Smart Energy Monitoring System

Area/Type: OTH
Sponsor: OCG
Length/Project Status: 11 months; **ONGOING**

MEDECINS SANS FRONTIERES
TRANSFORMATIONAL INVESTMENT CAPACITY

Project Summary

Problem

MSF faces significant challenges in achieving energy efficiency due to inconsistent and unreliable energy data across their operations. Critical metrics are not systematically collected, while other data are either manually recorded or measured through smart meters but stored across disparate platforms, complicating integration and analysis.

Proposed Solution

This project aims to develop a smart energy monitoring system for managing all energy-related data across OCG. The system will streamline the collection, transmission, storage, analysis, and visualization of energy data to enable accurate reporting, informed decision-making, and stronger accountability. By identifying energy-saving opportunities and optimizing energy supply to better meet actual demand, the system will help to make informed structural decisions, controlled investments, achieve measurable financial savings and ultimately reduce MSF's environmental footprint.

Potential Impact

- Aims to enable data-driven decisions to reduce energy consumption and related costs; identifies priority areas for improvement in energy usage.
- Improves internal and external accountability for environmental commitments:

Viability

- Includes a tight and clearly scoped workplan, engaging end users in testing.
- Leverages collaboration between OCG and OCB, with different goals for each aligned with their starting point and the possibility for broader scaling to other ODs.

Risk Mitigation

- Engages closely with the Intersectional Energy Working Group for buy-in and expertise.
- Mobilizes regional support and early engagement with missions to ensure availability of the necessary field staff for piloting.

Scalability

- Benefits from commitment of OCG Director of Logistics to deploy the system beyond the initial two missions once the project is completed and promote the solution at the DirLogs platform for further deployment.
- Has potential to scale to all ODs: energy referents from OCP, OCBA, WaCA, and Ubuntu have expressed interest.