

Revolutionizing Revenue Streams: Harnessing Drone Technology for Seamless Meter Reading in Disaster Zones

Michael Nyoagbe, Gloria Afua Poku, Maxwell Akosah-Kusi, Francisca Ameley Armah and Matthias Otu Amanor (Ghana)

Key words: Drones; Revenue; Meter Reading

SUMMARY

In the wake of natural disasters or emergencies, accurate meter readings are crucial for utility companies to maintain revenue streams and ensure fair billing. However, traditional manual meter reading poses significant challenges in disaster-affected areas, including accessibility issues, safety concerns, and resource constraints. This study carried out by Ghana Water Limited explores the potential of integrating drone technology into meter reading operations, with a focus on parts of the Greater Accra region that are prone to flooding and other environmental hazards. By leveraging the agility and versatility of unmanned aerial vehicles (UAVs), utility companies can streamline meter reading processes, enhance data accuracy, and minimize disruptions to revenue generation. Through a comprehensive analysis of existing infrastructure, regulatory frameworks, and technological advancements, this research aims to provide a roadmap for the successful implementation of drone-assisted meter reading in disaster zones, with a particular emphasis on Tetegu, a community in the Greater Accra region of Ghana.

Revolutionizing Revenue Streams: Harnessing Drone Technology for Seamless Meter Reading in Disaster Zones
(12785)

Michael Nyoagbe, Gloria Afua Poku, Maxwell Akosah-Kusi, Francisca Ameley Armah and Matthias Otu Amanor
(Ghana)

FIG Working Week 2024

Your World, Our World: Resilient Environment and Sustainable Resource Management for all
Accra, Ghana, 19–24 May 2024