



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_11152
Title of the Manuscript:	Preliminary study of an efficient OTEC using a thermal cycle with closed thermodynamic transformations.
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	1. In the Introduction part, the previous work about OTEC should be introduced more specifically. Many researches about OTEC have not been cited. 2. Please check if the introduction of the section, 2.2.1 Non regenerative IECC, is right or not. 3. Please check if the Eq. (5) is right or not. 4. Each process step should be explained more clearly. 5. The pressure ratio should be defined clearly.	(1) The introduction has been modified so that some of the relevant researchers on this field have been cited and commented accordingly. (2) Your observation is right. Corrected as suggested. (3) Your observation is right. The sign is wrong and has been corrected (4) The processes involved in this study are documented in the reference [11] R. Ferreiro Garcia, B. Ferreiro Sanz, C. Ferreiro Sanz, Contributions on Closed System Transformations Based Thermal Cycles. 2014_BJAST_10074. British Journal of Applied Science & Technology. (5) Corrected as suggested.
<u>Minor</u> REVISION comments	1. The manuscript should be checked carefully for scribal errors and grammatical errors. Such as, ① In keyword, the " Isobaric compression ," should be revised to "Isobaric compression,". ② In introduction part, on line 23, the "does not experiment any phase change" should be changed to "does not experience any phase change". ③ In line 328, the 'wok' should be replaced by 'work'. 2. All abbreviations and acronyms should be explained when it first uses in the paper. Such as, in line 77, the "IECC" should be explained here. 3. All abbreviations and acronyms in the paper	1.- Language has been spelled (1) corrected as suggested (2) corrected as suggested (3) corrected as suggested 2.- corrected as suggested



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	should be explained and listed in the 'Nomenclature' section. Such as, in line 235, the meaning of the 'u', 'R', etc.	3.- Corrected as suggested Thank you for your help on the improvement of the work
<u>Optional/General</u> comments	The paper presented an interesting topic in study of OTEC based on the isobaric expansion-compression based cylinders (IECC). Results show that the IECC thermal efficiency which largely exceeds the Carnot efficiency under appropriated operating conditions...	