

Access to electricity in sub-Saharan Africa

Access results

International Energy Agency

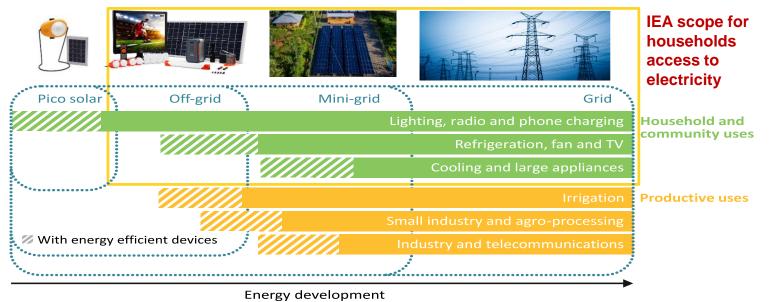
What is access to modern energy

- <u>https://www.iea.org/articles/defining-energy-access-2020-methodology</u>
- <u>https://sdgs.un.org/goals/goal7</u>

Coals 7 Ensure access to affordable, reliable, sustainable and modern energy for all

How to define access? No single internationally-adopted definition

Different technological solutions and and several uses

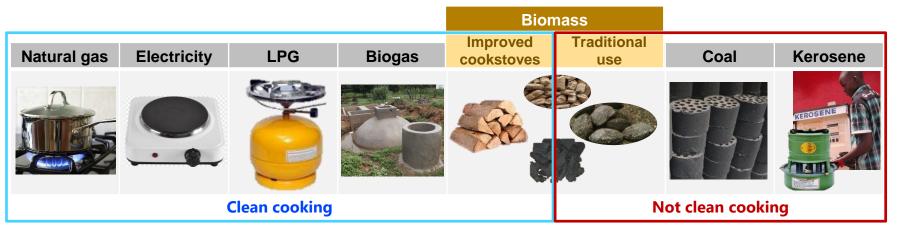


 IEA definition : Electricity access entails a household having initial access to sufficient electricity to power a basic bundle of energy services – at a minimum, several lightbulbs, phone charging, a radio and potentially a fan or television – with the level of service capable of growing over time.



Defining clean cooking access

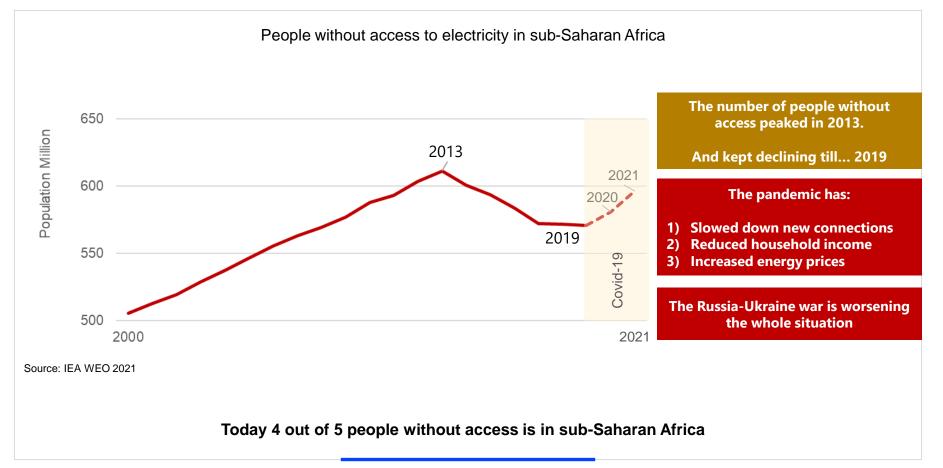
- Solid biofuels in developing countries are mainly used for cooking, a topic covered under the SDGs
 SUSTAINABLE DEVELOPMENT GOAL 7
 Ensure access to affordable, reliable, sustainable and modern energy for all
 - Target 7.1: Ensure universal access to affordable, reliable and modern energy services
 - Indicator 7.1.2: Proportion of population with primary reliance on clean fuels and technology



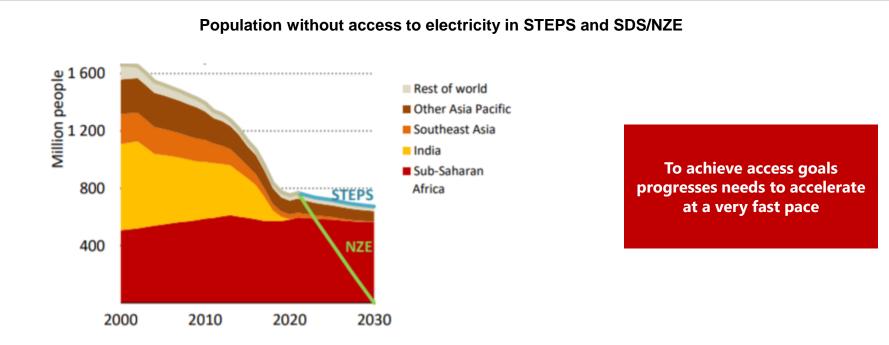
• Definition: access to clean cooking facilities means access to (and primary use of) modern fuels and technologies



Sub-Saharan Africa access historical trends



Global access Trends and projections



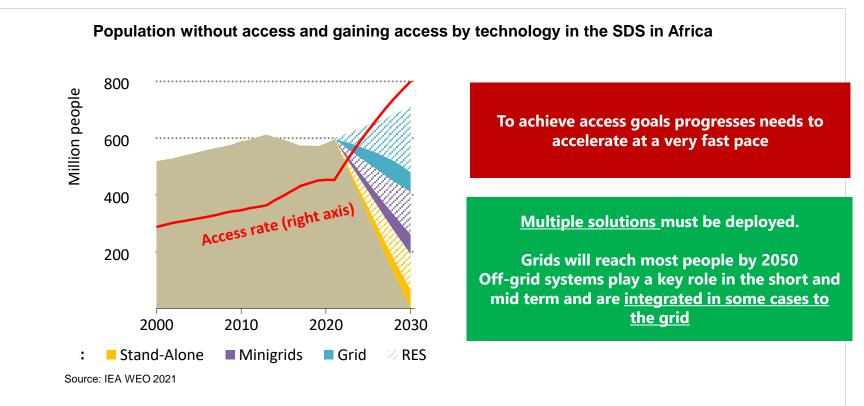
Source: IEA WEO 2021

If no additional efforts in policies and investments are deployed, by 2030 more than 650 million will still be lacking basic electricity access, most of them in sub-Saharan Africa.

led

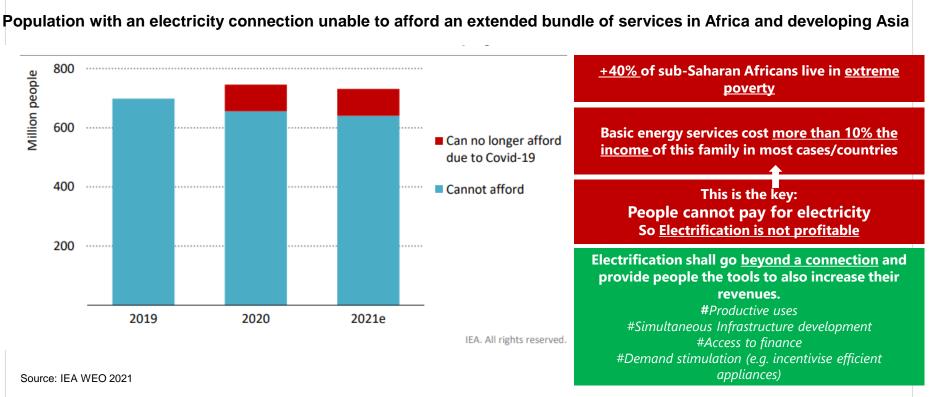
Africa is far from achieving universal electricity access

lea



Access rates must increase at unprecedented pace from a low of 45% today in SSA. Grids provide access to around 45% of people gaining access, Mini-grids and stand alone system covering the Gap.

Why is it so difficult to make improvements: Affordability



Even before the pandemic, 700 million people could not afford an extended bundle of electricity services; Covid-19 increased this number by 90 million

Conclusions

- Modern **energy services** is **a right** of every human;
 - And yet almost half of people in SSA are in the dark.
- The pandemic and now the Russian war slowed down and reversed progress in some countries;
 - Stronger actions, policies and investments are now needed.
- Multiple solutions shall be considered;
 - Grids alone cannot solve the problem.
 - Off-grid solutions like mini-grids and solar home systems are key.
- Access shall finally aim at improving household income affordability
 - To ensure in the mid-term selling electricity is a sustainable business.
- Upcoming: The IEA will release this month the Africa Energy Outlook 2022
 - with a lot of content on access but also on the power sector and all the other energy supply and demand trends, projections and best practices.
 - Stay tuned.



Thanks Gianluca.Tonolo@iea.org