

Detailed Response to Reviewers

Ref: CUE2020-D-017

Title: A novel porous cooling channel to enhance yield of PV/T systems

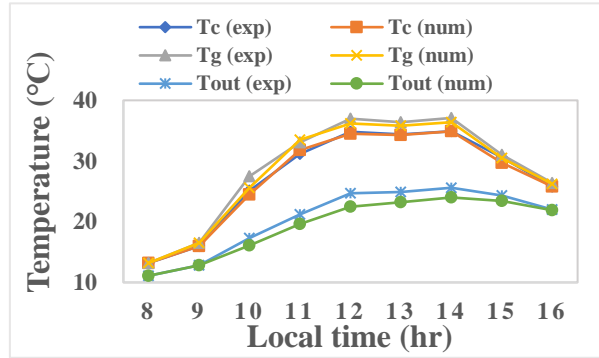
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Reviewer: 1

(1) Please explain the green line in figure 4.

Response: Thanks for reviewer's suggestion. The green line in the figure is the outlet temperature of the cooling water. Sorry for the mistake. Due to the use of Excel drawing, there was a lack of information in the figure when zooming in and out of the figure. The complete information figure has been added to the revised manuscript.



(2) In equation 10, the expression of reference efficiency should be consistent.

Response: Thanks for your precious suggestion. In equation 10, the expression of reference efficiency has been revised, as follows.

“The electrical efficiency of the PV module (η_{el}) was a function of the solar cell temperature and given by Equation (10) [10,11].

$$\eta_{el} = \eta_{ref}(1 - \gamma(T_{sc} - T_r))$$

Where, η_{ref} is the reference efficiency of the PV module ($\eta_{ref} = 0.15$); γ is a temperature coefficient ($\gamma = 0.0045^\circ\text{C}^{-1}$); T_{sc} is the cell temperature; and T_r is the reference temperature.”

(3) There are a few grammar mistakes in the manuscript. Please carefully check and revise the manuscript.

Response: According to the reviewer's comments, the manuscript was checked carefully and the mistakes in grammer has been corrected.