

DAFTAR PUSTAKA

- [1] Y. Zheng, Y. Song, A. Huang, and D. J. Hill, “Hierarchical optimal allocation of battery energy storage systems for multiple services in distribution systems,” *IEEE Transactions on Sustainable Energy*, vol. 11, no. 3, pp. 1911–1921, 2020.
- [2] H. Hao, D. Wu, J. Lian, and T. Yang, “Optimal coordination of building loads and energy storage for power grid and end user services,” *IEEE Transactions on Smart Grid*, vol. 9, no. 5, pp. 4335–4345, 2018.
- [3] X. Wang, F. Li, Q. Zhang, Q. Shi, and J. Wang, “Profit-oriented bess siting and sizing in deregulated distribution systems,” *IEEE Transactions on Smart Grid*, vol. 14, no. 2, pp. 1528–1540, 2023.
- [4] F. Nugroho Soelami, E. Leksono, I. Nashirul Haq, J. Pradipta, P. Handre Kertha Utama, A. Fieradiella Pahrevi, F. Rahmaniah, and M. Wasesa, “Energy management modeling for microgrid system in a smart build,” *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, vol. 9, no. 4, pp. 414–422, Dec. 2020. [Online]. Available: <https://jurnal.ugm.ac.id/v3/JNTETI/article/view/488>
- [5] A. Aluko and A. Knight, “A review on vanadium redox flow battery storage systems for large-scale power systems application,” *IEEE Access*, vol. 11, pp. 13 773–13 793, 2023.
- [6] Y. Levron, J. M. Guerrero, and Y. Beck, “Optimal power flow in microgrids with energy storage,” *IEEE Transactions on Power Systems*, vol. 28, no. 3, pp. 3226–3234, 2013.
- [7] A. Inaolaji, X. Wu, R. Roychowdhury, and R. Smith, “Optimal allocation of battery energy storage systems for peak shaving and reliability enhancement in distribution systems,” *Journal of Energy Storage*, vol. 95, p. 112305, 2024. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2352152X24018917>
- [8] C. H. B. Apribowo, S. P. Hadi, F. D. Wijaya, M. I. B. Setyonegoro, and Sarjiya, “Optimal sizing and placement of battery energy storage system for maximum variable renewable energy penetration considering demand response flexibility: A case in lombok power system, indonesia,” *Energy Conversion and Management: X*, vol. 23, p. 100620, 2024. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2590174524000989>
- [9] T. Kerdphol, K. Fuji, Y. Mitani, M. Watanabe, and Y. Qudaih, “Optimization of a battery energy storage system using particle swarm optimization for stand-alone microgrids,” *International Journal of Electrical Power and Energy Systems*, vol. 81, pp. 32–39, 10 2016.
- [10] C. H. B. Apribowo, S. Sarjiya, P. H. Sasongko, and F. D. Wijaya, “Optimal planning of battery energy storage systems by considering battery degradation due to ambient temperature: A review, challenges, and new perspective,” *Batteries*, vol. 8, no. 12, 2022. [Online]. Available: <https://www.mdpi.com/2313-0105/8/12/290>

- [11] D. Saha and S. Ganguly, *Optimal Allocation of Battery Energy Storage Systems in Active Distribution Network*. Anlantic Press, 01 2023, pp. 83–94.
- [12] C. H. B. A. Hermanu, Sarjiya, P. H. Sasongko, and F. D. Wijaya, “Optimal sizing and siting of battery energy storage systems with retired battery,” in *2022 International Conference on Technology and Policy in Energy and Electric Power (ICT-PEP)*, 2022, pp. 327–332.
- [13] Mardlijah, M. Abdillah, S. Prabaningtyas, and Q. A. Fiddina, “Retired electric vehicle battery for optimal dynamic economic dispatch against the intermittent of photovoltaic power output,” *International Journal of Intelligent Engineering and Systems*, vol. 15, pp. 436–446, 2022.
- [14] IEEE Power & Energy Society and Institute of Electrical and Electronics Engineers, *2020 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)*. IEEE, 2020.
- [15] D. Zhang, G. Shafiullah, C. K. Das, and K. W. Wong, “Optimal allocation of battery energy storage systems to enhance system performance and reliability in unbalanced distribution networks,” *Energies*, vol. 16, no. 20, 2023. [Online]. Available: <https://www.mdpi.com/1996-1073/16/20/7127>
- [16] C. H. B. Apribowo, S. Sarjiya, P. H. Sasongko, F. D. Wijaya, and M. I. B. Setyonegoro, “Optimal allocation of vanadium redox flow battery storage systems with integrated variable renewable energy,” in *Proceedings of the 2023 15th International Conference on Information Technology and Electrical Engineering (ICITEE)*, 10 2023, pp. 375–380.
- [17] P. Prabpal, Y. Kongjeen, and K. Bhumkittipich, “Optimal battery energy storage system based on var control strategies using particle swarm optimization for power distribution system,” *Symmetry*, 2021.
- [18] H. C. Hesse, M. Schimpe, D. Kucevic, and A. Jossen, “Lithium-ion battery storage for the grid - a review of stationary battery storage system design tailored for applications in modern power grids,” 12 2017.
- [19] H. Saboori, S. Dehghan, and S. Jadid, “Dcopf-based Imp calculation considering line reactive flows,” in *2010 18th Iranian Conference on Electrical Engineering*, 2010, pp. 913–918.
- [20] A. R. Al-Roomi, “Power flow test systems repository,” Halifax, Nova Scotia, Canada, 2015. [Online]. Available: <https://al-roomi.org/power-flow>
- [21] R. J. C. Hemparuva, S. P. Simon, S. Kinattungal, and S. R. N. Panugothu, “Gravitational search algorithm-based dynamic economic dispatch by estimating transmission system losses using a-loss coefficients,” *Turkish Journal of Electrical Engineering and Computer Sciences*, vol. 24, pp. 3769–3781, 2016.
- [22] A. Soroudi, *Power system optimization modeling in GAMS*. Springer International Publishing, 9 2017.
- [23] ANONIM, *Market Series Report: Renewables 2017*. IEA Annual Report, 2017. [Online]. Available: www.iea.org/publications/renewables2017



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[24] J. F. Weaver, "Utility-scale solar declines in costs, pricing value," *PV Magazine USA*, September 2021. [Online]. Available: <https://pv-magazine-usa.com/2021/09/29/utility-scale-solar-declines-in-costs-pricing-value/>

[25] V. Yadav and S. Ghoshal, "Optimal power flow for ieee 30 and 118-bus systems using monarch butterfly optimization," 03 2018.