

DAFTAR PUSTAKA

- [1] N. Yuniarti and I. W. Aji, *Modul Pembelajaran Pembangkit Tenaga Listrik*. Yogyakarta: FT. UNY, 2019.
- [2] Aulia Mutiara Hatia Putri, “Sulit! Target Bauran EBT 23% 2025 Hanya Angan Belaka?,” *CNBC Indonesia Research*, Jan. 04, 2023. Accessed: May 20, 2023. [Online]. Available: <https://www.cnbcindonesia.com/research/20230104073302-128-402575/sulit-target-bauran-ebt-23-2025-hanya-angan-belaka/1>
- [3] D. Siswanto, *Outlook Energi Indonesia 2022*. Jakarta: Dewan Energi Nasional, 2022.
- [4] M. Khairul Akbar, Syukriyadin, and R. Halid Siregar, “Rancang Bangun Alat Sinkronisasi Tegangan, Frekuensi, dan Sudut Fasa Sistem Fotovoltaik dengan Grid/Jaringan PLN Menggunakan Arduino,” *KITEKTRO: Jurnal Online Teknik Elektro*, vol. 5, no. 3, pp. 10–19, 2020.
- [5] D. H. Saputra and J. Soba, “Perancangan Hybrid dan Synchronizer Power Supply untuk Pembangkit Listrik Tenaga Surya dan Grid PLN,” *Jurnal Teknologi Bahan dan Barang Teknik*, vol. 7, no. 12, pp. 57–62, Sep. 2017.
- [6] M. K. Akbar, S. Syukriyadin, R. H. Siregar, and S. Syahrizal, “Simulation of synchronization photovoltaic system and low voltage grid,” *IOP Conf Ser Mater Sci Eng*, vol. 1087, no. 1, p. 012076, Feb. 2021, doi: 10.1088/1757-899x/1087/1/012076.
- [7] M. Gowtham, S. Prasannakumar, M. Sabareeswaran, and P. Santhoshkumar, “Design and Hardware Implementation of Hybrid Wind-Solar Energy System For Pumping Water Based on Zigbee,” *International Research Journal of Modernization in Engineering Technology and Science*, vol. 3, no. 3, Mar. 2021, [Online]. Available: www.irjmets.com
- [8] M. Hussein Agamy, F. M. Allythi, and A. S. Nada, “Proposed Synchronization Circuits Connecting Wind Driven DFIG to the Public Grid,” *International Journal of Power Electronics and Drive Systems*, vol. 12, no. 1, pp. 151–159, Mar. 2021, doi: 10.11591/ijpeds.v12.i1.pp151-159.

- [9] U. A. Pringsewu, D. B. Prasetyo, and A. Kiswantono, "Sinkronisasi dan Monitoring Generator Dengan Pengendali Berbasis Arduino Mega 2560," *Aisyah Journal of Informatics and Electrical Engineering*, vol. 3, no. 2, 2020, [Online]. Available: <http://jti.aisyahuniversity.ac.id/index.php/AJIEE>
- [10] M. K. Fuady, "Prototipe Sinkronisasi Inverter Antar Pembangkit Listrik Tenaga Surya," Universitas Muhammadiyah Surakarta, Surakarta, 2022.
- [11] E. Mey Hermawan and D. Saidah, "Implementasi Sinkronisasi Jaringan dengan Inverter Berbasis SPWM Menggunakan Zero Crossing Detector," *CYCLTRON*, vol. 4, no. 1, Jan. 2021.
- [12] S. Das and K. M. Salim, "Design and implementation of one kilowatt capacity single phase grid tie photovoltaic inverter," in *1st International Conference on Electrical Engineering and Information and Communication Technology, ICEEICT 2014*, Institute of Electrical and Electronics Engineers Inc., Oct. 2014. doi: 10.1109/ICEEICT.2014.6919081.
- [13] S. Vaidyanathan and A. T. Azar, *Handbook of Research on Advanced Intelligent Control Engineering and Automation*. USA, 2015.
- [14] O. Sumantri, D. Embang, and U. Rosadi, "Pedoman Penyambungan Pembangkit Listrik Energi Terbarukan Ke Sistem Distribusi PLN," Jakarta, Jul. 2014.
- [15] S. R. Hikmawan and E. A. Suprayitno, "Rancang Bangun Lampu Penerangan Jalan Umum (PJU) Menggunakan Solar Panel Berbasis Android (Aplikasi di Jalan Parkiran Kampus 2 UMSIDA)," *ELINVO (Electronics, Informatics, and Vocational Education)*, vol. 3, no. 1, pp. 9–17, Jul. 2018, doi: 10.21831/elinvo.v3i1.15343.
- [16] P. Putra, A. Joewono, R. Sitepu, L. Agustine, W. Andyardja, and J. T. Elektro, "Alat Pemantau dan Pengendali Sistem Penyimpanan Energi Pada Solar Panel," *Scientific Journal Widya Teknik*, vol. 17, no. 1, 2018.
- [17] M. Tripathy, P. K. Sadhu, and S. K. Panda, "A critical review on building integrated photovoltaic products and their applications," *Renewable and Sustainable Energy Reviews*, vol. 61, pp. 451–465, Aug. 2016, doi: 10.1016/j.rser.2016.04.008.

- [18] H. Kang, T. Hong, and M. Lee, "Technical performance analysis of the smart solar photovoltaic blinds based on the solar tracking methods considering the climate factors," *Energy Build*, vol. 190, pp. 34–48, May 2019, doi: 10.1016/j.enbuild.2019.02.013.
- [19] T. Majaw, R. Deka, S. Roy, and B. Goswami, "Solar Charge Controllers using MPPT and PWM: A Review," *ADBU Journal of Electrical and Electronics Engineering (AJEEE)*, vol. 2, no. 1, 2018, [Online]. Available: www.tinyurl.com/ajeee-adbu
- [20] M. Junaldy, S. R. U. A. Sompie, and L. S. Patras, "Rancang Bangun Alat Pemantau Arus Dan Tegangan Di Sistem Panel Surya Berbasis Arduino Uno," *Jurnal Teknik Elektro dan Komputer*, vol. 8, no. 1, Apr. 2019.
- [21] N. Evalina, Zulfikar, and A. Arfis, "Penggunaan Inverter 3G3MX2 Untuk Merubah Kecepatan Putar Motor Induksi 3 Phasa," *Journal of Electrical Technology*, vol. 4, no. 2, Jun. 2019.
- [22] S. Saodah and S. Utami, "Perancangan Sistem Grid Tie Inverter pada Pembangkit Listrik Tenaga Surya," *ELKOMIKA: Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika*, vol. 7, no. 2, pp. 339–350, May 2019, doi: 10.26760/elkomika.v7i2.339.
- [23] "Arduino Nano Overview."
- [24] M. Fezari and A. Al Dahoud, "Integrated Development Environment 'IDE' For Arduino," 2018. [Online]. Available: <https://www.researchgate.net/publication/328615543>
- [25] G. Hergika, Siswanto, and Sutarti, "Perancangan Internet Of Things (IOT) Sebagai Kontrol Infrastruktur dan Peralatan Toll Pada PT. ASTRA INFRATOLL ROAD," *Jurnal PROSISKO*, vol. 8, no. 2, Sep. 2021, [Online]. Available: <https://www.esp8266.com/viewtopic.php?p=68657>
- [26] I. Abubakar, S. N. Khalid, M. W. Mustafa, H. Shareef, and M. Mustapha, "Calibration Of ZMPT101B Voltage Sensor Module Using Polynomial Regression For Accurate Load Monitoring," vol. 12, no. 4, Feb. 2017, [Online]. Available: www.arpnjournals.com
- [27] "Power Factor Measurement Using Arduino."

- [28] A. Wafiah, U. Suwardoyo, and F. Syawal, “Aplikasi Mendeteksi Jenis Harga Assesories Handphone Menggunakan Augmented Reality,” *JURNAL SINTAKS LOGIKA*, Jan. 2021, [Online]. Available: <https://jurnal.umpar.ac.id/index.php/sylog>
- [29] N. M. Rodrigues, F. M. Janeiro, and P. M. Ramos, “Digital Filter Performance for Zero Crossing Detection in Power Quality Embedded Measurement Systems,” *IEEE Instrumentation and Measurement Society*, May 2018.
- [30] M. Azrik, K. H. Ahmed, S. J. Finney, and B. W. Williams, “Voltage synchronization scheme based on zero crossing detection for parallel connected inverters in AC microgrids,” in *IEEE International Symposium on Industrial Electronics*, 2012, pp. 588–593. doi: 10.1109/ISIE.2012.6237153.
- [31] “AC 220V Frequency Counter Using Arduino.” Accessed: Apr. 18, 2023. [Online]. Available: moussa-simple-project.com