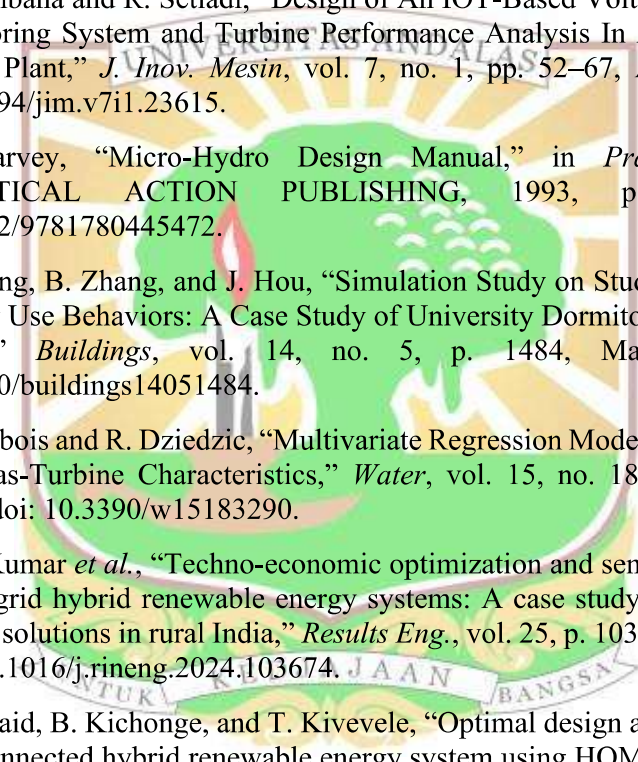


DAFTAR PUSTAKA

- [1] R. Akbar, “Studi Potensi Penghematan Pemakaian Energi Listrik Pada Gedung Rektorat Universitas Andalas,” *Tugas Akhir*, p. 92, 2022.
- [2] H. Ahmad Mahauddin, I. Jauhari, N. N. Nik Ghazali, N. Mohd Sultan, and S. Julai, “Development and performance testing of a new in-pipe hydropower prototype towards Technology Readiness Level (TRL) 6,” *Cogent Eng.*, vol. 11, no. 1, Dec. 2024, doi: 10.1080/23311916.2024.2319402.
- [3] L. Mohamad *et al.*, “Pemanfaatan Sumber Daya Air sebagai Pembangkit Listrik Skala Pico untuk Menunjang Belajar , Kekerja dan Berkarya PENDAHULUAN Sebagai mahasiswa dituntut untuk dapat melakukan dan mengaplikasikan ilmu,” *J. Sibermas*, p. 13, 2020.
- [4] A. M. Ahmad, S. Julai, and I. Jauhari, “In-pipe Hydropower Vertical Axis Parallel Turbine Prototype,” Dec. 2022, pp. 83–90. doi: 10.21467/proceedings.141.12.
- [5] C. L. Cheng, C. S. Sanchez Jimenez, and M.-C. Lee, “Research of BIPV optimal tilted angle, use of latitude concept for south orientated plans,” *Renew. Energy*, vol. 34, no. 6, pp. 1644–1650, Jun. 2009, doi: 10.1016/j.renene.2008.10.025.
- [6] A. A. Lahimer, M. A. Alghoul, K. Sopian, N. Amin, N. Asim, and M. I. Fadhel, “Research and development aspects of pico-hydro power,” *Renew. Sustain. Energy Rev.*, vol. 16, no. 8, pp. 5861–5878, Oct. 2012, doi: 10.1016/j.rser.2012.05.001.
- [7] M. Ur Rashid, I. Ullah, M. Mehran, M. N. R. Baharom, and F. Khan, “Techno-Economic Analysis of Grid-Connected Hybrid Renewable Energy System for Remote Areas Electrification Using Homer Pro,” *J. Electr. Eng. Technol.*, vol. 17, no. 2, pp. 981–997, Mar. 2022, doi: 10.1007/s42835-021-00984-2.
- [8] T. Lambert, P. Gilman, and P. Lilienthal, “Micropower System Modeling with Homer,” in *Integration of Alternative Sources of Energy*, Wiley, 2005, pp. 379–418. doi: 10.1002/0471755621.ch15.
- [9] D. Rsud, O. Provinsi, and S. Utara, “Analisis Sistem Plambing Air Bersih Dan Air Limbah,” vol. 23, no. 92, 2025.
- [10] B. S. Nasional, “SNI 03-7065-2005 Tentang Tata Cara Perencanaan Sistem Plumbing,” *Standar Nas. Indones.*, p. 6, 2005.
- [11] A. K. Nag and S. Sarkar, “Techno-economic analysis of a micro-hydropower plant consists of hydrokinetic turbines arranged in different array formations for rural power supply,” *Renew. Energy*, vol. 179, pp. 475–487, Dec. 2021, doi: 10.1016/j.renene.2021.07.067.

- 
- [12] Z. Shen, Y. Yao, Q. Wang, L. Lu, and H. Yang, "A novel micro power generation system to efficiently harvest hydroelectric energy for power supply to water intelligent networks of urban water pipelines," *Energy*, vol. 268, p. 126694, Apr. 2023, doi: 10.1016/j.energy.2023.126694.
- [13] T. Nabil and T. M. Mansour, "Power Extraction from Pico Hydro Turbines Installed in Water Pipelines," *J. Energy Eng.*, vol. 148, no. 2, Apr. 2022, doi: 10.1061/(ASCE)EY.1943-7897.0000818.
- [14] A. A. Bideris-Davos and P. N. Vovos, "Comprehensive Review for Energy Recovery Technologies Used in Water Distribution Systems Considering Their Performance, Technical Challenges, and Economic Viability," *Water*, vol. 16, no. 15, p. 2129, Jul. 2024, doi: 10.3390/w16152129.
- [15] Z. Syahbana and R. Setiadi, "Design of An IOT-Based Voltage and Current Monitoring System and Turbine Performance Analysis In A Micro Hydro Power Plant," *J. Inov. Mesin*, vol. 7, no. 1, pp. 52–67, Apr. 2025, doi: 10.15294/jim.v7i1.23615.
- [16] A. Harvey, "Micro-Hydro Design Manual," in *Practical Action*, PRACTICAL ACTION PUBLISHING, 1993, p. 374. doi: 10.3362/9781780445472.
- [17] Y. Zhang, B. Zhang, and J. Hou, "Simulation Study on Student Residential Energy Use Behaviors: A Case Study of University Dormitories in Sichuan, China," *Buildings*, vol. 14, no. 5, p. 1484, May 2024, doi: 10.3390/buildings14051484.
- [18] A. Brisbois and R. Dziedzic, "Multivariate Regression Models for Predicting Pump-as-Turbine Characteristics," *Water*, vol. 15, no. 18, p. 3290, Sep. 2023, doi: 10.3390/w15183290.
- [19] P. H. Kumar *et al.*, "Techno-economic optimization and sensitivity analysis of off-grid hybrid renewable energy systems: A case study for sustainable energy solutions in rural India," *Results Eng.*, vol. 25, p. 103674, Mar. 2025, doi: 10.1016/j.rineng.2024.103674.
- [20] T. R. Said, B. Kichonge, and T. Kivevele, "Optimal design and analysis of a grid-connected hybrid renewable energy system using HOMER Pro: A case study of Tumbatu Island, Zanzibar," *Energy Sci. Eng.*, vol. 12, no. 5, pp. 2137–2163, May 2024, doi: 10.1002/ese3.1735.
- [21] T. M. I. Riayatsyah, T. A. Geumpana, I. M. R. Fattah, S. Rizal, and T. M. I. Mahlia, "Techno-Economic Analysis and Optimisation of Campus Grid-Connected Hybrid Renewable Energy System Using HOMER Grid," *Sustainability*, vol. 14, no. 13, p. 7735, Jun. 2022, doi: 10.3390/su14137735.
- [22] T. D. Ayuni, N. A. Fikriyah, E. Ryanti, Q. Haffiyan, and R. Widhiastuti, "System Planning (Clean Water and Wastewater Installation) at the Pontianak State Polytechnic Student Dormitory," vol. 5, no. 4, pp. 34–43, 2026.
- [23] I. Richardson, M. Thomson, D. Infield, and C. Clifford, "Domestic

- electricity use: A high-resolution energy demand model,” *Energy Build.*, vol. 42, no. 10, pp. 1878–1887, Oct. 2010, doi: 10.1016/j.enbuild.2010.05.023.
- [24] B. R. Munson, T. H. Okiishi, W. W. Huebsch, and A. P. Rothmayer, “Fundamentals of Fluid Mechanics,” in *John Wiley & Sons, Inc.*, Seventh., John Wiley & Sons, Inc, 2013, p. 716.
- [25] TECO, “AESV / AESU / AESV-LA Series Squirrel Cage Induction Motor,” in *TECO Singapore*, Singapore, 2016, p. 31.

