



**Aga Khan Health Services**

## **Kenya: Aga Khan Health Services - Kisumu Hospital Advancing Towards Net-Zero with Solar Energy Integration**

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The Aga Khan Health Services, Kisumu (AKHS, K), is committed to reducing carbon emissions and achieving net zero by 2030. The AKHS, K cluster in Kenya has historically relied on grid electricity and diesel generators for its energy needs, contributing significantly to its Scope 1 and 2 carbon emissions.

As part of its commitment to achieving net-zero carbon emissions, the AKHS, K cluster prioritised investments in renewable energy, particularly solar power. AKHS, K operates under a hub and spoke model of healthcare delivery, and in 2023, it began installing solar panels across a selection of its facilities. Between April and June 2023, solar systems were successfully installed at 4 facilities (with respective capacities): the main hospital in Kisumu (230 kWp), Kisii Medical Centre (MC; 39.2 kWp), Bungoma Outreach Health Centre (OHC; 29.4 kWp), and Kimilili OHC (14.2 kWp).

Since the solar installation began, by the end of March 2025 these systems had achieved varying solar-to-grid ratios: on average, approximately main hospital (15%), Kisii MC (20%), Bungoma OHC (34%), and Kimilili OHC (23%). Collectively, they have generated around 746,000 kWh of solar power, resulting in total savings of approximately USD 147,000 and avoiding about 80 tonnes of CO<sub>2</sub>e emissions. Generator diesel consumption across the four facilities also decreased by an average of 10% in 2024 compared to 2023.



**Figure 1. The Aga Khan Hospital Kisumu with solar pergola**

Carbon emissions were calculated using the AKDN carbon management tool.