



MICROENERGY
CONSULT

Africa

Ethiopia, Kenya, Uganda



Project Description:

MEI evaluated current O&M frameworks for solar off-grid technologies, their practices in general as well as in displacement settings of ESDS' partner countries Ethiopia, Kenya and Uganda. Based on this, MEI developed sustainable O&M business models that are market-based and profit-oriented, including a self-sustaining financing structure.



Development of Sustainable Operation and Maintenance Models for Off-Grid Energy Technologies in SUN ESDS Displacement Settings



Services

**Technical Assistance
Business Modelling
O&M Strategy**



Topics

Operation and
Maintenance, Business
Models, Off-grid solar,
Displaced Populations



Date

03/2021
to
08/2021



Partners

Kenyan, Ugandan
and Ethiopian
governments



Clients

Deutsche Gesellschaft für
Internationale
Zusammenarbeit
(GIZ) GmbH, UNHCR



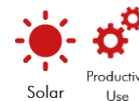
Beneficiaries

Refugees, host
communities and power
asset owners, UNHCR

Services Provided

- Identified and analyzed O&M models for off-grid solar technologies and examined barriers and opportunities for these models in displacement settings.
- Analyzed aspects of the warranty for household PV products and practices of possible return and warranty claims existing in ESDS' project sites and the role of reparability with the present and potential role of the informal sector therein.
- Developed concepts for O&M business models for selected technologies that can be implemented in displacement settings (to be defined during the inception).
- Developed concepts for O&M models for community-owned assets.
- Provided recommendation for a sustainable O&M strategy.
- Publication: [Operation and Maintenance Plan and Glossary for PV Systems](#)

Energy technologies & energy uses:



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