

DAFTAR PUSTAKA

- [1] Dewan Energi Nasional, *Evaluasi Capaian Bauran Energi Nasional Tahun 2022*. Gedung Widjajono Partowidagdo, Jl. Jenderal Gatot Subroto Kav. 49, Jakarta Selatan: Sekretariat Jenderal Dewan Energi Nasional, 2022, penasihat Utama: Menteri Energi dan Sumber Daya Mineral selaku Ketua Harian Dewan Energi Nasional.
- [2] Kementerian Energi dan Sumber Daya Mineral Republik Indonesia. (2022) Roadmap net zero emissions 2060. Diakses pada 11 Agustus 2024. [Online]. Available: <https://www.esdm.go.id/en/media-center/news-archives/luncurkan-peta-jalan-nze-sektor-energi-indonesia-ini-hasil-pemodelan-iaea>
- [3] ——. (2023) Potensi energi surya di indonesia. Diakses pada 11 Agustus 2024. [Online]. Available: <https://www.esdm.go.id/id/media-center/arsip-berita/matahari-untuk-plts-di-indonesia>
- [4] Z. Shuai, Y. Sun, Z. J. Shen, W. Tian, C. Tu, Y. Li, and X. Yin, “Microgrid stability: Classification and a review,” *Renewable and Sustainable Energy Reviews*, vol. 58, pp. 167–179, 2016. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1364032115015841>
- [5] B. Fani, G. Shahgholian, H. Haes Alhelou, and P. Siano, “Inverter-based islanded microgrid: A review on technologies and control,” *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, vol. 2, p. 100068, 2022. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2772671122000407>
- [6] S. Chowdhury, S. Chowdhury, and P. Crossley, *Microgrids and Active Distribution Networks*, ser. IET Renewable Energy Series. London, United Kingdom: The Institution of Engineering and Technology, 2009, vol. 6.
- [7] B. S. Mahdi, M. S. Ali, N. Sulaiman, H. Hizam, S. Shafie, and M. A. Shehab, *Comparative Study of DC/AC Inverter Control Techniques for Three Phase Grid Connected PV System*, Aug. 2022, vol. 11, no. 3.
- [8] M. Prodanovic and T. C. Green, “Control of power quality in inverter-based distributed generation,” in *IEEE 2002 28th Annual Conference of the Industrial Electronics Society. IECON 02*, vol. 2. IEEE, 2002, pp. 1185–1189.
- [9] H. S. Khan and A. Y. Memon, “Active and reactive power control of the voltage source inverter in an ac microgrid,” *Sustainability*, vol. 15, no. 2, p. 1621, 2023.
- [10] S. M. Cherati, N. A. Azli, S. M. Ayob, and A. Mortezaei, “Design of a current mode pi controller for a single-phase pwm inverter,” in *2011 IEEE Applied Power Electronics Colloquium (IAPEC)*, 2011, pp. 180–184.
- [11] H. Vahedi and K. Al-Haddad, “Half-bridge based multilevel inverter generating higher voltage and power,” in *2013 IEEE Electrical Power Energy Conference*, 2013, pp. 1–6.
- [12] D. Pattabiraman, R. H. Lasseter., and T. M. Jahns, “Comparison of grid following and grid forming control for a high inverter penetration power system,” in *2018 IEEE Power Energy Society General Meeting (PESGM)*, 2018, pp. 1–5.

- [13] I. Hamdan, A. Alfouly, and M. A. Ismeil, "A literature review on hosting capacity methodologies and inverter control technologies for photovoltaic system," in *2023 IEEE Conference on Power Electronics and Renewable Energy (CPERE)*, 2023, pp. 1–7.
- [14] F. M. Aboshady, I. Pisica, A. F. Zobaa, G. A. Taylor, O. Ceylan, and A. Ozdemir, "Reactive power control of pv inverters in active distribution grids with high pv penetration," *IEEE Access*, vol. 11, pp. 81 477–81 496, 2023.
- [15] V. V. Babu, J. P. Roselyn, C. Nithya, and P. Sundaravadivel, "Development of grid-forming and grid-following inverter control in microgrid network ensuring grid stability and frequency response," *Electronics*, vol. 13, no. 1958, 2024, academic Editors: Vincenzo d'Alessandro, Antonio Pio Catalano, and Ciro Scognamillo. [Online]. Available: <https://doi.org/10.3390/electronics13101958>
- [16] N. Xu, X. Chu, and H. Ye, "Active power coordination for a large population of grid-forming and grid-following inverters based on mean field games theory," *IEEE Access*, vol. 11, pp. 90 052–90 064, 2023.
- [17] A. Yazdani and R. Iravani, *Voltage-Sourced Converters in Power Systems: Modeling, Control, and Applications*. Hoboken, New Jersey: John Wiley & Sons, Inc., 2010.
- [18] Y. Li, Y. Gu, and T. C. Green, "Revisiting grid-forming and grid-following inverters: A duality theory," *IEEE Transactions on Power Systems*, vol. 37, no. 6, pp. 4541–4554, 2022.
- [19] P. Rani, Shikhar, S. Murugesan, and A. K. Singh, "Modeling and implementation of grid following and grid forming inverters," in *2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, 2022, pp. 1–6.
- [20] F. Sadeque, D. Sharma, and B. Mirafzal, "Power-sharing between grid-forming and grid-following inverters," in *2021 IEEE 22nd Workshop on Control and Modelling of Power Electronics (COMPEL)*, 2021, pp. 1–5.
- [21] A. Algaddafi, S. A. Altuwayjiri, O. A. Ahmed, and I. Daho, "An optimal current controller design for a grid connected inverter to improve power quality and test commercial pv inverters," *The Scientific World Journal*, vol. 2017, p. 13 pages, 2017. [Online]. Available: <https://doi.org/10.1155/2017/1393476>
- [22] J. Xu, H. Qian, S. Bian, Y. Hu, and S. Xie, "Comparative study of single-phase phase-locked loops for grid-connected inverters under non-ideal grid conditions," *CSEE Journal of Power and Energy Systems*, vol. 8, no. 1, pp. 155–164, 2022.
- [23] A. Khan, M. Easley, M. Hosseinzadehtaher, M. B. Shadmand, H. Abu-Rub, and P. Fajri, "Pll-less active and reactive power controller for grid-following inverter," in *2020 IEEE Energy Conversion Congress and Exposition (ECCE)*, 2020, pp. 4322–4328.
- [24] P. Sisodiya and A. K. Kori, "Stability index and control using pll in grid connected inverter system for hybrid renewable energy system," in *2022 2nd International Conference on Innovative Practices in Technology and Management (ICIPTM)*, vol. 2, 2022, pp. 483–487.

- [25] J. Holtz, "Pulsewidth modulation-a survey," *IEEE Transactions on Industrial Electronics*, vol. 39, no. 5, pp. 410–420, 1992.
- [26] I. B. F. Citarsa, I. N. W. Satiawan, and I. K. Wiryajati, "Pengaruh teknik modulasi pwm pada keluaran inverter tiga fase untuk pengaturan kecepatan variabel motor induksi," *Journal of Electrical Engineering*, vol. 6, no. 1, pp. 1–8, 2015.
- [27] H. Hussin, A. Saparon, M. Muhamad, and M. Risin, "Sinusoidal pulse width modulation (spwm) design and implementation by focusing on reducing harmonic content," in *2010 Fourth Asia International Conference on Mathematical/Analytical Modelling and Computer Simulation*, 2010, pp. 620–623.
- [28] M. Dursun and M. K. DÖŞOĞLU, "Lcl filter design for grid connected three-phase inverter," in *2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, 2018, pp. 1–4.
- [29] A. K. Sahoo, A. Shahani, K. Basu, and N. Mohan, "Lcl filter design for grid-connected inverters by analytical estimation of pwm ripple voltage," in *2014 IEEE Applied Power Electronics Conference and Exposition - APEC 2014*, 2014, pp. 1281–1286.
- [30] G. E. Mejía-Ruiz, J. Rodríguez, M. Paternina, N. Muñoz-Galeano, and A. Zamora, "Grid-connected three-phase inverter system with lcl filter: Model, control and experimental results," in *2019 IEEE PES Innovative Smart Grid Technologies Conference - Latin America (ISGT Latin America)*, 2019, pp. 1–6.
- [31] K. H. Ang, G. Chong, and Y. Li, "Pid control system analysis, design, and technology," *IEEE Transactions on Control Systems Technology*, vol. 13, no. 4, pp. 559–576, 2005.
- [32] S. J. Chapman, *Electric Machinery Fundamentals*, 4th ed., ser. McGraw-Hill Series in Electrical and Computer Engineering. New York: McGraw-Hill, 2005.
- [33] H. Purnata, M. Rameli, and R. E. AK, "Design of three phase inverter using hysteresis space vector pulse width modulation for speed control three phase induction motor," in *Proceedings of the International Seminar on Intelligent Technology and Its Applications (ISITIA)*. Surabaya, Indonesia: IEEE, 2017, pp. 1–6. [Online]. Available: https://www.researchgate.net/publication/321407935_Speed_control_of_three_phase_induction_motor_using_method_hysteresis_space_vector_pulse_width_modulation
- [34] G. Tan, J. Wei, W. Zhao, L. Qi, and X. Sun, "Application of three-dimensional unbalanced coordinate transformation to stand-alone four-leg voltage-source inverter," *IEEE Transactions on Power Electronics*, vol. 37, no. 10, pp. 11 686–11 703, 2022.
- [35] G. Abad, J. López, M. A. Rodríguez, L. Marroyo, and G. Iwanski, *Doubly Fed Induction Machine: Modeling and Control for Wind Energy Generation*. Hoboken, NJ: John Wiley & Sons, Inc., 2011.
- [36] H. Abu-Rub, M. Malinowski, and K. Al-Haddad, *Power Electronics for Renewable Energy Systems, Transportation and Industrial Applications*, 1st ed. Wiley-IEEE Press, 2014.

- [37] A. A. Adebiyi and I. E. Davidson, "Analysis of solar irradiation impact on grid-tied photovoltaic systems' power quality characteristics," in *2023 31st Southern African Universities Power Engineering Conference (SAUPEC)*, 2023, pp. 1–5.
- [38] X. R. Infancia, K. Kavya, and K. Hariharan, "Equilibration algorithm for maximum power point tracking in solar panels," in *2013 IEEE International Conference on Computational Intelligence and Computing Research*, 2013, pp. 1–4.
- [39] M. Galád and P. Špánik, "Design of photovoltaic solar cell model for stand-alone renewable system," in *2014 ELEKTRO*, 2014, pp. 285–288.
- [40] P. Kundur, J. Paserba, V. Ajjarapu, G. Andersson, A. Bose, C. Canizares, N. Hatzia-rygiou, D. Hill, A. Stankovic, C. Taylor, T. Van Cutsem, and V. Vittal, "Definition and classification of power system stability ieee/cigre joint task force on stability terms and definitions," *IEEE Transactions on Power Systems*, vol. 19, no. 3, pp. 1387–1401, 2004.