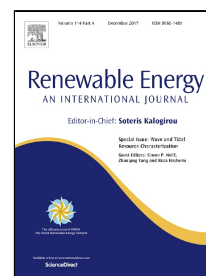


# Accepted Manuscript

Production of biodiesel and bioethanol using algal biomass harvested from fresh water river



Vinod Kumar, Manisha Nanda, H.C. Joshi, Ajay Singh, Sonal Sharma, MonuVerma

PII: S0960-1481(17)30977-1  
DOI: 10.1016/j.renene.2017.10.016  
Reference: RENE 9304  
To appear in: *Renewable Energy*  
Received Date: 18 March 2017  
Revised Date: 24 August 2017  
Accepted Date: 05 October 2017

Please cite this article as: Vinod Kumar, Manisha Nanda, H.C. Joshi, Ajay Singh, Sonal Sharma, MonuVerma, Production of biodiesel and bioethanol using algal biomass harvested from fresh water river, *Renewable Energy* (2017), doi: 10.1016/j.renene.2017.10.016

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Highlights

- Fresh water macroalgal biomass can be utilized for production of liquid biofuels.
- 18.6% of lipid was obtained from macroalgal biomass.
- Addition of diesel and butanol to algal biodiesel can improve engine performance
- Emission characteristics of CO and NO<sub>x</sub> can be improved by adding butanol.
- Theoretical yield of ethanol was estimated 61.0% from lipid extracted algal biomass

Download English Version:

<https://daneshyari.com/en/article/4925927>

Download Persian Version:

<https://daneshyari.com/article/4925927>

[Daneshyari.com](https://daneshyari.com)