

DAFTAR PUSTAKA

- [1] Tim Koin Kanwil DJKN Lamkulu, “Optimalisasi BMN: Lahan ITERA sebagai PLTS,” <https://www.djkn.kemenkeu.go.id/>, 2021, [Online]. Available: <https://www.djkn.kemenkeu.go.id/Artikel/Baca/14396/OptimalisasiBmnLahan-Itera-Sebagai-Plts.Html>. [Accessed: Jan. 25, 2025].
- [2] ESDM (2021 November 03), “COP Ke-26, Menteri ESDM Sampaikan Komitmen Indonesia Capai Net Zero Emission” [Online]. Available: <https://migas.esdm.go.id/post/read/cop-ke-26-menteri-esdm-sampaikankomitmen-indonesia-capai-net-zero-emission>
- [3] H. Wu, and S. R. West, “Co-optimisation of wind and solar energy and intermittency for renewable generator site selection”, *Heliyon*, vol. 10, no. e26891, pp. 1-11, 2024. <https://doi.org/10.1016/j.heliyon.2024.e26891>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2405844024029220>.
- [4] Suharyati, S. H. Pambudi, J. L. Wibowo, N. I. Pratiwi, *Outlook Energi Indonesia 2019*, Dewan Energi Nasional. Jakarta, Indonesia, 2019.
- [5] D. R. Maulana, R. Irnawan, and M. I. B. Setyonegoro, “*Optimization of Design Cable Routing in Onshore Wind Farms Using K-Means Clustering Considering Restricted Area*,” in *Proc. 2023 International Conference on Technology and Policy in Energy and Electric Power (ICT-PEP)*, 2023, pp. 271- 275. <http://dx.doi.org/10.1109/ICT-PEP60152.2023.10351162>
- [6] M. Fiscetti, and D. Pisinger, “*Optimal wind farm cable routing: modeling branches and offshore transformer modules*”, Technical University of Denmark, DTU Management Engineering, Operations Research, 2018, DOI: 10.1002/net.21804, [Online]. Available: <https://www.researchgate.net/publication/322587459>
- [7] A. Wędzik, M. Szykowski, and T. Siewierski, “*An integrated method to simultaneously optimize a wind farm’s internal network layout, cable crosssections, and substation location*,” *Applied Energy*, vol. 377, no. 124361, p 118, 2025. <https://doi.org/10.1016/j.apenergy.2024.124361>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0306261924017446>
- [8] Hou P, Hu W, Chen Z. *Offshore substation locating in wind farms based on Prim algorithm*. In: 2015 IEEE Power & Energy Society General meeting. Denver, Colorado, USA: IEEE; 2015, p. 1–5. <http://dx.doi.org/10.1109/PESGM.2015.7286206>.

<http://www.scopus.com/inward/record.url?partnerID=HzOxMe3b&scp=84956855297&origin=inward>

- [9] B. C. Neagu and G. Georgescu, "Wind farm cable route optimization using a simple approach," 2014 *International Conference and Exposition on Electrical and Power Engineering (EPE)*, 2014, pp. 1004-1009, doi: 10.1109/ICEPE.2014.6970060.
- [10] J. Li, W. Hu, X. Wu, Q. Huang, Z. Liu, C. Chen, & Z. Chen, "Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography," in *IEEE Systems Journal*, vol. 14, no. 3, p. 3082-3092, Sept. 2020, doi: 10.1109/JSYST.2020.2982843
- [14]. S. Jung and G. Jang, "A Loss Minimization Method on a Reactive Power Supply Process for Wind Farm," in *IEEE Transactions on Power Systems*, vol. 32, no. 4, pp. 3060-3068, July 2017, doi: 10.1109/TPWRS.2016.2621162.
- [15] B. Gustavsen and O. Mo, "Variable Transmission Voltage for Loss Minimization in Long Offshore Wind Farm AC Export Cables," in *IEEE Transactions on Power Delivery*, vol. 32, no. 3, pp. 1422-1431, June 2017, doi: 10.1109/TPWRD.2016.2581879.
- [16] M. Moazzami, R. Hemmati, F.H.Fesharaki and S.R.Rad, "Reliability evaluation for different power plant busbar layouts by using sequential Monte Carlo simulation," *International Journal of Electrical Power & Energy Systems*, vol.53 pages 987-993, 2013, doi: 10.1016/j.ijepes.2013.06.019
- [17] A. A. Mazi, B. F. Wollenberg, and M. H. Hesse, "Corrective Control of Power System Flows by Line and Bus-Bar Switching," in *IEEE Transactions on Power Systems*, vol. 1, no. 3, pp. 258-264, Aug. 1986, doi: 10.1109/TPWRS.1986.4334990.
- [18] C.N. Nwagu, C. O. Ujah, D. V. Kallon, and V. S. Aigbodion. "Integrating Solar and Wind Energy into the Electricity Grid for Improved Power Accessibility." *Unconventional Resources 5*, (2024), pp. 1-24, Accessed February 7, 2025. <https://doi.org/10.1016/j.uncred.2024.100129>. [Online] Available: <https://www.sciencedirect.com/science/article/pii/S2666519024000578>. [Accessed: Feb. 7, 2025]. A
- [19] M. Alanazi, *Solar Power Deployment: Forecasting and Planning*, M.S. thesis, Daniel Felix Ritchie School of Engineering and Computer Science, University of Denver, Denver, CO, Nov. 2014. [Online] Available: <https://digitalcommons.du.edu/etd/8/>.



- [20] C.Y.R Huang, C.Y. Lai, and K.T. Cheng. "CHAPTER 4 - Fundamentals of Algorithms." *Electronic Design Automation*, (2009): 173-234. Accessed February 5, 2025. <https://doi.org/10.1016/B978-0-12-374364-0.50011-4>. [Online] Available: <https://www.sciencedirect.com/science/article/abs/pii/B9780123743640500114>
- [21] K. Kusnadi, W. Gata, dan F. N. Arviantino, "Aplikasi Algoritma Kruskal dan Sollin pada Jaringan Transmisi Nasional Provinsi Sulawesi Selatan," *METIK Jurnal*, vol. 6, no. 1, pp. 8–17, 2022, DOI: [10.47002/metik.v6i1.260](https://doi.org/10.47002/metik.v6i1.260). [Online]. Available: https://www.researchgate.net/publication/363380561_Aplikasi_Algoritma_Kruskal_dan_Sollin_Pada_Jaringan_Transmisi_Nasional_Provinsi_Sulawesi_Selatan
- [22] D. Medhi, and K. Ramasamy. "*Routing Algorithms: Shortest Path, Widest Path, and Spanning Tree.*" *Network Routing (Second Edition)*, (2017): 30-63. Accessed February 5, 2025. <https://doi.org/10.1016/B978-0-12-8007372.00003-X>. <https://www.sciencedirect.com/topics/computer-science/primalgorithm>
- [23] J. Réveillac, Prim Algorithm - an overview: Chapter 7 - Trees, Tours and Transport, Editor(s): Jean-Michel Réveillac, Optimization Tools for Logistics, Elsevier, 2015, Pages 169-208, ISBN 9781785480492, <https://doi.org/10.1016/B978-1-78548-049-2.50007-4>. [Online]. Available: <https://www.sciencedirect.com/topics/computer-science/prim-algorithm>
- [24] M. Venkatasubramanian and K. Tomsovic. "*Power System Analysis.*" *The Electrical Engineering Handbook*, 2004, pp. 761-778, <https://doi.org/10.1016/B978-012170960-0/50056-6>. Accessed 5 Feb. 2025. [Online]. Available: <https://www.sciencedirect.com/topics/engineering/powerflow-study>.
- [25] A. T. Akindadelo, F. A. Shodiya, A. O. Salau, O. J. Olaluyi, J. O. Bandele, and S. L. Braide, "Power Flow Analysis Using Numerical Computational Methods on a Standard IEEE 9-Bus Test System," *Math. Model. Eng. Probl.*, vol. 11, no. 1, pp. 18–26, Jan. 2024, doi: 10.18280/mmep.110102.
- [26] C.J. Chen, C.L. Su, J.H. Teng, and M. Elsis, "Feeder losses analysis of marine vessel power systems: A case study of container ship power loss analysis using Newton–Raphson method," *Energies*, vol. 15, no. 23, p. 9175, 2022, doi: 10.3390/en15239175. [Online]. Available: <https://www.mdpi.com/19961073/15/23/9175#:~:text=The%20Newton%E2%80%93Raphson%20Method%20is%20used%20for%20computation%2C,power%2C%20line%20voltage%20drop%2C%20and%20line%20loss.&text=According%20to%20the%20test%20results%2C%20due%20to,low%20voltage%20feeder%20loss%20is%20relatively%20high>



- [27] O. D. Montoya, A. Molina-Cabrera, and J. C. Hernández, "A Comparative Study on Power Flow Methods Applied to AC Distribution Networks with Single-Phase Representation," *Electronics*, vol. 10, no. 21, p. 2573, 2021, doi: 10.3390/electronics10212573. [Online]. Available: <https://www.mdpi.com/2079-9292/10/21/2573#:~:text=The%20mathematical%20representation%20and%20the,solution%20are%20recommended%20%5B5%5D>.
- [28] K. Sadovskaia, D. Bogdanov, S. Honkapuro, and C. Breyer, "Power transmission and distribution losses – A model based on available empirical data and future trends for all countries globally." *International Journal of Electrical Power & Energy Systems*, Volume 107, May 2019, Pages 98-109, <https://doi.org/10.1016/j.ijepes.2018.11.012>. [Online] Available: <https://www.sciencedirect.com/science/article/abs/pii/S0142061518335075>.
- [29] S. S. S. R. Depuru, L. Wang, and V. Devabhaktuni, "Electricity theft: Overview, issues, prevention and a smart meter based approach to control theft," *Energy Policy*, vol. 39, no. 2, pp. 1007–1015, 2011. [Online]. Available: <https://doi.org/10.1016/j.enpol.2010.11.037>
- [30] N. Amemiya *et al.*, "Lateral critical current density distributions degraded near edges of coated conductors through cutting processes and their influence on AC loss characteristics of power transmission cables," *Physica C: Superconductivity and Its Applications*, vol. 471, no. 21–22, pp. 990–994, 2011. [Online]. Available: <https://doi.org/10.1016/j.physc.2011.05.107>
- [31] A. K. Vishwakarma, A. K. Nema, and S. Sangle, "Study of determinants of proactive environmental strategies in India's power sector," *Journal of Cleaner Production*, vol. 194, pp. 43–53, 2018. [Online]. Available: <https://doi.org/10.1016/j.jclepro.2018.05.135>
- [32] D. Bogdanov and C. Breyer, "North-East Asian Super Grid for 100% renewable energy supply: Optimal mix of energy technologies for electricity, gas, and heat supply options," *Energy Conversion and Management*, vol. 112, pp. 176–190, 2016. [Online]. Available: <https://doi.org/10.1016/j.enconman.2016.01.019>.
- [33] P. Balachennaiah, M. Suryakalavathi, and P. Nagendra, "Firefly algorithm based solution to minimize the real power loss in a power system," *Ain Shams Engineering Journal*, vol. 9, no. 1, pp. 89–100, 2018. [Online]. Available: <https://doi.org/10.1016/j.asej.2015.10.005>.
- [34] Z. Yang, H. Zhong, Q. Xia, and C. Kang, "A novel network model for optimal power flow with reactive power and network losses," *Electric Power Systems Research*, vol. 144, pp. 63–71, 2017. [Online]. Available: <https://doi.org/10.1016/j.epsr.2016.11.009>.



- [35] The University of Cambridge, "*MATLAB and Simulink Campus-Wide License*," University of Cambridge Website. [Online]. Available: <https://help.eng.cam.ac.uk/software/matlab/>. [Accessed: Feb. 6, 2025].
- [36] A. Goeritno and T. Hendrawan, "Perubahan Daya Beban di Setiap Bus Disimulasikan dengan Aplikasi MATLAB untuk Analogi Fenomena Steady State Stability," *Jurnal Ilmiah Setrum*, vol. 8, no. 1, pp. 35-54, Jun. 2019.