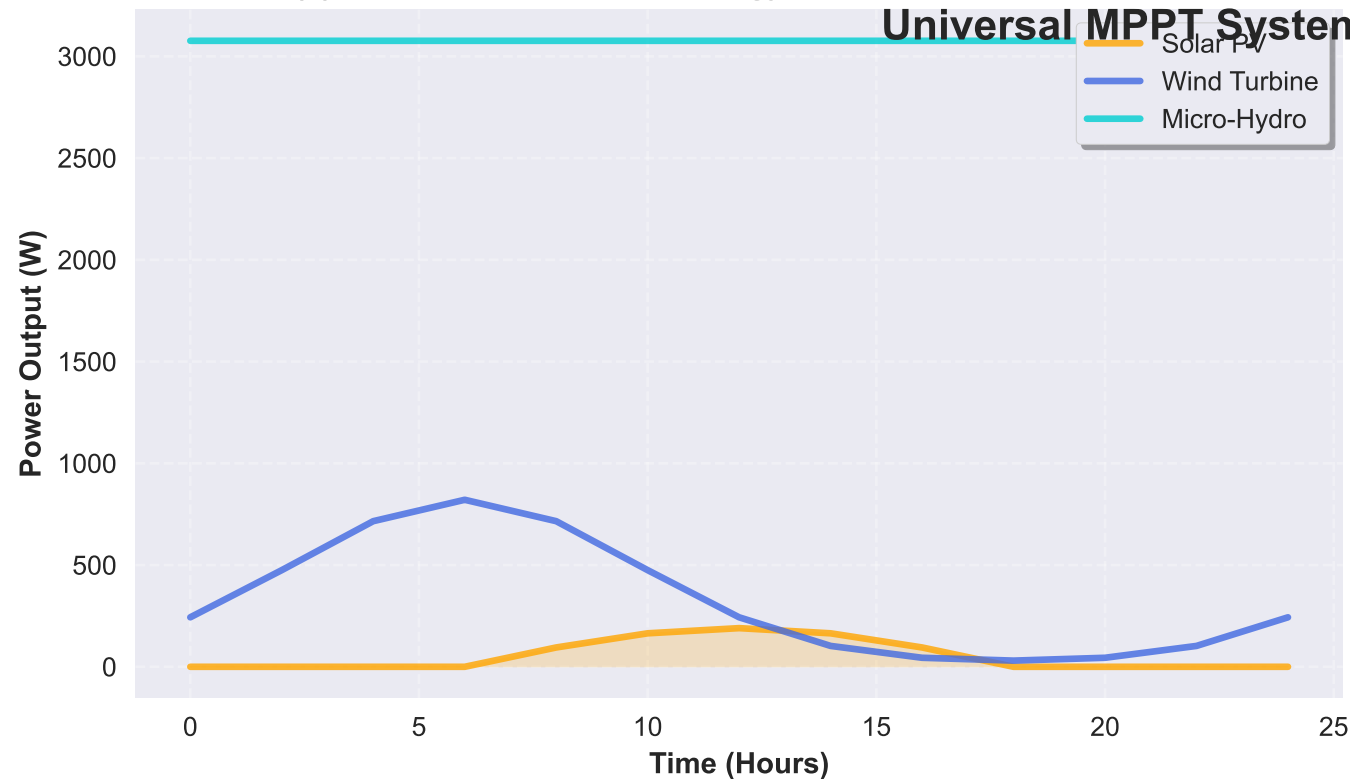
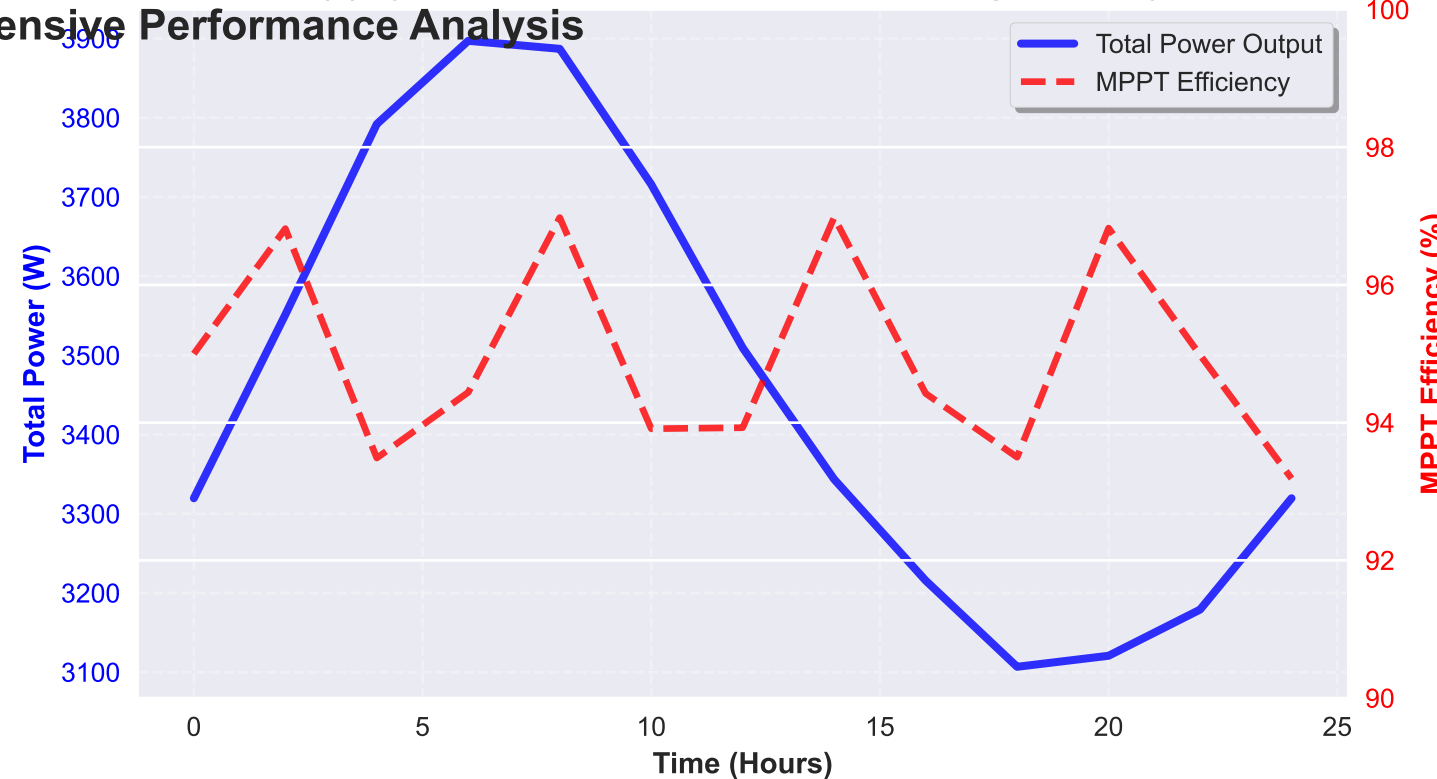


Universal MPPT System: Comprehensive Performance Analysis

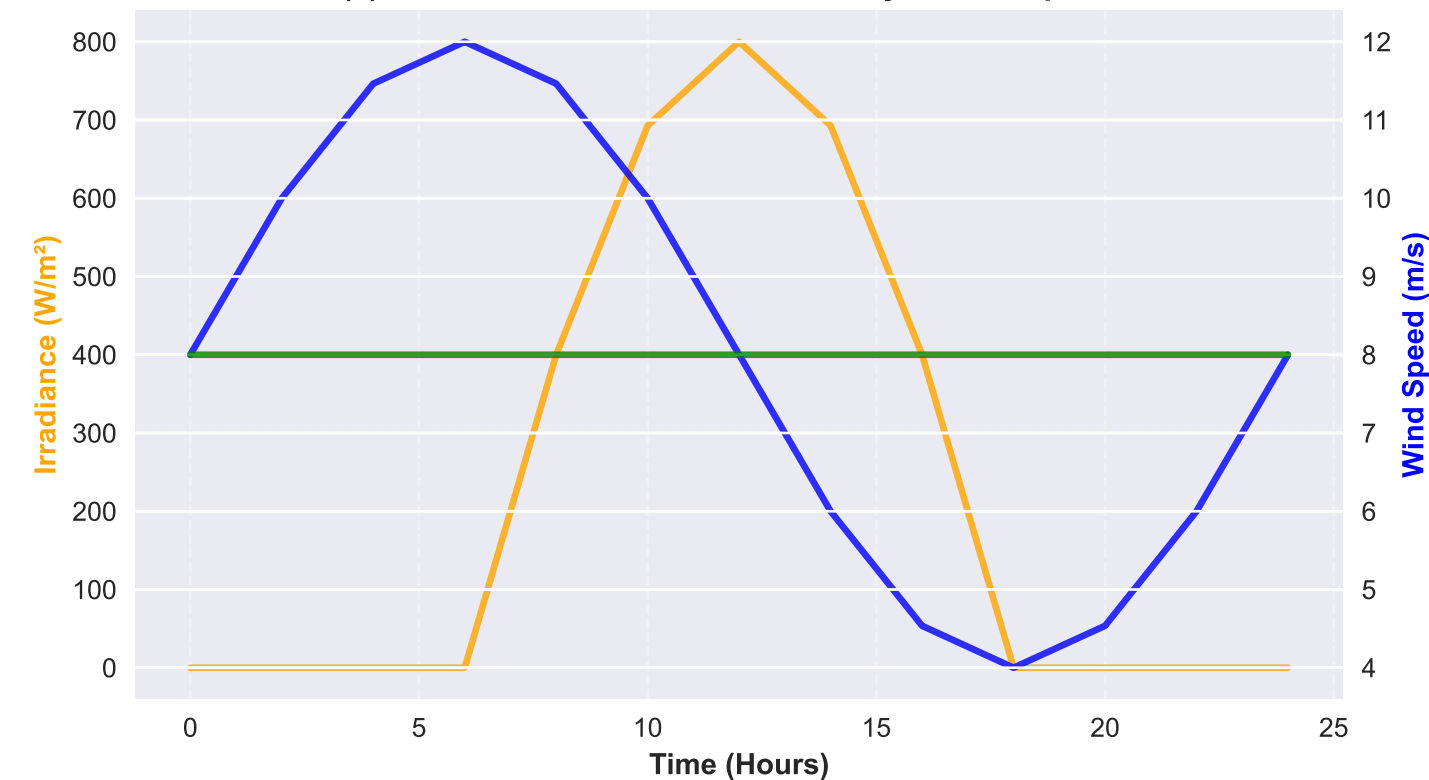
(a) Individual Renewable Energy Source Power Generation



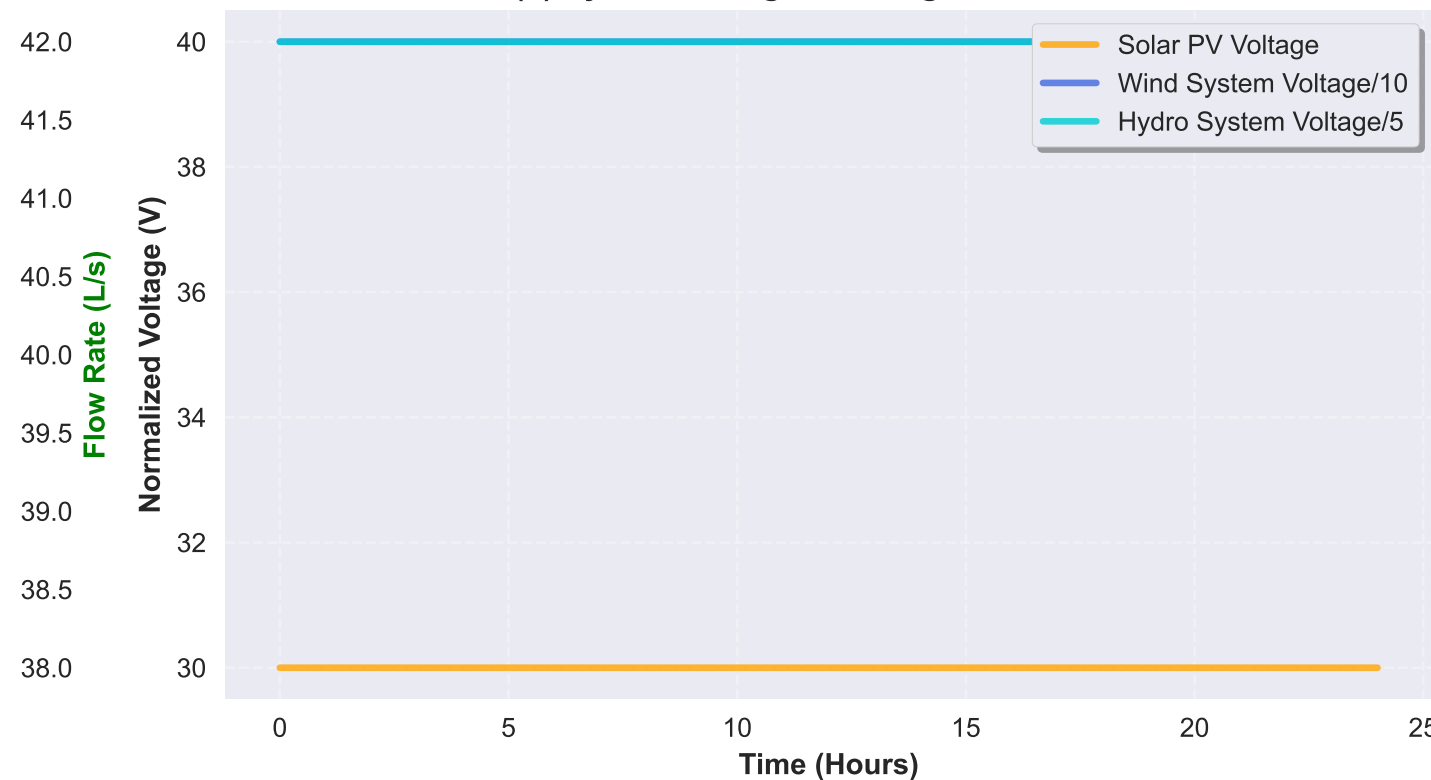
(b) System Power Output and MPPT Tracking Efficiency



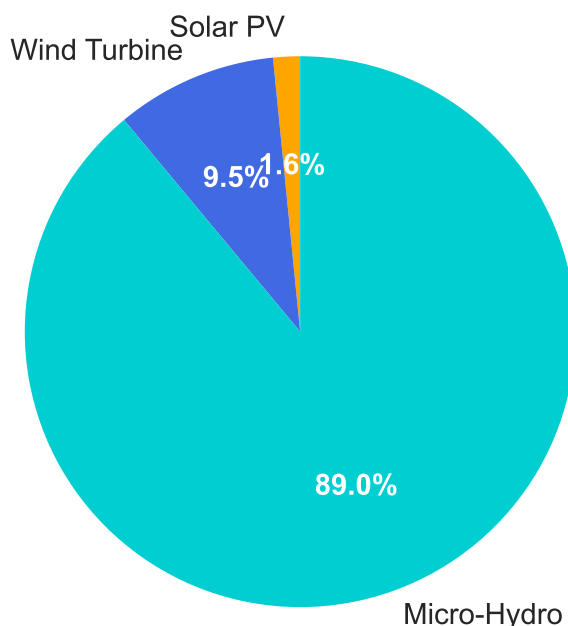
(c) Environmental Conditions and System Response



(d) System Voltage Tracking Performance



(e) Average Power Distribution Analysis



(f) Quantitative Performance Metrics

