



# AIUB DSpace Publication Details

Title	Prospect of Pumped Storage Hydroelectric Power Generation in Bangladesh through Sea Water Pumping		
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Published Journal Name	<i>The AUST Journal of Science and Technology</i>		
Type of Publication	Journal		
Volume	5	Issue	1
Publisher	AUST		
Publication Date	January 2013		
ISSN	2072-0149		
DOI			
URL	<a href="https://aust.edu/storage/files/4nB6azl7WkVkB7ZK7QbttztpCKFRpV3xItDZP0ji.pdf">https://aust.edu/storage/files/4nB6azl7WkVkB7ZK7QbttztpCKFRpV3xItDZP0ji.pdf</a>		
Other Related Info.	Page 70-77		





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## Abstract

Existence of pumped storage plant with its optimal operation can play an important role for financial savings and load management in any power system. The idea of power generation from Pumped Storage System (PSS) is apparently new in context of Bangladesh. In this paper the feasibility of pumped storage hydroelectric power generation in the coastal hilly area of Bangladesh is investigated. The result shows that materialization of pumped storage project can significantly contribute in reducing the fuel cost for power generation. The electrical load of Bangladesh Power System (BPS) varies with seasons. The runtime of PSS throughout the year in different climate condition is also discussed in this paper. Some proposals are also given for the better performance of this project which will make it more beneficial and feasible for BPS to reduce the subsidy of the government for power generation.