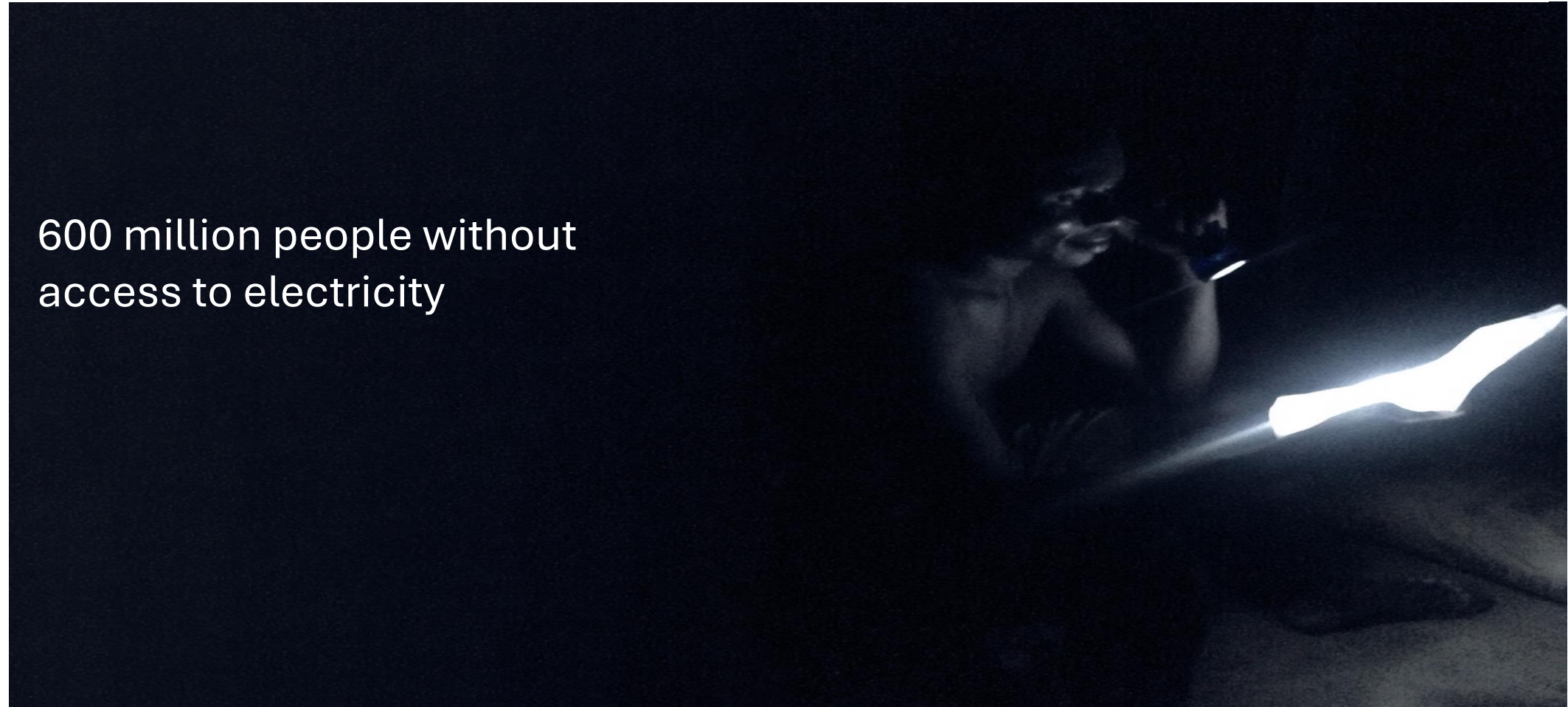


Africa’s per capital energy investment is 35 X lower than in the US



Clean energy investment opportunity

600 million people without
access to electricity



“We’re managing...”

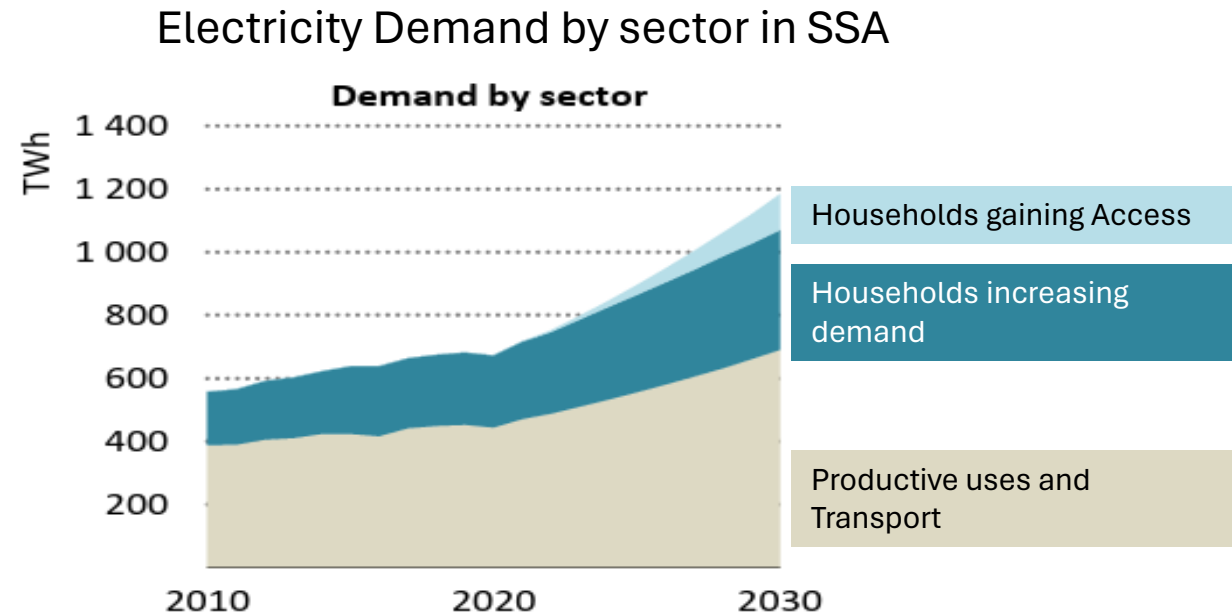
How Africa’s electricity deficit impacts Africans and the planet

- 950 million depend on wood or charcoal for cooking
- 45 GW of Diesel Genset Capacity in Africa
- High appetite for renewables as more economically and environmentally sustainable solution



Clean energy investment opportunity is huge

- Continent with the best solar resources in the world
- Fastest growing markets
 - 21 out of 37 countries with >5% GDP growth on African Continent



Electricity demand in Africa projected to double by 2030

Primary solar investment strategies in Africa

14 % YOY Growth 2023: Clear momentum, and just the beginning

Commercial/ Captive Solar



~2.4 GW installed (2023)

Distributed Renewable Utilities/ Minigrids



*~4000 sites installed
(cumulative 2023)*

Solar Home Systems



~850,000 installed (2022)

Grid Connected Solar

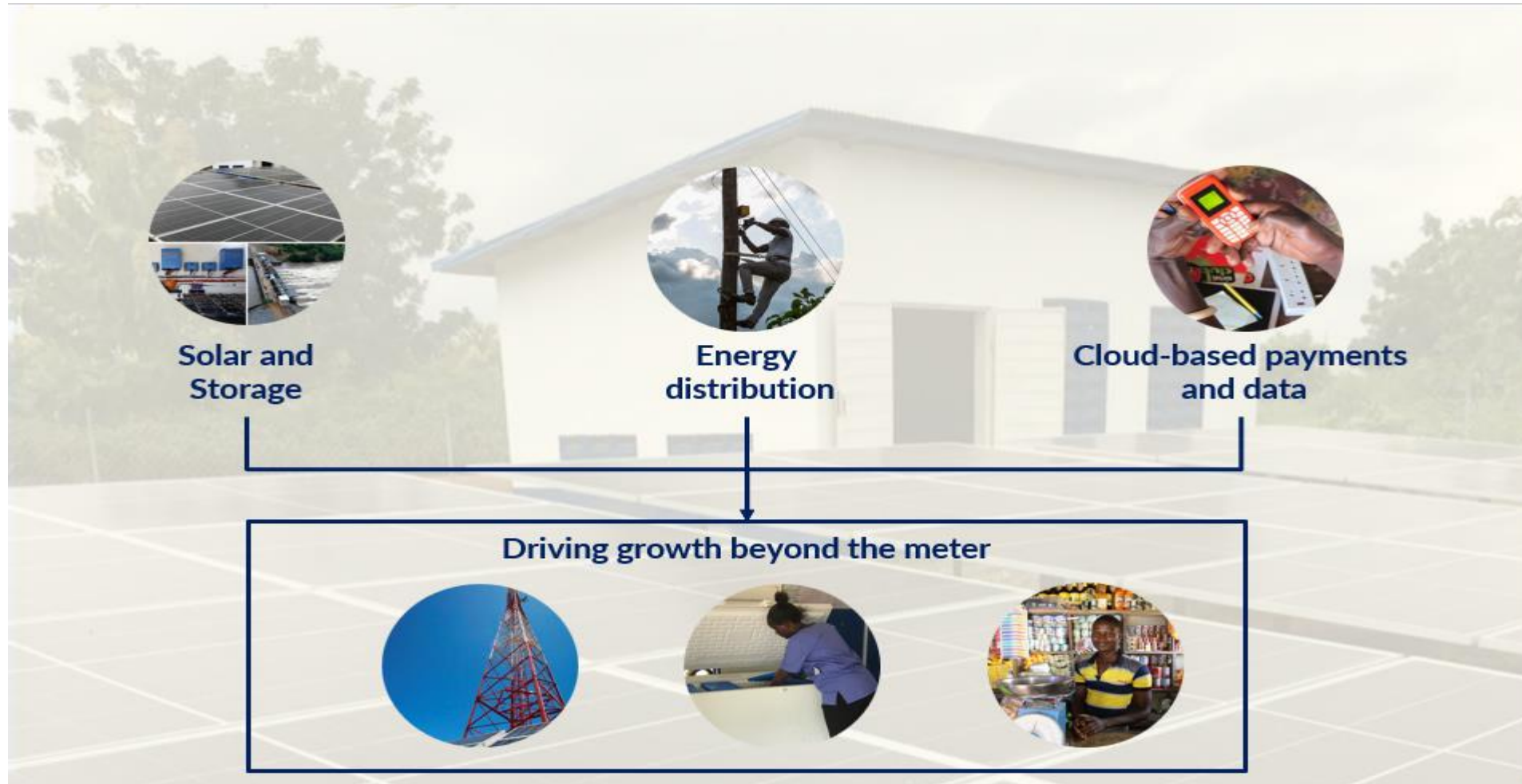


~1.2 GW installed (2023)



Distributed Energy Utilities

MODULAR | SUSTAINABLE | COST-EFFECTIVE



De-Commoditizing the Kilowatt Hour

Clean Energy venture-backed businesses combine energy with other use cases

Solar + Consumer Finance

Ag + Solar

Mobility + Solar

Mobility



Irrigation



Cold Storage



Market inefficiencies- lack of credit, access to finance, lack of data etc – require more complicated businesses, and enable more compelling businesses

So why not Africa

Challenges

- Slow-er
- Regulatory volatility
- Land ownership
- Currency

Opportunities

- Pain-Killer Demand

Renewable Companies Making it Work

The image displays a collection of logos for various companies in the African renewable energy and agri-tech sectors, organized into several categories:

- RENEWABLES:** arnergy, Brayfoil, Cold Hubs, DCGO, easy solar, energicity, Impact-free Water, Jaza, VE, OOLU, pawame, SeaH4, SOLAR FREEZE, solarpanda, solarise africa, SOLARX, Yellow.
- FOOD SYSTEM:** Apollo Agriculture, DeNovo Foodlabs, ecodudu, insecO, NEWFARM, Rural Farmers Hub, Synnefa, VICTORY FARMS, WildBio.
- STORAGE & DISTRIBUTION:** AFRICA GREENCO, i-G3N, nuru, plentify.
- DATA & FINANCE:** ThriveAgric.
- MOBILITY:** BASI, ecobodaa, max, MAD MOBILITY, mellow, ROAM.
- CIRCULAR ECONOMY:** EDOMAX REDYOBERS, ECOVON, I-Drop Water, KALTANI, LeafyLife, LIWANDA BIOTECH, Helplast Eco, Scrapays, zianit.
- RESOURCES:** HYPHEN.
- BUILT ENVIRONMENT:** citra, KUBIK.

A prominent green box on the right side of the grid features the text "2023 AFRICA CLIMATE TECH 50" and the HolonIQ logo.

“It does look as if Africa is not ready, but people are ready... Africa is very quick to adopt change.”
- Adetayo Bamiduro.

Footnote

Other opportunities in African Energy Transition

- Smart cities
- Hydrogen
- Circular Economy
- Metals needed to deliver energy transition globally

THANK YOU!

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