Thanks for inviting me to review the manuscript entitled “Development of an optimal water allocation model for reservoirs system operation.” Although the manuscript has been written well, however, it would be good if the authors could incorporate the below comments in the text.

Now a day the large-scale water reservoir/dam is not considered as a green infrastructure and development. The authors have also mentioned the social conflicts of creating a dam in the introduction section. Therefore, the authors should refer to some examples from around the world to mitigate the impacts of creating dams on society and biodiversity. Most importantly to establish the necessity of operating a dam at the cost of what (i.e., what is the trade-off) should be explained in the introduction section and a resolution in the conclusion section.

The authors should also explain if there is any uncertainty in the proposed models for the allocation/distribution of water in the methods section. The discussion section should also explain the multi-purpose use of dams (e.g., hydropower, irrigation, etc.) so that it can contribute to the sustainable development of the country.