

DAFTAR PUSTAKA

- Abimanyu, Y., Sudarti, S., & Yushardi, Y. (2023). Rancang Bangun Sistem Turbin Pembangkit Listrik Tenaga Mikrohidro Pada Daerah Irigasi Sawah Aliran Rendah. *Phydagogic Jurnal Fisika Dan Pembelajarannya*, 6(1), 33–37.
- Achebe, C. H., Okafor, O. C., & Obika, E. N. (2020). Design and Implementation of a Crossflow Turbine for Pico Hydropower Electricity Generation. *Heliyon*, 6(7), e04523. <https://doi.org/10.1016/j.heliyon.2020.e04523>
- Adiwibowo, P. H., Soeryanto, S., Kurniawan, W. D., & Arsana, I. M. (2022). *Crossflow Hydro Turbine With the Interference Blade Improve Turbine Performance*. 196–202. https://doi.org/10.2991/978-94-6463-100-5_20
- Afrianto, Hadi, M., Anggara, M., Syauckani, I., & Kencana, P. I. (2026). Evaluasi Kinerja Pembangkit Listrik Tenaga Mikro Hidro (PLTMH) Desa Tepal, Kabupaten Sumbawa pada Kondisi Beban Puncak. *Impression : Jurnal Teknologi Dan Informasi*, 4(3), 689–700.
- Alamsyah, M. S., & Suprianto, B. (2023). Rancang Bangun Pembangkit Listrik Tenaga Mikrohidro Menggunakan Turbin Crossflow Dengan Perbandingan Variasi Sudut Sudu Terhadap Daya Yang Dihasilkan. *Jte*, 13(1), 1–8. <https://doi.org/10.26740/jte.v13n1.p1-8>
- Alfeuz, A., Tamiri, F. M., Farm, Y. Y., Muzammil, W. K., Melvin, G. J. H., Mahmud, Ansory, M. K., Setyawan, A., Putra, D. G. A., Yanto, Y., & Gunawan, H. (2024). Perancangan Moto-Gv (Motorized Guide Vane) Pada Pembangkit Listrik Mikrohidro Jenis Turbin Crossflow Dan Implementasi Di PLTMH Beranda *J.Prakt.Keinsinyuran*, 1(02), 47–52.
- Bideris-Davos, A. A., & Vovos, P. N. (2024). Comprehensive Review for Energy Recovery Technologies Used in Water Distribution Systems Considering Their
- Budiono, M. F., & Susetiawan. (2023). Pengelolaan Sumber Daya Berbasis Komunitas: Potret Penyediaan Listrik Berbasis Masyarakat Di Desa Andung Biru, Kabupaten Probolinggo. *Journal of Social Development Studies*, 4(2), 324–339. <https://doi.org/10.22146/jsds.9334>
- Bujawan, I. B. G. D. S. P., Jasa, L., & Wijaya, I. W. A. (2020). Karakteristik Kinerja Prototipe Turbin Snail-Lie Pada Pembangkit Listrik Tenaga Mikro Hidro. *Jurnal Spektrum*, 7(4), 115.
- D. S. A., Bohari, N., & Ismail, M. A. (2024). Performance Analysis of a Crossflow Vortex Turbine for a Gravitational Water Vortex Power Plant. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 116(2), 13–26.
- Damarian, K. D., Giriantari, I. A. D., & Jati, I. K. (2023). Studi Kelayakan Ekonomi Pembangkit Listrik Tenaga Mikro Hidro (Pltmh) Di Sungai Yeh Dikis Banjar Lebah Kabupaten Tabanan. *Jurnal Spektrum*, 10(2), 26.

- Effiandi, N., Yuliarman, Y., & Nur, I. (2023). Turbin Crossflow Untuk PLTMH Di Sungai Karuah, Kelurahan Lambung Bukit, Kec Pauh, Padang. *Jurnal Teknik Mesin*, 16(2), 207–212.
- Humena, S., Surusa, F. E. P., Pratiwi, A. I., & Kombu, R. (2021). Evaluasi Kinerja PLTMH Polohungo 40 KW Terhadap Small Scale Power Load (SSPL). *Jurnal Teknik*, 19(1), 75–84. <https://doi.org/10.37031/jt.v19i1.146>
- Imaaduddiin, M. H., Utama, W., Jasikur, C., Lestari, W., & Aini, A. N. (2023). Potential for Renewable Energy Generation From Water Sources in the Batang River Area. *Environmental Research Engineering and Management*, 79(1), 80–89. <https://doi.org/10.5755/j01.erem.79.1.32482>
- Imawati, I., Kurniawan, G. I., Ghifari, M. R., Nauval, M. F., Arisandi, F., Setiawan, H., & Mubarak, H. (2025). Harnessing Sustainable Energy: Portable Pico-Hydro Power Generation Using an Undershoot Water Wheel Turbine in Irrigation Canals. *Jurnal Nasional Teknik Elektro*, 52–62.
- Kanna, R. R., & Singh, R. R. (2022). A Feasibility Study on Balarbhita for Advancing Rural Electrification With a Solar—Micro-Hydro Hybrid System. *Frontiers in Energy Research*, 10.
- Karimian, S., & Saham, S. (2023). Power and Ventilation Performance Study in a Modified Vertical Axis Wind Turbine Based on Semi-Analytical Approach. *International Journal of Engineering*, 36(7), 1331–1342.
- Kasmoro, D., Emidiana, E., Irwansi, Y., & Amin, M. S. A. (2024). Planning for a Microhydro Power Plant (PLTMH) in Raja Jaya Village, Penukal District, Penukal Abab Lematang Ilir Regency. *Ijeemcs*, 1(3), 62–71. <https://doi.org/10.62951/ijeemcs.v1i3.43>
- Kogoya, O. (2024). Analysis of the Potential Development of Micro Hydro Power Plant (Pltmh) in Abenaho District, Yalimo Regency. *Infomanpro*, 13(1), 18–25. <https://doi.org/10.36040/infomanpro.v13i1.6461>
- Laksana, D. P. A., Giriantari, I. A. D., & Kumara, I. N. S. (2020). Redesain Turbin 175 KW Untuk Pembangkit Listrik Tenaga Mikrohidro (PLTMH) Desa Mekar Sari Buleleng Bali. *Majalah Ilmiah Teknologi Elektro*, 19(2), 241.
- Lama, R., Gautam, S., Lama, L., Neopane, H. P., & Chitrakar, S. (2022). Development of a Test Rig for Investigating the Performance of a Model Francis Turbine. *Iop Conference Series Earth and Environmental Science*, 1079(1), 012011.
- Lapisa, R., Karudin, A., Krismadinata, K., Putri, P. Y., Adri, J., Saputra, F. O., Saputra, D., & Alfarizi, A. (2023). Cross-Flow Turbine Design of Micro Hydro Power Generator for Rural Energy-Independent Area. *Motivection Journal of Mechanical Electrical and Industrial Engineering*, 5(2), 233–244. <https://doi.org/10.46574/motivection.v5i2.163>
- Lesnussa, H. (2023). Feasibility Study of Micro Hydro Power Plant in Manare River Ambaidiru Village Kosiwo District Yapen Islands Regency. *Fidelity Jurnal Teknik Elektro*, 5(2), 31–40.

- Madi, M., Yunesti, P., Praseptiawan, M., Rafi, R., & Kusuma, A. P. (2022). Penerapan Teknologi Energi Hybrid: Turbin Mikrohidro Dan Panel Surya Untuk Menambah Produksi Energi Listrik Di Dusun Batu Saeng, Tanggamus, Lampung. *Jurnal Pengabdian Pada Masyarakat*, 7(3), 592–601. <https://doi.org/10.30653/002.202273.149>
- Morani, M. C., Simão, M., Gazur, I., Santos, R. S., Carravetta, A., Fecarotta, O., & Ramos, H. M. (2022). Pressure Drop and Energy Recovery With a New Centrifugal Micro-Turbine: Fundamentals and Application in a Real WDN. *Energies*, 15(4), 1528. <https://doi.org/10.3390/en15041528>
- Mrope, H. A., Jande, Y. A. C., & Kivevele, T. (2021). A Review on Computational Fluid Dynamics Applications in the Design and Optimization of Crossflow Hydro Turbines. *Journal of Renewable Energy*, 2021, 1–13.
- Musthapa, M. F., Mukhtar, A., Nasir, M. F. M., & Tharima, A. F. (2020). Numerical Simulation of Micro Gravitational Hydro-Turbine for Alternative Renewable Energy Resources in Rural Area. *Intij*, 2020(1).
- Niyonzima, J. B., & Hendrick, P. (2021). Lab Performance Testing of a Small Banki-Michell Hydraulic Turbine for Remote Applications. *Journal of Renewable Energies*, 24(2), 244–260.
- Oktavitasari, D., Tjahjana, D. D. D. P., & Hadi, S. (2021). Experimental Investigation on the Wake Effect of Crossflow Wind Turbines. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 85(2), 44–50. <https://doi.org/10.37934/arfmts.85.2.4450>
- Otsuka, K., Ogawa, N., IIO, S., Kitahora, T., Choi, Y., & Inagaki, M. (2022). Characteristics and Suppression of Vibration in Cross-Flow Turbine With a Cavity. *Journal of Physics Conference Series*, 2217(1), 012063.
- Performance, Technical Challenges, and Economic Viability. *Water*, 16(15), 2129. <https://doi.org/10.3390/w16152129>
- Pirzada, S. J., Kurniawan, I., Nababan, N. P., & Sahroni, Taufik R. (2024). New Design of a Micro-Hydro Power Plant (MHPP) System in the 3T Region as Al-Ternative Solution Unit Turbine Using Computational Fluid Dynamics (CFD) Simulation. *Eduvest - Journal of Universal Studies*, 4(5), 3895–3911.
- Putra, M. A. K., & Hamdani. (2024). Analisis Perencanaan Pembangkit Listrik Tenaga Mikro Hidro (Pltmh) Di Desa Negeri Gugung Sibolangit. *Power Elektronik Jurnal Orang Elektro*, 13(1), 41–45.
- Putra, W. E., Sukerayasa, I. W., & Giriantari, I. A. D. (2023a). Studi Potensi Pembangkit Listrik Tenaga Mikro Hidro (Pltmh) Di Sungai Yeh Dikis Banjar Lebah Kabupaten Tabanan. *Jurnal Spektrum*, 10(2), 14.
- Putra, W. E., Sukerayasa, I. W., & Giriantari, I. A. D. (2023b). Studi Potensi Pembangkit Listrik Tenaga Mikro Hidro (Pltmh) Di Sungai Yeh Dikis Banjar Lebah Kabupaten Tabanan. *Jurnal Spektrum*, 10(2), 14. <https://doi.org/10.24843/spektrum.2023.v10.i02.p3>

- Raharja, I. G. A. K., Partha, C. G. I., & Janardana, I. G. N. (2024). Analisis Potensi Daya Listrik Pada PLTMH Aliran Anak Sungai Tukad Sungai Menggunakan Turbin Crossflow. *Jurnal Spektrum*, 11(4), 48.
- Ramadhani, R. C., Yerizam, M., & Indrayani, I. (2020). Analysis of Ogan Ilir Regency's Kelakar River Runoff Discharge in Micro Hydro Power Plant (PLMTH) Planning. *Science & Technology Indonesia*, 5(2), 41.
- Rifai, A. M. (2023). Investigasi Efek Soliditas Runner Terhadap Performa Turbin Crossflow. *Otopro*, 1–7. <https://doi.org/10.26740/otopro.v19n1.p1-7>
- Sritram, P., & Suntivarakorn, R. (2021). The Efficiency Comparison of Hydro Turbines for Micro Power Plant From Free Vortex. *Energies*, 14(23), 7961. <https://doi.org/10.3390/en14237961>
- Sukusno, P. (2022). Peningkatan Efisiensi Pada Sistem PLTMH Dengan Cara Turbin Hibrid Crossflow Dan Propeller Head 5 M. *Jurnal Poli-Teknologi*, 20(3), 189–196. <https://doi.org/10.32722/pt.v20i3.3412>
- Sun, S., Liu, X., Zhang, Z., Liu, C., & Wang, A. (2023). Numerical Simulation and Analysis of Hydraulic Turbines Based on BIM for Sustainable Development. *Sustainability*, 15(23), 16168.
- Syafiudin, M., Sari, R. D. J. K., & Arifuddin, R. (2025). Potensi Dan Perbandingan Turbin Crossflow Dengan Turbin Kaplan PLTMH Wisata Telaga. *Elposys Jurnal Sistem Kelistrikan*, 12(2), 85–90.
- Tomczyk, P., Mastalerek, K., Wiatkowski, M., Kuriqi, A., & Jurasz, J. (2023). Assessment of a Francis Micro Hydro Turbine Performance Installed in a Wastewater Treatment Plant. *Energies*, 16(20), 7214.
- Ulfa, N., Zulhajji, Z., Firdaus, F., Haripuddin, H., & Yantahin, M. (2025). Analysis of PLTMH Potential Using Casimir Hydropower Application at Salomekko Dam. *Jurnal Media Elektrik*, 22(2), 108–114.
- Wijaya, I. W. A., Mertadiyasa, I. M. D., & Suartika, I. M. (2020). Pengaruh Sudut Buka Guide Vane Dan Tekanan Air Terhadap Kecepatan Putar Dan Daya Output Pada Prototype Pembangkit Listrik Tenaga Mikrohidro Dengan Turbin Crossflow. *Jurnal Spektrum*, 7(4), 144.
- Wiranata, I. P. A., Janardana, I. G. N., & Wijaya, I. W. A. (2020). Rancang Bangun Prototype Pembangkit Listrik Tenaga Mikro Hidro Menggunakan Turbin Cross-Flow. *Jurnal Spektrum*, 7(4), 151.
- Yolanda, R. P. (2023). Analisa Turbine Crossflow Mini Mikrohidro Dengan Variasi Blade Menggunakan Simulasi CFD. *Proton*, 13(1), 20–31.

