

## abstract

Abstract In Kenya generally people depend on fossil fuel that is facing depletion due to overdependence in it. The country has started embracing renewable sector which is more reliable. But still the country is facing acute electricity power shortage. This results not only from limited installed capacity but also due to over reliance in hydroelectricity as the main power source. This has a great threat on energy security especially during drought seasons. The help of fossil fuel has boosted power supply to some extent though it's getting exhausted with time. To install other forms of power sources is quite expensive. The wind sector can be reliable in most places, either on show or off show. For wind is such a free resource from the nature. It is stronger with increase in altitude. This can be more achieved when people get to understand the importance of renewable energy, more so wind energy is easy to generate and needs little maintenance. People can embrace the small wind turbine from locally salvage reusable materials, so that they can generate power in their homes. This research tackles that problem and seeks to contribute to improvement of the locally produced power to sustain individuals. Therefore, from this research, individuals are encouraged to focus and shift also to wind energy which is easily accessible, especially rural people the can escalate a lot of power from homes using small wind turbine build from salvage reusable materials.