

[Review Form 3](#)

Book Name:	<a href="#">Engineering Research: Perspectives on Recent Advances</a>
Manuscript Number:	Ms_BPR_3975
Title of the Manuscript:	Effect of slope on energy dissipation for flow over a stepped spillway
Type of the Article	Book chapter

**PART 1: Comments**

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	Several physical models have been constructed in order to measure the energy dissipation. The purpose of this research is to investigate energy dissipation rate in spillways with different slopes. It was found that two most important dimensionless factors influencing energy dissipation are the Froude number and $q^2/(gH_{dam}^3)$ . The spillway slope and step number have less impact on the rate of energy dissipation. But for a constant discharge over a stepped spillway, increasing spillway slope, and increasing the number of steps will increase the energy dissipation. Using multiple regressions, some useful relations for determination energy dissipating are obtained.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The current title is appropriate, but the following title could also be used: Estimation of energy dissipation of flow over stepped spillways	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	I think the abstract of the article is comprehensive	
<b>Is the manuscript scientifically, correct? Please write here.</b>	Yes	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> =	The references atr sufficient and recent, but I suggeste of additional references, as following: 1- Biabani R, Salmasi F, Nouri M, Abraham J, 2022, Flow over embankmentgabion weirs in free flow conditions, Journal of Hydro-environment Research, 44, 65-76, <a href="https://doi.org/10.1016/j.jher.2022.08.001">https://doi.org/10.1016/j.jher.2022.08.001</a> 2- Salmasi F, Sattari MT, Pal M, (2012). Application of data mining on evaluation of energy dissipation over low gabion-stepped weir. Turkish Journal of Agriculture and Forestry, TUBITAK, 36: 95-106, <a href="https://doi.org/10.3906/tar-1011-1506">https://doi.org/10.3906/tar-1011-1506</a> 3- Salmasi F, Cahamani MR, Farsadizadeh D, (2012). Experimental Study of Energy Dissipation over Stepped Gabion Spillways with Low Heights. Iranian Journal of Science and Technology (IJST), Transaction B: Engineering, Civil Engineering, 36 (C2), 253-264, <a href="https://doi.org/10.22099/IJSTC.2012.640">https://doi.org/10.22099/IJSTC.2012.640</a>	

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	4- Khatibi R, Salmasi F, Ghorbani MA, Asadi H, (2014). Modelling Energy Dissipation Over Stepped-gabion Weirs by Artificial Intelligence. WaterResources Management. 28:1807–1821, <a href="https://doi.org/10.1007/s11269-014-0545-y">https://doi.org/10.1007/s11269-014-0545-y</a>	
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<b>Optional/General</b> comments	This article is suitable for scholarly communications	

**PART 2:**

	<b>Reviewer's comment</b>	<b>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)</b>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

<b>Name:</b>	Mahdi Majedi Asl
<b>Department, University &amp; Country</b>	University of Maragheh, Iran