DAFTAR PUSTAKA

[1] C. O. Marpaung, U. Siahaan, and M. M. Sudarwani, "Perancangan sistem microgrid untuk mempercepat akses terhadap energi listrik (energy access) pada kawasan wisata setu rawalumbu kota bekasi," *Jurnal Comunita Servizio*, vol. 2, no. 1, pp. 352–378, 2020, e-ISSN: 2656–6771.

[2] A. M. H. Mattuppuang, "Studi perancangan microgrid berbasis solar photovoltaic dengan software homer pro di pelabuhan bajoe kabupaten bone sulawesi selatan," Universitas Islam Sultan Agung, Semarang, Final Project Report, 2023.

[3] S. Conti, A. M. Greco, N. Messina, and U. Vagliasindi, "Intentional islanding of mv microgrids: Discussion of a case study and analysis of simulation results," in *Proc. SPEEDAM 2008 – International Symposium on Power Electronics, Electrical Drives, Automation and Motion*. Ischia, Italy: IEEE, 2008, pp. 422–427.

[4] V. Haryanto, "Gi 20 kv resik, pengembangan, dan evaluasi pengembangan gardu induk 20 kv resik," Skripsi, Universitas Jenderal Achmad Yani, Fakultas Teknik, Bandung, 2021.

[5] M. Uddin, H. Mo, D. Dong, S. Elsawah, J. Zhu, and J. M. Guerrero, "Microgrids: A review, outstanding issues and future trends," *Energy Strategy Reviews*, vol. 49, p. 101127, 2023.

[6] M. Abbasi, E. Abbasi, L. Li, R. P. Aguilera, D. Lu, and F. Wang, "Review on the microgrid concept, structures, components, communication systems, and control methods," *Energies*, vol. 16, no. 1, p. 484, 2023.

[7] E. Hossain, E. Kabalci, R. Bayindir, and R. Perez, "A comprehensive study on microgrid technology," *International Journal of Renewable Energy Research*, vol. 4, no. 4, pp. 1094–1105, 2014.

[8] A. J. A. Samudera, "Pembuatan model sistem microgrid ugm berbasis pv rooftop," Skripsi, Departemen Teknik Elektro dan Teknologi Informasi, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2023.

[9] S. Arbi, "Analisis stabilitas tegangan dan frekuensi pada microgrid ac terhubung dg pada mode grid connected dan islanding," Tugas Akhir, Departemen Teknik Elektro, Fakultas Teknologi Elektro, Institut Teknologi Sepuluh Nopember, Surabaya, 2017.

[10] F. Amiri and M. H. Moradi, "Improving frequency stability of islanded microgrid using virtual inertia control on energy storage systems and renewable energy sources," *Sustainable Energy and Artificial Intelligence*, vol. 1, no. 1, pp. 37–44, 2025.

[11] A. E. Saputra, A. U. Krismanto, and A. Lomi, "Analisis pengaruh integrasi pembangkit energi baru terbarukan terhadap kestabilan frekuensi pada saluran transmisi 150 kv bali," *Magnetika*, vol. 7, no. 2, pp. 206–213, 2023.

[12] N. D. Pratiwi and Isdiyarto, "Analisis ketidakstabilan tegangan dan frekuensi pada pembangkit listrik tenaga mikrohidro soko kembang," *Energi dan Kelistrikan: Jurnal Ilmiah*, vol. 11, no. 2, pp. 129–137, 2019.

[13] A. Kusmantoro, *Bahan Ajar Sistem Mikrogrid*. Yogyakarta: Kadesi Publisher Yogyakarta, 2022.

[14] A. H. Muhammad, "Desain defense scheme sistem interkoneksi kalimantan dengan memperhatikan respons frekuensi," Skripsi, Departemen Teknik Elektro dan Teknologi Informasi, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2024.

[15] IEEE Power & Energy Society, Power System Dynamic Performance Committee, "Microgrid stability definitions, analysis, and modeling," IEEE, New York, USA, Technical Report PES-TR66, April 2018.

[16] X. Liu, X. Fang, N. Gao, H. Yuan, A. Hoke, H. Wu, and J. Tan, "Frequency nadir constrained unit commitment for high renewable penetration island power systems," *IEEE Open Access Journal of Power and Energy*, vol. 11, pp. 141–153, 2024.

[17] Kementerian Energi dan Sumber Daya Mineral Republik Indonesia, "Aturan jaringan sistem tenaga listrik (grid code)," Kementerian ESDM, Jakarta, Regulatory Document Peraturan Menteri ESDM Nomor 20 Tahun 2020, 2020, berita Negara Republik Indonesia Nomor 1794.

[18] *IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces*, IEEE Std. IEEE Std 1547-2018, 2018.

[19] F. Amiri and M. H. Moradi, "Improvement of frequency stability in the power system considering wind turbine and time delay," *Journal of Renewable Energy and Environment*, vol. 10, no. 1, pp. 9–18, 2023.

[20] European Commission, "Commission regulation (eu) 2017/1485 of 2 august 2017 establishing a guideline on electricity transmission system operation," Official Journal of the European Union, L 220/1, Brussels, Belgium, August 2017, also known as the ENTSO-E System Operation Guideline (SO GL).

[21] X. Meng, J. Yao, and F. Li, "Research of overshoot phenomenon in frequency control," in *Proceedings of the 6th International Conference on Machinery, Materials, Environment, Biotechnology and Computer (MMEBC 2016)*. Paris, France: Atlantis Press, 2016, pp. 688–691.

[22] S. Zhu, H. Wang, W. Wang, and X. Chang, "A combined day-ahead and intraday optimal scheduling strategy considering a joint frequency regulation reserve scheme among wind, photovoltaic, and thermal power," *Frontiers in Energy Research*, vol. 10, p. 998492, 2023.

[23] P. Kundur, *Power System Stability and Control*. New York: McGraw-Hill, 1994.

[24] I. Colak, M. Al-Nussari, R. Bayindir, and E. Hossain, "Voltage and frequency stability analysis of ac microgrid," in *Proceedings of the International Conference on Smart Grid and Clean Energy Technologies (ICSGCE)*. Singapore: IEEE, 2017, pp. 1–6.

[25] F. A. Rengifo, L. Romeral, J. Cusidó, and J. J. Cárdenas, "New model of a converter-based generator using electrostatic synchronous machine concept," *IEEE Transactions on Energy Conversion*, vol. 29, no. 2, pp. 344–353, 2014.

[26] CIGRÉ Working Group C2.26, "Review of system inertia and frequency control in low-inertia power systems," CIGRÉ, Paris, France, Tech. Rep. Technical Brochure 851, 2021.

[27] D. Sharma, F. Sadeque, and B. Mirafzal, "Synchronization of inverters in grid forming mode," *IEEE Access*, vol. 10, pp. 41 341–41 351, 2022.

[28] O. Mo, S. D'Arco, and J. A. Suul, "Evaluation of virtual synchronous machines with dynamic or quasi-stationary machine models," *IEEE Transactions on Industrial Electronics*, vol. 64, no. 7, pp. 5952–5962, 2017.

[29] *PowerFactory 2023 User Manual*, DIgSILENT GmbH, Gomaringen, Germany, 2023, online Edition. [Online]. Available: https://www.digsilent.de