

Author's Feedback:

Following the analysis of the comments received from you (in the file here attached for sake of clarity),

I thank the Reviewer and I forward you the replies and corrections:

1. The term “property” is referred to the physical exergy (“property” is commonly intended as “state” quantity), and is not referred to the dualism and symmetry. Moreover, there are dualisms and symmetries demonstrated in the present manuscript as well as in the paper [1] reporting the first part of the whole study so that plural seems to be more appropriate.

I confirm the title as it is.

2. Noted and corrected.

3. Noted and corrected.

4. Noted. The following is included (see lines 448-452):

where “CONVER” identifies the useful work or heat resulting from reversible “REV” conversion of heat or work respectively; “TRANSF” identifies the nonuseful work or heat directly transferred to the reservoir, hence:

$$\text{NET} = \text{CONVER} + \text{TRANSF} = \text{USEFUL} + \text{NONUSEFUL} = \text{NET USEFUL}$$

work or heat according to the canonical definition here reported as outset of Section 2.

Furthermore, the following minor correction are highlighted:

Line 89: “here” is deleted to avoid repetitions.

Line 91: “here” is deleted to avoid repetitions.

Line 487: “(LNG)” is added.

Please find here attached the revised version 2 of the manuscript where the modifications are highlighted in blue.