

## 1. INTRODUCTION

Recently, biofuels are in high demand because of their environmental ~~uses~~ benefits. Biofuels are ~~considered to be a~~ good alternative if they are cost-~~effective~~ effective, can be produced in large quantities in a continuous batch without hampering or having any negative effects on food supply, and can be effectively derived from biomass to reduce the cost and energy ~~needed~~ required to produce feedstocks for biofuel production.

Biodiesels are chemically mono-alkyl methyl esters. During esterification, ~~a catalyst separates~~ the fatty acids ~~separates~~ from the ~~glycerine~~ one by one. Biofuels, ~~like such as~~ like biodiesels, are formed when a methyl alcohol ( $\text{CH}_3\text{OH}$ ) ~~binds~~ contacts and forms a bond with a fatty acid molecule (e.g., palmitoleic acid  $\text{CH}_3(\text{CH}_2)_5\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$ ) ~~and forms a bond~~.

~~Two~~ major reasons why ~~B~~ biofuels ~~offer a~~ are better ~~alternative to than~~ fossil fuels are as follows: ~~that~~ (1) they are economically competitive, and (2) can be generated on a large scale from the waste of our ~~day to~~ daily lives, thus ensuring a recycle of waste products to ~~productive~~ components while also maintaining a closed ~~carbon~~ cycle.

To further identify which biofuels ~~is~~ are better sources of energy and cost-~~effective~~ effectiv, in this study, we compare the currently available biofuels to some of the commonly used fossil fuels.

**Comment [A1]:** Choosing the right word to convey meaning eases readability and understanding.

**Comment [A2]:** Introductory clauses are separated from the main clause using a comma.

**Comment [A3]:** The spelling has been revised to suit American English.

**Comment [A4]:** Remark: Presenting information in a concise manner often aids clarity and enhances readability.

**Comment [A5]:** Numbers have to be spelled out at the beginning of the sentence.

**Comment [A6]:** Closed is an adjective that modifies the noun "carbon cycle" here. Therefore, the incorrect usage of hyphen was deleted.