



Needs Assessment for the Electrification of Health Centers

**Client:**

United Nations Foundation
(UNF)

Location:

Uganda, Ghana, Malawi, and
Tanzania

Start Date:

July 2014

Completion Date:

April 2016

Key Services:

- ▷ Mapping of Electrification Status
- ▷ Mini-Grid Feasibility Assessment
- ▷ Energy Audit Trainings
- ▷ Site Audits
- ▷ Energy Needs Assessment
- ▷ Renewable Energy System Design for 300 sites

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ASD undertook a comprehensive mapping, baseline study and development of a sustainable maintenance and management program for off-grid energy systems at health facilities in four countries for the United Nations Foundation (UNF). This also involved a broader engagement of national and local stakeholders in the project process.

OVERVIEW

This UNF off-grid energy systems needs assessment for health facilities in Uganda, Ghana, Malawi and Tanzania spanned over a two year period between 2014 – 2016. During this time ASD conducted energy audit trainings, site audits, energy needs assessment reports and renewable energy systems designs for 300 sites- including full mini-grid feasibility for two sites.

To complete this assessment, ASD mapped out the current electrification status of all health facilities in each of the four countries and conducted energy needs for 300 health facilities across the four countries. ASD also conducted mini-grid feasibility assessments for two health facilities across the four countries. ASD then gave recommendations on design requirements, elements and solution sets for meeting all the facilities' current and future electrical needs (including back-up systems and indicative costs for installing and maintaining the most appropriate power solution).

Currently, the UNF is implementing the technical assistance for actual installation of solar PV systems for these health facilities in these countries