International Journal of General Engineering and Technology IJGET) ISSN(P): 2278–9928; ISSN(E): 2278–9936 Vol. 10, Issue 2, Jul–Dec 2021; 27–36 © IASET International Academy of Science,
Engineering and Technology
Connecting Researchers; Nurturing Innovations

## DEVELOPMENT OFA DUAL DEVICE FOR SOLAR WATER PURIFICATION AND ENERGY CONVERSION

## Janvier Kamanzi<sup>1</sup> & Mohamed Tariq Ekeramodien Kahn<sup>2</sup>

<sup>1</sup>Research Scholar, No 2 Sonneblom, Parow North, Cape Town, South Africa <sup>2</sup>Director, Energy Institute, Cape Peninsula University of Technology, Bellville Campus, South Africa

## **ABSTRACT**

Energy and safe water are indispensable to human wellbeing. However, a population of over a billion in the majority living in the sub-Saharan region are still without access to electricity and safe water. Studies have shown that 80 % of deadly diseases originate from the use of brackish water while electricity challenges pose a hindrance to information access and development.

KEYWORDS: Provide Electricity and Water, Affects Economic and Industrial Growth

Article History

Received: 10 Nov 2021 | Revised: 25 Nov 2021 | Accepted: 03 Dec 2021

www.iaset.us editor@iaset.us