

# MOBILE HYBRID-POWERED ATMOSPHERIC WATER GENERATOR (AWG) SYSTEM

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## ABSTRACT OF THE DISCLOSURE

The present utility model discloses a mobile, self-contained atmospheric water generator (AWG) system designed to extract potable water from ambient air under varying field conditions. The present utility model integrates a custom atmospheric water generator AWG unit, a hybrid power generation suite (fuel generator, solar panels, and battery bank), an intelligent power management system, stainless steel water storage, and IoT-based monitoring within a specialized trailer structure. Jack stabilizers provide operational stability, while the power system enables fully off-grid operation. The combination of mobility, multi-source power, and integrated digital control enhances water production reliability compared to stationary or single-source atmospheric water generator (AWG) systems.