

DAFTAR PUSTAKA

- [1] W. Tong, Z. Lu, J. Sun, G. Zhao, M. Han, and J. Xu, “Solid gravity energy storage technology: Classification and comparison,” *Energy Reports*, vol. 8, pp. 926–934, Nov. 2022, doi: 10.1016/j.egyr.2022.10.286.
- [2] T. G. Walmsley *et al.*, “Hybrid renewable energy utility systems for industrial sites: A review,” *Renew. Sustain. Energy Rev.*, vol. 188, p. 113802, Dec. 2023, doi: 10.1016/j.rser.2023.113802.
- [3] kementerian energi dan sumber daya mineral, “Miliki Potensi EBT 3.686 GW, Sekjen Rida: Modal Utama Jalankan Transisi Energi Indonesia.” [Online]. Available: <https://www.esdm.go.id/id/media-center/arsip-berita/miliki-potensi-ebt-3686-gw-sekjen-rida-modal-utama-jalankan-transisi-energi-indonesia>
- [4] Gusti.grehenson, “Pasokan Listrik RI Melimpah, Sistem Penyimpan Energi Perlu Dikembangkan.” [Online]. Available: <https://ugm.ac.id/id/berita/pasokan-listrik-ri-melimpah-sistem-penyimpan-energi-perlu-dikembangkan/>
- [5] Y. Zou, Z. Lin, D. Li, and Z. Liu, “Advancements in Artificial Neural Networks for health management of energy storage lithium-ion batteries: A comprehensive review,” *J. Energy Storage*, vol. 73, p. 109069, Dec. 2023, doi: 10.1016/j.est.2023.109069.
- [6] N. Khan, C. A. Ooi, A. Alturki, M. Amir, Shreasth, and T. Alharbi, “A critical review of battery cell balancing techniques, optimal design, converter topologies, and performance evaluation for optimizing storage system in electric vehicles,” *Energy Reports*, vol. 11, pp. 4999–5032, Jun. 2024, doi: 10.1016/j.egyr.2024.04.041.
- [7] J. Görtz, M. Aouad, S. Wieprecht, and K. Terheiden, “Assessment of pumped hydropower energy storage potential along rivers and shorelines,” *Renew. Sustain. Energy Rev.*, vol. 165, p. 112027, Sep. 2022, doi:

- 10.1016/j.rser.2021.112027.
- [8] A. G. Olabi, T. Wilberforce, M. Ramadan, M. A. Abdelkareem, and A. H. Alami, “Compressed air energy storage systems: Components and operating parameters – A review,” *J. Energy Storage*, vol. 34, p. 102000, Feb. 2021, doi: 10.1016/j.est.2020.102000.
 - [9] J. Wang, M. Yang, and K. Lu, “Ventilation condition effects on heat dissipation of the lithium-ion battery energy storage cabin fire,” *Case Stud. Therm. Eng.*, vol. 63, p. 105373, Nov. 2024, doi: 10.1016/j.csite.2024.105373.
 - [10] A. Morabito, “Underground Cavities in Pumped Hydro Energy Storage and Other Alternate Solutions,” in *Encyclopedia of Energy Storage*, Elsevier, 2022, pp. 193–204. doi: 10.1016/B978-0-12-819723-3.00145-1.
 - [11] C.-Y. Hsu *et al.*, “Rechargeable batteries for energy storage: A review,” *e-Prime - Adv. Electr. Eng. Electron. Energy*, vol. 8, p. 100510, Jun. 2024, doi: 10.1016/j.prime.2024.100510.
 - [12] M. Raggio and M. L. Ferrari, “Compressed air energy storage with T100 microturbines: Dynamic analysis and operational constraints,” *J. Energy Storage*, vol. 73, p. 109093, Dec. 2023, doi: 10.1016/j.est.2023.109093.
 - [13] S. Ma, X. Wang, M. Negnevitsky, and E. Franklin, “Performance investigation of a wave-driven compressed air energy storage system,” *J. Energy Storage*, vol. 73, no. PC, p. 109126, 2023, doi: 10.1016/j.est.2023.109126.
 - [14] L. Migliari, D. Micheletto, and D. Cocco, “A hydrogen-fuelled compressed air energy storage system for flexibility reinforcement and variable renewable energy integration in grids with high generation curtailment,” *Energy Convers. Manag.*, vol. 306, p. 118308, Apr. 2024, doi: 10.1016/j.enconman.2024.118308.
 - [15] Ł. Bartela, “A hybrid energy storage system using compressed air and

- hydrogen as the energy carrier,” vol. 196, 2020, doi: 10.1016/j.energy.2020.117088.
- [16] A. Sekeroglu and D. Erol, “Site selection modeling of hybrid renewable energy facilities using suitability index in spatial planning,” *Renew. Energy*, vol. 219, p. 119458, Dec. 2023, doi: 10.1016/j.renene.2023.119458.
 - [17] D. Mahroni. Supriyatna, “Energi Baru Terbarukan dalam Pembangunan yang Berkelanjutan dan Pemanfaatan Energi Terbarukan,” *Kohesi J. Multidisiplin Saintek*, vol. 2, no. 11, pp. 66–76, 2024.
 - [18] M. R. F. Failaq and I. A. P. Nusantara, “Irisan Penguanan Negara dan Desentralisasi dalam Prospek Pengaturan Energi Terbarukan di Indonesia,” *J. Konstitusi*, vol. 21, no. 1, pp. 118–135, Mar. 2024, doi: 10.31078/jk2117.
 - [19] G. Widayana, “PEMANFAATAN ENERGI SURYA,” *J. Pendidik. Teknol. dan Kejurut.*, vol. 9, 2012, doi: 10.23887/jptk-undiksha.v9i1.2876.
 - [20] A. Al-Ezzi and M. N. M. Ansari, “Photovoltaic Solar Cells: A Review,” *Appl. Syst. Innov.*, 2022, [Online]. Available: <https://api.semanticscholar.org/CorpusID:250394094>
 - [21] T. A. Kurniawan, S. Sundari, Y. Kuntjoro, P. Dinanti, and L. Sianipar, “Pemanfaatan Panel Surya untuk Usaha Indekos guna Menambah Nilai Ekonomi yang Ramah Lingkungan,” *El-Mal J. Kaji. Ekon. Bisnis Islam*, vol. 5, no. 4, pp. 2125–2132, 2024, doi: 10.47467/elmal.v5i4.913.
 - [22] R. K. Dewi, P. Studi, P. Fisika, U. Jember, P. Surya, and S. E. Terbarukan, “ANALISIS PEMANFAATAN RADIASI MATAHARI PADA PANEL ANALYSIS OF THE UTILIZATION OF SOLAR RADIATION IN SOLAR PANELS AS A SOURCE OF RENEWABLE ENERGI,” vol. 6, no. 2, 2024, doi: 10.31605/phy.v6i2.3266.
 - [23] N. Khusnawati, R. Wibowo, and M. Kabib, “Analisa Turbin Angin Sumbu Horizontal Tiga Sudu,” *J. Crankshaft*, vol. 5, no. 2, pp. 35–42, 2022, doi: 10.24176/crankshaft.v5i2.7683.

- [24] R. Nurhasanah, “Rancang Bangun Turbin Angin Untuk Pembangkit Listrik Hybrid One Pole Energy,” *J. Powerpl.*, vol. 8, no. 2, pp. 82–89, 2020, doi: 10.33322/powerplant.v8i2.1125.
- [25] Z. Afidah, Y. Yushardi, and S. Sudarti, “Analisis Potensi Pembangkit Listrik Tenaga Bayu dengan Turbin Angin Sumbu Vertikal di Kecamatan Sangkapura Kabupaten Gresik,” *J. Engine Energi, Manufaktur, dan Mater.*, vol. 7, no. 1, p. 08, 2023, doi: 10.30588/jeemm.v7i1.1325.
- [26] H. H. T. Lukas, Daniel Rohi, “Studi Kinerja Pembangkit Listrik Tenaga Air (PLTA) di Daerah Aliran Sungai (DAS) Brantas,” *J. Tek. Elektro*, vol. 10, no. 1, pp. 17–23, 2017, doi: 10.9744/jte.10.1.17-23.
- [27] A. D. Pangestu and K. Nurwijayanti, “Pembangkit Listrik Tenaga Air dengan Teknik Turbulent Whirlpool,” *J. Ikraith-Teknologi*, vol. 5, no. 3, pp. 58–65, 2021.
- [28] M. Nasution, “Karakteristik Baterai Sebagai Penyimpan Energi Listrik Secara Spesifik,” *Cetak) J. Electr. Technol.*, vol. 6, no. 1, pp. 35–40, 2021.
- [29] L. L. Gaines and J. B. Dunn, “Lithium-Ion Battery Environmental Impacts,” in *Lithium-Ion Batteries*, Elsevier, 2014, pp. 483–508. doi: 10.1016/B978-0-444-59513-3.00021-2.
- [30] M. A. Hannan, M. Faisal, P. Jern Ker, R. A. Begum, Z. Y. Dong, and C. Zhang, “Review of optimal methods and algorithms for sizing energy storage systems to achieve decarbonization in microgrid applications,” *Renew. Sustain. Energy Rev.*, vol. 131, p. 110022, Oct. 2020, doi: 10.1016/j.rser.2020.110022.
- [31] J. Wang, B. Lin, P. Wang, L.-Q. Tao, Y. Zhang, and S. Li, “Adsorption behavior of CuO doped GeS monolayer on the thermal runaway gas evolution in lithium battery energy storage systems,” *J. Environ. Chem. Eng.*, vol. 12, no. 3, p. 112550, Jun. 2024, doi: 10.1016/j.jece.2024.112550.
- [32] S. C. Chen, C. C. Wan, and Y. Y. Wang, “Thermal analysis of lithium-ion

- batteries,” *J. Power Sources*, vol. 140, no. 1, pp. 111–124, Jan. 2005, doi: 10.1016/j.jpowsour.2004.05.064.
- [33] O. Folorunso, P. O. Olukanmi, and T. Shongwe, “Progress towards sustainable energy storage: A concise review,” *Eng. Reports*, vol. 5, no. 11, pp. 1–26, 2023, doi: 10.1002/eng2.12731.
- [34] M. Stocks, R. Stocks, B. Lu, C. Cheng, and A. Blakers, “Global Atlas of Closed-Loop Pumped Hydro Energy Storage,” *Joule*, vol. 5, no. 1, pp. 270–284, Jan. 2021, doi: 10.1016/j.joule.2020.11.015.
- [35] T. Yang *et al.*, “Identifying the functional form and operation rules of energy storage pump for a hydro-wind-photovoltaic hybrid power system,” *Energy Convers. Manag.*, vol. 296, p. 117700, Nov. 2023, doi: 10.1016/j.enconman.2023.117700.
- [36] K. Akpoti *et al.*, “Technological advances in prospecting sites for pumped hydro energy storage,” in *Pumped Hydro Energy Storage for Hybrid Systems*, Elsevier, 2023, pp. 105–118. doi: 10.1016/B978-0-12-818853-8.00009-1.
- [37] P. C. Nikolaos, F. Marios, and K. Dimitris, “A Review of Pumped Hydro Storage Systems,” *Energies*, vol. 16, no. 11, p. 4516, Jun. 2023, doi: 10.3390/en16114516.
- [38] S. Qin, C. Xia, S. Zhou, Y. Xu, C. Xu, and X. Li, “Airtightness of a flexible sealed compressed air storage energy (CAES) tunnel considering the permeation accumulation of high-pressure air,” *J. Energy Storage*, vol. 84, p. 110835, Apr. 2024, doi: 10.1016/j.est.2024.110835.
- [39] Y. Ma, Q. Rao, D. Huang, P. Li, W. Yi, and D. Sun, “A new theoretical model of thermo-gas-mechanical (TGM) coupling field for underground multi-layered cavern of compressed air energy storage,” *Energy*, vol. 257, p. 124646, Oct. 2022, doi: 10.1016/j.energy.2022.124646.
- [40] S. Sarmast, K. Rouindej, R. A. Fraser, and M. B. Dusseault, “Optimizing

- near-adiabatic compressed air energy storage (NA-CAES) systems: Sizing and design considerations," *Appl. Energy*, vol. 357, p. 122465, Mar. 2024, doi: 10.1016/j.apenergy.2023.122465.
- [41] X. Liu, J. Yang, C. Yang, Z. Zhang, and W. Chen, "Numerical simulation on cavern support of compressed air energy storage(CAES)considering thermo-mechanical coupling effect," *Energy*, vol. 282, p. 128916, Nov. 2023, doi: 10.1016/j.energy.2023.128916.
 - [42] A. Berrada, K. Loudiyi, and I. Zorkani, "Toward an Improvement of Gravity Energy Storage Using Compressed Air," *Energy Procedia*, vol. 134, 2017, doi: 10.1016/j.egypro.2017.09.542.
 - [43] A. Berrada, K. Loudiyi, and I. Zorkani, "Toward an Improvement of Gravity Energy Storage Using Compressed Air," *Energy Procedia*, vol. 134, pp. 855–864, Oct. 2017, doi: 10.1016/j.egypro.2017.09.542.
 - [44] I. Anshory, Jamaaluddin, and A. Wisaksono, *Bab Iv Prinsip-Prinsip Konversi Energi*, Pertama. Sidoarjo: UMSIDA Press, 2022.
 - [45] W. Sunarlik, "Prinsip Kerja Generator," *J. Pendidik. Tek. Mesin*, p. 6, 2017.
 - [46] A. Mahmudi, "Buku Bahan Pompa dan Kompresor," p. 1, 2012.
 - [47] M. Mafruddin and D. Irawan, "Pembuatan Turbin Mikrohidro Tipe Cross-Flow Sebagai Pembangkit Listrik Di Desa Bumi Nabung Timur," *Turbo J. Progr. Stud. Tek. Mesin*, vol. 3, no. 2, pp. 7–12, 2014, doi: 10.24127/trb.v3i2.12.
 - [48] A. Wijaya Sitepu, J. B. Sinaga, and dan Agus Sugiri, "Kajian Experimental Pengaruh Bentuk Sudu Terhadap Unjuk Kerja Turbin Helik Untuk Sistem Pembangkit Listrik Tenaga Mikrohidro (PLTMH)," *Prof.Sumantri Brojonegoro*, vol. 2, no. 2, p. 704947, 2014.
 - [49] R. P. Putra, H. S. Dini, and S. Purwanto, "Analisa Rugi-Rugi Pelepasan Energi Sistem Penyimpanan Energi Potensial Gravitasi Jenis Menara

Beban,” *Stt-Pln.E-Journal.Id*, vol. 9, no. 2, pp. 225–233, 2020, [Online]. Available: <https://stt-pln.e-journal.id/kilat/article/view/1082>

- [50] H. T. Paradongan *et al.*, “Techno-economic feasibility study of solar photovoltaic power plant using RETScreen to achieve Indonesia energy transition,” *Heliyon*, vol. 10, no. 7, p. e27680, Apr. 2024, doi: 10.1016/j.heliyon.2024.e27680.

