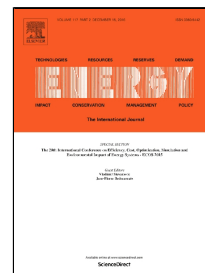


Accepted Manuscript

Thermodynamic and economy analysis of solid oxide electrolyser system for syngas production

Mahrokh Samavati, Massimo Santarelli, Andrew Martin, Vera Nemanova



PII: S0360-5442(17)30067-1
DOI: 10.1016/j.energy.2017.01.067
Reference: EGY 10202
To appear in: *Energy*
Received Date: 19 March 2016
Revised Date: 09 January 2017
Accepted Date: 11 January 2017

Please cite this article as: Mahrokh Samavati, Massimo Santarelli, Andrew Martin, Vera Nemanova, Thermodynamic and economy analysis of solid oxide electrolyser system for syngas production, *Energy* (2017), doi: 10.1016/j.energy.2017.01.067

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.

- A thermodynamic model for pressurized SOEC system is proposed
- At elevated pressure, total efficiency of the system is lower
- SOEC unit has the highest relative irreversibility in the system
- Electricity prices have the largest impact on the final price of produced syngas.

Download English Version:

<https://daneshyari.com/en/article/5476235>

Download Persian Version:

<https://daneshyari.com/article/5476235>

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