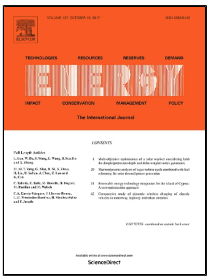
Accepted Manuscript



Exploiting the waste heat from an alkaline fuel cell via electrochemical cycles

Xin Zhang, Ling Cai, Tianjun Liao, Yinghui Zhou, Yingru Zhao, Jincan Chen

PII:	S0360-5442(17)31819-4
DOI:	10.1016/j.energy.2017.10.112
Reference:	EGY 11756
To appear in:	*Energy*
Received Date:	13 January 2017
Revised Date:	28 September 2017
Accepted Date:	24 October 2017

Please cite this article as: Xin Zhang, Ling Cai, Tianjun Liao, Yinghui Zhou, Yingru Zhao, Jincan Chen, Exploiting the waste heat from an alkaline fuel cell via electrochemical cycles, *Energy* (2017), doi: 10.1016/j.energy.2017.10.112

Highlights:

- The hybrid system consists of an alkaline fuel cell and *n* electrochemical cycles.
- Electrochemical cycles can recycle waste heat to generate continuous power output.
- Performances of the system compared with the fuel cell are greatly improved.
- Key parameters are optimized and their lower and upper boundaries are determined.
- Advantages of the proposed system over other hybrid systems are expounded.