30 August 2023

Innovations Session N°14 Climate-resilient practices and innovations by agrifood SMEs

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Hybrid Renewables delivering Holistic Solutions to the Energy access "Trilemma" of Reliability, Sustainability, and Affordability.

Climate-resilient practices and innovations Peter BenHur Nyeko Augu

August 2023





Over Half the World's close to 1 Billion without electricity, live in Sub- Saharan Africa

1 person in Europe consumes more electricity than 50 people in Least Developed Countries

750 Million+ In Africa, Asia, Latin America & the Caribbean without Electricity



Million+ Children

without electricity



60%4 Of Developing World Rural Farmers



Crop Harvests Iost without Processing

2 Billion+

Cook with Wood Fuels

3 hours Every day



Smoke Suffering, disease & death







Energy Access A Multi Billion Dollar **Energy Opportunity** in Least Developed Countries

households

below 20%.



Grid **connectivity** exceeds 50% for wealthiest 20% of

For poorest 50% of population, connectivity



of global emissions

Deforestation, destruction

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...Agriculture and agribusiness in Africa will triple to a Trillion Dollar market by 2030.

...need to increase access to energy, technology... to allow for better and increased farming.

"a strong agribusiness sector is vital for Africa's economic future."





of sustainable energy,...

settings.

"bottom-up" approach,

SEAR Special Feature Paper on Energy Access: Food and Agriculture (Dubois et al. 2017)

To scale-up uptake

important to align with local

...through a people-centered

SEAR Special Feature Paper on Energy Access: Food & Agriculture (Dubois et al. 2017)

Farmers need:

- High quality & affordable energy,
- Increase in amount of energy used
- Access to wide range of appliances

— a holistic approach to smallholders' energy needs.

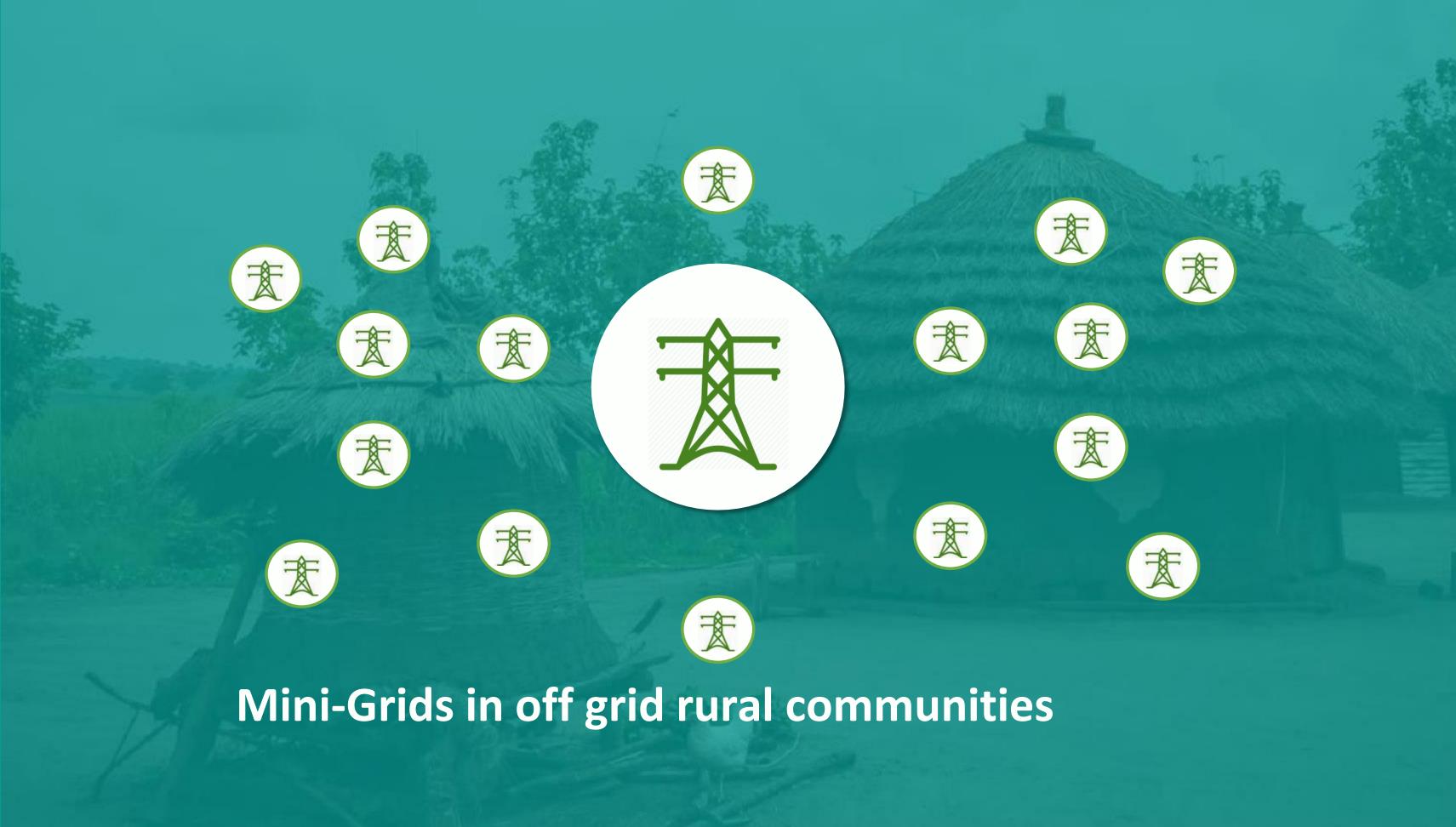


Agricultural Residues

into cooking fuel and electricity



Gasification



Powering Agriculture



Crops --> Processing -> Waste -> Energy --> Electricity Services Production





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Cooking Fuel & Bio-Fertilizer





Improved Livelihoods 1M+ farmer families



Target Impact 1M+ Ton CO2 removed annually



Growth across the Globe

IMPACT Pipeline

Better Incomes, Health, Education, Jobs





Affordable. Reliable. Sustainable.

@mandulisenergy



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Thank you



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