

Solar Air Conditioning Unit

Problem

Air Conditioning(AC) is one of the largest drivers of fuel consumption in field operations and is essential for medical needs and working conditions. As demands increase, AC cost and reliability, as well as generator overload become issues.

Proposed Solution

Transform the way energy is generated in MSF field missions by investigating the options for running AC units on solar or hybrid power. If successful the subsequent phases will entail prototyping, development, testing, and dissemination into the field.



Potential Impact

- Reduces cost of AC; mitigates risk of increasing diesel prices and overloaded generators
- Increases level of comfort and care for patients
- Leverages environmentally sustainable systems

Viability

- Technically viable solutions based on initial pilots
- Includes lessons learned from other NGOs and field-based organizations

Risk Mitigation

- Feasibility study with phased approach and prototyping reduces risk; potential for off-the-shelf or configurable technology

Scalability

- Engaging multiple OCs via the Working Group facilitates shared learning and scaling
- Interest from several field sites increases likelihood of access, testing, acceptance

Area/Type: Operations Improvements/Technology ; Incubator

Sponsor/Support: OCP/Sweden Innovation Unit

Length/Project Status: 7 months; **COMPLETE**