

MEASURED CLIENT OUTCOME

Voltage instability, phase imbalance and unmetered load identified at USAFI Market

At USAFI Market, the risks stayed invisible until they were measured. Energy monitoring surfaced voltage instability and phase imbalance serious enough to pose a fire hazard — and, separately, load drawing on the public supply that no registered connection accounted for.

CLIENT

Kampala Capital City
Authority (KCCA)

SECTOR

Government & Public
Infrastructure

LOCATION

Kampala, Uganda

ENGAGEMENT

November 2023

Measured outcomes

Fire risk

Safety risks identified

Phase imbalance and voltage instability identified before they could cause equipment damage or fire

Unmetered load

Unaccounted consumption

Consumption analysis isolated load drawing on the facility supply that no registered connection accounted for

USAFI Market

Findings reported to KCCA

A high-footfall public market in central Kampala — safety issues identified, quantified and reported to KCCA

Government · Public Infrastructure · Power Quality · Safety · Metering Integrity

HOW THESE FIGURES WERE PRODUCED

Sub-meters were installed on the circuits that matter at this site and read continuously on the Orijtech Energy platform. Every three-phase meter takes three current sensors. The figures above are drawn from that metered record — not from estimates, projections or modelled savings.

The full write-up, including what the data showed and what was decided on the strength of it, is published at orijtechenergy.com/case-studies/kcca-usafi-market-power-quality.