

Accepted Manuscript

Solid oxide fuel cells powered by biomass gasification for high efficiency power generation

Rasmus Østergaard Gadsbøll, Jesper Thomsen, Christian Bang-Møller, Jesper Ahrenfeldt, Ulrik Birk Henriksen



PII: S0360-5442(17)30801-0

DOI: 10.1016/j.energy.2017.05.044

Reference: EGY 10851

To appear in: *Energy*

Received Date: 02 February 2017

Revised Date: 05 May 2017

Accepted Date: 07 May 2017

Please cite this article as: Rasmus Østergaard Gadsbøll, Jesper Thomsen, Christian Bang-Møller, Jesper Ahrenfeldt, Ulrik Birk Henriksen, Solid oxide fuel cells powered by biomass gasification for high efficiency power generation, *Energy* (2017), doi: 10.1016/j.energy.2017.05.044

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 of the article " Solid oxide fuel cells powered by biomass gasification for high efficiency power generation"

- Design and operation of a gasification-SOFC system with minimal gas cleaning
- Experimental results from full load, part load and long-term tests with product gas
- Electric efficiencies around 40% biomass-to-power for small-scale power generation
- Modeled gasification-SOFC combined cycle concepts with efficiencies up to 62%

Download English Version:

<https://daneshyari.com/en/article/5476770>

Download Persian Version:

<https://daneshyari.com/article/5476770>

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