

## DAFTAR PUSTAKA

- [1] Kementerian Energi dan Sumber Daya Mineral, *Laporan Kinerja Kementerian Energi dan Sumber Daya Mineral 2022*. Jakarta: Kementerian Energi dan Sumber Daya Mineral, 2023.
- [2] Presiden Republik Indonesia, “Peraturan Pemerintah Tentang Kebijakan Energi Nasional.” Sekretariat Negara Republik Indonesia, 2014.
- [3] Direktorat Jenderal Energi Baru, Terbarukan, dan Konservasi Energi, *Laporan Kinerja Ditjen EBTKE 2022*. Jakarta: Kementerian Energi dan Sumber Daya Mineral, 2023.
- [4] D. Christian, “Menteri ESDM: Program Dedieselisasi PLN Kunci RI Capai Net Zero Emission pada 2060,” PT PLN (Persero). Accessed: Jul. 25, 2024. [Online]. Available: <https://web.pln.co.id/cms/media/2022/03/menteri-esdm-program-dedieselisasi-pln-kunci-ri-capai-net-zero-emission-pada-2060/>
- [5] Sekretariat Direktorat Jenderal Ketenagalistrikan, *Statistik Ketenagalistrikan Tahun 2022*. Jakarta: Sekretariat Direktorat Jenderal Ketenagalistrikan, 2023.
- [6] Direktorat Jenderal Energi Baru, Terbarukan Dan Konservasi Energi, *Statistik EBTKE 2016*. Jakarta: Direktorat Jenderal Energi Baru, Terbarukan Dan Konservasi Energi, 2016.
- [7] D. Zhou and Z. (Daniel) Deng, “Ultra-low-head hydroelectric technology: A review,” *Renew. Sustain. Energy Rev.*, vol. 78, pp. 23–30, Oct. 2017, doi: 10.1016/j.rser.2017.04.086.
- [8] A. D. Gontani, D. Rohi, and J. S. Setiadji, “Perencanaan dan Pembangunan Pembangkit Listrik Tenaga Mikrohidro serta Instalasinya untuk Penerangan Kawasan Hutan Wisata di Desa Benu Kecamatan Takari Kabupaten Kupang,” *J. Tek. Elektro*, vol. 12, no. 2, pp. 52–56, 2019, doi: 10.9744/jte.12.2.52-56.
- [9] F. Dulhadh, “Purwarupa Pembangkit Listrik Tenaga Mikrohidro Dengan Turbin Air Kaplan Untuk Pemanfaatan Penerangan Jalan Desa,” Universitas



Gadjah Mada, 2020. Accessed: Jun. 08, 2024. [Online]. Available: <https://etd.repository.ugm.ac.id/penelitian/detail/193439>

[10] I. Imawati, M. Febiansyah, E. K. G. Novtrianda, and H. Mubarak, "Portable Pico-hydro Power Plant with Archimedes Screw Turbine in Pelangi Reservoir of Universitas Islam Indonesia," *ELKHA J. Tek. Elektro*, vol. 14, no. 2, pp. 132–138, Oct. 2022, doi: 10.26418/elkha.v14i2.57770.

[11] R. Banerjee, "Importance of Hydro Power," in *IJIREEICE*, Jan. 2016, pp. 30–33. doi: 10.17148/IJIREEICE.2016.4108.

[12] I. A. B. Prakoso, "Pengenalan Komponen Fluida, Mekanik, dan Elektrikal Sistem PLTA," *Kuliah Teknol. Air*.

[13] D. Huertas-Hernando *et al.*, "Hydro power flexibility for power systems with variable renewable energy sources: an IEA Task 25 collaboration," *WIREs Energy Environ.*, vol. 6, no. 1, p. e220, Jan. 2017, doi: 10.1002/wene.220.

[14] D. Egré and J. C. Milewski, "The diversity of hydropower projects," *Energy Policy*, vol. 30, no. 14, pp. 1225–1230, Nov. 2002, doi: 10.1016/S0301-4215(02)00083-6.

[15] O. Paish, "Small hydro power: technology and current status," *Renew. Sustain. Energy Rev.*, vol. 6, no. 6, pp. 537–556, Dec. 2002, doi: 10.1016/S1364-0321(02)00006-0.

[16] T. Wilberforce, E. T. Sayed, M. A. Abdelkareem, M. Mahmoud, and A. G. Olabi, "Chapter 4.1 - Introduction and definition of hydro energy," in *Renewable Energy - Volume 1 : Solar, Wind, and Hydropower*, A. G. Olabi, Ed., Academic Press, 2023, pp. 407–425. doi: 10.1016/B978-0-323-99568-9.00008-X.

[17] P. Maher, N. P. A. Smith, and A. A. Williams, "Pico hydro power for rural electrification in developing countries," *Int. J. Ambient Energy*, vol. 19, no. 3, pp. 143–148, Jul. 1998, doi: 10.1080/01430750.1998.9675701.

[18] M. N. Hidayat, F. Ronilaya, I. H. Eryk, and G. Joelianto, "Design and analysis of a portable spiral vortex hydro turbine for a Pico Hydro Power Plant,"



*IOP Conf. Ser. Mater. Sci. Eng.*, vol. 732, no. 1, p. 012051, Jan. 2020, doi: 10.1088/1757-899X/732/1/012051.

[19] A. A. Williams and R. Simpson, "Pico hydro – Reducing technical risks for rural electrification," *Renew. Energy*, vol. 34, no. 8, pp. 1986–1991, Aug. 2009, doi: 10.1016/j.renene.2008.12.011.

[20] H. Haripuddin, A. Zauqi, M. Y. Mappedasse, and M. Massikki, "THE DEVELOPMENT OF PICO HYDRO POWER PLANT BY UTILIZING IRRIGATION FLOW IN KASAMBANG VILLAGE OF MAMUJU REGENCY," *J. Media Elektr.*, vol. 21, no. 1, Art. no. 1, Dec. 2023, doi: 10.59562/metrik.v21i1.1135.

[21] I. Roza, Junaidi, F. I. Pasaribu, Weriono, and S. Hestukoro, "Economic Planning Analysis of MHP PLTMH using Pico-Hydro Turbine: Hundreds of watts-5 KW," *Int. J. Innov. Sci. Res. Technol.*, vol. 3, no. 2, pp. 112–116, Feb. 2018.

[22] T. Ariani and O. P. U. Gumay, "Comparison of Two Simple Power Plant Design at Different Height and Water Discharge," *IJIS Edu Indones. J. Integr. Sci. Educ.*, vol. 3, no. 1, p. 78, Jan. 2021, doi: 10.29300/ijisedu.v3i1.4183.

[23] M. N. Hidayat, R. A. A. A. Shidiq WR, and I. N. Syamsiana, "Design and Implementation in Low Head of a Pico Hydro Power Plant Portable Using an Archimedes Screw Turbine," in *2023 International Conference on Electrical and Information Technology (IEIT)*, Sep. 2023, pp. 223–230. doi: 10.1109/IEIT59852.2023.10335578.

[24] S. Sudarman, W. Guszolil, D. Daryono, and M. Lukman, "A Feasibility Study on a Micro Hydro Power Plant at Coban Jahe Waterfall, Jabung, Malang Regency," *J. Energy Mech. Mater. Manuf. Eng.*, vol. 6, no. 1, Art. no. 1, Apr. 2021, doi: 10.22219/jemmme.v6i1.16433.

[25] C. Penche and D. I. de Minas, *Layman's Guidebook on How to Develop a Small Hydro Site*, Second. Brussels, Belgia: Directorate General for Energy (DG XVII), 1998.



- [26] “Turbin air Wibowo Paryatmo | Dinas Perpustakaan dan Arsip Daerah DIY.” Accessed: Jun. 24, 2024. [Online]. Available: <https://balaiyanpus.jogjaprovo.go.id/opac/detail-opac?id=92035>
- [27] Electric Power Development Co., Ltd. and JP Design Co., Ltd., *Guideline and Manual for Hydropower Development*, vol. 2. Japan International Cooperation Agency, 2011.
- [28] K. V. Alexander and E. P. Giddens, “Optimum penstocks for low head microhydro schemes,” *Renew. Energy*, vol. 33, no. 3, pp. 507–519, Mar. 2008, doi: 10.1016/j.renene.2007.01.009.
- [29] C. Penche, *Guide on How to Develop a Small Hydropower Plant*. European Small Hydropower Association, 2004.
- [30] K. E. Okedu and M. S. Al Siyabi, “Harnessing Hydropower Potential in Desert Regions: The Case of Wadi Dayqah Dam, Quriyat, Oman,” *Front. Water*, vol. 3, Jul. 2021, doi: 10.3389/frwa.2021.686856.
- [31] K. R. Arora, *Fluid Mechanics, Hydraulics And Hydraulic Machines*. Standard Publishers Distributors, 2005.
- [32] S. J. Williamson, B. H. Stark, and J. D. Booker, “Low head pico hydro turbine selection using a multi-criteria analysis,” *Renew. Energy*, vol. 61, pp. 43–50, Jan. 2014, doi: 10.1016/j.renene.2012.06.020.
- [33] R. Dufo-López, J. L. Bernal-Agustín, and J. Contreras, “Optimization of control strategies for stand-alone renewable energy systems with hydrogen storage,” *Renew. Energy*, vol. 32, no. 7, pp. 1102–1126, Jun. 2007, doi: 10.1016/j.renene.2006.04.013.
- [34] H. D. Young and R. A. Freedman, *University Physics with Modern Physics*. Pearson Education, 2015.
- [35] R. R. Venkataraman and J. K. Pinto, *Cost and value management in projects*. Hoboken, N.J: John Wiley & Sons, 2008.

