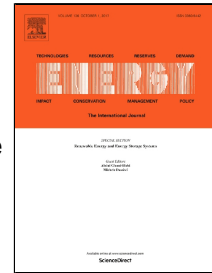


# Accepted Manuscript

Simulation, construction and evaluation of cheap piston expander for low-pressure power generation by compressed air as working fluid



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PII: S0360-5442(17)31702-4  
DOI: 10.1016/j.energy.2017.10.033  
Reference: EGY 11677  
To appear in: *Energy*  
Received Date: 04 May 2016  
Revised Date: 12 January 2017  
Accepted Date: 08 October 2017

Please cite this article as: Nopporn Tenissara, Sirichai Thepa, Veerapol Monyakul, Simulation, construction and evaluation of cheap piston expander for low-pressure power generation by compressed air as working fluid, *Energy* (2017), doi: 10.1016/j.energy.2017.10.033

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**HIGHLIGHTS**

- The dimensionless analysis to find the best work and isentropic efficiency.
- The best performance was optimized.
- The cheap piston expander was made
- The performance of the expander was tested.
- The averaged isentropic efficiency reached 57%.

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