

## DAFTAR PUSTAKA

- [1] W. G. Santika, M. Anisuzzaman, Y. Simsek, P. A. Bahri, G. M. Shafiullah, and T. Urmee, “Implications of the Sustainable Development Goals on national energy demand: The case of Indonesia,” *Energy*, vol. 196, Apr. 2020, doi: 10.1016/j.energy.2020.117100.
- [2] “Energy Production and Consumption - Our World in Data.” <https://ourworldindata.org/energy-production-consumption> (accessed May 18, 2022).
- [3] F. Jeremy, “RUPTL 2021-30: PLN steps up ambitions to accelerate clean energy investments in Indonesia.” [Online]. Available: <https://iesr.or.id/pustaka/deep-decarbonization-of-indonesias-energy-system-a-pathway-to-zero-emissions-by-2050>
- [4] M. A. Sahraei and M. K. Çodur, “Prediction of transportation energy demand by novel hybrid meta-heuristic ANN,” *Energy*, vol. 249, p. 123735, Jun. 2022, doi: 10.1016/j.energy.2022.123735.
- [5] J.-P. Rodrigue, *The Geography of Transport Systems*. Routledge, 2020. doi: 10.4324/9780429346323.
- [6] “Kementerian ESDM RI - Media Center - Arsip Berita - Peluncuran Program Pembangunan Pembangkit 35.000 MW.” <https://www.esdm.go.id/id/media-center/arsip-berita/peluncuran-program-pembangunan-pembangkit-35000-mw> (accessed May 18, 2022).
- [7] “Kementerian ESDM RI - Media Center - Arsip Berita - Peluncuran Program Pembangunan Pembangkit 35.000 MW.” <https://www.esdm.go.id/id/media-center/arsip-berita/peluncuran-program-pembangunan-pembangkit-35000-mw> (accessed May 19, 2022).
- [8] L. F. Drbal, P. G. Boston, K. L. Westra, and Black & Veatch., *Power plant engineering*. Chapman & Hall, 1996.
- [9] “Power plant - Energy Education.” [https://energyeducation.ca/encyclopedia/Power\\_plant](https://energyeducation.ca/encyclopedia/Power_plant) (accessed May 19, 2022).
- [10] “Boiler Operator’s Handbook ( PDFDrive ).”
- [11] H. G. Ibrahim, M. S. Elattrash, and A. Y. Okasha, “Steam Power Plant Design Upgrading (Case Study: Khoms Steam Power Plant),” *Energy and Environment Research*, vol. 1, no. 1, Dec. 2011, doi: 10.5539/eer.v1n1p202.
- [12] P. Basu, “Circulating Fluidized Bed Boilers Design, Operation and Maintenance.”

- [13] S. J. Davis and K. Caldeira, “Consumption-based accounting of CO<sub>2</sub> emissions,” *Proc Natl Acad Sci U S A*, vol. 107, no. 12, pp. 5687–5692, Mar. 2010, doi: 10.1073/PNAS.0906974107.
- [14] M. Parvez, “Steam Boiler.”
- [15] “Steam Turbines for Power Plants ( PDFDrive ).”
- [16] C. Wang and Y. Zhu, “Entransy analysis on boiler air pre-heater with multi-stage LHS unit,” *Appl Therm Eng*, vol. 130, pp. 1139–1146, Feb. 2018, doi: 10.1016/J.APPLTHERMALENG.2017.11.085.
- [17] C. Wang and Y. Zhu, “Entransy analysis on boiler air pre-heater with multi-stage LHS unit,” *Appl Therm Eng*, vol. 130, pp. 1139–1146, Feb. 2018, doi: 10.1016/j.applthermaleng.2017.11.085.
- [18] S. Suwarno, G. Nugroho, A. Santoso, and Witantyo, “Failure analysis of air preheater tubes in a circulating fluidized bed boiler,” *Eng Fail Anal*, vol. 124, Jun. 2021, doi: 10.1016/j.engfailanal.2021.105380.
- [19] “14 RCFA Kebocoran Waterwall Unit 1 29-3- 2019”.
- [20] A. Hasan, P. T. Konversi, and K. Energi, “EFISIENSI ENERGI TERMAL SISTEM BOILER DI INDUSTRI.”
- [21] “Audit Energi dan Analisis Peluang Penghematan Konsumsi Energi Listrik di Unit 1 PLTU Banten 3 Lontar”.
- [22] S. Alfonso Nainggolan Program Studi Teknik Elektro Sekolah Tinggi Teknologi Pekanbaru Jl Dirgantara No, S. Tim, K. Marpoyan Damai, and K. Pekanbaru, “Analisa Peningkatan Nilai Net Plant Heat Rate (NPHR) pada Unit 1 PLTU Tenayan 2 x 110 MW,” vol. 8, no. 1, pp. 259–264, 2021.
- [23] R. Apriandi and A. Mursadin, “ANALISIS KINERJA TURBIN UAP BERDASARKAN PERFORMANCE TEST PLTU PT. INDOCEMENT P-12 TARJUN,” 2016.
- [24] A. Saputro, E. Wahuningsih, and D. Nusantara Jakarta, “ANALISIS KENAIKAN PLANT HEAT RATE PLTU SEBELUM PERBAIKAN BERKALA TERHADAP KONDISI TESTING KOMISIONING (Studi Kasus : PLTU XX),” 2020. [Online]. Available: <http://artikel-teknologi.com/siklus-rankine/>
- [25] Arif budiman, “13 Perhitungan Efisiensi (Efficiency) Mesin Boiler Jenis Fire-Tube Menggunakan Metode Direct Dan Indirect Untuk Produk Butiran-Butiran Pelet,” *Aji Abdillah*.
- [26] R. Nurhasanah and O. Firdaus, “Perbandingan Efisiensi Boiler Awal Operasi Dan Setelah Overhaul Terakhir Di Unit 5 PLTU Suralaya”.

- [27] M. Idris, A. Prasetyo Wibisono, I. Hermawan, and U. Novalia Harahap, “Analisis Pengaruh Ukuran Batubara Terhadap Performa PLTU dengan Jenis Boiler Tipe Chain Grate Analysis Coal Size Effect on Power Plant Performance with Chain Grate Type of Boiler,” *JMEMME*, vol. 6, no. 01, 2022, doi: 10.31289/jmemme.v6i1.5985.
- [28] D. Oleh, “TUGAS SARJANA ANALISA PENGARUH TURBIN HEAT RATE TERHADAP EFISIENSI TURBIN di PKS KAPASITAS 40 TON/JAM.”
- [29] A. Latifianto, Y. E. Prawatya, M. Ivanto, J. T. Mesin, and T. Mesin, ““ANALISIS PENGARUH PERUBAHAN TEKANAN KONDENSOR (VAKUM) TERHADAP EFESIENSI HEAT RATE TURBIN UAP DI PT. PJB (PEMBANGKIT JAWA BALI) PLTU KETAPANG 10 MW.””
- [30] P. Celen and H. Erdem, “A CASE STUDY FOR CALCULATION OF BOILER EFFICIENCY BY USING INDIRECT METHOD,” 2017.
- [31] S. W. Widodo, S. Saptadi, B. F. T. Kiono, and N. H. W. Firdaus, “Analysis of the effectiveness of coal fuel with palm shells on a steam boiler in PT. ICBP noodle division East Java,” in *AIP Conference Proceedings*, American Institute of Physics Inc., Mar. 2022. doi: 10.1063/5.0079236.
- [32] A. Raja, “Power Plant Engineering.”
- [33] A. R. Mallick, *Practical boiler operation engineering and power plant*.
- [34] thumann, younger, and Niehus, “Handbook of Energy Audits Eighth Edition,” 2010.
- [35] W. Sunarlik, “PRINSIP KERJA GENERATOR SINKRON.”
- [36] suriyan wibowo, “12 audit energi detail pada pltu batubara dengan membandingkan parameter operasi aktual dengan komisioning,” 2021.
- [37] A. Sugiharto, “PERHITUNGAN EFISIENSI BOILER DENGAN METODE SECARA LANGSUNG PADA BOILER PIPA API.”
- [38] G. Tirumala Srinivas, “Efficiency of a Coal Fired Boiler in a Typical Thermal Power Plant,” *American Journal of Mechanical and Industrial Engineering*, vol. 2, no. 1, p. 32, 2017, doi: 10.11648/j.ajmie.20170201.15.
- [39] “12 audit energi detail pada pltu batubara dengan membandingkan parameter operasi aktual dengan komisioning”.
- [40] G. T. Dhanre, U. T. Dhanre, and K. Mudafale Mtech Scholar, “Review Paper on Energy Audit of a Boiler in Thermal Power Plant,” *International Journal of Engineering Research and General Science*, vol. 2, no. 6, [Online]. Available: [www.ijergs.org](http://www.ijergs.org)

- [41] D. Oleh, “TUGAS SARJANA ANALISA PENGARUH TURBIN HEAT RATE TERHADAP EFISIENSI TURBIN di PKS KAPASITAS 40 TON/JAM.”
- [42] A. Saputro, E. Wahuningsih, and D. Nusantara Jakarta, “ANALISIS KENAIKAN PLANT HEAT RATE PLTU SEBELUM PERBAIKAN BERKALA TERHADAP KONDISI TESTING KOMISIONING (Studi Kasus : PLTU XX),” 2020. [Online]. Available: <http://artikel-teknologi.com/siklus-rankine/>
- [43] F. Febriansyah, R. M. Samporno, A. Thoriq, and S. D. N. Perwitasari, “Analisis Teknoekonomi Agrobisnis Taoge di Kecamatan Jatinangor Kabupaten Sumedang Jawa Barat,” *Jurnal Keteknikan Pertanian Tropis dan Biosistem*, vol. 9, no. 3, pp. 235–246, Dec. 2021, doi: 10.21776/ub.jkptb.2021.009.03.05.
- [44] T. Pertambangan, U. Trisakti, and J. Abstrak, “ANALISA KUALITAS BATUBARA TERHADAP EFISIENSI PEMBAKARAN PADA BOILER UNIT 1 PLTU SURALAYA, MERAK, BANTEN Marieta Riana.”
- [45] M. Sagaf, “Analisa faktor-faktor penyebab perubahan efisiensi boiler jenis pulverized coal fired forced circulation sub-critical pressure menggunakan metode tak langsung,” *Teknoin*, vol. 24, no. 2, pp. 147–158, Mar. 2018, doi: 10.20885/teknoin.vol24.iss2.art5.
- [46] T. Harijono Mulud, D. Prodi Teknik Konversi Energi Jurusan Teknik Mesin Politeknik Negeri Semarang, and D. H. Prodi Teknik Konversi Energi Jurusan Teknik Mesin Politeknik Negeri Semarang Jurusan Teknik Mesin Politeknik Negeri Semarang Jl Sudarto, “PENGARUH EXCESS AIR TERHADAP FLUE GAS DI PLTU TANJUNG JATI B UNIT 2,” 2015. [Online]. Available: <http://www.polines.ac.id>,
- [47] R. Pratama Sandi and M. Effendy, “Pengaruh Kualitas Batubara Terhadap Efisiensi Boiler PLTU Tipe CFB Dengan Metode ASME PTC 4 PENGARUH KUALITAS BATUBARA TERHADAP EFISIENSI BOILER TIPE CFB UNIT 3 PLTU JERANJANG LOMBOK BARAT DENGAN METODE ASME PTC 4.”
- [48] S. Nurfitria *et al.*, “ANALISIS DAMPAK OVERHAUL TERHADAP KINERJA TURBIN UAP DI PLTP DARAJAT”.