

DAFTAR PUSTAKA

- [1] D. Septyani dan S. Hartati, “Konsumsi Energi Fosil terhadap Pertumbuhan Ekonomi,” *COSTING: Journal of Economic, Business and Accounting*, vol. 7, no. 5, 2024.
- [2] T. Erdyas Bimanatya dan T. Widodo, “International Journal of Energy Economics and Policy Fossil Fuels Consumption, Carbon Emissions, and Economic Growth in Indonesia,” *International Journal of Energy Economics and Policy* |, vol. 8, no. 4, hlm. 90–97, 2018, [Daring]. Tersedia pada: <http://www.econjournals.com>
- [3] International Energy Agency, “Global Energy Review 2025.” Diakses: 20 April 2025. [Daring]. Tersedia pada: <https://www.iea.org/reports/global-energy-review-2025>
- [4] M. Filonchyk dkk., “Greenhouse gas emissions and reduction strategies for the world’s largest greenhouse gas emitters,” *Science of The Total Environment*, vol. 944, hlm. 173895, 2024, doi: <https://doi.org/10.1016/j.scitotenv.2024.173895>.
- [5] International Energy Agency, “Net Zero Roadmap: A Global Pathway to Keep the 1.5 °C Goal in Reach - 2023 Update,” 2023.
- [6] “Indonesia Long-Term Strategy for Low Carbon and Climate Resilience 2050 (Indonesia LTS-LCCR 2050),” 2021.
- [7] Kementerian Energi dan Sumber Daya Mineral, “Laporan Kinerja Kementerian Energi dan Sumber Daya Mineral,” 2024.
- [8] B. Johansson, “Security aspects of future renewable energy systems—A short overview,” *Energy*, vol. 61, hlm. 598–605, 2013, doi: <https://doi.org/10.1016/j.energy.2013.09.023>.
- [9] R. Ajie Aprilianto dan R. M. Ariefianto, “Peluang Dan Tantangan Menuju Net Zero Emission (NZE) Menggunakan Variable Renewable Energy (VRE) Pada Sistem Ketenagalistrikan Di Indonesia,” 2021.
- [10] J. P. Ramião, C. Carvalho-Santos, R. Pinto, dan C. Pascoal, “Hydropower Contribution to the Renewable Energy Transition Under Climate Change,” *Water Resources Management*, vol. 37, no. 1, hlm. 175–191, 2023, doi: [10.1007/s11269-022-03361-4](https://doi.org/10.1007/s11269-022-03361-4).
- [11] S. K. Sanyal, “Sustainability and Renewability of Geothermal Power Capacity,” dalam *Power Stations Using Locally Available Energy Sources: A Volume in the Encyclopedia of Sustainability Science and Technology Series, Second Edition*, L. Y. Bronicki, Ed., New York, NY: Springer New York, 2018, hlm. 47–60. doi: [10.1007/978-1-4939-7510-5_229](https://doi.org/10.1007/978-1-4939-7510-5_229).

- [12] M. K. Chang, J. D. Eichman, F. Mueller, dan S. Samuelsen, "Buffering intermittent renewable power with hydroelectric generation: A case study in California," *Appl Energy*, vol. 112, hlm. 1–11, 2013, doi: <https://doi.org/10.1016/j.apenergy.2013.04.092>.
- [13] M. Z. Jacobson, "The cost of grid stability with 100 % clean, renewable energy for all purposes when countries are isolated versus interconnected," *Renew Energy*, vol. 179, hlm. 1065–1075, 2021, doi: <https://doi.org/10.1016/j.renene.2021.07.115>.
- [14] K. Sadovskaia, D. Bogdanov, S. Honkapuro, dan 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*, vol. 107, hlm. 98–109, 2019, doi: <https://doi.org/10.1016/j.ijepes.2018.11.012>.
- [15] C. N. Nwagu, C. O. Ujah, D. V. V Kallon, dan V. S. Aigbodion, "Integrating solar and wind energy into the electricity grid for improved power accessibility," *Unconventional Resources*, vol. 5, hlm. 100129, 2025, doi: <https://doi.org/10.1016/j.uncres.2024.100129>.
- [16] G. Notton dkk., "Intermittent and stochastic character of renewable energy sources: Consequences, cost of intermittence and benefit of forecasting," *Renewable and Sustainable Energy Reviews*, vol. 87, hlm. 96–105, 2018, doi: <https://doi.org/10.1016/j.rser.2018.02.007>.
- [17] X. Liu, "Proposing an innovative model for solar irradiance and wind speed forecasting," *Appl Therm Eng*, vol. 262, hlm. 125224, 2025, doi: <https://doi.org/10.1016/j.applthermaleng.2024.125224>.
- [18] H. Tang, R. Li, T. Song, dan S. Ju, "Short-term optimal scheduling and comprehensive assessment of hydro-photovoltaic-wind systems augmented with hybrid pumped storage hydropower plants and diversified energy storage configurations," *Appl Energy*, vol. 389, hlm. 125787, 2025, doi: <https://doi.org/10.1016/j.apenergy.2025.125787>.
- [19] L. Gan, Q. Xiong, X. Chen, Z. Lin, dan W. Jiang, "Optimal dispatch schedule for the coordinated hydro-wind-photovoltaic system with non-priority output utilizing combined meta-heuristic," *Omega (Westport)*, vol. 131, hlm. 103198, 2025, doi: <https://doi.org/10.1016/j.omega.2024.103198>.
- [20] U. Sultana, A. B. Khairuddin, M. M. Aman, A. S. Mokhtar, dan N. Zareen, "A review of optimum DG placement based on minimization of power losses and voltage stability enhancement of distribution system," *Renewable and Sustainable Energy Reviews*, vol. 63, hlm. 363–378, 2016, doi: <https://doi.org/10.1016/j.rser.2016.05.056>.
- [21] D. Song dkk., "Accurate solar power prediction with advanced hybrid deep learning approach," *Eng Appl Artif Intell*, vol. 148, hlm. 110367, 2025, doi: <https://doi.org/10.1016/j.engappai.2025.110367>.

- [22] S. M. Malakouti, "Estimating the output power and wind speed with ML methods: A case study in Texas," *Case Studies in Chemical and Environmental Engineering*, vol. 7, hlm. 100324, 2023, doi: <https://doi.org/10.1016/j.cscee.2023.100324>.
- [23] K. K. Kelvin, Muhammad Erik Raditya, Ardika Chandra Winata, Salman Alfarissi, dan K. Khairulduha, "Alam sebagai Sumber Energi Terbarukan," *Jurnal Teknik dan Science*, vol. 3, no. 2, hlm. 134–136, Mei 2024, doi: 10.56127/jts.v3i2.1525.
- [24] K. Wahyudi, K. Makai, dan Y. Sukmono, "Implementasi Stasiun Pengisian Kendaraan Listrik Umum (SPKLU) Sebagai Infrastruktur Penunjang Electrical Vehicle dalam Mendukung Net Zero Emission," vol. 2, no. 2, 2024.
- [25] N. Soedjarwanto, K. E. Kines, dan S. A. Aulia, "Analisis Susut Daya (Losses) pada Penyulang Rayap PT PLN (Persero) UID Lampung Berbasis Aplikasi ETAP 19.0.1," *Jurnal Informatika dan Teknik Elektro Terapan*, vol. 12, no. 2, Apr 2024, doi: 10.23960/jitet.v12i2.4072.
- [26] I. Iddrisu dan S. C. Bhattacharyya, "Sustainable Energy Development Index: A multi-dimensional indicator for measuring sustainable energy development," *Renewable and Sustainable Energy Reviews*, vol. 50, hlm. 513–530, 2015, doi: <https://doi.org/10.1016/j.rser.2015.05.032>.
- [27] W. Hidayat, *Prinsip Kerja dan Komponen - Komponen Pembangkit Listrik Tenaga Air (PLTA)*. 2019. doi: 10.31227/osf.io/drv58.
- [28] E. Kumolosari, B. Jalaali, K. Suryopratomo, dan O. Dinaryanto, "The Alternative Binary Geothermal Power-Plant Design to Utilize the Waste Heat in Lahendong Plant," *Angkasa: Jurnal Ilmiah Bidang Teknologi*, vol. 12, no. 2, Okt 2020, doi: 10.28989/angkasa.v12i2.726.
- [29] I. P. Riasa, R. S. Hartati, I. B. G. Manuaba, dan D. A. S. Santiari, "Pengaruh PLTB Sidrap Terhadap Sistem Kelistrikan Sulawesi Selatan," *Majalah Ilmiah Teknologi Elektro*, vol. 19, no. 1, hlm. 27, Okt 2020, doi: 10.24843/mite.2020.v19i01.p04.
- [30] N. Sartika, A. N. R. Fajri, dan L. Kamelia, "Perancangan dan Simulasi Sistem Pembangkit Listrik Tenaga Surya (PLTS) Atap pada Masjid Jami' Al-Muhajirin Bekasi," *Transmisi: Jurnal Ilmiah Teknik Elektro*, vol. 25, no. 1, hlm. 1–9, Feb 2023, doi: 10.14710/transmisi.25.1.1-9.
- [31] A. I. Saputra dan W. Priharti, "Perancangan Single Axis Solar Tracker Menggunakan Fuzzy Logic Berbasis Arduino Guna Mengoptimalkan Output Daya Pada Panel Surya."
- [32] B. R. Julian, Muliadi, dan Syukri, "Analisis Pengaruh Radiasi Matahari dan Temperatur terhadap Daya Keluaran Fotovoltaik Menggunakan SPSS," *AJEETECH: Aceh Journal of Electrical Engineering and Technology*, vol. 3, no. 1, Jun 2023.

- [33] F. K. Alhousni, F. B. I. Alnaimi, P. C. Okonkwo, I. Ben Belgacem, H. Mohamed, dan E. M. Barhoumi, "Photovoltaic Power Prediction Using Analytical Models and Homer-Pro: Investigation of Results Reliability," *Sustainability (Switzerland)*, vol. 15, no. 11, Jun 2023, doi: 10.3390/su15118904.
- [34] M. Faisal Pratama, I. M. Nrratha, dan I. A. Adnyani, "Analisis Potensi Energi Angin sebagai Sumber Pembangkit Listrik Tenaga Bayu di Tambak Ikan Desa Jambu Kecamatan Pajo Kabupaten Dompu."
- [35] A. Al-Quraan, H. Al-Masri, M. Al-Mahmodi, dan A. Radaideh, "Power curve modelling of wind turbines- A comparison study," *IET Renewable Power Generation*, vol. 16, no. 2, hlm. 362–374, Feb 2022, doi: 10.1049/rpg2.12329.
- [36] A. Sedayu, E. Yuniarti, dan E. Sanjaya, "Rancang Bangun Home Automation Berbasis Raspberry Pi 3 Model B Dengan Interface Aplikasi Media Sosial Telegram sebagai Sistem Kendali," vol. I, no. 2, 2018.
- [37] P. Megantoro *dkk.*, "Analysis of instrumentation system for photovoltaic pyranometer used to measure solar irradiation level," *Bulletin of Electrical Engineering and Informatics*, vol. 11, no. 6, hlm. 3239–3248, Des 2022, doi: 10.11591/eei.v11i6.4390.
- [38] J. W. Manalu dan P. Gunoto, "Perancangan Sistem Monitoring Kecepatan Angin dan Temperature Udara Berbasis Internet of Things (IoT)," *Sigma Teknika*, vol. 6, no. 1, hlm. 86–096, 2023.
- [39] A. Kencana Putri dan D. Ichsanuddin Nur, "Penggunaan Bahasa Python untuk Analisis dan Visualisasi Data Penduduk di Desa Sumberjo, Nganjuk," 2023. [Daring]. Tersedia pada: https://jurnalkip.samawa-university.ac.id/karya_jpm/index
- [40] M. R. Fathin, Y. Widhiyasana, dan N. Syakrani, "Model for Predicting Electrical Energy Consumption Using ARIMA Method," 2021.
- [41] H. B. Tambunan *dkk.*, "Review Proses Perencanaan Jangka Panjang Sistem Tenaga Listrik," *EPIC Journal of Electrical Power Instrumentation and Control*, vol. 4, no. 1, hlm. 30, Jun 2021, doi: 10.32493/epic.v4i1.10879.
- [42] C. author Karel Octavianus Bachri, A. D. Soewono, D. Kelvin, K. Octavianus Bachri, dan H. Artikel, "Perbaikan Kurva Beban Harian pada Industri Kecil: Studi Kasus PT. X," 2024.
- [43] W. F. Galla, F. J. Likadja, dan M. Nono, "Penentuan Jumlah Unit dan Kapasitas Pembangkit Sesuai Pola Beban pada PLTD Faobata Di Kabupaten Ngada," *Jurnal Media Elektro* |, no. 2.
- [44] M. Afwan Mohamad, Z. Adi Putra, M. Roil Bilad, N. Abdul Hadi Md Nordin, dan M. Dzul Hakim Wirzal, "An Excel Based Tool Development for Scheduling Optimization," 2021. [Daring]. Tersedia pada: <https://ejournal.upi.edu/index.php/AJSEE/>

- [45] E. H. Harun, M. T. Adam, dan J. Ilham, “Perbaikan Kualitas Tegangan Distribusi 20 kV di Gardu Hubung Lemito Melalui Studi Aliran Daya,” *JJEEE : Jambura Journal of Electrical and Electronics Engineering*, vol. 4, no. 2, Jul 2022.
- [46] A. Zulhakim dan Y. S. Handayani, “Pengaruh Sistem Eksitasi terhadap Generator Sinkron Tiga Fasa di Unit 1 PT. PLN Indonesia Power ULPL TA Musi,” *TEKNOSIA*, vol. 17, no. 1, hlm. 1–12, [Daring]. Tersedia pada: <https://ejournal.unib.ac.id/index.php/teknosia>
- [47] Nilhusna, R. Rauf, dan Budiman, “Analisa Susut Tegangan dan Rugi-Rugi Daya Pada SUTM 20 kV Pada Unit PT. PLN (Persero) ULP Lubuk Sikaping Pasaman Sumatera Barat,” *Jurnal Mesil*, vol. 5, no. 2, hlm. 117–128, 2024, doi: 10.53695/jm.v5i2.1129.

