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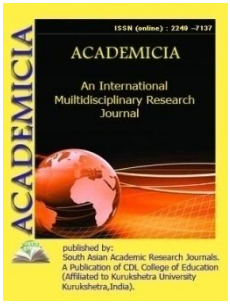

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REVIEW ON AUTOMATIC RAIN WATER HARVESTING

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ABSTRACT

The purpose of this article is to examine several kinds of long-term water collecting techniques from air fogs and dew. We report on the water collection performance of different fog collectors from across the globe in this article. In addition, we look at the technical elements of fog collector feasibility studies. The increases in efficiency Bioinspired technology is often used in modern fog collecting technologies. Fog Global fog incidence clearly limits harvesting technologies. Dew water harvester, on the other hand, is it's ubiquitous, but it needs a cooled condensing surface to work. The collecting of dew water is discussed in this review. Rainy water harvesting utilizing a radiative cooling surface, solar regenerated desiccant systems, and active condensation technology are the three types of systems. All of these methods have one common goal.is the creation of an atmospheric water collector capable of producing water regardless of humidity, geographical position, cheap cost, and supplies that may be found locally.

KEYWORDS: *ARM7 (Advanced Reduced Instruction Set Computer), LCD (Liquid Crystal Display), ROM (Read-only Memory), Rain.*

REFERENCES

1. A. Campisano, G. D'Amico, and C. Modica, "Water saving and cost analysis of large-scale implementation of domestic rain water harvesting in minor Mediterranean islands," *Water (Switzerland)*, 2017, doi: 10.3390/w9120916.
2. H. Jarimi, R. Powell, and S. Riffat, "Review of sustainable methods for atmospheric water harvesting," no. February, pp. 253–276, 2020, doi: 10.1093/ijlct/ctz072.
3. D. Hillel, "Water Harvesting," in *Encyclopedia of Soils in the Environment*, 2004.
4. W. T. Chong *et al.*, "Performance assessment of a hybrid solar-wind-rain eco-roof system for

buildings," *Energy Build.*, 2016, doi: 10.1016/j.enbuild.2016.06.065.

5. S. Reckinger, J. Bocchino, A. Jackowitz, and J. Perry, "Rainwater Harvesting for Campus Student Center: A Sustainable, Community-Orientated Senior Design Project," *Int. J. Serv. Learn. Eng. Humanit. Eng. Soc. Entrep.*, 2014, doi: 10.24908/ijsle.v9i1.5288.

6. "Rainwater Harvesting System." .

7. F. R. Rijsberman, "6.11 Rainwater harvesting," *Water Policy*, 1998.

8. B. O. E. D. B. Xjui, "Rainwater harvesting: a lifeline for human well-being," *Water*, 2009, doi: 10.1016/j.watres.2007.01.037.

9. J. L. Guo, J. Gu, G. H. Yin, and X. Li, "Effect of shallow-buried drip irrigation on water consumption characteristics and yield of spring maize in semi-arid region of western Liaoning," *Chinese J. Ecol.*, 2017, doi: 10.13292/j.1000-4890.201709.011.

10. J. Albergel, S. Nasri, and J. M. Lamachère, "Project of research on hill reservoirs in the semi arid zone of Mediterranean periphery," *Rev. des Sci. l'Eau*, 2004, doi: 10.7202/705526ar.

11. "Rain Sensor Interfacing with LPC2148." .