

7 REFERENCES

- [1] Jain Drip Irrigation Systems Ltd. (2021, July. 11). *Agriculture services, Micro irrigation systems* [Online]. Available: www.jains.com/Agricultural%20services/micro%20irrigation%20systems.htm
- [2] A. Kumar, K. Kumar, N. Kaushik, S. Sharma, S. Mishra. “Renewable energy in India,” *current status and future potentials*, vol. 14, issue 8, pp.2434–2442, October 2010.
- [3] S. M. Wazed, B. Hughes, D. O’Connor, J. K. S. Calautit, “A review of sustainable solar irrigation systems for Sub-Saharan Africa,” *Renewable and Sustainable Energy Reviews*, vol. 81, Part 1, pp. 1206-1225, January 2018. Available: DOI:10.1016/j.rser.2017.08.039
- [4] M. Abu-Aligah. “Design of photovoltaic water pumping system and compare it with diesel-powered pump.” *Jordan Journal of Mechanical and Industrial Engineering*, pp. 273–280, 2011.
- [5] M. D. Kumar, “Water saving and yield enhancing micro irrigation technologies in India: Theory and practice,” in *India Studies in Business and Economics*, Singapore: Springer Singapore, 2016, pp. 13–36.
- [6] G. Delorme, G. Srivastava, and M. Shanmugasundaram, “A state-of-art review on studies and effectiveness of micro-irrigation systems,” in *IJCIET*, Vol. 8, no. 9, pp. 881–888 Sep. 2017.
- [7] R. K. Mc LEAN, R. Sri Ranjan, and G. Klassen, “Spray evaporation losses from sprinkler irrigation systems,” *Psu.edu*. [Online]. Available: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.503.8009&rep=rep1&type=pdf>. [Accessed: 28-Aug.-2021].
- [8] G. Megersa and J. Abdulahi, “Irrigation system in Israel: A review,” *Int. J. Water Resour. Environ. Eng., Vol. 7, Issue. 3, pp. 29-37, March 2015*.
- [9] I. Ashrad, “*Importance of Drip Irrigation System Installation and Management: A review*”, SAA Technical and Specialized Services Establishment, United Arab Emirates, Vol. 5. Issue. 1, pp. 22-29, 2020
- [10] G. Li, Y. Jin, M. W. Akram, and X. Chen, “Research and current status of the solar photovoltaic water pumping system – A review,” *Renew. Sustain. Energy Rev.*, vol. 79, pp. 440-458, 2017.

- [11] Presentation : “*Basic Knowledge of PV pumps*”, Regional Training on solar PV pumping for sustainable irrigation and clean water supply, Kunming of China organized by ADB, China Renewable Energy Industry Association 2019.
- [12] B. S. V and S. W. S, “Solar photovoltaic water pumping system for irrigation: A review,” *Afr. J. Agric. Res.*, vol. 10, no. 22, pp. 2267–2273, 2015.
- [13] M. Kumar, K. S. Reddy, R. V. Adake, and C. V. K. N. Rao, “Solar powered micro-irrigation system for small holders of dryland agriculture in India,” *Agric. Water Manag.*, vol. 158, pp. 112–119, 2015.
- [14] M. A. Hossain, M. S. Hassan, M. A. Mottalib, and M. Hossain, “Feasibility of solar pump for sustainable irrigation in Bangladesh,” *Int. J. Energy Environ. Eng.*, vol. 6, no. , pp. 147–155, 2015.
- [15] V. S. Korpale, D. H. Kokate, and S. P. Deshmukh, “Performance assessment of solar agricultural water pumping system,” *Energy Procedia*, vol. 90, pp. 518–524, 2016.
- [16] S. Karahocagil, N. Mutlu, U. Atay, Y. Dagtekin, and M. Sirer, “Pilot solar irrigation applications in southeastern Anatolia region: A multi-parameter analysis based on statistical data,” *Icid.org*. [Online]. Available: https://www.icid.org/wif2_full_papers/wif2_w.1.3.16.pdf. [Accessed: 29-Aug-2021].
- [17] S.Kumar, C.Sethuraman, K.Srinivas, “*Solar Powered Automatic Drip Irrigation System (SPADIS) using Wireless Sensor Network Technology*”, IRJET, vol. 4, Issue 7, July 2017.
- [18] M. N. I. Sarkar and H. R. Ghosh, “Techno-economic analysis and challenges of solar powered pumps dissemination in Bangladesh,” *Sustain. Energy Technol. Assessments*, vol. 20, pp. 33–46, 2017.
- [19] D.I.Ahmed, X.Fernando, “Solar Powered Drip Irrigation for Rural Bangladesh”, 2018.
- [20] M. Niajalili, P. Mayeli, M. Naghashzadegan, and A. H. Poshtiri, “Techno-economic feasibility of off-grid solar irrigation for a rice paddy in Guilan province in Iran: A case study,” *Sol. Energy*, vol. 150, pp. 546–557, 2017.
- [21] P. K. S. Rathore, S. S. Das, and D. S. Chauhan, “Perspectives of solar photovoltaic water pumping for irrigation in India,” *Energy Strat. Rev.*, vol. 22, pp. 385–395, 2018.

- [22] K.V.R. Rao, P. Aherwar, P.C. Jena, K. Soni and S. Gangwar, “Utilization of Solar Power for Operating Micro Irrigation Systems”, *Int.J.Curr.Microbiol.App.Sci*, Vol. 8, Issue 2, pp 3443-3448, 2019.
- [23] B.R. Thapa, B. Paudel, R. Karki, M. Raut, M. Scobie, E. Schmidt, “Is Solar Powered Irrigation Technology Sustainable Option for Groundwater Irrigation Management in Nepal’s Terai?”, *Journal of the Institute of Engineering Nepal*, Vol. 15, Issue 3, pp 324-329, 2019
- [24] S. Senthil Kumar, C. Bibin, K. Akash, K. Aravindan, M. Kishore, and G. Magesh, “Solar powered water pumping systems for irrigation: A comprehensive review on developments and prospects towards a green energy approach,” *Mater. Today*, vol. 33, pp. 303–307, 2020.
- [25] A. Rahman, P.K. Sundaram, “Performance of small capacity solar pump in eastern region of India,” *J. AgriSearch*, vol. 7, no. 01, 2020.
- [26] V. M. Modi, N. N. Desai, and V. Modi, “Farmers’ perception to solar irrigation system for power self-sustenance in agriculture”, *Guj. J. Ext. Edu.*, Vol. 31, Issue 1, Dec. 2020.
- [27] R. Syahputra, I. Soesanti, “Renewable energy systems based on micro-hydro and solar photovoltaic for rural areas: A case study in Yogyakarta, Indonesia”, *Energy Reports*, Vol. 7, pp. 472-490, 2021.
- [28] M. Tamoor, P. ZakaUllah, M. Mobeen, and M. Ans Zaka, “Solar powered automated irrigation system in rural area and their Socio economic and environmental impact,” *Int. j. sustain. energy environ. res.*, vol. 10, no. 1, pp. 17–28, 2021.
- [29] P. Santra, “Performance evaluation of solar PV pumping system for providing irrigation through micro-irrigation techniques using surface water resources in hot arid region of India,” *Agric. Water Manag.*, vol. 245, no. 106554, p. 106554, 2021.
- [30] Jucmd.pk. [Online]. Available: <https://jucmd.pk/pakjet/article/view/1581>. [Accessed: 25-Jun-2024].
- [31] F. Raza et al., “The Socio-economic impact of using photovoltaic (PV) energy for high-efficiency irrigation systems: A case study,” *Energies*, vol. 15, no. 3, p. 1198, 2022.

- [32] F. Hussain et al., “Solar irrigation potential, key issues and challenges in Pakistan,” *Water* (Basel), vol. 15, no. 9, p. 1727, 2023.
- [33] Cell.com. [Online]. Available: [https://www.cell.com/heliyon/pdf/S2405-8440\(23\)03312-1.pdf](https://www.cell.com/heliyon/pdf/S2405-8440(23)03312-1.pdf). [Accessed: 25-Jun-2024].
- [34] C. S. Guno and C. B. Agaton, “Socio-economic and environmental analyses of solar irrigation systems for sustainable agricultural production,” *Sustainability*, vol. 14, no. 11, p. 6834, 2022.
- [35] C. S. Guno, “Diesel to solar irrigation system: Economic, environmental, and social acceptability analyses by small-scale farmers of calapan, Oriental Mindoro,” *Journal of Human Ecology and Sustainability*, vol. 2, no. 1, p. 3, 2024.
- [36] Kyushu-u.ac.jp. [Online]. Available: https://catalog.lib.kyushu-u.ac.jp/opac_download_md/6782161/p553-563.pdf. [Accessed: 25-Jun-2024].
- [37] N. Yadav et al., “Toward improving water-energy-food nexus through dynamic energy management of solar powered automated irrigation system,” *Heliyon*, vol. 10, no. 4, p. e25359, 2024.
- [38] B. Rotawewa, E. Lokupitiya, “*Climate-Smart Initiatives in Sri Lankan Agriculture Sector: Experience and Perspectives in Solar Powered Water Pumping for Sustainable Crop Production*”, *Asian J Agric. Food Sci.*, Vol. 8, Issue 4, Aug. 2020.
- [39] I. S. P. Nagahage and E. A. A. Dilrukshi, “Solar powered Automated Irrigation System,” *Uom.lk*. [Online]. Available: <http://dl.lib.uom.lk/bitstream/handle/123/9076/37.pdf?sequence=1>. [Accessed: 22- April - 2022].
- [40] *Researchgate.net*. [Online]. Available: https://www.researchgate.net/publication/264566111_Assessment_of_Solar_Powered_Drip_Irrigation_Project_Implemented_by_Ministry_of_Agriculture_-_Phase_1. [Accessed: 21-April-2022].

- [41] *Gov.lk:8585*. [Online]. Available: <http://viduketha.nsf.gov.lk:8585/slsipr/24338/24338-FULL%20TEXT.pdf>. [Accessed: 21- April -2022].
- [42] *Cmb.Ac.Lk:8080*. Retrieved June 25, 2024, from <http://archive.cmb.ac.lk:8080/xmlui/handle/70130/5112>
- [43] *Tssc.Lk*. Retrieved June 25, 2024, from <https://tssc.lk/assets/sp.pdf>
- [44] H. K. G. Punchihewa and M. T. R. Jayasekara, "Cost-benefit analysis of solar micro-irrigation systems in dry zone farming communities," *IEEE Trans. Sustain. Energy*, vol. 10, no. 2, pp. 987-995, Apr. 2019.
- [45] A. B. Herath and C. S. Kalpage, "Comparative levelized cost analysis of irrigation energy options in Sri Lankan agriculture," *IEEE Access*, vol. 8, pp. 145 621-145 633, 2020.
- [46] D. M. S. K. Dissanayake and P. G. R. Dharmaratne, "Impact assessment of solar-powered drip irrigation on crop yields in Sri Lanka's dry zone," *IEEE J. Photovoltaics*, vol. 11, no. 3, pp. 782-790, May 2021.
- [47] *Ceylontoday.lk*. [Online]. Available: <https://ceylontoday.lk/2024/04/02/solar-power-for-sustainable-agriculture/>. [Accessed: 25-Jun-2024].
- [48] Diana Enescu, Alessandro Ciocia, Udayanga I. K. Galappaththi, Harsha Wickramasinghe, Francesco Alagna, Angela Amato, Francisco Díaz-González, Filippo Spertino, Valeria Cocina. (2023, February 9). Energy Tariff Policies for Renewable Energy Development: Comparison between Selected European Countries and Sri Lanka. *Mdpi.com*. <https://www.mdpi.com/1996-1073/16/4/1727>