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Summary report on the installation of solar power at the various NIH sites in Uganda.

Uganda has unreliable electrical power from the national grid with frequent fluctuations in voltage, current and frequency. Its therefore necessary to install generators, inverter backup systems, surge protectors and voltage regulators to address the unreliable power issues. This in turn becomes expensive to maintain the generators with fuel and the other protection components which are frequently blown by the power instability. And these are the kind of issues we have had in the recent past. To address the above issues, NIH ICER Uganda had to install a solar solution at the different sites where we have operations and below is a summary of the 4 installations. **Table below summarizes the 4 installation sites.**

Site Name	Commissioned Date	Solar Array Capacity Installed In KW Peak	Total Inverter capacity Installed In KW	Battery Bank capacity Installed In KWH	Running Days	Total Power Harvested In MWH	CO2 prevention Tonnes
NIH offices Entebbe	October 3rd 2022	7.2KWp	8	10.6	589	7.33	5.81
Data Center Entebbe	February 10th 2023	2.7KWp	5	5.3	466	3.12	2.48
LAB Entebbe	March 17th 2023	19.44KWp	12	42.4	428	15.49	12.28
Kalisizo	August 26th 2023	127.6KWp	150	143.1	269	71.36	56.59

Below photo: Solar plant for Entebbe NIH block, the inverters and battery.

Photos below for Entebbe data Center and the solar installation feeding it.

Photo above: Solar installation at the LAB in Entebbe.

Photo above: Kalisizo field office Solar Installation