

Accepted Manuscript

Title: Power Generation from Algae Employing Enhanced Process Integration Technology

Author: Muhammad Aziz

PII: S0263-8762(16)00065-4

DOI: <http://dx.doi.org/doi:10.1016/j.cherd.2016.02.002>

Reference: CHERD 2178

To appear in:

Received date: 29-10-2015

Revised date: 21-1-2016

Accepted date: 3-2-2016

Please cite this article as: Aziz, M., Power Generation from Algae Employing Enhanced Process Integration Technology, *Chemical Engineering Research and Design* (2016), <http://dx.doi.org/10.1016/j.cherd.2016.02.002>

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

- Integrated power generation system utilizing algae was proposed
- The system consists of drying, gasification and combined cycle
- Enhanced process integration was applied to minimize exergy destruction
- High power generation efficiency, about 60%, was achieved
- Effect of fluidization velocities and turbine inlet temperature were clarified

Download English Version:

<https://daneshyari.com/en/article/7006761>

Download Persian Version:

<https://daneshyari.com/article/7006761>

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