

## DAFTAR PUSTAKA

- Abuelnuor, A. A. A., Hassan Suliman, M. M., Abuelnour, M. A., Younis, O., & Mohamed, E. F. (2024). Exergy analysis of the boiler in phase 3 of the Khartoum North power plant. *Results in Engineering*, 21(February), 101919. <https://doi.org/10.1016/j.rineng.2024.101919>
- Ahmad, R. V. N. A. (2022). Analisis Laju Kerusakan Eksergi dan Efisiensi Eksergi pada Pembangkit Listrik Tenaga Uap. *Media Bina Ilmiah*, 17(1978), 263–270.
- Ardiansyah, F., Amiadji, W., & Komari, S. W. M. (2019). Analisis Laju Kerusakan Eksergi Pada Kondensor Unit 3 Akibat Fouling di PLTU Suralaya. *Jurnal Teknik ITS*, 8(2), G118–G122. <https://doi.org/10.12962/j23373539.v8i2.43323>.
- Asam, D., & Pesawal, F. (2011). *Kriteria pemilihan pompa untuk mengalirkan larutan. November*, 167–174.
- Cengel, Y. A., & Boles, M. A. (2015). Thermodynamics an Engineering Approach (eighth Edi). Mc Graw-Hill Education.
- Dewulf, J., Langenhove, H. V., Muys, B., Bruers, J., Bakshi, B. R., Grubb, G. F., Paulus, D. M., Sciubba, E., (2008). Environmental Science & Technology. 42 (7). <https://doi.org/10.1021/es071719a>.
- Dharmakusuma, M. D., Belyamin, B., & Widiyatmoko, W. (2020). Analisis Eksergi Pada Boiler PLTU. *Jurnal Mekanik Terapan*, 1(1), 45–53. <https://doi.org/10.32722/jmt.v1i1.3331>
- Elwardany, M., Nassib, A. M., Mohamed, H. A., & Abdelaal, M. R. (2023). Energy and exergy assessment of 750 MW combined cycle power plant: A case study. *Energy Nexus*, 12(September), 100251. <https://doi.org/10.1016/j.nexus.2023.100251>
- Georgiev, A. (2019). *Energy and exergy analysis of condensate pump in heating systems*. Machines. Technologies. Materials, 5, 202–205.
- Hasudungan Baringbing, M., & Nazaruddin Sinaga, I. (2023). Analisis efisiensi Water Tube Boiler Menggunakan Metode Langsung di PT. Toba Pulp Lestari, Tbk Porsea-Sumatera Utara. *Jurnal Teknik Mesin S-1*, 11(2), 49–68.
- Heroza, N., & Pratoto, A. (2022). Analisis Eksergi Pada Pembangkit Listrik yang Memanfaatkan Panas Buangan Di PT Semen Padang. *Teknik*, 43(2), 131–139. <https://doi.org/10.14710/teknik.v43i2.37333>
- Ibrahim, T. K., Mohammed, M. k., Awad, O. I., Abdalla, A. N., Basrawi, F., Mohammed, M. N., Najafi, G., Mamat, R., (2018). A comprehensive review on the exergy analysis of combined cycle power plants. *Renewable and Sustainable Energy Reviews*, Vol 90, 835-850, <https://doi.org/10.1016/j.rser.2018.03.072>.
- Irawan, O. W., Pratama, L. S., & Insani, C. (2021). Analisis Termodinamika Siklus Pembangkit Listrik Tenaga Uap Kapasitas 1500 kW. *JTM-ITI (Jurnal Teknik Mesin ITI)*, 5(3), 109. <https://doi.org/10.31543/jtm.v5i3.579>
- Kanoglu, M., Dincer, I., & Rosen, M. A. (2009). *Exergy analysis of a steam power plant*. International Journal of Energy Research.
- Kaushik, S. C., Siva Reddy, V., Tyagi, S. K., (2011). Energy and exergy analyses of thermal power plants: A review. *Renewable and Sustainable Energy*

- Reviews. Vol 15 (4), 1857-1872. <https://doi.org/10.1016/j.rser.2010.12.007>.
- Kleinhans, U., Wieland, C., Frandsen, F. J., & Spleithoff, H. (2018). Ash formation and deposition in coal and biomass fired combustion systems: Progress and challenges in the field of ash particle sticking and rebound behavior. *Progress in Energy and Combustion Science*, 68, 65–168. <https://doi.org/10.1016/j.pecs.2018.02.001>.
- Kotas, T. J. (2013). *The Exergy Method of Thermal Plant Analysis*. Krieger Publishing.
- Kumar, V., Saxena, V. K., Kumar, R., & Kumar, S. (2024). Energy, exergy, sustainability and environmental emission analysis of coal-fired thermal power plant. *Ain Shams Engineering Journal*, 15(2), 102416. <https://doi.org/10.1016/j.asej.2023.102416>.
- Latif, A. (2023). Analisis Efisiensi Bahan Bakar Boiler Untuk Pemanasan Sitem Uap Pada Industri Perikanan di PT. Dua Putra Utama Makmur Tbk. *Science And Engineering National Seminar*, 8(8), 224–234.
- Li, Y., & Liu, L. (2012). Exergy Analysis of 300MW CoalFired Power Plant. *Energy Procedia*, 17, 926–932. <https://doi.org/10.1016/j.egypro.2012.02.189>.
- Li, Y., Liu, J., & Zhang, H. (2018). *Performance analysis of centrifugal pumps under variable load conditions*. Applied Thermal Engineering, 130, 429–438.
- Maulana, F., Bono, W., Purwati, W., Program, S., Teknik, K., Energi, J., Teknik, M., Politeknik, N., Semarang, J. H., & Sudarto, S. H. (2014). Analisis Kinerja Kondensor Terhadap Perubahan Tekanan Vakum Di Pt Pln (Persero) Sektor Pembangkitan Pltgu Cilegon. *EKSERGI Jurnal Teknik Energi*, 10(1), 29–34.
- Moran, M. J. (2002). Engineering thermodynamics. The Mechatronics Handbook, 12-1-12–32. <https://doi.org/10.4324/9781315119717-1>.
- M. Rosen, I. Dincer., (2014). *Effect of varying dead-state properties on energy and exergy analyses of thermal systems*, International Journal of Thermal Sciences 43. 121-133.
- Nasution, H., Saputra, R., & Syahrial, D. (2020). *Improvement of centrifugal pump efficiency through maintenance and overhaul*. Journal of Mechanical Engineering Research, 13(2), 45–53.
- Omara, A. A. M., Mohammedali, A. A. M., & Dhivagar, R. (2024). Energy, exergy and advanced exergy analyses on Garri “1” combined cycle power plant of Sudan. *International Journal of Thermofluids*, 24, 2025. <https://doi.org/10.1016/j.ijft.2024.100930>.
- Prasad, R., & Samad, A. (2019). *Centrifugal pumps: design and performance*. Springer, Singapore.
- Prasetyo, A. W., Said, M., Tony, K., & Utomo, S. (2024). *Analisis Efisiensi Eksersi Water Tube Boiler Pada Unit Penyediaan Steam di Salah Satu Plant Gas Processing Aceh , Indonesia* Exergy Efficiency Analysis of Water Tube Boiler in the Steam Supply Unit at a Plant Gas Processing in Aceh , Indonesia. 21(3), 209–219.
- Phanama, R., Simanjuntak, Y. M., Ivanto, M., (2019). Analisa Eksersi Sistem Pembangkit Listrik Tenaga Uap (Pltu) Di Pt. Indonesia Power Unit Jasa Pembangkit Sanggau. *Jurnal Teknologi Rekayasa Teknik Mesin*, 1(1), 1, <https://jurnal.untan.ac.id>.

- Rodrigues, D., & Lavorato, P. (2016). Maintenance, Repair and Overhaul (MRO) Fundamentals and Strategies: An Aeronautical Industry Overview. *International Journal of Computer Applications*, 135(12), 21–29. <https://doi.org/10.5120/ijca2016908563>
- Rosyada, A., Anhar, A. R., & Silanegara, I. (2018). Analisis Kinerja Kondensor Unit Iv Sebelum Dan Sesudah Overhaul. *Jurnal Poli-Teknologi*, 16(3), 233–238. <https://doi.org/10.32722/pt.v16i3.977>
- Safitri, S. S. (2020). Game Online dan Pengaruh Interaksi Sosial di Kalangan Mahasiswa di Universitas Muhammadiyah Surakarta. *Edumaspul: Jurnal Pendidikan*, 4(2), 364–376. <https://doi.org/10.33487/edumaspul.v4i2.533>.
- Saidur, R., Ahamed, J. U., & Masjuki, H. H. (2010). *Energy, exergy and economic analysis of industrial boilers*. Energy.
- Saleh abdurrahman. (2017). Outlook Energi Indonesia 2017. Santoso, N. B. (2014). Pemanfaatan LNG Sebagai Sumber Energi di Indonesia. *Jurnal Rekayasa Proses*, 8(1), 33–39.
- Tjoteng, A. A., Kamal, D. M., Belyamin, D., Terapan, M., Manufaktur, R. T., Mesin, J. T., & Jakarta, N. (2023). Analisis Eksersi Turbin Gas Setelah Overhaul Combustor Blok 4 Di PT. X. Prosiding Seminar Nasional Teknik Mesin Politeknik Negeri Jakarta, December 2022, 859–867. <https://prosiding.pnj.ac.id>.
- Widyansyah, F., Mabruri, E., & Alfirano, A. (2023). Pengaruh Temperatur Austempering Terhadap Sifat Mekanik Dan Struktur Mikro Besi Cor Kelabu Dengan Nikel 10% Untuk Komponen Boiler Pltu. *Jurnal Rekayasa Mesin*, 14(3), 1023–1031. <https://doi.org/10.21776/jrm.v14i3.1650>.
- Wu, L., Wang, L., Wang, Y., Hu, X., Dong, C., Yang, Z., & Yang, Y. (2014). *Component and process based exergy evaluation of a 600MW coal-fired power plant*. *Energy Procedia*, 61, 2097–2100. <https://doi.org/10.1016/j.egypro.2014.12.084>.
- Zulmi, M. R., Suanggana, D., & Kurniawati, D. M. (2021). Analisis Efisiensi Energi, Efisiensi Eksersi, Dan Laju Kerusakan Eksersi Pada Komponen Mesin Pltu Muara Jawa Dengan Variasi Pembebatan. *Media Mesin: Majalah Teknik Mesin*, 22(1), 1–12. <https://doi.org/10.23917/mesin.v22i1.11832>.