



ATA Insights Webinar:
Potential for Renewables in East Africa

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Vahid Fotuhi

- Access Power is a Dubai-based developer, owner and operator of power assets in Africa and Asia
- Access Power is currently developing 1,500 MW of wind and solar projects across 23 countries in Africa and Asia
- Access Power delivered in 2017 the largest solar plant in East Africa (Uganda)
- Access is in advanced development of the largest wind farm in southern Africa (Zambia)



**23
Countries**

In Africa
and Asia



**30,000
MW**

Team
experience



**+1\$
Billion**

Assets under
development



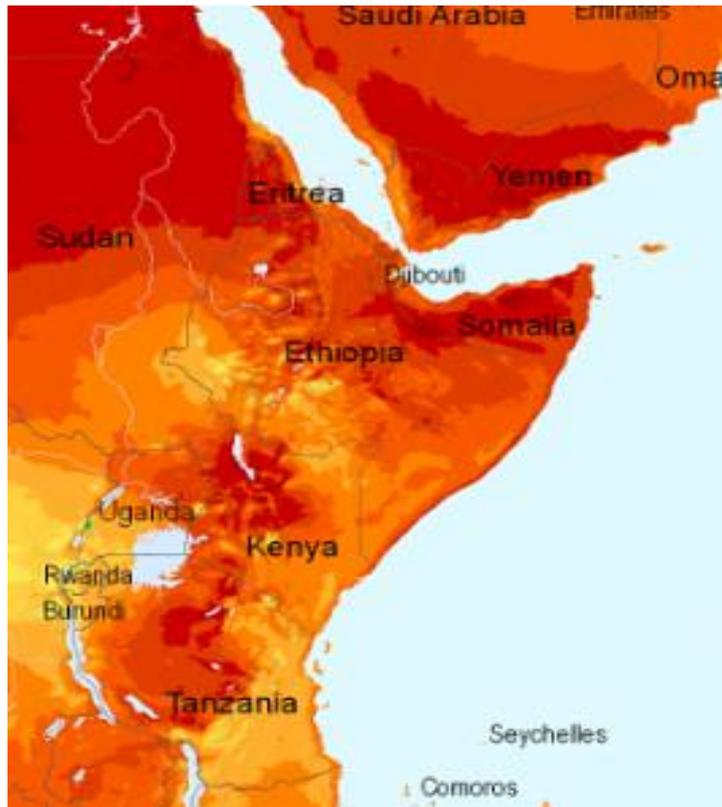
**1,500
MW**

Projects
Pipeline

A background image showing a series of high-voltage power transmission towers and power lines stretching across a landscape under a clear sky. The towers are silhouetted against the light, and the lines create a sense of depth and perspective.

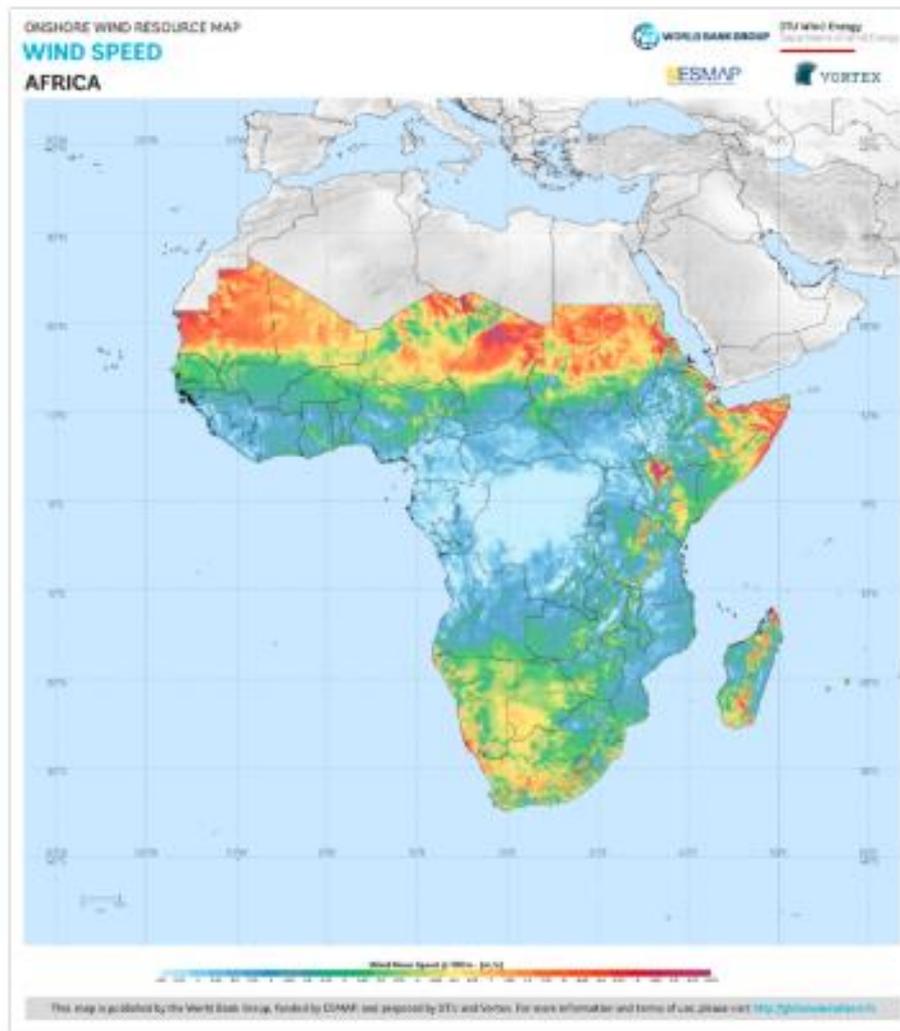
East Africa power market: 7,000 MW

Expected to **DOUBLE by 2025**



Average annual sum (4/2004 - 3/2010)
Legend: < 1600, 1800, 2000, 2200, 2400, > kWh/m²

- East Africa is blessed with huge solar energy resources
- Resource levels are amongst highest in world
 - Peak solar: 2,500kWh/yr
 - Average: 1,800 kWh/yr
 - Better than Germany
- 200MW of solar power currently with signed PPAs and COD dates in next 2 years



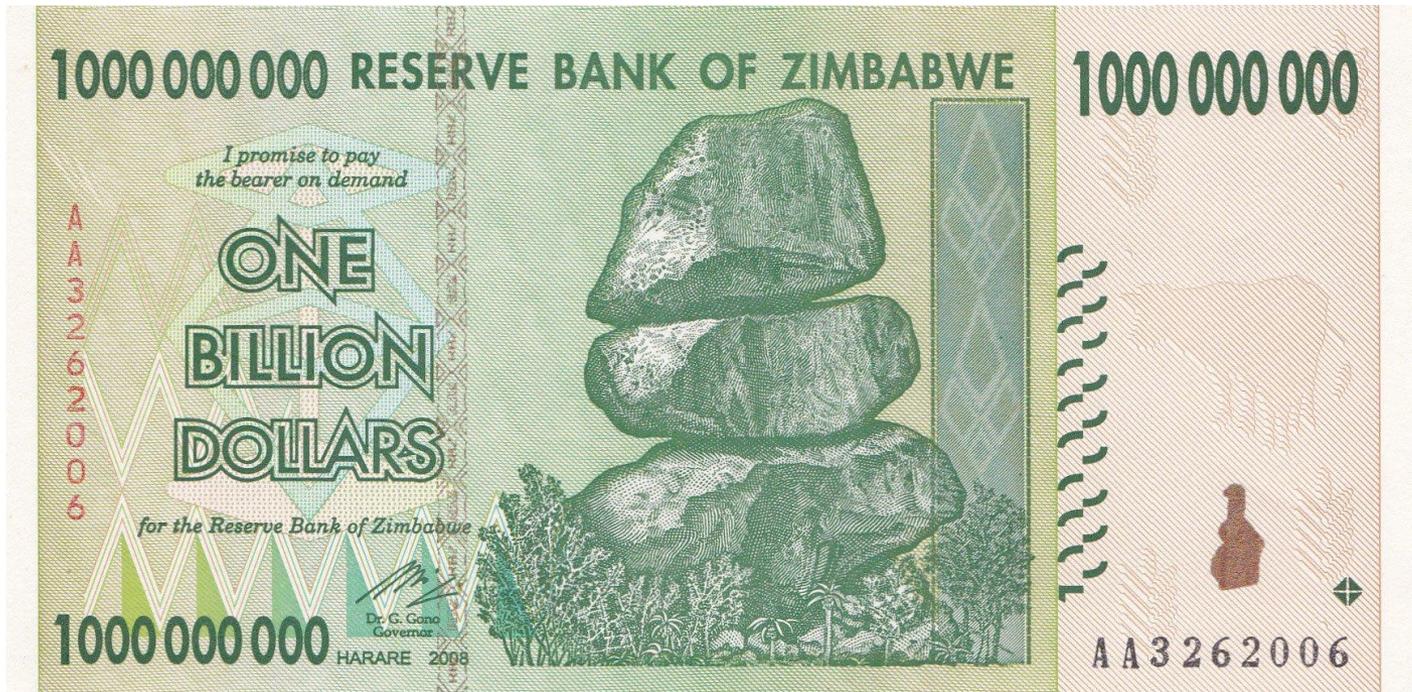
East Africa also has some of the best wind resources in the world

Wind speeds can reach 20 m/s in Lake Turkana, averaging over 10 m/s

Largest **power plant** in East Africa is currently a wind farm (LTWP)

Wind energy can be expanded given its baseload features (75% capacity factors, similar to hydro)

Wind power is cheaper than geothermal or hydro



Amount in US Dollars invested in power generation in Ethiopia, Kenya, Uganda, Tanzania and Rwanda over past 10 years.

800 MW

Electricity surplus in EA region

Only Tanzania and Rwanda are experiencing a power deficit

Surplus power is projected to exceed 3,000MW by 2025

- Eastern Africa Power Pool (EAPP) is expected to interconnect EA power markets
- EAPP would further connect with the Southern and West African markets, effectively transforming Africa into an integrated power trade market
- Delays in implementing Ethiopia-Kenya-Tanzania high-voltage HV lines have slowed down EAPP plans.
- Ethiopia has potential to earn over **\$200m** in power exports to Tanzania over the next 4 years (source: Power Africa).
- Tanzania could save up to **\$500m** by substituting its expensive emergency power with cheap imported electricity.



Contact info:

Vahid Fotuhi

+971 4 453 9508

vfotuhi@access-power.com