

# Bicycle Power Generation System

Team 25

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## Project Goals:

The goal for this project is to design and implement a bicycle power generation system that produces electrical power in the form of DC energy. The idea is to design a safe and sturdy human powered stationary bicycle system that can store DC power via batteries and can be used for remote populations that use small scale electrical devices. Bicycle Power Generators are not a new idea and have been explored for their use in small scale energy or to charge batteries in case of a power outage or natural disaster. We want to expand on these ideas and build a DC generator that will convert human mechanical power into electrical power which is safe, power efficient, and inexpensive.

## Deliverables:

Low-cost bicycle power generator which will consist of the following:

- Power Generation
- Power Load
- Signal Processing

