

DAFTAR PUSTAKA

- [1] (2012, June 19). Matahari Untuk PLTS di Indonesia. ESDM. Retrieved February 4, 2023, from <https://www.esdm.go.id/id/media-center/arsip-berita/matahari-untuk-plts-di-indonesia>.
- [2] M. Franken, "Renewable energy sources – basis for changing the energy course," Energy transition in the country: storage technologies shape nature, no. 15–16, 2014.
- [3] V. Kavya and R. M. R. Keshav, "Solar Dust Detection System," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 138-140, doi: 10.1109/PEEIC.2018.8665410.
- [4] S. K. Thomas, S. Joseph, T. S. Sarop, S. B. Haris and R. Roopak, "Solar Panel Automated Cleaning (SPAC) System," 2018 International Conference on Emerging Trends and Innovations In Engineering And Technological Research (ICETIETR), Emakulam, India, 2018, pp. 1-3, doi: 10.1109/ICETIETR.2018.8529032.
- [5] I. M. Kirpichnikova and V. V. Shestakova, "System for Cleaning the Surface of Solar Modules from Dust Pollution," 2020 International Ural Conference on Electrical Power Engineering (UralCon), Chelyabinsk, Russia, 2020, pp. 349-355, doi: 10.1109/UralCon49858.2020.9216252.
- [6] H. Kawamoto and M. Kato, "Electrostatic Cleaning Equipment for Dust Removal from Solar Panels of Mega Solar Power Generation Plants," 2018 IEEE 7th World Conference on Photovoltaic Energy Conversion (WCPEC) (A Joint Conference of 45th IEEE PVSC, 28th PVSEC & 34th EU PVSEC), Waikoloa, HI, USA, 2018, pp. 3648-3652, doi: 10.1109/PVSC.2018.8547468.
- [7] H. Kawamoto and T. Shibata, "Electrostatic cleaning system for removal of sand from solar panels," 2013 IEEE 39th Photovoltaic Specialists Conference (PVSC), Tampa, FL, USA, 2013, pp. 0094-0098, doi: 10.1109/PVSC.2013.6744107.

- [8] M. R. Habib et al., "Automatic Solar Panel Cleaning System Based on Arduino for Dust Removal," 2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS), Coimbatore, India, 2021, pp. 1555-1558, doi: 10.1109/ICAIS50930.2021.9395937.
- [9] Matthew Muller (April 1, 2021) Scientists Studying Solar Try Solving a Dusty Problem [<https://www.nrel.gov/>] di akses dari <https://www.nrel.gov/news/features/2021/scientists-studying-solar-try-solving-a-dusty-problem.html>
- [10] T. Cahyadi," Rancang bangun solar tracking system dual axis untuk memaksimalkan penerimaan cahaya matahari berbasis arduino mega,"Politeknik Negeri Bandung, 2019.
- [11] PNG all (2019) PNG All RSS. Available at: <https://www.pngall.com/solar-panel-png/download/31231> (Accessed: 22 August 2023).
- [12] Pido, Rifaldo, Syukri Himran, and Mahmuddin Mahmuddin. "Analisa Pengaruh Pendinginan Sel Surya Terhadap Daya Keluaran Dan Efisiensi." *Jurnal Teknologi* (2018).
- [13] "Zero-Drift, Bi-Directional CURRENT/POWER MONITOR with I2C™ Interface data sheet," Texas Instruments
- [14] Shojaei, W. by A.M. (2023) Interfacing INA219 current sensor module with Arduino, Electropeak. Available at: <https://electropeak.com/learn/interfacing-ina219-current-sensor-module-with-arduino/> (Accessed: 22 August 2023).
- [15] Razor, A. (2021) Modul Relay Arduino: Pengertian, Gambar, Skema, Dan Lainnya, Aldyrazor.com. Available at: <https://www.aldyrazor.com/2020/05/modul-relay-arduino.html> (Accessed: 22 August 2023).
- [16] WatElectronics (2023) *TB6600 Stepper Motor Driver: Datasheet & Its Applications*, *WatElectronics.com*. Available at: <https://www.watelectronics.com/tb6600-stepper-motor-driver-module/> (Accessed: 22 August 2023).

- [17] Academy, I.R. (2021) *Instiper Robotics Academy, INSTIPER Robotics Academy*. Available at: <https://robotics.instiperjogja.ac.id/post/stepper> (Accessed: 22 August 2023).
- [18] *LM2596* (2023) *LM2596 data sheet, product information and support | TI.com*. Available at: <https://www.ti.com/product/LM2596> (Accessed: 22 August 2023).
- [19] *LM2596 DC-DC buck converter step-Down power module* (no date) *Senith Electronics*. Available at: <http://www.senith.lk/shop/item/1081/lm2596-dc-dc-buck-converter-step-down-power-module> (Accessed: 22 August 2023).
- [20] Artificial pulse generator triggers LOFAR radio telescope - Scientific Figure on ResearchGate. Available from: https://www.researchgate.net/figure/Schematic-high-voltage-generator_fig3_272307652 [accessed 21 Aug, 2023]
- [21] *High voltage transformer generator for DC 3V-6V to 400kv 400000V boost step-up power module* (no date) *Amazon.in: Computers & Accessories*. Available at: <https://www.amazon.in/Voltage-Transformer-Generator-400000V-Step-up/dp/B09HQQYMYG> (Accessed: 22 August 2023).
- [22] Lampung, T.A.K. Retro aksoris komputer, Aksoris Komputer Lampung. Available at: <https://www.aksesoriskomputerlampung.com/2021/01/lcd-i2c-16x2-blue.html> (Accessed: 22 August 2023).
- [23] Suryana, T. (2021). Measuring Light Intensity Using the BH1750 Sensor.
- [24] *Baterai Aki Ups 12V 20Ah VRLA Zeus Battery Aki Kering - Tokopedia*. Available at: <https://www.tokopedia.com/zbattery/baterai-aki-ups-12v-20ah-vrla-zeusbattery-aki-kering> (Accessed: 21 August 2023).
- [25] *SCC18650*. Available at: <https://sandiinverter.com/scc18650.html> (Accessed: 22 August 2023).

- [26] J. Yerramsetti, D. S. Paritala and R. Jayaraman, "Design and Implementation of Automatic Robot for Floating Solar Panel Cleaning System using AI Technique," 2021 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, 2021, pp. 1-4, doi: 10.1109/ICCCI50826.2021.9402482.
- [27] Yuvraj U. Rathod, Mithun M. Bhavsar, DKK (2018, May, 5) Automatic Dust Cleaning of Solar Panel with Night Sensing Auto Turn Off Mode diakses dari https://www.ijareeie.com/upload/2018/may/60_Automatic.pdf
- [28] Panat, S. and Varanasi, K.K. (2022) "Electrostatic dust removal using adsorbed moisture–assisted charge induction for sustainable operation of solar panels," *Science Advances*, 8(10). Available at: <https://doi.org/10.1126/sciadv.abm0078>.
- [29] Mohammed, H. A., Baha'a, A. M., & Al-Mejibli, I. S. (2018, May). Smart system for dust detecting and removing from solar cells. In *Journal of Physics: Conference Series* (Vol. 1032, No. 1, p. 012055). IOP Publishing.
- [30] Usman, Mukhamad K. "Analisis Intensitas Cahaya Terhadap Energi Listrik Yang Dihasilkan Panel Surya." *Power Elektronik*, vol. 9, no. 2, 2020, pp. 52-57, doi:[10.30591/polektr.v9i2.2047](https://doi.org/10.30591/polektr.v9i2.2047).
- [31] Tiyas, P. K., & Widyartono, M. (2020). Pengaruh Efek Suhu Terhadap Kinerja Panel Surya. *Jurnal Teknik Elektro*, 9(1).
- [32] Rahajoeningroem, T., & Jatnika, I. (2022). Sistem Pendingin Otomatis Panel Surya Untuk Peningkatan Daya Output Berbasis Mikrokontroler. *Telekontran: Jurnal Ilmiah Telekomunikasi, Kendali dan Elektronika Terapan*, 10(1), 69-77.
- [33] Rofandi, M. N. (2022). Sistem Kerja Electrostatic Precipitator (ESP) Untuk Menangkap Abu Hasil Proses Pembakaran di PLTU PT. Dian Swastatika Sentosa Serang Power Plant. *G-Tech: Jurnal Teknologi Terapan*, 6(2), 376-386.