Title:	Temperature and Power Analysis of the Thermoelectric Generator in Hybrid Electric Vehicles
Author(s) Name:	Md. Zilan Uddin Saif, Farhan Tasnim, Md.Abu Hanif, Md. Rasel Ahmed, Kawshik Shikder, Chowdhury Akram Hossain
Contact Email(s):	chowdhury.akram@aiub.edu
Published Journal Name:	2021 International Conference on Computational Performance Evaluation (ComPE)
Type of Publication:	Conference
Volume:	N/A Issue N/A
Publisher:	IEEE
Publication Date:	12 April 2022
ISSN:	978-1-6654-3657-1
DOI:	10.1109/ComPE53109.2021.9752285
URL:	https://ieeexplore.ieee.org/abstract/document/9752285
Other Related Info.:	Conference Location: Shillong, India

Abstract:

In the modern days, the technological advancement of the Hybrid Electric Vehicles (HEVs) is the most dynamic as the global warming issues has been taken as a prime concern all over the world. For updating this field vehemently, the use of Regenerative Braking System (RBS) is one of the most prominent and effective approaches till now. In this manuscript, the comparative study is shown taking the proposed model of the Thermoelectric Generator (TEG) along with the other existing technology of RBS. Also, the analysis of temperature and the electrical power output obtained from the TEG is portrayed with the description of the used model. Following the principles of RBS, this design will be one of the key sources of expanding the driving range of the HEVs lowering the net cost of recharging for the users.