

# Project Green Speed

*Michael Smith*

**Abstract:** Sustainability and energy efficiency are two of the most important topics in the area of energy conservation today. Sustainability is the potential for long-term maintenance of well being, which has environmental, economic, and social dimensions. By using sustainability measures and increasing the energy efficiency of electronic devices, energy that would have been wasted before is now conserved and can be used more effectively. The use of renewable energy sources can also be used to increase sustainability. For example solar panels can be used to increase the life time of a battery that powers a light. This project will use this same idea of renewable energy to increase the sustainability of an electric bike. The renewable energy sources that are considered are human power, solar power, wind energy and recycled energy.

**Keywords:** Sustainability, human power, solar power, wind energy and recycled energy

**Author:**

*Michael Smith* – Undergraduate senior at Christian Brothers University studying Electrical Computer Engineering.

---

<sup>1</sup> Christian Brothers University, 563 Shady Hollow Cove, Eads, TN 38028, msmith40@cbu.edu