

DAFTAR PUSTAKA

- [1] A. Ahdiat. (2023) Pembangkitan listrik, sumber emisi terbesar global pada 2022. [Online]. Available: <https://databoks.katadata.co.id/datapublish/2023/09/29/pembangkit-listrik-sumber-emisi-terbesar-global-pada-2022>
- [2] P. L. N. (PLN), “Rencana usaha penyediaan tenaga listrik (ruptl) 2021-2030,” PLN, Tech. Rep., 2021. [Online]. Available: <https://web.pln.co.id/statics/uploads/2021/10/ruptl-2021-2030.pdf>
- [3] “Peraturan presiden republik indonesia no. 112 tahun 2022 tentang percepatan pengembangan energi terbarukan untuk penyediaan tenaga listrik,” 2022, diakses pada Oktober 30, 2024. [Online]. Available: <https://jdih.setneg.go.id/>
- [4] I. for Essential Services Refrom, “Indonesia energy transtition,” IESR, Tech. Rep., 2024. [Online]. Available: <https://iesr.or.id/wp-content/uploads/2023/12/Indonesia-Energy-Transition-Outlook-IETO-2024.pdf#:~:text=URL%3A%20https%3A%2F%2Fiesr.or.id%2Fwp>
- [5] H. Widowati. (2023) Energi angin, surya, dan baterai tumbuh pesat di 2023. [Online]. Available: <https://katadata.co.id/ekonomi-hijau/energi-baru/658d7006acd00/energi-angin-surya-dan-baterai-tumbuh-pesat-di-2023>
- [6] P. L. N. (PLN), “Rencana usaha penyediaan tenaga listrik (ruptl) 2017-2026,” PLN, Tech. Rep., 2017.
- [7] (2018) Terbesar di asean, pltb sidrap beroperasi february 2018. [Online]. Available: <https://setnasasean.id/news-events/read/terbesar-di-asean-pltb-sidrap-beroperasi-februari-2018#:~:text=PLTB%20yang%20terletak%20di%20Kecamatan,dalam%20program%2035%20ribu%20MW>
- [8] H. Heryanto, “Studi kestabilan sistem kelistrikan kalimantan dan jawa 500 kv ac/dc menggunakan analisis modal,” Surabaya, Indonesia, 2018.
- [9] A. Maulida, “The impact of renewable energy on climate change,” *Peatland Agriculture and Climate Change Journal (PACC)*, no. 1, pp. 16–22, December 2023.
- [10] G. P. dan P.H. Schavemaker and et all, “Integration of stochastic generation in power systems,” *Electrical Power and Energy Systems*, no. 9, pp. 655–667, March 2006.
- [11] B. K. Bago, R. Syahputra, and F. Mujaahid, “Analisis perencanaan pembangkit listrik tenaga bayu (pltb) berbasis aplikasi homer energy di pantai parangtritis, bantul,” Bantul, 2019, program Studi S1 Teknik Elektro.
- [12] Y. Pan, F. Liu, C. Shen, L. Chen, and S. Mei, “Robust small-signal stability region of power systems considering uncertain wind generation,” *Power Energy Society General Meeting*, no. 2, pp. 1–5, 2015.
- [13] P. Kundur, *Power System Stability and Control*. New York: McGraw-Hill, Inc., 1994.



- [14] A. N. Widiastuti, “Perluasan small signal stability region (sssr) berbasis minimum damping ratio pada sistem tenaga listrik dengan penetrasi dfig yang tinggi,” Yogyakarta, Indonesia, 2024.
- [15] H. S. Darmawan, “Analisis small signal stability dengan mempertimbangkan pengembangan pembangkit listrik tenaga bayu pada kelistrikan sulawesi,” Yogyakarta, Indonesia, 2020.
- [16] DIgSILENT GmbH, *DIgSILENT PowerFactory 2023 user manual*, DIgSILENT GmbH, Gomaringen, Germany, 2023.
- [17] B. Mehta, P. Bhatt, and V. Pandya, “Small signal stability analysis of power systems with dfig based wind power penetration,” *elsevier*, vol. 58, no. 1, pp. 64–74, June 2014.
- [18] U.K.Verma, S. Banerjee, and A. P. singh, “An approach towards effective power oscillation damping with deployment and tuning of avr,and pss,” *2017 International Conference on Innovations in (ICEEIMT)*, no. 1, pp. 1–7, November 2017.
- [19] J. Bhukya and V. Mahajan, “Integration of dfig based wind turbine generator on small signal stability of power systems,” *2017 Innovations in Power and Advanced Computing Technologies (i-PAC)*, no. 1, pp. 1–6, January 2017.
- [20] S. Essallah, A. Bouallegue, and A. Khedher, “Integration of automatic voltage regulator and power system stabilizer: small-signal stability in dfig-based wind farms,” *2017 International Conference on Innovations in (ICEEIMT)*, vol. 7, no. 5, pp. 1115–1128, June 2019.
- [21] N. Hatziargyriou, J. Milanovic, C. Rahmann, and et all, “Definition and classification of power system stability – revisited extended,” *IEEE ransactions on Power Systems*, vol. 36, no. 4, pp. 3271–3281, 2021.
- [22] L. L. Grigsby, *Power System Stability and Control*. America: CRC Press Taylor Francis Group, 2007.
- [23] K. Ogata, *Modern Control Engineering Fifth Edition*. United States of America: Prentice Hall, 2010.
- [24] DIgSILENT GmbH, *DIgSILENT PowerFactory 2023 Synchronous Machine*, DIgSILENT GmbH, Gomaringen, Germany, 2023.
- [25] A. G. Abo-Khalil, *Impacts of Wind Farms on Power System Stability*, 2014, available at: <http://dx.doi.org/10.5772/55090>.
- [26] DIgSILENT GmbH, *DIgSILENT PowerFactory 2023 Doubly-Fed Induction Machine*, DIgSILENT GmbH, Gomaringen, Germany, 2023.
- [27] —, *DIgSILENT PowerFactory 2023 Asynchronous Machine*, DIgSILENT GmbH, Gomaringen, Germany, 2023.
- [28] F. M. Gonzalez-Longatt and J. L. Rueda, *PowerFactory Applications for Power System Analysis*. New York: Springer, 2014.



- [29] C. Sanjay Haribhai and I. Nayna p, "Operation and control of wind power station using facts devices controller." *International Refereed Journal of Engineering and Science (IRJES)*, vol. 1, no. 2, pp. 17–38, 2012.
- [30] NEPLAN, "Exciter models - standard dynamic excitation systems in neplan power system analysis tool," NEPLAN, Küsnacht ZH, Tech. Rep., 2013.
- [31] M. Crenshaw and K. B. et all, "Excitation system models for power system stability studies," *IEEE Transactions on Power Apparatus and System*, vol. Pas-100, no. 2, pp. 494–509, 1981.
- [32] L. Hajagos and M. Basler. (2016) "IEEE Recommended Practice for Excitation System Models for Power System Stability Studies". Online. New York. Available: <http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=1489146>.
- [33] NEPLAN, "Power system stabilizer models - standard dynamic power system stabilizer in neplan power system analysis tool," NEPLAN, Küsnacht ZH, Tech. Rep., 2013.
- [34] J. L. Dominguez-Garcia, O. Gomis-Bellmunt, F. Bianchi, and A. Sumper, "Power system stabilizer control for wind power to enhance power system stability," in *Proceedings of the IEEE International Conference on Power Systems*. Spain: Physcon, 2011.
- [35] DIgSILENT GmbH, *DIgSILENT PowerFactory 2023 Nine-bus System*, DIgSILENT GmbH, Gomaringen, Germany, 2015.
- [36] —, *DIgSILENT PowerFactory 2023 Doubly-Fed Induction Machine*, DIgSILENT GmbH, Gomaringen, Germany, 2023.
- [37] C. Sanjay Haribhai and I. Nayna p, "Parameters setting of power system stabilizer pss2a," *Multidisciplinary Engineering Science Studies (JMESS)*, vol. 05, no. 11, pp. 2914–2916, 2012.