

Adding Energy Storage Materials to Improve the Productivity of Solar Distillation

Mohammed El Hadi Attia¹, Abdelkader Bellila² and Belkheir Benoudina^{1,2}

¹LABTHOP Laboratory, Faculty of Science, El Oued University, ALGERIA

²University of Ghardaia

Abstract :

The southeast region of Algeria suffers from a great socio-economic problem that affects a large population. Faced with the unavailability of drinking water, solar distillation; which appears to be a suitable and inexpensive solution; was adopted by local researchers. Improving the productivity of a solar greenhouse distiller is the subject of several researches in the world. The idea is to add energy storage materials to a single-slope solar distillation. The search for materials is more effective. This technique has a major impact on the productivity of solar distillation.

Keywords: Solar distillation, Energy, Solar Still, Freshwater, Energy Storage Materials.