

Solar Production of Medical Oxygen

Project Summary

Problem

Medical operations, including the provision of oxygen for patients with severe respiratory infections, are limited at Gwoza Hospital, an 80-bed health facility located in a region of Nigeria with restricted access to fuel.

Proposed Solution

Pilot the design and installation of a **solar powered system** that will deliver **low-pressure, medical-grade oxygen** in health facilities. Identify the potential to scale across MSF.



Potential Impact

- Improves **quality of medical care** for patients
- Achieves costs savings by reducing **fuel consumption** and reduces carbon footprint
- Reduces security risk of bringing fuel into an area on military lockdown

Viability

- Builds on lessons learned from previous MSF Swedish Innovation Unit pilot

Risk Mitigation

- **Partners** with vendor with proven experience

Scalability

- Engages the Energy Referent Working Group to aid potential scaling across MSF
- Pilot will generate evidence for a business case for replication in other MSF settings

Area/Type: Operation Improvement / Technology; Incubator

Sponsor/Support: OCBA

Length/Project Status: 1.5 years; **ONGOING**