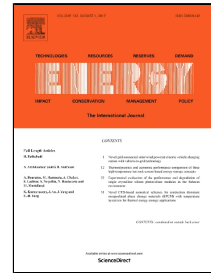


Accepted Manuscript

Biochar addition in rice farming systems: economic and energy benefits

Ali Mohammadi, Annette L. Cowie, Oscar Cacho, Paul Kristiansen, Thi Lan Anh Mai, Stephen Joseph



PII: S0360-5442(17)31491-3
DOI: 10.1016/j.energy.2017.08.116
Reference: EGY 11485
To appear in: *Energy*
Received Date: 07 March 2017
Revised Date: 13 July 2017
Accepted Date: 30 August 2017

Please cite this article as: Ali Mohammadi, Annette L. Cowie, Oscar Cacho, Paul Kristiansen, Thi Lan Anh Mai, Stephen Joseph, Biochar addition in rice farming systems: economic and energy benefits, *Energy* (2017), doi: 10.1016/j.energy.2017.08.116

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

- This study calculated economic and energy benefits of using residues in rice production systems.
- Net present value (NPV) of rice improved by 12%, after eight years of biochar addition.
- Biochar use reduced the energy intensity of rice farming by 27%.
- The existence of a carbon market could significantly enhance the profitability of biochar use.
- The Δ NPV of rice systems is sensitive to the rice price, rice yield and labour cost.

Download English Version:

<https://daneshyari.com/en/article/5475421>

Download Persian Version:

<https://daneshyari.com/article/5475421>

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