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Daftar Pustaka

A. F. Fairuzi, I. a. (2024). Design waterwheel of hydropower on outfall condenser sebalang power plant. *IJSRA (International Journal of Science and Research Archive*.

A. R. Muzani, N. S. (2024). ANALISA KONSUMSI ENERGI LISTRIK PEMAKAIAN SENDIRI UNIT SATU PADA PLTU NAGAN RAYA. *JURNAL TEKTRO.*

A., Y. (2020). Archimedes Screw Turbines: A Sustainable Development Solution for Green and Renewable Energy Generation—A Review of Potential and Design Procedures. *sustainability*.

Anggoro. (2023). *INVESTMENT PROJECT ANALYSIS OF 120 MW COMBINED CYCLE POWER PLANT (CCPP) IN BATAM.* Batam: ITB.

Bingyong G., J. V. (2021). Areview of wave energy technology from a research and commercial perspective. *IET Renewable Power Generation*.

C.P. Jawahar, P. A. (2017). A review on turbines for micro hydro power plant. *Renewable and Sustainable Energy Reviews.*

D. Adanta, D. P. (2023). Performance Comparison of Crossflow Turbine Configuration Upper Blade Convex and Curvature by Computational Method. *Civil Engineering Journal.*

Dan M., a. O. (2018). Study of Utilization Under Sea-water Hydrostatic Pressure as Hydro Power Generation. *E3S Web of Conferences.*

Database Peraturan JDIH BPK. (2021). Retrieved from https://peraturan.bpk.go.id/: https://peraturan.bpk.go.id/Details/161852/pp-no-22-tahun-2021

Deepika S., U. S. (2025). Corrosion-Resistant Materials for Ocean Structures: Innovations, Mechanisms, and Applications. *NASS.*

E. Quaranta, A. B. (2021). The Very Low Head Turbine for hydropower generation in existing hydraulic infrastructures: State of the art and future challenges. *Sustainable Energy Technologies and Assessments*.

Elwardany. (2024). Advancing sustainable thermal power generation: insights from recent energy and exergy studies. *PSEP*.

Emanuele Quaranta, R. R. (2018). Gravity water wheels as a micro hydropower energy source: A review based on historic data, design methods, efficiencies and modern optimizations. *Renewable and Sustainable Energy Reviews.*

F. J. Likadja, A. S. (2020). Perencanaan Pembangkit Listrik Tenaga Mikro Hidro (PLTMH) Memanfaatkan Outlet Kondensor PLTU II NTT di Desa Bolok Kecamatan Kupang Barat, Kabupaten Kupang. *Jurnal Media Elektro / Vol. VIII / No. 2*.

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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

G. M. Idroes, I. H. (2024). The dynamic impact of non-renewable and renewable energy on carbon dioxide emissions and ecological footprint in Indonesia. *Carbon Research*.

H. Nagpal, J. M. (2021). Heat Recovery from Wastewater—A Review of Available Resource. *water*.

IESR. (2025). *Indonesia Energy Transition Outlook 2025 Navigating Transition at the Crossroads: A Pivotal Moment for Redifining the Future.* Jakarta: IESR.

J. C. Hernandez, C. J. (2019). An Optimization Model for the Design of an Off-Grid Micro-Hydro Power Plant. *Proceedings of the International Conference on Industrial Engineering and Operations Management*.

J. Li, J. Z. (2024). Undesired flows in lateral-intake multiple forebays and their hydraulic implications: case study for Asia's largest urban water supply pumping station. *ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS.*

Jannis L., A. A. (2021). Plant siting and economic potential of ocean thermal energy conversion in Indonesia a novel GIS-based methodology. *Energy*.

J-Power. (2008, August 5). Retrieved from J-Power Web Site: https://www.jpower.co.jp/english/company_info/environment/pdf/er2008pdf/08-05.pdf

Kishore K. K., S. K. (2023). Study and Design of Archimedes Screw Turbine for Micro Hydro Power Generation. *AIP Conference Proceedings.*

Kyle M. W., K. N. (2025). Contextualizing Non-Powered Dam Site Selection for Archimedes Screw Turbines: A Methodology for Responsible Archimedes Screw Turbine Conversion at Existing Dams. *Energies.*

L. Judijanto., R. D. (2024). The Effect of Green Project Financing, Investment Sustainability, and Green Bonds Policy on the Growth of Renewable Energy Industry in Indonesia. *West Science Social and Humanities Studies.*

M. Arkam, C. M. (2015). REVIEW ON THE POTENTIAL OF MICRO HYDRO ELECTRIC GENERATOR EMBEDDED AT EFFLUENT DISCHARGE OF SEWERAGE TREATMENT PLANT . *Jurnal Teknologi*.

Muhajir A., I. .. (2025). Analisis Pemilihan Jenis Turbin PLTMH Berdasarkan Rentang Head pada Sistem Pemanfaatan Air Buangan Pembangkit Listrik. *Wahana Aktivitas dan Kreativitas Teknologi Unipasby (WAKTU)*.

N. Apriansah. (2021). *Analisis Pemanfaatan Air Buang PLTU Tanjung B untuk Pembangkit Mikrohidro.* Surakarta: Universitas Muhammadiyah Surakarta.

N. S. Ngacha, C. M. (2024). Modeling of Micro-Hydropower Systems: The Case of Hhaynu Micro-Hydro Power Plant in Tanzania. *Journal of Social Science and Humanities.*

ANALISA POTENSI PEMANFAATAN OUTFLOW CONDENSER UNIT PEMBANGKIT GRESIK PT PLN NUSANTARA POWER SEBAGAI SUMBER ENERGI PLTA
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

N. Saqib, d. (2022). Revisiting EKC hypothesis in context of renewable energy, human development and moderating role of technological innovations in E-7 countries? *Frontiers in Environmental Science*.

Pešić, J. (2022). EUROPEANISATION FROM BELOW AT THE SEMI PERIPHERY: THE MOVEMENT AGAINST SMALL HYDROPOWER PLANTS IN SERBIA. *Southeast European and Black Sea Studies*.

Piotr S., a. K. (2024). Recent Progress in Research on the Design and Use of an Archimedes Screw Turbine: A Review. *sustainability*.

PLN, P. (2024). *Statistics PLN 2024*. PT PLN (Persero).

Q. Huang, Y. Z. (2025). Flow Heat Transfer Characteristics and Dynamic Response of Once-Through Cooling Water System in Nuclear Power Plants Under Complex Operating Conditions. *energies*.

Qiao Chunzhen, C. Z. (2020). Study on the Optimization of Steam Turbine Exhaust Channel Based on Adding Diversion Device. *IOP Publishing*.

R. A. Ruiz, L. d. (2022). Low-head pumped hydro storage : A review on civil structure designs, legal and environmental aspects to make its realization feasible in seawater. *Renewable and Sustainable Energy Reviews*.

R. K. Chaulagain, L. P. (2023). *A review on non-conventional hydropower turbines and their selection for ultra-low-head applications.* Nepal: Heliyon.

R. Wang, X. D. (2024). A novel system for reducing power plant electricity consumption and enhancing deep peak-load capability. *Energy*.

Robert Stefan Vizitiu, S. E. (2024). Experimental Investigation of a Water–Air Heat Recovery System. *Sustainability*.

Ruihua N., H. L. (2023). Scour at River-Crossing Cylindrical Structures in Degrading Channels. *ASCE*.

Saleem. (2024). Analysis of Rankine Heat Engine Cycle and Optimization of Cycle Efficiency Between Maximum and Minimum Working Pressures. *National University of Sciences and Technology*.

Santeri P., T. A. (2018). Specific speed-based pump flow rate estimator for large-scale and long-term energy efficiency auditing. *Energy Efficiency*.

Sarah F., P. A. (2026). The Impact of Safety Factors on Safety Performance (Study on Hydroelectric Power Plants in Sumatra). *JCE (Journal of Civil Engineering)*.

Sarjiya, L. M. (2021). Assessing Potential Scenarios for Achieving New and Renewable Energy Targets in Java-Bali Power System, Indonesia. *International Journal of Energy Economics and* .

Sebastian L., M. M. (2013). Soft sensor based dynamic flow rate estimation in low speed radial pumps. *European Control Conference (ECC)*. Zürich, Switzerland.: EUCA.

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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Sunardi, M. A. (2020). Water corrosivity of polluted reservoir and hydropower sustainability. *natureresearch*.

V. Yildiz, J. A. (2018). A toolbox for the optimal design of run-of-river hydropower plants. *Environmental Modelling & Software*.

Vipin U., A. K. (2025). Parametric sensitivity analysis of Archimedes screw turbines for high-efficiency and sustainable hydropower. *Energy Sources*.

Y. Chen, Y.-C. H. (2022). Streamflow Measurement Using Mean Surface Velocity. *Water*.

Yildiz V., B. S. (2024). Importance of Variable Turbine Efficiency in Run-Of-River Hydropower Design Under Deep Uncertainty. *Water Resources Research*.

Yuezhong W., D. W. (2022). The Estimation of Centrifugal Pump Flow Rate Based on the Power–Speed Curve Interpolation Method. *Processes*.

Yuki T., S. D. (2025). Enhancing Efficiency in Small-Scale Hydropower: A Comprehensive Review of Archimedes Screw Turbine Design Innovations. *Semarak Engineering Journal*.

Yulia, A. M. (2024). River Hydrology Analysis For Micro Hydro Power Plant . *Jurnal Informasi dan Teknologi*.

Zhenhui W., D. L. (2023). A Nonlinear Model for Evaluating Dynamic Resilience of Water Supply Hydropower Generation-Environment Conservation Nexus System. *Water Resources Research*.