

## 2024 HSC Design & Technology MAJOR PROJECT

# Designer Statement

### Name

James  
Woodbridge

### Title

Green Flame: Biogas  
System for Developing  
Countries

### Area of Design

Product Design

In developing countries, the reliance on unclean fuels such as wood leads to the release of hazardous fumes within homes, contributing to poor health outcomes and significant air pollution.

The objective of this project is to design a communal system that facilitates the use of cleaner fuels in these regions.

The system will harness a renewable energy source, and it will be designed to be user-friendly and easy to maintain, ensuring sustainability and long-term adoption.