



Scaling solar-powered irrigation for inclusive climate change adaptation

Johannes Muntau, Advisor at WE4F 25.08.2022 | SWWW 2022: Solar irrigation in Africa: Bright future or broken promise?

Outlook



- 1 Why scale Solar Powered Irrigation in SSA?
- 2 Agri-Food-System Transformation through Privat-Public Partnerships
- **2** Looking to Scale?



Why scale Solar Powered Irrigation in SSA?

The Goal

Climate-Resilient Agri-Food Systems in SSA

The Challenge

Climate Change, achieving Food and Water Security by 2030

The Need

A strategic, holistic and inter-sectoral approach for scaling innovations

The Response

A joint public-private sector approach to mobilize resources and democratize access to small-scale irrigation innovations for end-users.

"Scaling up small-scale irrigation in Africa has the potential to lift more than 140 million people out of hunger and poverty with low investment costs"





Agri-Food-System Transformation through Privat-Public Partnerships

We need the public and the private sector to work hand in hand to achieve Agri-Food Systems Transformation.

Figure 6: Total market size for solar-powered irrigation pumps in sub-Saharan Africa

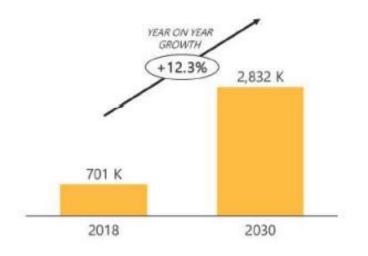
Total SSA serviceable market calculation breakdown (2018)

Number of smallholder farmer households

56.98M 13.69M 18.90M 4.70M 0.70M Subsistence Grid Can't Serviceable Total No water SHF Afford market connected access 100% 0.01%

SSA serviceable market projected growth (2018-2030)

Number of smallholder farmers





Looking to Scale: Focus on Local Privat Sector & inclusive Farmers' Access

Scaling and democratize access through mainstreaming and a market-based approach



- > Strengthening the global to local small-scale irrigation knowledge networks
 - → Building strong, working relationships for action with other organizations and the private sector to share knowledge, lessons learned, and resources



- Capacity development for innovators (SMEs), multipliers, and financing institutions to close the access gap for SPIS end-users
 - → Inclusive SPIS business and finance models and services



- Improve the understanding and knowledge of government stakeholders and raise their awareness of strategic issues.
 - → Supportive political framework conditions (IWRM; WEF-Nexus) for the sustainable use of SPIS technology (incl. incentives)

Water and Energy for Food

WE4F is a joint international initiative of the German Federal Ministry for Economic Cooperation and Development (BMZ), the European Union, the Ministry of Foreign Affairs of the Government of the Netherlands, Sweden through the Swedish International Development Cooperation Agency (Sida), and the U.S. Agency for International Development (USAID).











THANK YOU

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