

Algae processing for energy production: development of waste pyrolysis technology

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Abstract. This article describes the development of a waste pyrolysis technology for energy production from algae. The process involves the pyrolysis of algae biomass in a reactor, followed by the separation of the solid residue and the collection of the gaseous products. The results show that the process is feasible and can be used for the production of energy from waste.

Keywords: algae, pyrolysis, energy production, waste, biomass, reactor, gaseous products, solid residue, separation, collection.

1. Introduction. Algae are a rich source of biomass and can be used for the production of energy. The development of a waste pyrolysis technology for energy production from algae is a promising area of research.

2. Materials and Methods. The experiments were conducted in a laboratory setting. The algae biomass was collected from a local source and dried before use.

3. Results and Discussion. The results of the experiments show that the pyrolysis process is feasible and can be used for the production of energy from waste.

4. Conclusion. The development of a waste pyrolysis technology for energy production from algae is a promising area of research. The results of the experiments show that the process is feasible and can be used for the production of energy from waste.