

Kenya's Renewable Energy Policy in Support of the Minigrids

Reaching Universal Energy Access in
Ghana by 2020

and

5th Mini Grid Action Learning Event
and Summit 21st March, 2018



Mission & Vision



Mission

To facilitate provision of :

- ✓ clean,
- ✓ sustainable,
- ✓ affordable,
- ✓ **competitive** and
- ✓ secure energy

for national development while protecting the environment ...



Vision

... affordable, **competitive**
quality energy

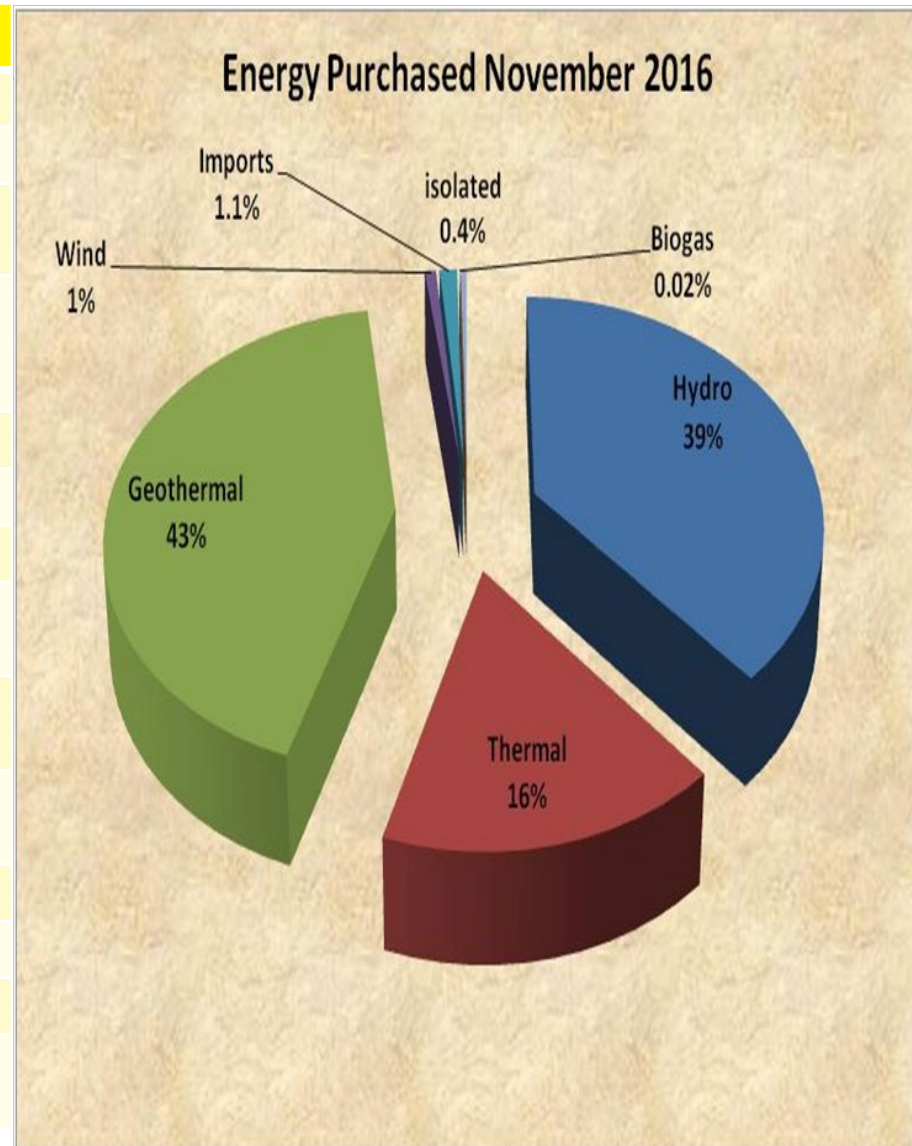
for all Kenyans ...

Mandate of RE Directorate

- ❖ formulation and review of RE Policy ;
- ❖ Promotion and development of RE Technologies, EE&C
- ❖ Feed-in-Tariff policy formulation and review;
- ❖ Development of technical & energy performance standards, energy rating labels and regulations in collaboration with Kenya Bureau of Standards and other statutory organizations;
- ❖ Feasibility studies on renewable energy, energy efficiency & conservation projects; and
- ❖ Mobilization of funding for renewable energy, energy efficiency & conservation projects.

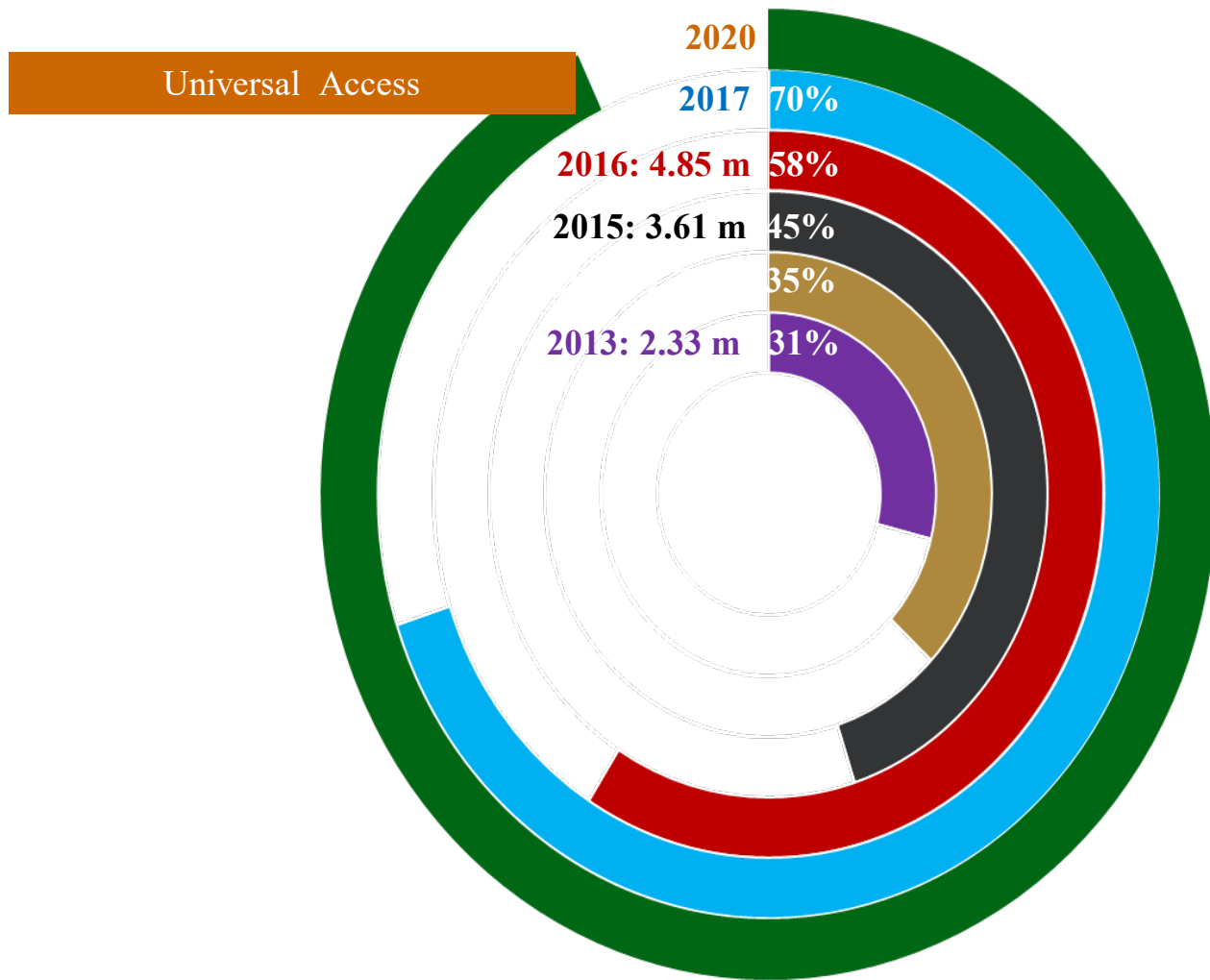
CURRENT GENERATION CAPACITY

	Installed MW	Effective MW
Hydro	818.7	797.9
Geothermal	672.9	636.9
Thermal (MSD)	716.3	690.1
Temporary Thermal (HSD)	0.00	0.00
Thermal (GT)	60.0	55.0
Wind	25.5	25.5
Cogeneration	26	21.5
Biogas/Biomass	2	2
Interconnected System	2,321	2,229
Off grid thermal	23.18	18.2
Off grid wind	0.55	0.20
Off grid solar	0.569	0.569
Imports	0.000	0.0
Total Capacity MW	2,347	2,248.7



Electricity Access Growth: Customer Numbers

Our Intention is to Deliver Universal Access to Energy in Kenya by 2020



Year	Population size "Million"
2013	41.8
2014	43.0
2015	44.2
2016	45.7
2017	46.3
2020	52.0

Current connected: 6.5 million, > 71%

Current Energy Policy & Regulatory Framework

- 🌸 Sessional Paper No. 4 of 2004 on Energy;
- 🌸 Energy Act, 2019;
- 🌸 Feed-in-Tariff Policy 2012
- 🌸 Kenya Electricity Investment Prospectus
- 🌸 SE4All Investment Prospectus
- 🌸 SREP

Mini grids in Kenya

- ❖ In 2018 developed the Kenya National Electrification Strategy (KNES)
 - ✧ *Grid Densification and intensification*
 - ✧ *Mini Grids*
 - ✧ *Stand Alone systems*
- ❖ Off-grid renewable energy solutions will be key to achieve universal access to electricity.
- ❖ Private sector involvement will accelerate growth in mini-grid deployment.

Why Develop and promote Mini-Grids?

- 🌸 Increase the rate of Electrification
- 🌸 Involvement of private sector
 - ✧ *Innovation*
 - ✧ *Private funds*
- 🌸 Use of locally available natural resources (solar and wind)
- 🌸 Easily scalable as population increases or other issues come up

RE Policies, Regulations and Standards

- ❖ Feed –in-Tariff Policy, formulated in 2008 revised in 2010 and 2012. Currently under review
- ❖ Currently working in transitioning from FIT Policy to Renewable Energy Auction
- ❖ Solar PV regulations, 2012
- ❖ Energy Management Regulations, 2012
- ❖ Improved Cook stoves standards, 2014
- ❖ Domestic biogas standards, 2015
- ❖ Small hydro power standards - Under development

At the Moment:

- ❖ Energy Act assented by the President in March 2019.
- ❖ Launched the KNES in December 2018
- ❖ It is intended that renewable energy will play an increasingly important role in mini-grids.

At the Moment:

- ❖ Mini-grids are only playing a relatively minor role in supplying electricity to Kenyan households.
- ❖ Currently 21 mini-grid stations are in operation.
- ❖ *Projected investments - Off-grid electrification*: investments in mini-grids, solar home systems and institutional solar PV systems (KESIP, 2016)

Example of current mini grids initiative: KOSAP Project

- ❖ **Component 1:** Mini-grids for Community Facilities, Enterprises, and Households
- ❖ **Component 2:** Standalone Solar Systems, and Clean Cooking Solutions for Households
- ❖ **Component 3:** Standalone Solar Systems and Solar Water Pumps for Community Facilities
- ❖ **Component 4:** Implementation Support and Capacity Building



Thank you

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