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(57) Abstract :
 AC-CA WIND CONVERTER: ENHANCING RENEWABLE ENERGY EFFICIENCY THROUGH AIR CONDITIONER-DRIVEN WIND INVERSION
 ABSTRACT The AC-CA Wind Converter represents a pioneering approach to enhancing renewable energy efficiency by integrating air conditioning systems with wind energy technology. This innovative system utilizes compressed air generated by air conditioners to drive a wind turbine, converting its direct current (DC) output into usable alternating current (AC) for home appliances. Key components include a wind turbine with a three-bladed design, an inverter module for energy conversion, and a power management system that seamlessly integrates the generated energy into existing electrical systems. The method involves generating compressed air, directing it to the wind turbine, and optimizing energy output through real-time monitoring and control. By repurposing existing infrastructure, the AC-CA Wind Converter not only promotes sustainable electricity generation but also reduces operational costs and environmental impacts, offering a viable solution for homeowners and small-scale wind energy applications.

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