

## DAFTAR PUSTAKA

- [1] F. Afif and A. Martin, “Tinjauan potensi dan kebijakan energi surya di indonesia,” *Jurnal ENGINE: Energi, Manufaktur, dan Material*, vol. 6, no. 1, pp. 15–22, 2022, diakses pada 30 April 2025. [Online]. Available: [https://ejournal.up45.ac.id/index.php/Jurnal\\_ENGINE/article/view/997](https://ejournal.up45.ac.id/index.php/Jurnal_ENGINE/article/view/997)
- [2] M. Anrokhi, M. Darmawan, A. Komarudin, K. Kananda, and D. Puspitarum, “Analisis potensi energi matahari di institut teknologi sumatera: Pertimbangan faktor kelembaban dan suhu,” *Journal of Science and Applicative Technology*, vol. 3, no. 2, pp. 89–92, 2019. [Online]. Available: <https://journal.itera.ac.id/index.php/jsat/article/view/210>
- [3] N. Kuttybay, S. Mekhilef, N. Koshkarbay, A. Saymbetov, M. Nurgaliyev, G. Dosymbetova, S. Orynbassar, E. Yershov, A. Kapparova, B. Zholamanov, and A. Bolatbek, “Assessment of solar tracking systems: A comprehensive review,” *Sustainable Energy Technologies and Assessments*, vol. 68, p. 103879, 2024. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2213138824002753>
- [4] A. Amelia, Y. Irwan, I. Safwati, W. Leow, M. Mat, and M. S. A. Rahim, “Technologies of solar tracking systems: A review,” *IOP Conference Series: Materials Science and Engineering*, vol. 767, no. 1, p. 012052, feb 2020. [Online]. Available: <https://dx.doi.org/10.1088/1757-899X/767/1/012052>
- [5] A. Panda, A. K. Dauda, H. Chua, R. R. Tan, and K. B. Aviso, “Recent advances in the integration of renewable energy sources and storage facilities with hybrid power systems,” *Cleaner Engineering and Technology*, vol. 12, p. 100598, 2023. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2666790823000034>
- [6] M. Mirdanies, “Astronomy algorithm simulation for two degrees of freedom of solar tracking mechanism using c language,” *Energy Procedia*, vol. 68, pp. 60–67, 2015.
- [7] S. A. Hidayatullah and Styawati, “Rancang bangun single-axis solar tracker untuk pembangkit listrik tenaga surya skala kecil,” *Jurnal Pepadun*, vol. 5, no. 1, pp. 64–71, 2024.

- [8] H. A. Kusuma, H. Saputra, Muhazri, and T. K. Sandi, “Analisis perbandingan performa sensor light dependent resistor (ldr) pada ukuran 5mm dan 10mm dalam pengukuran intensitas cahaya,” *Jurnal Pepadun*, vol. 5, no. 1, pp. 64–71, 2024.
- [9] R. D. Rahayani and A. Gunawan, “A design and implementation of dual axis solar tracker using mini photo voltaic as solar sensor,” in *Proceedings of the 8th International Conference on Informatics, Environment, Energy and Applications*, 2019, pp. 110–114.
- [10] B. E. M. Salam, I. Kamil, and N. Nadhiroh, “Sistem monitoring luaran daya panel surya solar tracker berbasis internet of things dengan goiot,” *Electricces*, vol. 3, no. 2, pp. 53–59, 2021.
- [11] T. D. Hakim and M. Sukma, “Rancang bangun dual-axis solar tracker menggunakan mikrokontroler arduino mega 2560,” *Jurnal Elektro*, vol. 10, no. 2, pp. 106–118, Jul. 2022. [Online]. Available: <https://journal.teknikunkris.ac.id/index.php/elektro>
- [12] I. Muñoz, I. F. Escrivá-Escrivá, C. Roldán-Blay, F. Álvarez-Domínguez, and M. Gómez-Gil, “Evaluation of horizontal single-axis solar tracker algorithms in terms of energy production and efficiency,” *Solar RRL*, vol. 7, no. 7, pp. 1–13, 2023.
- [13] U. Vuyyuru, S. Maiti, and C. Chakraborty, “Active power flow control between dc microgrids,” *IEEE Transactions on Smart Grid*, vol. 10, no. 5, pp. 5712–5723, September 2019, supported by the Department of Science and Technology, Govt. of India, through the project ”Reliable and Efficient System for Community Energy Solution” under Grant DST/RCUK/SEGES/2012/04(G).
- [14] D. Anugrah, “Penerapan hukum kirchhoff dan hukum ohm pada analisis rangkaian listrik menggunakan software electronics workbench,” *Journal of Systems, Information Technology, and Electronics Engineering*, vol. 3, no. 1, pp. 1–11, 2023, submitted: 10 October 2022, Revised: 11 November 2022, Accepted: 30 December 2022.
- [15] M. Dada and P. Popoola, “Recent advances in solar photovoltaic materials and systems for energy storage applications: a review,” *Beni-Suef University Journal of Basic and Applied Sciences*, vol. 12, no. 66, pp. 1–15, 2023.
- [16] S. N. Vodapally and M. H. Ali, “A comprehensive review of solar photovoltaic (pv) technologies, architecture, and its applications to improved efficiency,” *Energies*,

- vol. 16, no. 1, p. 319, 2023.
- [17] J. Azeez, “Energy analysis of a 20w solar photovoltaic module: A review,” *International Journal of Research and Innovation in Applied Science*, vol. 9, no. 1, pp. 214–218, 2024.
- [18] M. A. Annas, A. Widodo, M. C. Aisiyah, I. E. Ningrum, and D. Makrufah, “Karakterisasi sensor cahaya light dependent resistor (ldr),” *Masaliq: Jurnal Pendidikan dan Sains*, vol. 2, no. 4, pp. 612–622, 2022, terindeks Google Scholar, Moraref, BASE, OneSearch. [Online]. Available: <https://ejournal.yasin-alsys.org/index.php/masaliq/article/view/516>
- [19] F. Y. Prasetyawati, D. Harjunowibowo, A. Fauzi, B. Utomo, and D. Harmanto, “Calibration and validation of ina219 as sensor power monitoring system using linear regression,” *AIUB Journal of Science and Engineering (AJSE)*, vol. 22, no. 3, pp. 240–249, 2023, published by American International University-Bangladesh. [Online]. Available: <https://ajse.aiub.edu>
- [20] H. Pranata, “Rancang bangun solar tracker dual axis panel surya berbasis arduino,” Ph.D. dissertation, Institut Teknologi Nasional Malang, 2022.
- [21] R. Syafrialdi *et al.*, “Rancang bangun solar tracker berbasis mikrokontroler atmega8535 dengan sensor ldr dan penampil lcd,” *Jurnal Fisika Unand*, vol. 4, no. 2, 2015.
- [22] R. Divya, K. Karunanithi, and S. Ramesh, “An investigation on performance characteristics of sealed lead acid battery,” in *Proceedings of the Fourth International Conference on Smart Systems and Inventive Technology (ICSSIT-2022)*, Vel Tech Rangarajan Dr. Saganthala R&D Institute of Science & Technology. Chennai, India: IEEE, 2022, pp. 563–567.
- [23] J. Meeus, *Astronomical Algorithms*, first english edition ed. Richmond, Virginia: Willmann-Bell, Inc., 1991.
- [24] B. Podolsky and H. H. Denman, “A macroscopic approach to ohm’s law,” *Journal of Physics Education*, 2006.
- [25] P. Strasberg and A. Winter, “First and second law of quantum thermodynamics: A consistent derivation based on a microscopic definition of entropy,” *PRX Quantum*, vol. 2, no. 3, p. 030202, 2021.