



INTERSOLAR

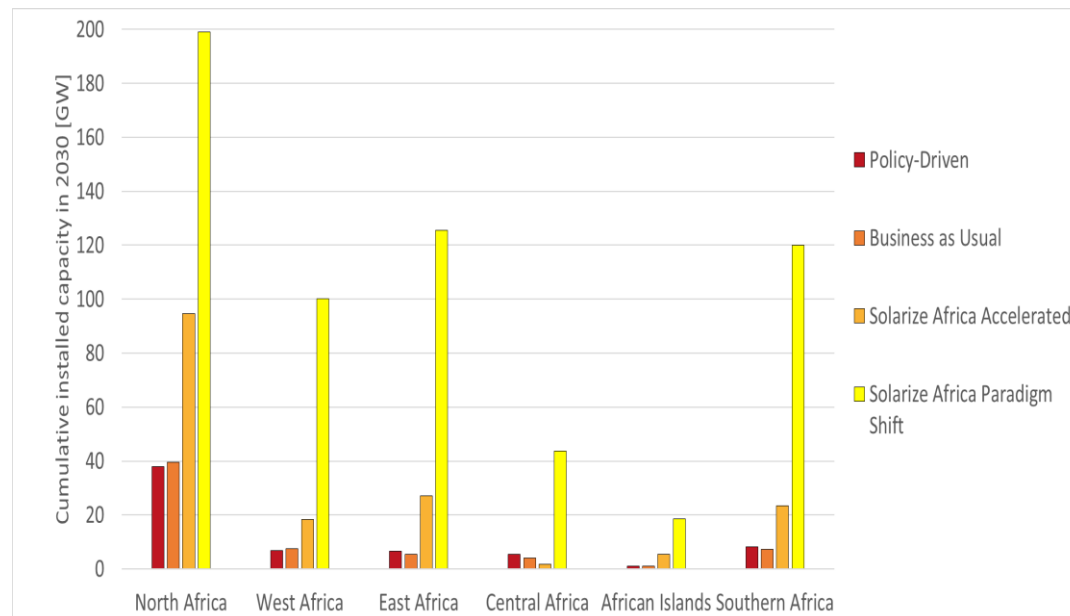
SOLARIZE

AFRICA MARKET REPORT 2020

David Wedepohl, Managing Director for International Affairs,
German Solar Association (BSW Solar)

In a nutshell

- With **6.6 GW** at the end of 2019, the African continent still represents only **one per cent** of the world's installed PV capacity [1]
- In depth analysis of 16 African countries in study shows: New mood of invigoration, better **framework conditions** and/or policies in the works that will **improve the market conditions for solar power**
 - Most African countries are very attractive for the solar energy market from an irradiation perspective as well as **growing energy demand**, growing **populations** and **economies**
 - Africa's abundant solar resources could to be used a lot more, this would benefit national **economies**, **create jobs** and help many **isolated communities**
- **Half of the mini-grids** in planning stages globally in 2019 were planned to be installed in Africa [2]



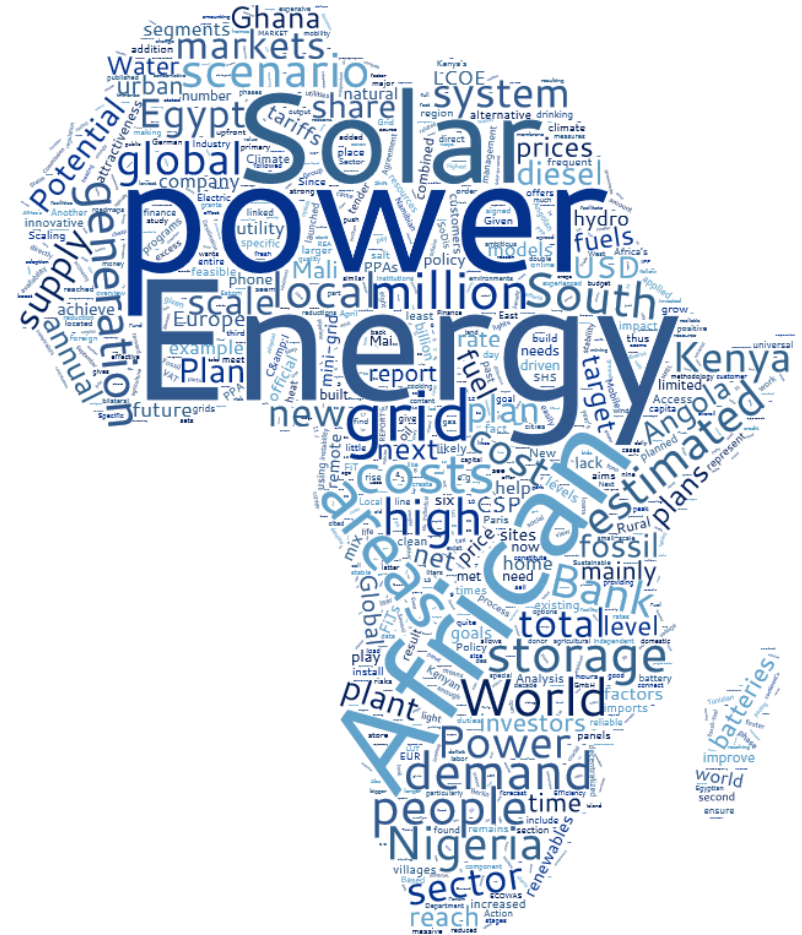
The "Solarize Africa Accelerated" scenario expects a cumulative installed capacity of 170 GW in 2030

What's in it?



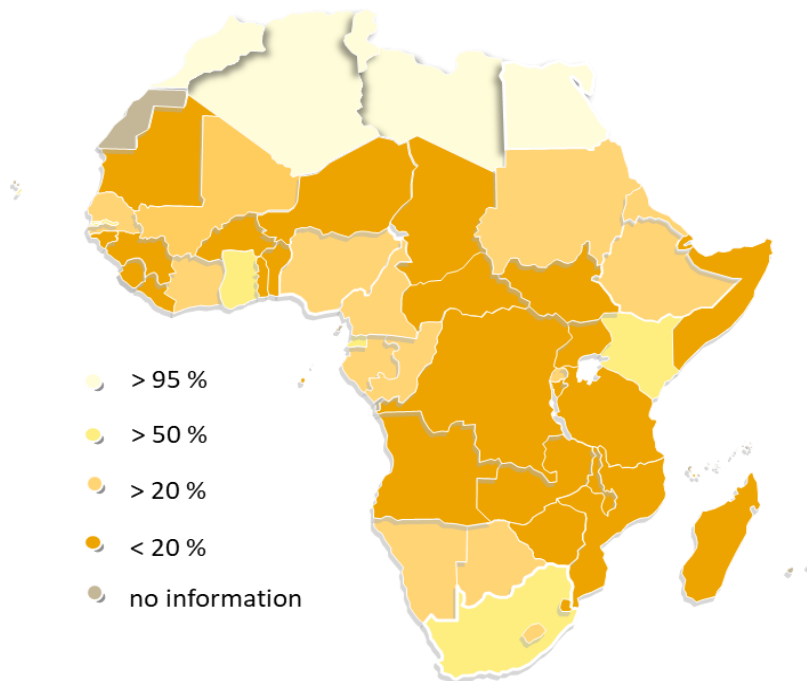
The Solarize Africa Market Report 2020 contains:

- Analysis of energy transition on the African continent
- 2019 PV market status per region and country
- In-depth analysis of PV markets in 16 African countries
- Scenarios as possible market development forecasts
- Ranking of countries according to attractiveness for PV
- Focus on special market conditions
- **Off-grid market & solutions**
- Business models for the energy transition
- Analysis of solar energy supporting policies
- **The combination of solar power and water**
- Outlook on electric vehicles and storage technologies



Off-grid market

- Many African countries suffer from **lack of grid infrastructure**, electrification rates are comparatively low
- When connected to grid, in many places power outages are frequent
 - This resulted in a large market for back-up diesel generators; they **often triple the electricity costs**
- Overall, the **off-grid market is growing** on the continent
- **Lack of access to financing** is main barrier to the adoption of solar energy
- **Commercial and Industrial** users are increasingly interested (and invested) in solar & storage off-grid solutions



Diesel generator
Source: BSW

Proportion of the rural population with access to electricity
Source: BSW, IEA

When solar met water

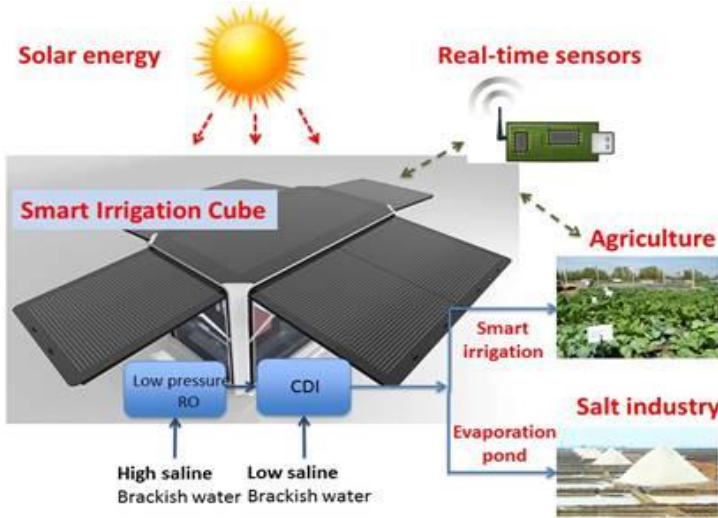
- Around one billion people in Africa do not have access to safe drinking water [3]
- Combinations of solar power and water can be one of the solution to water access
- Easier access to water \longrightarrow bigger crops \longrightarrow better supply of food, jobs, ...
- In many areas, water has to be hauled for households or small crops, this job often falls to women or girls [4]

Technologies:

- Solar desalination
- Solar irrigation/pumping
- Solar water disinfection (SoDis)
- Floating solar



Solar irrigation/pumping
Source: AdobeStock



Solar desalination
Source: Raach Solar



Floating solar
Source: BayWa



If you like to know more about the Solarize Africa Market Report 2020

[Download the report](#)

or register for the exclusive webinar on **November 10th** at

www.thesmartere.com/en/home/webinars/upcoming-webinars/intersolar-solarize-africa

bsw.li/39RfrDZcv



Twitter.com/BSWSolareV



bsw.li/39RfrDZcv



bsw.li/2VsDOS4



Sources



- [1] Becquerel Institute, Own estimations based on Becquerel Institute and IEA, IEA-PVPS, IRENA and PVMA, 2020.
- [2] Solar Plaza, "Solar Mini-Grids: The Next Generation Utility," Solar Plaza, Rotterdam, 2019.
- [3] UNESCO, "UN-Weltwasserbericht 2019," 2019, [Online]. Available: <https://www.unesco.de/presse/pressematerial/un-weltwasserbericht-2019>.
- [4] S. A. Sinyolo, S. Sinyolo, M. Mudhara and C. Ndinda, "Gender Differences in Water Access and Household Welfare among Smallholder Irrigators in Msinga Local Municipality, South Africa," Journal of International Women's Studies, 2018.