



# COP26 2021

## 5 November 2021

11.30 AM - 12.45 AM (UK time)



# Local Climate Solutions & Eco-Village Development, 100% RE in NDCs, East Africa, South Asia, Europe

## Turning Kenya to 100% Renewable Energy

by N Robert Nyandire

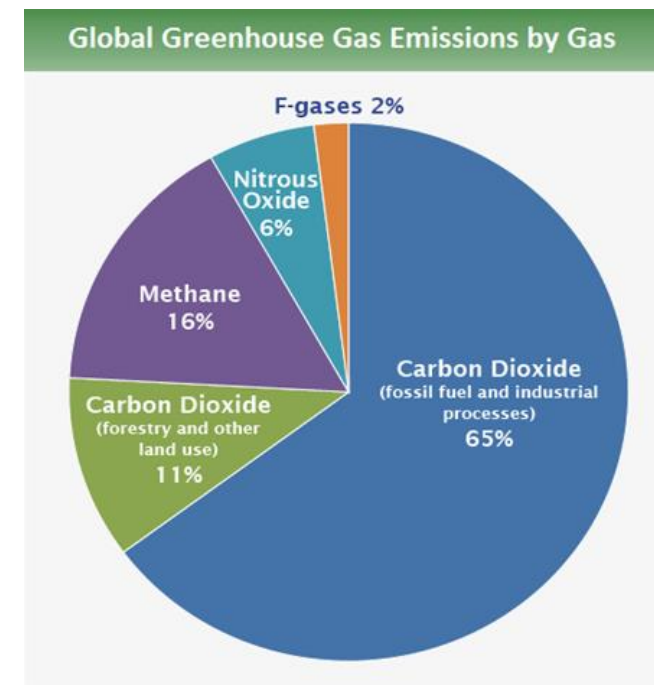
### Sustainable Environmental Development Watch, Kenya



# Kenya's Pathway to 100% Renewables

## Background

- Energy is the lifeblood of all societies. But its production from burning of fossil fuels produces carbon dioxide emissions that are released into the atmosphere on a grand scale.
- Energy sector accounts for more than 70 percent of total global greenhouse gas emissions, which are driving climate change worldwide. Reducing Carbon Dioxide emissions from the energy sector has a direct and positive impact on climate protection.



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- Provision of clean and sustainable energy is essential for the realization of Kenya's Vision 2030 and the Big Four agenda and is considered as one of the infrastructure enablers of the socio-economic pillar of the Vision.
- To meet the growing energy needs of its citizens, the Kenyan government actively pursues new technologies to expand and upgrade the networks as well as promote the transition to a renewable based energy system.



Solar Cooker



Flexi biogas

# Milestones

## Cleaner cooking

- ❑ Kenya has an ambitious target of achieving 100% access to modern cooking services by 2028 including efficient cook stoves for wood and charcoal, household biogas, LPG stoves, and others.

## Renewables

- ❑ Renewable energy currently accounts for 70% of the installed power capacity including large hydro-power. It accounts for more than 70% of the power generation, but production varies from year to year with hydropower production that is low in dry years (Ministry of Energy 2019)



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# Recommendations

- Investing in modern energy solutions with energy efficiency and cleaner, renewable energy should be prioritized this involving gender equality.
- Diversifying the energy mix into different renewables to reduce over-reliance on finite resources.
- More budget allocations to fully finance the exploitation of clean and renewable energy sources that are locally available like geothermal, wind, solar and biogas.
- Managing the cost of energy through optimal combination of energy efficiency and affordable renewable energy should be a priority. Expensive energy solutions as nuclear power should be avoided.



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- Make biomass use for energy sustainable with a combination of efficient biomass use, efficient charcoal production, increased supply with plantations etc.
- Make transport energy sustainable with use of electric transport, based on renewable electricity for instance; small electric vehicles like scooters, e-bikes, 3-wheel taxis on electricity.
- Raising public awareness of more efficient energy use, including energy efficiency measures, local use of renewable energy, and new technology developments.



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- Involving local communities and county governments along the entire energy chain as well as transparent and accountable management of resources for the mutual benefit of all to reduce tensions and enhance ownership of projects.
- Gender mainstreaming in the implementation of energy projects and programs. There is need to implement the gender and energy policy by the ministry of energy.
- Fiscal investment in greening of the economy to reduce the impact of climate change and environmental degradation.



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**For more information:**

[www.suswatchkenya.org/catalogue-of-east-africa-local-sustainable-solutions](http://www.suswatchkenya.org/catalogue-of-east-africa-local-sustainable-solutions)

[www.suswatchkenya.org/100-renewable-energy-plan-for-kenya-by-2050](http://www.suswatchkenya.org/100-renewable-energy-plan-for-kenya-by-2050)

<https://www.inforse.org/africa/EASE.htm>

**Proceedings: [www.inforse.org/cop26.php3](http://www.inforse.org/cop26.php3)**



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