

Title: Design & Business Modelling of An Innovative Energy Storage Unit combined with Supercapacitor & Capacitor Bank for MagLev Piezoelectric Wind Turbine(Conference Paper)

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Abstract

This research provides a thorough description of the original research on developing, evaluating, and putting into practice an energy harvesting system that operates under ambient settings using a Charging bank combined of Supercapacitor, Capacitor and batteries adopted to piezoelectric transducer integrated Vertical Axis Wing Turbine. This research intends to investigate alternate energy-generating techniques in order to satisfy the rising need for power sources brought on by the quick development of electronic gadgets. The actual results of this

study definitely show that using a capacitor bank significantly increases the output of piezoelectric transducers, leading to a noticeably more effective supercapacitor bank charging process.

Author keywords

Capacitor Bank Energy Harvesting System Piezoelectric Transducer Integration Supercapacitor Charging Process

- **ISBN:** 979-835030551-7
- **Source Type:** Conference Proceeding
- **Original language:** English
- **DOI:** 10.1109/IEMENTech60402.2023.10423403
- **Document Type:** Conference Paper
- **Volume Editors:** Taki G.S., Chakrabarty R., Sarkar M., Kundu S.K., Karmakar S.
- **Publisher:** Institute of Electrical and Electronics Engineers Inc.