OPPORTUNITIES AND TRENDS BRIEF March 2021 Kenya: A mature stand-alone solar market that is moving to new frontiers



#### 52.5 m Total Population

90 People per km<sup>2</sup> Population Density

Framework for Stand-alone Systems Score

Regulatory Indicators for Sustainable Energy (RISE). 99 out of 100

PAYG Market Attractiveness Index (Score)

100% by (<u>100%</u> 2022 ≅ಾ

Government target for universal electrification.





Ease of doing business rank

Donor Programmes supporting SAS



Kenya's national electrification access increased from 23 per cent in 2009 to 75 per cent in 2020, including off-grid access. The proportion of households using solar as the main source of lighting increased significantly from 1.6% in 2009 to 19.3% in 2019.<sup>2</sup> About 99% of Kenya's off-grid electrification is through solar home systems.

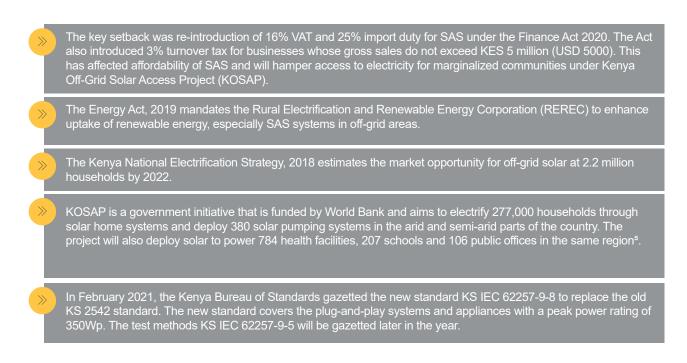


Nearly **1.28 million households** and businesses that government targeted to connect through the grid by **June 2020** were not electrified due to budget constraints and long approval processes for tax exemptions<sup>3</sup>. Deploying stand-alone solar could be a cost-effective way of bridging that gap and attaining the universal access target.



Consumers are willing to pay between KES 153 (USD1.46) and KES 805 (USD 7.67) per month for solar home systems through the pay-as-you-go model<sup>4</sup>.

#### The government has been active in supporting the SAS sector, but there was a setback in 2020



# Many of the international SAS companies in Kenya have attracted significant financing over the last 10 years. Some of the funding focusing on Covid-19 recovery includes:



**GET.invest Finance Catalyst COVID-19** window support on strategy including business continuity, business and financial structuring as well as financial modelling, access to finance support and transaction advisory.



**Private Financing Advisory Network** (**PFAN**) with focus on business continuity, access to special Covid-19 Relief Funds and rescheduling and renegotiation of existing facilities.



AfDB's Covid-19 Off-Grid Recovery Platform is providing concessionary loans to support companies that are struggling through the pandemic.



CLASP's Conversion of Results-Based Financing incentives for appliances together with funding from USAID Power Africa and Energizing Development program



The **Energy Access Relief Fund (EARF)** has been designed to provide up to four-year tenure, subordinated, unsecured, low-cost, subsidised loans to viable companies that are facing liquidity challenges due to COVID-19. Its primary focus is expected to be on loans of less than **USD1 million**, within a range of **USD100,000 to USD2.5 million.** 

### The Kenya Renewable Energy Association is active in advocacy and gaining credibility. Other key trends we noted were:

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SAS companies in Kenya were recognized as essential service providers during the COVID-19 lockdown.



The Kenya Renewable Energy Association has about 90 members. The Association has been advocating for the return of tax exemptions, after VAT was reinstated through the Finance Act 2020.



E-waste Management Regulations that cover SAS are being developed by the National Environmental Management Authority. This will affect solar companies.

The Ministry of Energy launched a Gender Policy in 2019 to promote the participation of women and youth in the energy value chain.

## A referendum and national elections and could affect the country's economic recovery. The significant challenges likely to affect the SAS

The economic and social disruption caused by COVID-19 has resulted in over two million more Kenyans sliding into poverty.6

A national referendum to amend the constitution could take place before the end of 2021 while the national elections will be held in August 2022. Historically, a referendum and national elections create tension and political instability in the country.

#### **In conclusion**

Given the maturity in the market, there are increasing opportunities in the market to utilize solar energy as an enabler for small cottage industries and agriculture. This will lead to improved livelihoods, higher incomes and economic development.

#### References

<sup>1</sup>World Bank (2020) Doing Business

- <sup>2</sup>Economy Survey, 2020
- <sup>3</sup>Business Daily (2020) Kenya Fails to connect 1.28m to power grid
- <sup>4</sup>IFC (2018 ) PAYG Market Attractiveness Index

<sup>5</sup>Lighting Global (2018) Kenya Off-Grid Solar Access Project for Underserved Counties

<sup>a</sup>https://www.worldbank.org/en/country/kenya/publication/kenya-economic-update-covid-19-erodes-progress-in-poverty-reduction-in-kenya-increases-number-of-poor-citizens