

DAFTAR PUSTAKA

- [1] F. Suryansyah, H. Prayogi, M. D. Arisyi, P. Payombi, and N. Nadhiroh, "Otomasi Penggerak Reflektor Panel Surya Berbasis Internet of Things Otomasi Penggerak Reflektor Panel Surya Berbasis Internet of Things," *J. Otomasi Kelistrikan dan Energi Terbarukan*, 2023, [Online]. Available: [https://repository.pnj.ac.id/id/eprint/13513/3/Jurnal Electrices_Otomasi Penggerak Reflektor Panel Surya Berbasis Internet of Things.pdf](https://repository.pnj.ac.id/id/eprint/13513/3/Jurnal_Electrices_Otomasi_Penggerak_Reflektor_Panel_Surya_Berbasis_Internet_of_Things.pdf)
- [2] M. T. A. Khan, S. M. S. Tanzil, R. Rahman, and S. M. S. Alam, "Design and construction of an automatic solar tracking system," in *ICECE 2010 - 6th International Conference on Electrical and Computer Engineering*, 2010, pp. 326–329. doi: 10.1109/ICECE.2010.5700694.
- [3] Erwan Eko Prasetyo, Gaguk Marausna, and D. W. Nugroho, "Optimalisasi Pembangkitan Daya Panel Surya 200 WP Menggunakan Solar Tracker System Dual Axis," *J. Nas. Tek. Elektro dan Teknol. Inf.*, vol. 11, no. 3, pp. 215–221, 2022, doi: 10.22146/jnteti.v11i3.4143.
- [4] A. I. Soumi, B. R. Utomo, N. T. Atmoko, and E. Sarwono, "Studi Eksperimental Performa Photovoltaic Cell dengan Variasi Jenis Pendingin," *Creat. Res. Eng.*, vol. 3, no. 2, p. 73, 2023, doi: 10.30595/erie.v3i2.16167.
- [5] Asnil, Krismadinata, I. Husnaini, and E. Astrid, "Design and Performance of Dual Axis Solar Tracker Based on Light Sensors To Maximize the Photovoltaic Energy Output," *J. Theor. Appl. Inf. Technol.*, vol. 100, no. 22, pp. 6554–6564, 2022.
- [6] J. E. Candra, R. D. Permatasari, Z. Munir, and M. A. Bora, "Smart Solar Panel Tracking Dual Axis Menggunakan Sensor LDR Berbasis Arduino," vol. 4, no. 3, pp. 525–534, 2023.
- [7] S. S. Yatmani, "Sistem kendali Solar Tracker Untuk Meningkatkan efisiensi Daya," *J. Tek. Mesin ITI*, vol. 4, no. 1, p. 1, 2020, doi: 10.31543/jtm.v4i1.354.
- [8] U. M. Karya, J. Mayor, M. Hasibuan, K. Bekasi, and J. Barat, "Pemanfaatan Solar Tracker Dual Axis Berbasis Iot Pada Fotovoltaik Polikristalin," *RELE (Rekayasa Elektr. dan Energi) J. Tek. Elektro*, vol. 6, no. 1, pp. 42–49, 2023, doi: 10.30596/rele.v6i1.15462.
- [9] M. Kamil Rahman, "Analisis Perbandingan Efisiensi Panel Surya 55 Watt dengan Tracking dan Tanpa Tracking," *J. Syntax Admiration*, vol. 3, no. 11, pp. 1395–1411, 2022, doi: 10.46799/jsa.v3i11.504.
- [10] K. Awasthi, D. S. Reddy, and M. K. Khan, "Design of Fresnel lens with spherical facets for concentrated solar power applications," *Int. J. Energy Res.*, vol. 44, no. 1, pp. 460–472, Jan. 2020, doi: 10.1002/er.4947.

- [11] S. Hani and G. Santoso, "Solar Cell Capacity Improvement Using Fresnel Lens Concentrator with Solar Tracker Control," *Int. J. Sci. Eng. Sci.*, vol. 2, no. 7, pp. 41–44, 2018, [Online]. Available: <http://ijses.com/>
- [12] L. Kuefouet Alexis, T. Julius Kewir, D. Kanouo Boris Merlain, and S. Segning Harry Bertholt, "Experimental study on the electrical and thermal characteristics of a hybrid photovoltaic/thermal water solar collector model using photovoltaic solar modules of different brands," *Energy Convers. Manag.* X, vol. 14, no. February, p. 100198, 2022, doi: 10.1016/j.ecmx.2022.100198.
- [13] E. H. Amalu and O. A. Fabunmi, "Thermal control of crystalline silicon photovoltaic (c-Si PV) module using Docosane phase change material (PCM) for improved performance," *Sol. Energy*, vol. 234, no. February, pp. 203–221, 2022, doi: 10.1016/j.solener.2022.02.001.
- [14] R. Prima Dewi, "Sistem Pendingin Panel Surya Otomatis Untuk Meningkatkan Daya Keluaran Panel Surya," *Simetris J. Tek. Mesin, Elektro dan Ilmu Komput.*, vol. 14, no. 1, pp. 1–10, 2023, doi: 10.24176/simet.v14i1.8901.
- [15] M. R. Saputra and R. Arizona, "Pengaruh Variasi Pendingin Pada Permukaan Bawah Panel Surya Terhadap Daya Output Dan Efisiensi," *J. Energi Dan Manufaktur*, vol. 15, no. 2, p. 112, 2023, doi: 10.24843/jem.2022.v15.i02.p07.
- [16] Z. Syafiqah, N. A. M. Amin, Y. M. Irwan, M. Irwanto, W. Z. Leow, and A. R. Amelia, "Performance power evaluation of DC fan cooling system for PV panel by using ANSYS CFX," in *AIP Conference Proceedings*, 2017, vol. 1885. doi: 10.1063/1.5002435.
- [17] D. R. Hartono, M. Haddin, and A. Marwanto, "Monitoring Daya Listrik Berbasis Internet of Things Menggunakan Metode Simple Exponential Smoothing untuk Prediksi Kebutuhan Energi," vol. 6, no. 02, pp. 59–67, 2023.
- [18] A. D. Pratomo, "Optimalisasi Daya Menggunakan Reflektor Dalam Rancang Bangun Panel Surya Monocrystalline 100WP," 2022, [Online]. Available: http://eprints.itn.ac.id/9264/%0Ahttp://eprints.itn.ac.id/9264/9/1812070_Jurnal.pdf
- [19] Afriandi, I. Yusuf, and A. Hiendro, "Implementasi Water Cooling System Untuk Menurunkan Temperature Losses Pada Panel Surya," *J. Tek. Elektro Univ. Tanjungpura*, vol. 1, no. 2, pp. 3–5, 2017.
- [20] M. Irfan, I. Pakaya, and A. Faruq, "Penentuan Posisi Sudut Matahari Menggunakan ANFIS dalam Aplikasi Tracker Panel Surya," *J. Nas. Tek. ELEKTRO*, vol. 8, no. 3, p. 89, 2019, doi: 10.25077/jnte.v8n3.671.2019.
- [21] B. H. Purwoto, J. Jatmiko, M. A. Fadilah, and I. F. Huda, "Efisiensi Penggunaan Panel Surya sebagai Sumber Energi Alternatif," *Emit. J. Tek. Elektro*, vol. 18, no. 1, pp. 10–14, 2018, doi: 10.23917/emitor.v18i01.6251.
- [22] S. Yunus and R. H. Sukma, "The Study of the Effect of Capacity Increase

- and Photovoltaic Placement on Power Loss, Voltage Profile by Considering THD_v,” *Andalas J. Electr. Electron. Eng. Technol.*, vol. 1, no. 2, pp. 74–79, 2021, doi: 10.25077/ajeet.v1i2.13.
- [23] D. Fadly, “Studi Pengaruh Kaca Film Dengan Tingkat Kegelapan 10% Dari Merek Yang Berbeda Terhadap Daya Keluaran Photovoltaik,” 2021, Accessed: Dec. 06, 2023. [Online]. Available: <http://scholar.unand.ac.id/68498/>
- [24] L. Bhukya, N. R. Kedika, and S. R. Salkuti, “Enhanced Maximum Power Point Techniques for Solar Photovoltaic System under Uniform Insolation and Partial Shading Conditions: A Review,” *Algorithms*, vol. 15, no. 10, 2022, doi: 10.3390/a15100365.
- [25] A. T. Nugraha, A. M. Ravi, and M. Z. A. Tiwana, “Penggunaan Algoritma Interferensi dan Observasi Untuk Sistem Pelacak Titik Daya Maksimum Pada Sel Surya Menggunakan Konverter DC-DC Photovoltaics,” *J. Janitra Inform. dan Sist. Inf.*, vol. 1, no. 1, pp. 8–18, Apr. 2021, doi: 10.25008/JANITRA.V1I1.107.
- [26] T. D. Hakim and M. Sukma, “Rancang Bangun Dual-Axis Solar Tracker Menggunakan Mikrokontroler Arduino Mega 2560,” *J. Elektro*, vol. 10, no. ISSN, pp. 2302–4712, 2022.
- [27] U. Wibawa, H. Purnomo, and A. Z. Ramadhani, “Aplikasi Solar Tracker System Berbasis Arduino Uno untuk Sistem Photovoltaic Pada Penerangan Jalan Umum,” *J. EECCIS (Electrics, Electron. Commun. Control. Informatics, Syst.*, vol. 15, no. 2, pp. 43–48, 2022, doi: 10.21776/jeccis.v15i2.1542.
- [28] A. B. Pulungan, Q. Fajri, and I. Yelfianhar, “Peningkatan Daya Keluaran Panel Surya Menggunakan Single Axis Tracker Pada Daerah Khatulistiwa,” *JTEV (Jurnal Tek. Elektro dan Vokasional)*, vol. 7, no. 2, p. 261, 2021, doi: 10.24036/jtev.v7i2.113304.
- [29] A. D. Tarigan and Hamdani, “Penggunaan Sistem Pendingin Temperatur Sebagai Peningkatan Kinerja Panel Surya,” *Semin. Nas. Tek.*, pp. 120–127, 2020.
- [30] E. P. Laksana, O. Sanjaya, S. Sujono, S. Broto, And N. Fath, “Sistem Pendinginan Panel Surya dengan Metode Penyemprotan Air dan Pengontrolan Suhu Air menggunakan Peltier,” *ELKOMIKA J. Tek. Energi Elektr. Tek. Telekomun. Tek. Elektron.*, vol. 10, no. 3, p. 652, Jul. 2022, doi: 10.26760/elkomika.v10i3.652.
- [31] M. Angulo-Calderón, I. Salgado-Tránsito, I. Trejo-Zúñiga, C. Paredes-Orta, S. Kesthkar, and A. Díaz-Ponce, “Development and Accuracy Assessment of a High-Precision Dual-Axis Pre-Commercial Solar Tracker for Concentrating Photovoltaic Modules,” *Appl. Sci.*, vol. 12, no. 5, pp. 1–21, 2022, doi: 10.3390/app12052625.
- [32] S. Helena, “Unjuk Kerja Single Axis Solar Tracker Berdasarkan Perubahan

- Waktu Pergerakan Matahari,” *MSI Trans. Educ.*, vol. 3, no. 4, pp. 202–214, 2022.
- [33] Z. A. Pane, W. Priharti, and D. K. Silalahi, “Memaksimalkan Daya Output Panel Surya Menggunakan Metode Konvergensi Cahaya Dan Penjejak Matahari,” vol. 9, no. 5, pp. 2098–2105, 2022, [Online]. Available: <https://openlibrarypublications.telkomuniversity.ac.id/index.php/engineering/article/view/18466%0Ahttps://openlibrarypublications.telkomuniversity.ac.id/index.php/engineering/article/view/18466/18018>
- [34] E. Anggraini Handoyo, I. N. Bisono, and P. Jonathan, “Perancangan dan Pengujian Lensa Fresnel pada Kolektor Surya Plat Datar,” *J. Tek. Mesin*, vol. 17, no. 2, pp. 48–56, 2020, doi: 10.9744/jtm.17.2.48-56.
- [35] S. Nasional, T. Elektro, S. Informasi, and T. Informatika, “Seminar Nasional Teknik Elektro, Sistem Informasi, dan Teknik Informatika,” pp. 219–224, 2021.
- [36] D. Sasmoko, *Arduino dan Sensor pada Project Arduino DIY*. 2021.
- [37] M. Sahreri, D. Notosudjono, and A. R. Machdi, “Prototype Pembuang Asap Rokok Menggunakan Exhaust Fan Dengan Plts Sebagai Back Up Daya Berbasis Internet Of Things.”
- [38] A. Dahlan, *Diktat IV Kuliah Kendali Motor : Motor Stepper , Motor Sinkron*. 2020.
- [39] S. Kurniadi, R. Arizona, and S. A. Saragih, “Pengaruh penambahan peralatan pendukung pada solar cell terhadap kinerja solar cell,” *J. Tek. Mesin Indones.*, vol. 17, no. 1, pp. 30–41, 2022.
- [40] Gede Patrianaya Margayasa Wirsayana, Rukmi Sari Hartati, and Ida Bagus Gede Manuaba, “Metode Maximum Power Point Tracking pada Panel Surya : Sebuah Tinjauan Literatur,” *Techné J. Ilm. Elektrotek.*, vol. 21, no. 2, pp. 211–224, 2022, doi: 10.31358/techne.v21i2.321.