



SB56 2022

11 June, 2022 - 11.30 - 13.00
Room: Berlin



Local Climate Sustainable Energy Solutions in Global Stock Take, 100% RE, Sufficiency: East Africa, South Asia, Europe

Welcome by the organisers INFORSE – SusWatch Kenya, - NFRE – SE - Intro & Moderator: Judit Szoleczky, INFORSE

Local Solutions in East Africa / Catalogue:

Mary Swai, TaTEDO, INFORSE-East Africa, Tanzania

100 % Renewables Scenarios - Kenya

Nobert Nyandire SusWatch Kenya

Local Solutions in South Asia: India, Nepal, Bangladesh, Sri Lanka. Eco-Village Development Catalogue & Policy Brief

Sanjiv Nathan, INSEDA, INFORSE-South Asia

Sufficiency - overlooked climate action in Global North

Gunnar Boye Olesen, INFORSE-Europe & SE

INFORSE-East Africa Proposals for getting local Solutions into GST

Richard Kimbowa, UCSD, INFORSE-East Africa

Comments

Stephen Nzioka, Ministry of Energy, Kenya

Dialogue on how to integrate local solutions in GST to strengthen climate action - Questions & Answers

More: <https://inforse.org/SB56.php>

Thanks to support:





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**Local Climate Sustainable Energy Solutions in Global Stock Take, 100% RE, Sufficiency:
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100% Renewable Energy for Kenya

Nobert Nyandire

National Coordinator, Suswatch Kenya





What is Renewable Energy?

- Renewable energy encompasses all renewable resources, including bioenergy, geothermal, hydropower, ocean, solar and wind energy.
- 100% renewable energy means that all sources of energy to meet all end-use energy needs in a certain location, region or country are derived from renewable energy resources 24 hours per day, every day of the year.
- Any storage facilities to help balance the energy supply must also use energy derived only from renewable resources.” - IRENA, 2020



Why Renewable Energy?

- Throughout the entire modern age, mankind has used fossil fuels to meet its energy requirements.
- But as human development accelerated, the unsustainability of such energy became apparent.
- Global fuel supplies deteriorated and the atmosphere became more polluted. The search for renewable sources of energy began, to ensure a sustainable future.



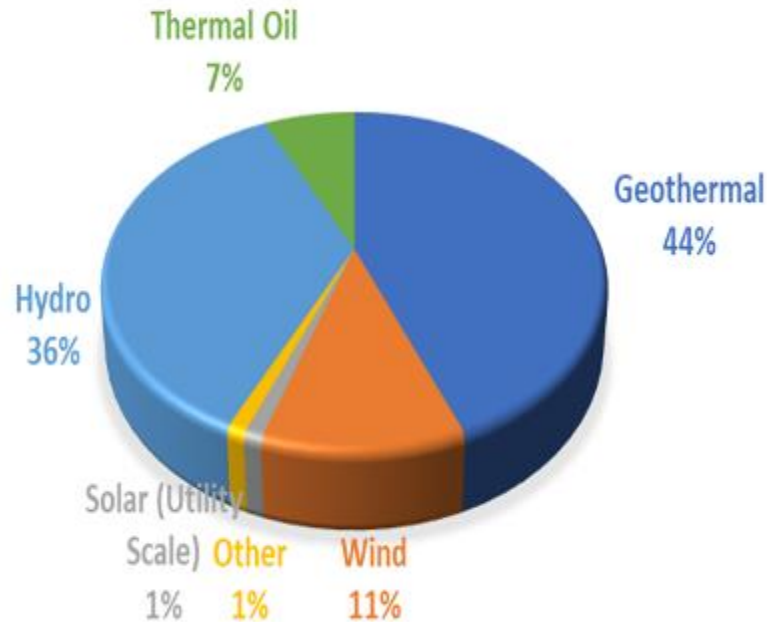
Why RE in Kenya?

- It will create new jobs
- Boost economic growth
- Harvest social and health benefits
- Mitigate impacts of climate change.
- Decrease Energy Costs.

RE Resources and Potential Available in Kenya

Renewables Provided 92.3% Of Kenya's Electricity Generation in 2020! (KNBS)

SHARE OF ELECTRICITY GENERATION IN
KENYA IN 2020

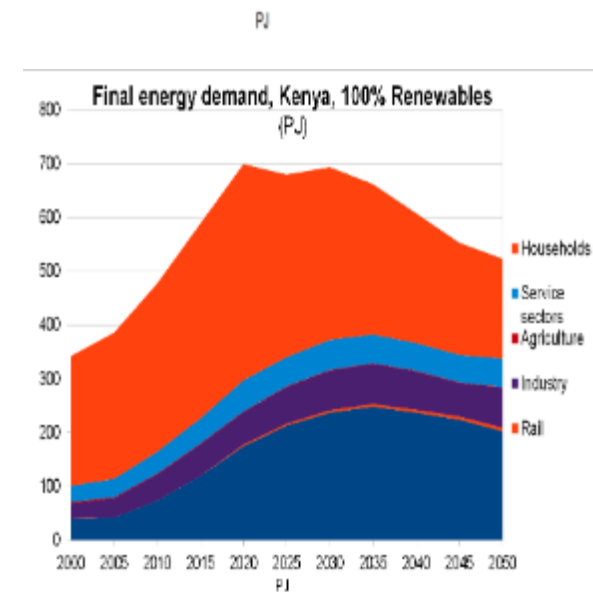
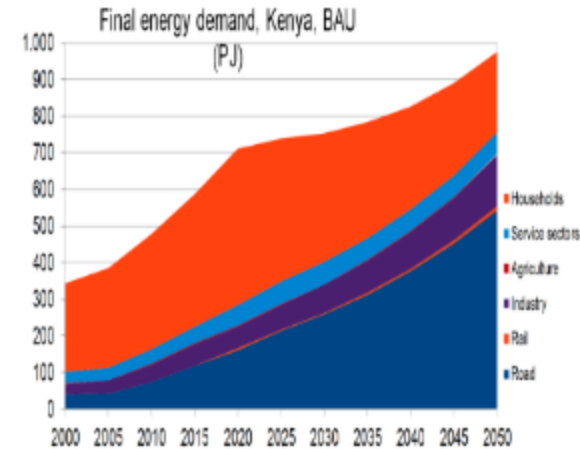


- Geothermal led the way at 44%, followed by hydro at 36%. Wind was at 11%, then thermal oil at 7%, followed by some utility-scale solar and other sources at 1% each.
- Kenya's Great Rift Valley has an estimated geothermal potential of [10,000 MW](#).
- This dependable clean energy potential puts Kenya in a great position to get to 100% from renewables very quickly. As the economy grows, electricity from geothermal can be a key anchor.

Kenya's Demand for Energy

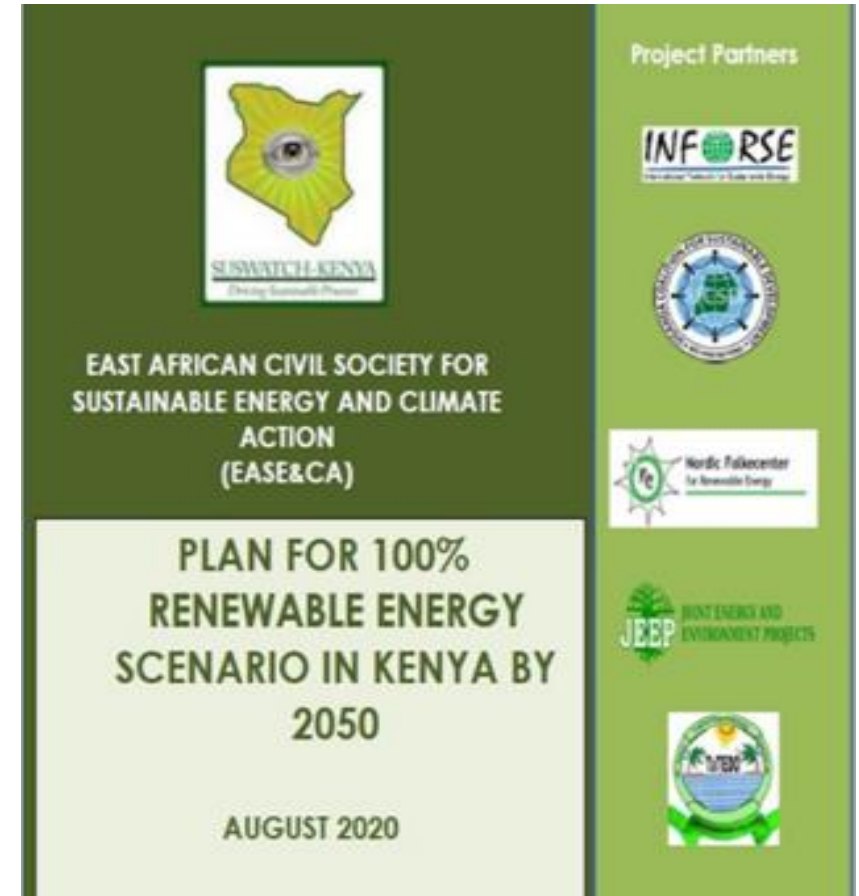


- Population grows, from 48 million (2019), to (maybe) 84 mill. in 2050
- GDP continue to grow, 5.7%/year in average, GDP 5 times bigger in 2050.
- Demand for energy services will grow with population and GDP.
- Increasing energy efficiency will limit growth in energy demand for cooking, transport, light, industry etc.; but without new actions, energy demand will still grow.



Proposed 100% Renewable Energy Development for Kenya

- Efficient cooking
- Change transport gradually to electricity, hydrogen and renewable fuels
- Make charcoal production much more efficient, from <15% today to 33%
- Expand windpower to 9,000 MW
- Expand solar power to 17,000 MW
- Expand geothermal power to 5,600 MW
- Expand electric interconnectors to 3,000 MW capacity
- Biomass power plants to balance demand and supply



Thank you..!

More info Contact: Suswatch Kenya



www.Suswatchkenya.org/ease

EASECA Project: inforse.org/africa/EASE.htm

Catalogue: www.localsolutions.inforse.org

100% Renewables Kenya: www.suswatchkenya.org/100-renewable-energy-plan-for-kenya-by-2050/

Proceedings: www.inforse.org/SB56.php