

DAFTAR PUSTAKA

- [1] IRENA, *World energy transitions outlook*. 2022.
- [2] N. K. Arora and I. Mishra, "COP26: more challenges than achievements," *Environ. Sustain.*, vol. 4, no. 4, pp. 585–588, 2021, doi: 10.1007/s42398-021-00212-7.
- [3] C. Tebaldi *et al.*, "Extreme sea levels at different global warming levels," *Nat. Clim. Chang.*, vol. 11, no. 9, pp. 746–751, 2021, doi: 10.1038/s41558-021-01127-1.
- [4] International Energy Agency, "International Energy Agency (IEA) World Energy Outlook 2022," [https://www.Iea.Org/Reports/World-Energy-Outlook-2022/Executive-Summary](https://www.iea.org/reports/world-energy-outlook-2022/executive-summary), p. 524, 2022, [Online]. Available: <https://www.iea.org/reports/world-energy-outlook-2022>.
- [5] A. Wyns and J. Beagley, "COP26 and beyond: long-term climate strategies are key to safeguard health and equity," *Lancet Planet. Heal.*, vol. 5, no. 11, pp. e752–e754, 2021, doi: 10.1016/S2542-5196(21)00294-1.
- [6] S. A. Suttles, W. E. Tyner, G. Shively, R. D. Sands, and B. Sohngen, "Economic effects of bioenergy policy in the United States and Europe: A general equilibrium approach focusing on forest biomass," *Renew. Energy*, vol. 69, pp. 428–436, 2014, doi: 10.1016/j.renene.2014.03.067.
- [7] C. Cheng, X. Ren, and Z. Wang, "The impact of renewable energy and innovation on carbon emission: An empirical analysis for OECD countries," *Energy Procedia*, vol. 158, pp. 3506–3512, 2019, doi: 10.1016/j.egypro.2019.01.919.
- [8] T. M. Letcher, *Why do we have global warming?* Elsevier Inc., 2018.
- [9] "Climate Change, Fossil-Fuel Pollution, and Children's Health Enhanced Reader.pdf."
- [10] J. Doh, P. Budhwar, and G. Wood, "Long-term energy transitions and international business: Concepts, theory, methods, and a research agenda," *J. Int. Bus. Stud.*, vol. 52, no. 5, pp. 951–970, 2021, doi: 10.1057/s41267-

021-00405-6.

- [11] A. Kalair, N. Abas, M. S. Saleem, A. R. Kalair, and N. Khan, “Role of energy storage systems in energy transition from fossil fuels to renewables,” *Energy Storage*, vol. 3, no. 1, pp. 1–27, 2021, doi: 10.1002/est2.135.
- [12] A. R. C. B. A. P. P. L. Chantika Salsabila Alarsah, Andi Faradilla Ayu Lestari, “Indonesia’s Presidency On G20 2022: Unpacking Its Digital Economic Diplomacy In Advancing Indonesian MSMES Digital Economic Transformation,” *J. Mandala J. Ilmu Hub. Int.*, pp. 244–277, 2022, doi: 10.33822/mjihi.v5i2.5116.
- [13] R. Purwati, H. Zakky Almubaroq, and E. Saptono, “Indonesia’s role in the G20 presidency during the conflict between Russia and Ukraine,” *Def. Secur. Stud.*, vol. 4, no. January, pp. 23–28, 2023, doi: 10.37868/dss.v4.id228.
- [14] “Role of head of states at G20 High Level Conference in utilizing environmental of sustainable development on electricity in Indonesia.pdf.” .
- [15] M. A. Berawi, “G20 Presidency of Indonesia: Collective and Inclusive Agendas for World Development,” *Int. J. Technol.*, vol. 13, no. 1, pp. 1–4, 2022, doi: 10.14716/ijtech.v13i1.5479.
- [16] PT. PLN (PERSERO), “Rencana Usaha Penyediaan Tenaga Listrik (RUPTL) PT PLN (Persero) 2021-2030.,” *Rencana Usaha Penyediaan Tenaga List. 2021-2030*, pp. 2019–2028, 2021.
- [17] BIRO FASILITASI KEBIJAKAN ENERGI DAN PERSIDANGAN, “Sekretariat Jenderal Dewan Energi Nasional Outlook Energi Indonesia 2022,” 2022.
- [18] Kementerian Hukum dan HAM, “RENCANA UMUM ENERGI NASIONAL LAMPIRAN 1 PERATURAN PRESIDEN REPUBLIK INDONESIA,” 2017.
- [19] I. Akbar, D. Arisaktiwardhana, and P. Naomi, “How does Indonesian scientific production on renewable energy successfully support the policy

- design? A journey towards sustainable energy transition | W jaki sposób rozwój indonezyjskiej nauki w zakresie odnawialnych źródeł energii skutecznie wspiera pro,” *Probl. Ekorozwoju*, vol. 15, no. 2, pp. 41–52, 2020.
- [20] D. Kusdiana, “BIOMASSA MENUJU NETT ZERO,” pp. 1–10, 2022.
- [21] S. W. Yudha and B. Tjahjono, “Stakeholder mapping and analysis of the renewable energy industry in Indonesia,” *Energies*, vol. 12, no. 4, pp. 1–19, 2019, doi: 10.3390/en12040602.
- [22] R. Agung Wahyuono and M. Magenika Julian, “Revisiting Renewable Energy Map in Indonesia: Seasonal Hydro and Solar Energy Potential for Rural Off-Grid Electrification (Provincial Level),” *MATEC Web Conf.*, vol. 164, pp. 1–11, 2018, doi: 10.1051/mateconf/201816401040.
- [23] D. S. Primadita, I. N. S. Kumara, and W. G. Ariastina, “A Review on Biomass for Electricity Generation in Indonesia,” *J. Electr. Electron. Informatics*, vol. 4, no. 1, p. 1, 2020, doi: 10.24843/jeei.2020.v04.i01.p01.
- [24] W. E. M. Hughes and E. D. Larson, “Effect of fuel *moisture content* on biomass-IGCC performance,” *Proc. ASME Turbo Expo*, vol. 2, no. July 1998, pp. 455–459, 1997, doi: 10.1115/97-GT-004.
- [25] M. Issa, H. Ibrahim, R. Lepage, and A. Ilinca, “A Review and Comparison on Recent Optimization Methodologies for Diesel Engines and Diesel Power Generators,” *J. Power Energy Eng.*, vol. 07, no. 06, pp. 31–56, 2019, doi: 10.4236/jpee.2019.76003.
- [26] D. C. Bianchini and F. J. Simioni, “Economic and risk assessment of industrial wood chip drying,” *Sustain. Energy Technol. Assessments*, vol. 44, p. 101016, Apr. 2021, doi: 10.1016/J.SETA.2021.101016.
- [27] H. W. Lee, “Study on the estimation of drying time of biomass: 1. Larch wood chip,” *J. Korean Wood Sci. Technol.*, vol. 43, no. 2, pp. 186–195, 2015, doi: 10.5658/WOOD.2015.43.2.186.
- [28] J. P. Wolf, “Biomass combustion for power generation: an introduction,” *Biomass Combust. Sci. Technol. Eng.*, pp. 3–8, Jan. 2013, doi:

- 10.1533/9780857097439.1.3.
- [29] Z. A. Khan, D. Jayaweera, and M. S. Alvarez-Alvarado, “A novel approach for load profiling in smart power grids using smart meter data,” *Electr. Power Syst. Res.*, vol. 165, no. January, pp. 191–198, 2018, doi: 10.1016/j.epsr.2018.09.013.
- [30] P. Dehning, S. Blume, A. Dér, D. Flick, C. Herrmann, and S. Thiede, “Load profile analysis for reducing energy demands of production systems in non-production times,” *Appl. Energy*, vol. 237, no. December 2018, pp. 117–130, 2019, doi: 10.1016/j.apenergy.2019.01.047.
- [31] G. Trotta, “An empirical analysis of domestic electricity load profiles: Who consumes how much and when?,” *Appl. Energy*, vol. 275, no. January, p. 115399, 2020, doi: 10.1016/j.apenergy.2020.115399.
- [32] W. Drożdż, O. Mróz-Malik, and M. Kopiczko, “The future of the polish energy mix in the context of social expectations,” *Energies*, vol. 14, no. 17, 2021, doi: 10.3390/en14175341.
- [33] J. C. Smith and C. Clark, “The future’s energy mix: The journey to integration,” *IEEE Power Energy Mag.*, vol. 17, no. 6, pp. 19–23, 2019, doi: 10.1109/MPE.2019.2933283.
- [34] J. P. Simanjuntak, K. A. Al-attab, E. Daryanto, B. H. Tambunan, and Eswanto, “Bioenergy as an Alternative Energy Source: Progress and Development to Meet the Energy Mix in Indonesia,” *J. Adv. Res. Fluid Mech. Therm. Sci.*, vol. 97, no. 1, pp. 85–104, 2022, doi: 10.37934/arfmts.97.1.85104.
- [35] Z. Said, A. A. Alshehhi, and A. Mehmood, “Predictions of UAE’s renewable energy mix in 2030,” *Renew. Energy*, vol. 118, pp. 779–789, 2018, doi: 10.1016/j.renene.2017.11.075.
- [36] M. Guo, W. Song, and J. Buhain, “Bioenergy and biofuels: History, status, and perspective,” *Renew. Sustain. Energy Rev.*, vol. 42, pp. 712–725, 2015, doi: 10.1016/j.rser.2014.10.013.
- [37] X. Zhao, Q. Cai, S. Li, and C. Ma, “Public preferences for biomass

- electricity in China,” *Renew. Sustain. Energy Rev.*, vol. 95, no. December 2017, pp. 242–253, 2018, doi: 10.1016/j.rser.2018.07.017.
- [38] D. Gielen, F. Boshell, D. Saygin, M. D. Bazilian, N. Wagner, and R. Gorini, “The role of renewable energy in the global energy transformation,” *Energy Strateg. Rev.*, vol. 24, no. June 2018, pp. 38–50, 2019, doi: 10.1016/j.esr.2019.01.006.
- [39] B. Fattouh, R. Poudineh, and R. West, “Oxford Institute for Energy Studies Report Part Title: Energy transition Report Title: The rise of renewables and energy transition: Report Subtitle: what adaptation strategy for oil companies and oil-exporting countries?,” p. 45, 2023.
- [40] O. Kaplan and C. Celik, “An experimental research on *woodchip* drying using a screw conveyor dryer,” *Fuel*, vol. 215, pp. 468–473, Mar. 2018, doi: 10.1016/J.FUEL.2017.11.098.
- [41] P. N. Anisimov, E. M. Onuchin, M. M. Vishnevskaya, J. N. Sidyganov, and A. A. Medjakov, “The study of biomass *moisture content* impact on the efficiency of a power-producing unit with a gasifier and the stirling engine,” *J. Appl. Eng. Sci.*, vol. 14, no. 3, pp. 401–408, 2016, doi: 10.5937/jaes14-11010.
- [42] I. Wästerlund, P. Nilsson, and R. Gref, “Influence of storage on properties of wood chip material,” *J. For. Sci.*, vol. 63, no. 4, pp. 182–191, 2017, doi: 10.17221/46/2016-JFS.
- [43] T. L. Deboni, F. J. Simioni, J. de A. do Rosário, and V. J. Costa, “Quality of biomass from old wood waste deposits in Southern Brazil,” *Biomass and Bioenergy*, vol. 143, no. November, 2020, doi: 10.1016/j.biombioe.2020.105841.
- [44] N. Pedišius, M. Praspaliauskas, J. Pedišius, and E. F. Dzenajavičienė, “Analysis of Wood Chip Characteristics for Energy Production in Lithuania,” *Energies*, vol. 14, no. 13, p. 3931, Jun. 2021, doi: 10.3390/en14133931.
- [45] A. Del Giudice *et al.*, “Wood Chip Drying through the Using of a Mobile

- Rotary Dryer,” *Energies*, vol. 12, no. 9, p. 1590, Apr. 2019, doi: 10.3390/en12091590.
- [46] S. A. Qadir, H. Al-Motairi, F. Tahir, and L. Al-Fagih, “Incentives and strategies for financing the renewable energy transition: A review,” *Energy Reports*, vol. 7, pp. 3590–3606, 2021, doi: 10.1016/j.egyr.2021.06.041.
- [47] I. Khan, F. Hou, A. Zakari, and V. K. Tawiah, “The dynamic links among energy transitions, energy consumption, and sustainable economic growth: A novel framework for IEA countries,” *Energy*, vol. 222, p. 119935, 2021, doi: 10.1016/j.energy.2021.119935.
- [48] B. Mola-Yudego *et al.*, “Wood biomass potentials for energy in northern Europe: Forest or plantations?,” *Biomass and Bioenergy*, vol. 106, pp. 95–103, 2017, doi: 10.1016/j.biombioe.2017.08.021.
- [49] L. Gustavsson, T. Nguyen, R. Sathre, and U. Y. A. Tettey, “Climate effects of forestry and substitution of concrete buildings and fossil energy,” *Renew. Sustain. Energy Rev.*, vol. 136, no. September 2020, p. 110435, 2021, doi: 10.1016/j.rser.2020.110435.
- [50] C. Cambero and T. Sowlati, “Assessment and optimization of forest biomass supply chains from economic, social and environmental perspectives – A review of literature,” *Renew. Sustain. Energy Rev.*, vol. 36, pp. 62–73, Aug. 2014, doi: 10.1016/J.RSER.2014.04.041.
- [51] M. A. da S. Miranda, G. B. de D. Ribeiro, S. R. Valverde, and C. Isbaex, “Eucalyptus sp. *WOODCHIP* POTENTIAL FOR INDUSTRIAL THERMAL ENERGY PRODUCTION1,” *Rev. Árvore*, vol. 41, no. 6, 2017, doi: 10.1590/1806-90882017000600004.
- [52] G. B. de Deus Ribeiro, M. A. de Magalhães, F. R. S. Batista, M. A. da Silva Miranda, S. R. Valverde, and A. de Cássia de Oliveira Carneiro, “EVALUATION OF Eucalyptus *WOODCHIP* UTILIZATION AS FUEL FOR THERMAL POWER PLANTS0,” *Maderas Cienc. y Tecnol.*, vol. 23, no. 23, pp. 1–12, 2021, doi: 10.4067/s0718-221x2021000100429.
- [53] N. S. Wahyuni and J. Sulistyono, “Fuelwood Characteristics of Five Species

- Grown in Merauke Forest,” *Wood Res. J.*, vol. 7, no. 1, pp. 13–17, 2021, doi: 10.51850/wrj.2016.7.1.13-17.
- [54] B. Patro, “Efficiency studies of combination tube boilers,” *Alexandria Eng. J.*, vol. 55, no. 1, pp. 193–202, 2016, doi: 10.1016/j.aej.2015.12.007.
- [55] F. Mermoud, A. Haroutunian, J. Faessler, and B. Lachal, “Impact of load variations on wood boiler efficiency and emissions,” *Arch. Des Sci.*, vol. 41, no. 0, pp. 27–38, 2015.
- [56] A. Muchtar, “Analisis Emisi Co2 Pltp Ulubelu Lampung Dan Kontribusinya Terhadap Pengembangan Pembangkit Listrik Di Provinsi Lampung,” *J. Pengelolaan Sumberd. Alam dan Lingkung. (Journal Nat. Resour. Environ. Manag.*, vol. 9, no. 2, pp. 288–303, 2019, doi: 10.29244/jpsl.9.2.288-303.
- [57] A. Ilari, D. Duca, K. A. Boakye-Yiadom, T. Gasperini, and G. Toscano, “Carbon Footprint and Feedstock Quality of a Real Biomass Power Plant Fed with Forestry and Agricultural Residues,” *Resources*, vol. 11, no. 2, 2022, doi: 10.3390/resources11020007.
- [58] M. Lieskovský, M. Jankovský, M. Trenčiansky, J. Merganič, and J. Dvořák, “Ash content vs. the Economics of Using Wood Chips for Energy: Model Based on Data from Central Europe,” *BioResources*, vol. 12, no. 1, pp. 1579–1592, 2017, doi: 10.15376/biores.12.1.1579-1592.
- [59] T. Moskalik, “Production of Chips from Logging Residues and Their Quality for Energy : A Review of European Literature,” vol. 2010, pp. 1–14, 2020, doi: 10.3390/f10030262.