

DAFTAR PUSTAKA

- Abdel-Baset, M., Chang, V., Gamal, A., & Smarandache, F. (2019). An integrated neutrosophic ANP and VIKOR method for achieving sustainable supplier selection: A case study in importing field. In *Computers in Industry* (Vol. 106, pp. 94–110). Elsevier B.V. <https://doi.org/10.1016/j.compind.2018.12.017>
- Abdelhafidi, N., Bachari, N. E. I., Abdelhafidi, Z., Cheknane, A., Mokhnache, A., & Castro, L. (2020). Modeling of integrated solar combined cycle power plant (ISCC) of Hassi R'mel, Algeria. *International Journal of Energy Sector Management*, 14(3), 505–526. <https://doi.org/10.1108/IJESM-08-2018-0013>
- Afif dan, F., & Martin, A. (2022). Tinjauan Potensi dan Kebijakan Energi Surya di Indonesia. *Jurnal Engine: Energi, Manufaktur Dan Material*, 6(1), 43–52.
- Agarwal, A. (2024). FAlloc: A Fair Power Limit Allocation-Based Approach to Implement Brownout. *Journal of Control, Automation and Electrical Systems*, 35(2), 361–375. <https://doi.org/10.1007/s40313-024-01077-x>
- Agarwal, A., & Khandeparkar, K. (2021). Distributing power limits: Mitigating blackout through brownout. *Sustainable Energy, Grids and Networks*, 26. <https://doi.org/10.1016/j.segan.2021.100451>
- Ahmad, A., Jrad, F., & Makia, S. (2023). A Data-driven Approach to Supplier Selection in Industrial Construction Projects. *The Journal of Duhok University*, 26(2), 201–215. <https://doi.org/10.26682/csjuod.2023.26.2.20>
- Ahsan, M. (2021). Tantangan dan Peluang Pembangunan Proyek Pembangkit Listrik Energi Baru Terbarukan (EBT) di Indonesia. *SUTET*, 11(2), 81–93. <https://doi.org/10.33322/sutet.v11i2.1575>
- Akhmad, K. (2005). PEMBANGKIT LISTRIK TENAGA SURYA DAN PENERAPANNYA UNTUK DAERAH TERPENCIL. *Dinamika Rekayasa*, 1(1), 28–33.
- Akrami, A., Doostizadeh, M., & Aminifar, F. (2019). Power system flexibility: an overview of emergence to evolution. In *Journal of Modern Power Systems and Clean Energy* (Vol. 7, Issue 5, pp. 987–1007). Springer Heidelberg. <https://doi.org/10.1007/s40565-019-0527-4>

- Alhammad, A., Sun, Q., & Tao, Y. (2022). Optimal Solar Plant Site Identification Using GIS and Remote Sensing: Framework and Case Study. *Energies*, 15(1). <https://doi.org/10.3390/en15010312>
- Arinaitwe, A., Bagire, V., Tukamuhabwa, B., & Sulait, T. (2023). Energy management in small and medium manufacturing firms: examining the enhancing role of top management commitment in a developing country context. *International Journal of Energy Sector Management*. <https://doi.org/10.1108/IJESM-05-2023-0017>
- Atteridge, A., & Savvidou, G. (2019). Development aid for energy in Small Island Developing States. *Energy, Sustainability and Society*, 9(1). <https://doi.org/10.1186/s13705-019-0194-3>
- Authors, F. (2016). *Integrating sustainability into strategic supplier portfolio selection Article information: Users who downloaded this article also downloaded: About Emerald www.emeraldinsight.com Integrating sustainability into strategic supplier portfolio selection.*
- Awad, A. S. A., El-Fouly, T. H. M., & Salama, M. M. A. (2014). Optimal distributed generation allocation and load shedding for improving distribution system reliability. *Electric Power Components and Systems*, 42(6), 576–584. <https://doi.org/10.1080/15325008.2014.880962>
- Awaniah, N., Sulfiana, Nuehaedaj, Jamaluddin, & A. Aminullah. (2024). Peran Infrastruktur Dalam Mendorong Pertumbuhan Ekonomi dan Peningkatan Kualitas Hidup Masyarakat. *Jurnal Review Pendidikan Dan Pengajaran*, 7, 6847–6854.
- Ayu Arsita, S., Eko Saputro, G., & Susanto, S. (2021). Perkembangan Kebijakan Energi Nasional dan Energi Baru Terbarukan Indonesia. *Jurnal Syntax Transformation*, 2(12), 1779–1788. <https://doi.org/10.46799/jst.v2i12.473>
- Bahari, M. I. A. T., Supriyadi, S., Pryambodo, D. G., & Prihantono, J. (2022). Identification of Groundwater Using Geoelectrical Method VES (Vertical Electrical Sounding) in Karimunjawa City, Central Java. *Journal of Physics: Conference Series*, 2392(1). <https://doi.org/10.1088/1742-6596/2392/1/012003>
- Bhowmik, C., Bhowmik, S., Ray, A., & Pandey, K. M. (2017). Optimal green energy planning for sustainable development: A review. In *Renewable and*

- Sustainable Energy Reviews* (Vol. 71, pp. 796–813). Elsevier Ltd. <https://doi.org/10.1016/j.rser.2016.12.105>
- Borodinecs, A., Zajecs, D., Lebedeva, K., & Bogdanovics, R. (2022). Mobile Off-Grid Energy Generation Unit for Temporary Energy Supply. *Applied Sciences (Switzerland)*, 12(2). <https://doi.org/10.3390/app12020673>
- Bošnjaković, M., & Tadijanović, V. (2019). Environment impact of a concentrated solar power plant. *Tehnički Glasnik*, 13(1), 68–74. <https://doi.org/10.31803/tg-20180911085644>
- Busby, J. W., Baker, K., Bazilian, M. D., Gilbert, A. Q., Grubert, E., Rai, V., Rhodes, J. D., Shidore, S., Smith, C. A., & Webber, M. E. (2021). Cascading risks: Understanding the 2021 winter blackout in Texas. In *Energy Research and Social Science* (Vol. 77). Elsevier Ltd. <https://doi.org/10.1016/j.erss.2021.102106>
- Carlisle, J. E., Solan, D., Kane, S. L., & Joe, J. (2016). Utility-scale solar and public attitudes toward siting: A critical examination of proximity. *Land Use Policy*, 58, 491–501. <https://doi.org/10.1016/j.landusepol.2016.08.006>
- Cinantya, P., Widiastuti, H., & Lumombo, L. (2024). Studi Kelayakan Pembangunan Pembangkit Listrik Tenaga Surya Terapung pada Waduk Sumber Air Minum di Batam. *JPII*, 2(2), 65–70. <https://doi.org/10.14710/jpii.2024.21723>
- Creswell, J. W. (2009). *Research Design Qualitative, Quantitative, and Mixed Methodes Approaches* (3rd ed.). SAGE Publications, Inc.
- Creswell, W. J., & Creswell, J. D. (2018). Research Design: Qualitative, Quantitative and Mixed Methods Approaches. In *Journal of Chemical Information and Modeling* (Vol. 53, Issue 9). [file:///C:/Users/Harrison/Downloads/John W. Creswell & J. David Creswell - Research Design_ Qualitative, Quantitative, and Mixed Methods Approaches \(2018\).pdf](file:///C:/Users/Harrison/Downloads/John%20W.%20Creswell%20%26%20J.%20David%20Creswell%20-%20Research%20Design_%20Qualitative,%20Quantitative,%20and%20Mixed%20Methods%20Approaches%20(2018).pdf)
[file:///C:/Users/Harrison/AppData/Local/Mendeley Ltd./Mendeley Desktop/Downloaded/Creswell, Cr](file:///C:/Users/Harrison/AppData/Local/Mendeley%20Ltd./Mendeley%20Desktop/Downloaded/Creswell,%20Cr)
- de Nooij, M., Lieshout, R., & Koopmans, C. (2009). Optimal blackouts: Empirical results on reducing the social cost of electricity outages through efficient regional rationing. *Energy Economics*, 31(3), 342–347. <https://doi.org/10.1016/j.eneco.2008.11.004>

- Destiana, I., Raina, P., & Sari, L. (2020). *ANALISIS PENGARUH PEMADAMAN LISTRIK SECARA BERKALA SERTA PENGGUNAAN GENSET TERHADAP KEGIATAN USAHA MIKRO DI KECAMATAN MEDAN BARU*. www.sumut.kadinprovinsi.or.id
- Do, T. N., Burke, P. J., Baldwin, K. G. H., & Nguyen, C. T. (2020). Underlying drivers and barriers for solar photovoltaics diffusion: The case of Vietnam. *Energy Policy*, *144*. <https://doi.org/10.1016/j.enpol.2020.111561>
- Dutu, R. (2016). Challenges and policies in Indonesia's energy sector. *Energy Policy*, *98*, 513–519. <https://doi.org/10.1016/j.enpol.2016.09.009>
- Espinosa, V. I., Peña-Ramos, J. A., & Recuero-López, F. (2021). The political economy of rent-seeking: Evidence from Spain's support policies for renewable energy. *Energies*, *14*(14). <https://doi.org/10.3390/en14144197>
- Falentina, A. T., & Resosudarmo, B. P. (2019). The impact of blackouts on the performance of micro and small enterprises: Evidence from Indonesia. *World Development*, *124*. <https://doi.org/10.1016/j.worlddev.2019.104635>
- Feinberg, B., & Zanardi, M. (2015). *ANALYSIS OF THE INFLUENCE OF OPERATIONAL COSTS ON INCREASING THE FINANCIAL PERFORMANCE OF AMERICAN PUBLIC HEALTH CORPORATION*. <https://medalionjournal.com/>
- Filippov, S. P., Malakhov, V. A., & Veselov, F. V. (2021). Long-Term Energy Demand Forecasting Based on a Systems Analysis. *Thermal Engineering*, *68*(12), 881–894. <https://doi.org/10.1134/S0040601521120041>
- Ghodoosi, F., Abu-Samra, S., Zeynalian, M., & Zayed, T. (2018). Maintenance Cost Optimization for Bridge Structures Using System Reliability Analysis and Genetic Algorithms. *Journal of Construction Engineering and Management*, *144*(2). [https://doi.org/10.1061/\(asce\)co.1943-7862.0001435](https://doi.org/10.1061/(asce)co.1943-7862.0001435)
- Gonen, T. (1988). *ELECTRIC POWER TRANSMISSION SYSTEM ENGINEERING Analysis and Design*.
- Gürtürk, M. (2019). Economic feasibility of solar power plants based on PV module with levelized cost analysis. *Energy*, *171*, 866–878. <https://doi.org/10.1016/j.energy.2019.01.090>

- Hermanto, D., & Ardianto, F. (2020). Model Lagrange Multiplier Pada Pembangkit Listrik Tenaga Gas Sektor Keramasan Untuk Pemakaian Bahan Bakar. *JURNAL SURYA ENERGY*, 4(2), 381. <https://doi.org/10.32502/jse.v4i2.1885>
- Heru Kuncoro, A., Santosa, J., Fitriana, I., Nurrohim, A., Sugiyono, A., Djubaedah, E., Nurliyanti, V., Niode, N., & Trie Wijaya, P. (2024). Towards Net Zero Emission in Indonesia: Strategic Fuel Demand Analysis for Sustainable Electricity (2022-2060). In *EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy* (Vol. 11).
- Heydari, M., Heydari, A., & Amini, M. (2023). Solar Power Generation and Sustainable Energy: A Review. In *International Journal of Technology and Scientific Research* (Vol. 12). <https://ssrn.com/abstract=4515923>
- Hunt., J. D., Stilpen, D., & de Freitas, M. A. V. (2018). A review of the causes, impacts and solutions for electricity supply crises in Brazil. In *Renewable and Sustainable Energy Reviews* (Vol. 88, pp. 208–222). Elsevier Ltd. <https://doi.org/10.1016/j.rser.2018.02.030>
- Hunter, H. M., Mahendra, S., & Sila Dharma, I. G. B. (2017). EFEKTIVITAS PENERAPAN AMDAL DALAM PENGELOLAAN LINGKUNGAN HIDUP PADA PEMBANGKIT LISTRIK DI BALI-STUDI KASUS PLTD/G PESANGGARAN. *ECOTROPHIC*, 11, 62.
- Islam, M. M., Yu, T., Giannoccaro, G., Mi, Y., Scala, M. La, Rajabi, M. N., & Wang, J. (2024). Improving Reliability and Stability of the Power Systems: A Comprehensive Review on the Role of Energy Storage Systems to Enhance Flexibility. In *IEEE Access*. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ACCESS.2024.3476959>
- Ismanto, A., Ismunarti, D. H., Sugianto, D. N., Maisyarah, S., Subardjo, P., Dwi Suryoputro, A. A., & Siagian, H. (2019a). The potential of ocean current as electrical power sources alternatives in Karimunjawa Islands Indonesia. *Advances in Science, Technology and Engineering Systems*, 4(6), 126–133. <https://doi.org/10.25046/aj040615>
- Ismanto, A., Ismunarti, D. H., Sugianto, D. N., Maisyarah, S., Subardjo, P., Dwi Suryoputro, A. A., & Siagian, H. (2019b). The potential of ocean current as electrical power sources alternatives in Karimunjawa Islands Indonesia. *Advances in Science, Technology and Engineering Systems*, 4(6), 126–133. <https://doi.org/10.25046/aj040615>

- Jalo, N., Johansson, I., Andrei, M., Nehler, T., & Thollander, P. (2021). Barriers to and drivers of energy management in Swedish SMEs. *Energies*, *14*(21). <https://doi.org/10.3390/en14216925>
- Jiabal Hoque, M. D., Kabir, S., & Kamal Hossain, M. D. (2018). Electricity Crisis of Bangladesh and A New Low Cost Electricity Production System to Overcome this Crisis. *International Journal of Scientific and Research Publications (IJSRP)*, *8*(7). <https://doi.org/10.29322/ijsrp.8.7.2018.p7933>
- Kaiser, N., & Barstow, C. K. (2022). Rural Transportation Infrastructure in Low- and Middle-Income Countries: A Review of Impacts, Implications, and Interventions. In *Sustainability (Switzerland)* (Vol. 14, Issue 4). MDPI. <https://doi.org/10.3390/su14042149>
- Kaplan, S. (2008). *Power Plants: Characteristics and Costs*.
- Kautsary, J. (n.d.). *The 3rd International Conference on Coastal and Delta Areas- PROCEEDINGS 625 ICCDA#3 Problem, Solution and Development of Coastal and Delta Areas Public Infrastructure Problem For Developing Tourism Destinations In Coastal And Small Islands Areas Case Study In Karimunjawa Archipelago*.
- Kaya Samut, P. (2017). Integrated FANP-f-MIGP model for supplier selection in the renewable energy sector. *Journal of Business Economics and Management*, *18*(3), 427–450. <https://doi.org/10.3846/16111699.2017.1325777>
- Kepner, C. H., & Tregoe, B. B. (1981). *The New Rational Manager*.
- Khan, T., Yu, M., & Waseem, M. (2022). Review on recent optimization strategies for hybrid renewable energy system with hydrogen technologies: State of the art, trends and future directions. In *International Journal of Hydrogen Energy* (Vol. 47, Issue 60, pp. 25155–25201). Elsevier Ltd. <https://doi.org/10.1016/j.ijhydene.2022.05.263>
- Khani, D., Sadeghi Yazdankhah, A., & Madadi Kojabadi, H. (2012). Impacts of distributed generations on power system transient and voltage stability. *International Journal of Electrical Power and Energy Systems*, *43*(1), 488–500. <https://doi.org/10.1016/j.ijepes.2012.06.007>
- Kissling, M. T., & Calabrese Barton, A. (2013). *Interdisciplinary Study of the Local Power Plant: Cultivating Ecological Citizens* (Vol. 8). www.socstrp.org

- Komal. (2019). Fuzzy reliability analysis of the compressor house unit (CHU) system in a coal fired thermal power plant using TBGFLT technique. *International Journal of Quality and Reliability Management*, 36(5), 686–707. <https://doi.org/10.1108/IJQRM-07-2017-0123>
- Kotler, P. (2000). *Marketing Management, Millenium Edition*. www.pearsoncustom.com
- Levine Rose, S., & Calabrese Barton, A. (2012). Should great lakes city build a new power plant? How youth navigate socioscientific issues. *Journal of Research in Science Teaching*, 49(5), 541–567. <https://doi.org/10.1002/tea.21017>
- Li, C., Kang, Z., Yu, H., Wang, H., & Li, K. (2024). Research on Energy Optimization Method of Multi-microgrid System Based on the Cooperative Game Theory. *Journal of Electrical Engineering and Technology*. <https://doi.org/10.1007/s42835-024-01806-x>
- Liu, J., Xu, F., & Lin, S. (2017). Site selection of photovoltaic power plants in a value chain based on grey cumulative prospect theory for sustainability: A case study in Northwest China. *Journal of Cleaner Production*, 148, 386–397. <https://doi.org/10.1016/j.jclepro.2017.02.012>
- Luburić, Z., Pandžić, H., Plavšić, T., Teklić, L., & Valentić, V. (2018). Role of energy storage in ensuring transmission system adequacy and security. *Energy*, 156, 229–239. <https://doi.org/10.1016/j.energy.2018.05.098>
- Lukas, O. :, & Dwiatmanto, J. (2015). PEMBANGKIT LISTRIK TENAGA PANAS BUMI (PLTP) DAN KENDALA PEMBANGUNANNYA. *ORBITH*, 11, 60–67.
- Maka, A. O. M., & Alabid, J. M. (2022). Solar energy technology and its roles in sustainable development. *Clean Energy*, 6(3), 476–483. <https://doi.org/10.1093/ce/zkac023>
- Marzban, E., Firoozpour, A., & Marzban, M. (2023). Electricity as a common good/resource: a scenario based approach. *International Journal of Energy Sector Management*, 17(3), 510–530. <https://doi.org/10.1108/IJESM-08-2021-0020>
- Marzouk, M. A., Fischer, L. K., & Salheen, M. A. (2024). Factors affecting the social acceptance of agricultural and solar energy systems: The case of new

- cities in Egypt. *Ain Shams Engineering Journal*, 15(6).
<https://doi.org/10.1016/j.asej.2024.102741>
- Maulidia, M., Dargusch, P., Ashworth, P., & Ardiansyah, F. (2019). Rethinking renewable energy targets and electricity sector reform in Indonesia: A private sector perspective. In *Renewable and Sustainable Energy Reviews* (Vol. 101, pp. 231–247). Elsevier Ltd. <https://doi.org/10.1016/j.rser.2018.11.005>
- McNeil, M. A., Karali, N., & Letschert, V. (2019). Forecasting Indonesia's electricity load through 2030 and peak demand reductions from appliance and lighting efficiency. *Energy for Sustainable Development*, 49, 65–77. <https://doi.org/10.1016/j.esd.2019.01.001>
- Mehedi, H. (2022). *BPDB Trapped by Expensive Rental Power Plants Rental and Quick Power Plants must be phased out as soon as possible.*
- Mezghani, I., & Ben Haddad, H. (2017). Energy consumption and economic growth: An empirical study of the electricity consumption in Saudi Arabia. In *Renewable and Sustainable Energy Reviews* (Vol. 75, pp. 145–156). Elsevier Ltd. <https://doi.org/10.1016/j.rser.2016.10.058>
- Miles, M. B., Huberman, A. M., & Saldana, J. (2014). *Qualitative Data Analysis A Methods Sourcebooks* (3rd ed.). SAGE Publications, Inc.
- Mirjat, N. H., Uqaili, M. A., Harijan, K., Valasai, G. Das, Shaikh, F., & Waris, M. (2017). A review of energy and power planning and policies of Pakistan. In *Renewable and Sustainable Energy Reviews* (Vol. 79, pp. 110–127). Elsevier Ltd. <https://doi.org/10.1016/j.rser.2017.05.040>
- Mori, A. (2020). Foreign actors, faster transitions? Co-evolution of complementarities, perspectives and sociotechnical systems in the case of Indonesia's electricity supply system. *Energy Research and Social Science*, 69. <https://doi.org/10.1016/j.erss.2020.101594>
- Mortensen, L., Hansen, A. M., & Shestakov, A. (2017). How three key factors are driving and challenging implementation of renewable energy systems in remote Arctic communities. *Polar Geography*, 40(3), 163–185. <https://doi.org/10.1080/1088937X.2017.1329758>
- Mou, Y., Wang, B., & Shen, Z. (2023). An optimization scheme for designing power rationing schedules in a long-term power shortage. *Electric Power Systems Research*, 225. <https://doi.org/10.1016/j.epsr.2023.109816>

- Muljiyanto, W. P., Wiyoga, B. R. putri, Wartana, I. M., & Sulistiawati, I. B. (2024). Kelayakan Finansial Pembangunan Pembangkit Listrik Tenaga Hybrid di Sanggar Kota Batu, Jawa Timur. *Jurnal Teknik Energi Elektrik, Teknnik Telekomunikasi & Teknik Elektronilka*, 12, 1063–1073.
- Mustafa, M., & Malik, M. O. F. (2023). Factors Hindering Solar Photovoltaic System Implementation in Buildings and Infrastructure Projects: Analysis through a Multiple Linear Regression Model and Rule-Based Decision Support System. *Buildings*, 13(7). <https://doi.org/10.3390/buildings13071786>
- Mwanza, M., & Ulgen, K. (2020). Sustainable electricity generation fuel mix analysis using an integration of multicriteria decision-making and system dynamic approach. *International Journal of Energy Research*, 44(12), 9560–9585. <https://doi.org/10.1002/er.5216>
- Naimah, D. Y. N., Novitasari, D., Indartono, Y. S., & Wulandari, E. (2020). Technoeconomic and environment assessment of rural electrification using solar photovoltaic (Case study in Parang Island, Indonesia). *International Journal of Smart Grid and Clean Energy*, 383–389. <https://doi.org/10.12720/sgce.9.2.383-389>
- Nasir, M. N., & Bengi, K. S. (2024). The energy mix dilemma in Indonesia in achieving net zero emissions by 2060. *ASEAN Natural Disaster Mitigation and Education Journal*, 2(1). <https://doi.org/10.61511/andmej.v2i1.2024.951>
- Nasrullah, M., Arnold, Y., & Soetrisnanto. (1999). Penerapan Model Pendanaan Sewa-Beli untuk Pembangunan Pembangkit Listrik di Indonesia. *Jurnal Pengembangan Energi Nuklir*, 1, 131–141.
- Novitasari, D., Salis, F. R., Budiarto, R., & Sarjiya. (2020, October 20). Challenges in Using Renewable Energy for Islands in Indonesia: A Case Study of Karimunjawa. *Proceedings of the 2020 International Conference and Utility Exhibition on Energy, Environment and Climate Change, ICUE 2020*. <https://doi.org/10.1109/ICUE49301.2020.9307078>
- Nurjanah, N., & Fatmawati, I. (2020). ANALISIS PEMILIHAN VENDOR MENGGUNAKAN METODE ANALYTICAL HIERARCHY PROCESS (AHP) (Studi Kasus Pada PT BUKIT ASAM UNIT TARAHAN). *Jurnal Logistik Bisnis*, 10(2). <https://ejurnal.poltekpos.ac.id/index.php/logistik/index>

- Nuwa, A. M., Ballo, F. W., & Tiwu, M. I. H. (2024). Dampak Pembangunan PLTU Ropa Terhadap Pembangunan Berkelanjutan Di Desa Keliwumbu Kecamatan Maurole Kabupaten Ende. *Jurnal Ekonomi Pembangunan*, 6, 37.
- Okika, M. C., Vermeulen, A., & Pretorius, J. H. C. (2024). A systematic approach to identify and manage supply chain risks in construction projects. *Journal of Financial Management of Property and Construction*. <https://doi.org/10.1108/JFMPC-09-2023-0057>
- Okwanya, I., Alhassan, A., Migap, J. P., & Adeka Sunday, S. (2021). Evaluating renewable energy choices among rural communities in Nigeria. An insight for energy policy. *International Journal of Energy Sector Management*, 15(1), 157–172. <https://doi.org/10.1108/IJESM-12-2019-0001>
- Ozdemir, S., & Sahin, G. (2018). Multi-criteria decision-making in the location selection for a solar PV power plant using AHP. *Measurement: Journal of the International Measurement Confederation*, 129, 218–226. <https://doi.org/10.1016/j.measurement.2018.07.020>
- Papapostolou, C. M., Kondili, E. M., Zafirakis, D. P., & Tzanes, G. T. (2020). Sustainable water supply systems for the islands: The integration with the energy problem. *Renewable Energy*, 146, 2577–2588. <https://doi.org/10.1016/j.renene.2019.07.130>
- Paryono, P., Absori, A., Dimiyati, K., Basri, M., & Rismawati, S. D. (2020). Liberalization and electricity policy changes: Problems and challenges in the electricity sector in indonesia. *International Journal of Energy Economics and Policy*, 10(1), 170–177. <https://doi.org/10.32479/ijeep.8636>
- Pasimeni, M. R., Petrosillo, I., Aretano, R., Semeraro, T., De Marco, A., Zaccarelli, N., & Zurlini, G. (2014). Scales, strategies and actions for effective energy planning: A review. *Energy Policy*, 65, 165–174. <https://doi.org/10.1016/j.enpol.2013.10.027>
- Permana, D. A., Wibawa, U., & Utomo, T. (2022). *Studi Analisis Pembangkit Listrik Hybrid (Diesel - Angin) Di Pulau Karimun Jawa*. 1–7.
- PLN. (2024). *COMPANY PROFILE PT Perusahaan Listrik Negara (Persero)*.
- Prus, P., & Sikora, M. (2021). The impact of transport infrastructure on the sustainable development of the region—case study. *Agriculture (Switzerland)*, 11(4). <https://doi.org/10.3390/agriculture11040279>

- Purwanto, W. W., Pratama, Y. W., Nugroho, Y. S., Warjito, Hertono, G. F., Hartono, D., Deendarlianto, & Tezuka, T. (2015). Multi-objective optimization model for sustainable Indonesian electricity system: Analysis of economic, environment, and adequacy of energy sources. *Renewable Energy*, *81*, 308–318. <https://doi.org/10.1016/j.renene.2015.03.046>
- Rafinia, A., Moshtagh, J., & Rezaei, N. (2020). Stochastic optimal robust design of a new multi-stage under-frequency load shedding system considering renewable energy sources. *International Journal of Electrical Power and Energy Systems*, *118*. <https://doi.org/10.1016/j.ijepes.2019.105735>
- Raghu, C. N., & Manjunatha, A. (2017). Assessing effectiveness of research for load shedding in power system. *International Journal of Electrical and Computer Engineering*, *7*(6), 3235–3245. <https://doi.org/10.11591/ijece.v7i6.pp3235-3245>
- Rahmanta, M. A., Adhi, A. C., Tambunan, H. B., Digwijaya, W., Damanik, N., & Al Hasibi, R. A. (2023). An Analysis of National Position, Opportunity, and Challenge of Indonesia's Nuclear Program to Support Net-Zero Emissions by 2060. *Energies*, *16*(24). <https://doi.org/10.3390/en16248089>
- Rif'an, M. (2018). Simulasi Gelombang Laut Untuk Pembangkit Listrik Tenaga Gelombang Laut (PLTGL). *Jurnal Teknologi Elektro*, *9*, 50–57.
- Rochim, A. I., Diah, N., & Dewi, U. (2020). PERUMUSAN, IMPLEMENTASI SERTA EVALUASI KEBIJAKAN PERUSAHAAN LISTRIK NEGARA (PLN) PEMADAMAN LISTRIK TERHADAP INDUSTRI PARIWISATA DI BALI WIDYA PUBLIKA. *Jurnal Widya Publika*, *8*(2).
- Rudenko, D., & Tanasov, G. (2022). The determinants of energy intensity in Indonesia. *International Journal of Emerging Markets*, *17*(3), 832–857. <https://doi.org/10.1108/IJOEM-01-2020-0048>
- RUPTL PT PLN. (2021). *Rencana Usaha Penyediaan tenaga Listrik (RUPTL) PT PLN (Perser) 2021-2030*.
- Ryan, B., Johnston, K. A., Taylor, M., & McAndrew, R. (2020). Community engagement for disaster preparedness: A systematic literature review. *International Journal of Disaster Risk Reduction*, *49*. <https://doi.org/10.1016/j.ijdrr.2020.101655>

- Sajadi, A., Strezoski, L., Strezoski, V., Prica, M., & Loparo, K. A. (2019). Integration of renewable energy systems and challenges for dynamics, control, and automation of electrical power systems. In *Wiley Interdisciplinary Reviews: Energy and Environment* (Vol. 8, Issue 1). John Wiley and Sons Ltd. <https://doi.org/10.1002/wene.321>
- Sakthivel, S. (2023). A critical review of cost-benefit analysis for business software investments. *American Journal of Business*, 38(4), 229–247. <https://doi.org/10.1108/ajb-09-2022-0145>
- Saleem, F., Zhang-Zhang, Y., Gopinath, C., & Malik, M. I. (2023). Antecedents of environmental strategies: a study of the manufacturing industry in Pakistan. *International Journal of Emerging Markets*, 18(10), 3616–3639. <https://doi.org/10.1108/IJOEM-09-2020-1153>
- Santoso, A. D., & Muhammad Agus Salim. (2019). Penghematan Listrik Rumah Tangga dalam Menunjang Kestabilan Energi Nasional dan Kelestarian Lingkungan. In *Jurnal Teknologi Lingkungan* (Vol. 20, Issue 2).
- Sarmiento-Vintimilla, J. C., Marene Larruskain, D., Torres, E., & Abarrategi, O. (2024). Assessment of the operational flexibility of virtual power plants to facilitate the integration of distributed energy resources and decision-making under uncertainty. *International Journal of Electrical Power and Energy Systems*, 155. <https://doi.org/10.1016/j.ijepes.2023.109611>
- Shrestha, S., Panchalogaranjan, V., & Moses, P. (2023). The February 2021 U.S. Southwest power crisis. *Electric Power Systems Research*, 217. <https://doi.org/10.1016/j.epsr.2023.109124>
- Simatupang, J. W., & Faskayana, D. A. (2019). Feasibility Study of Photovoltaic - Diesel Hybrid Power System as Renewable Energy Source. *IJIREEICE*, 7(3), 56–63. <https://doi.org/10.17148/ijireeice.2019.7312>
- Simoës, S. G., & Lima, A. T. M. (2023). Materials, resources, and CO2 impacts of building new renewable power plants to reach EU's goals of carbon neutrality. *Journal of Cleaner Production*, 418. <https://doi.org/10.1016/j.jclepro.2023.138138>
- Sindhu, S., Nehra, V., & Luthra, S. (2017). Investigation of feasibility study of solar farms deployment using hybrid AHP-TOPSIS analysis: Case study of India. In *Renewable and Sustainable Energy Reviews* (Vol. 73, pp. 496–511). Elsevier Ltd. <https://doi.org/10.1016/j.rser.2017.01.135>

- Soltani, A., Sadiq, R., & Hewage, K. (2016). Selecting sustainable waste-to-energy technologies for municipal solid waste treatment: A game theory approach for group decision-making. *Journal of Cleaner Production*, 113, 388–399. <https://doi.org/10.1016/j.jclepro.2015.12.041>
- Stern, D. I., Burke, P. J., & Bruns, S. B. (2019). *Energy and Economic Growth Title The Impact of Electricity on Economic Development: A Macroeconomic Perspective Permalink https://escholarship.org/uc/item/7jb0015q Publication Date.* <https://escholarship.org/uc/item/7jb0015q>
- Stratford, B. (2023). Rival definitions of economic rent: historical origins and normative implications. *New Political Economy*, 28(3), 347–362. <https://doi.org/10.1080/13563467.2022.2109612>
- Suhono, & Sarjiya. (2015). Long-term electricity demand forecasting of Sumatera system based on electricity consumption intensity and Indonesia population projection 2010-2035. *Energy Procedia*, 68, 455–462. <https://doi.org/10.1016/j.egypro.2015.03.277>
- Sunitiyoso, Y., Mahardi, J. P., Anggoro, Y., & Wicaksono, A. (2020). New and renewable energy resources in the Indonesian electricity sector: a systems thinking approach. *International Journal of Energy Sector Management*, 14(6), 1381–1403. <https://doi.org/10.1108/IJESM-11-2019-0019>
- Surmann, M., Brunauer, W. A., & Bienert, S. (2016). The energy efficiency of corporate real estate assets: The role of energy management for corporate environmental performance. *Journal of Corporate Real Estate*, 18(2), 68–101. <https://doi.org/10.1108/JCRE-12-2015-0045>
- Susanty, A., Puspitasari, N. B., Saptadi, S., & Siregar, S. D. (2020). Using system dynamics approach to build policy scenario for reducing CO2 emission resulted from tourism travel to Karimunjawa. *Kybernetes*. <https://doi.org/10.1108/K-09-2019-0624>
- Syadli, H., Abdullah, P., Hassan, M. Y., & Hussin, F. (2020). *Demand Side Management for Reducing Rolling Blackouts Due to Power Supply Deficit in Sumatra* (Vol. 69, Issue 5). www.jurnalteknologi.utm.my
- Taneza, E., & Firdaus, F. (2025). SMART SYSTEM UNTUK PEMANTAUAN DAN OPTIMASI KINERJA PEMBANGKIT LISTRIK TENAGA SURYA. *Transmisi: Jurnal Ilmiah Teknik Elektro*, 27(1), 20–32. <https://doi.org/10.14710/transmisi.27.1.20-32>

- Tauffauzan, M., Junihartomo, C., Thamrin, S., & Boedoyo, M. S. (2022). Potential Analysis and Regulations of Solar Power Plant Development in Indonesia. In *International Journal of Innovative Science and Research Technology* (Vol. 7, Issue 4). www.ijisrt.com518
- Tu, C. S., Tsai, W. C., Hong, C. M., & Lin, W. M. (2022). Short-Term Solar Power Forecasting via General Regression Neural Network with Grey Wolf Optimization. *Energies*, *15*(18). <https://doi.org/10.3390/en15186624>
- Vaikund, H., & Srivani, S. G. (2024). Demand response-based cost mitigation strategy in renewable energy connected microgrid using intelligent energy management system. *Electrical Engineering*, *106*(1), 1033–1052. <https://doi.org/10.1007/s00202-023-02034-8>
- Valasai, G. Das, Uqaili, M. A., Memon, H. U. R., Samoo, S. R., Mirjat, N. H., & Harijan, K. (2017). Overcoming electricity crisis in Pakistan: A review of sustainable electricity options. In *Renewable and Sustainable Energy Reviews* (Vol. 72, pp. 734–745). Elsevier Ltd. <https://doi.org/10.1016/j.rser.2017.01.097>
- Wang, C. N., Chung, Y. C., Wibowo, F. D., Dang, T. T., & Nguyen, N. A. T. (2023). Site Selection of Solar Power Plants Using Hybrid MCDM Models: A Case Study in Indonesia. *Energies*, *16*(10). <https://doi.org/10.3390/en16104042>
- Wang, C. N., Nguyen, N. A. T., Dang, T. T., & Bayer, J. (2021). A Two-Stage Multiple Criteria Decision Making for Site Selection of Solar Photovoltaic (PV) Power Plant: A Case Study in Taiwan. *IEEE Access*, *9*, 75509–75525. <https://doi.org/10.1109/ACCESS.2021.3081995>
- Wanitschke, A., Pieniak, N., & Schaller, F. (2017). Economic and environmental cost of self-sufficiency-analysis of an urban micro grid. *Energy Procedia*, *135*, 445–451. <https://doi.org/10.1016/j.egypro.2017.09.510>
- Xiang, L. (2017). Energy network dispatch optimization under emergency of local energy shortage with web tool for automatic large group decision-making. *Energy*, *120*, 740–750. <https://doi.org/10.1016/j.energy.2016.11.125>
- Xu, Q., Yu, C., Yuan, X., Fu, Z., & Liu, H. (2022). A distributed electricity energy trading strategy under energy shortage environment. *Complex Engineering Systems*, *2*(3). <https://doi.org/10.20517/ces.2022.20>

- Yang, M., & Chou, S. Y. (2018). The impact of environmental regulation on fetal health: Evidence from the shutdown of a coal-fired power plant located upwind of New Jersey. *Journal of Environmental Economics and Management*, 89, 94–115. <https://doi.org/10.1016/j.jeem.2017.11.005>
- Yin, R. K. (2011). *Qualitative Research from Start to Finish*. The Guilford Press.
- Yin, R. K. (2018). *Case Study Research and Applications Sixth Edition* (Sixth Edit). SAGE Publications, Inc.
- Zaekhan, Nachrowi, N. D., Hartono, D., & Soetjipto, W. (2022). What drives energy consumption in Indonesia's manufacturing industry? An analysis of firm-level characteristics. *International Journal of Energy Sector Management*, 16(5), 965–984. <https://doi.org/10.1108/IJESM-05-2021-0015>
- Zaripova, R., Nikitin, A., Hadiullina, Y., Pokaninova, E., & Kuznetsov, M. (2021). Vendor selection information system on the electronic trading platform for energy supply companies. *E3S Web of Conferences*, 288. <https://doi.org/10.1051/e3sconf/202128801072>
- Zhao, H., & Wang, W. (2025). Optimal site selection for wind-solar-hydrogen storage power plants based on geographic information system and multi-criteria decision-making model: A case study from China. *Journal of Energy Storage*, 112. <https://doi.org/10.1016/j.est.2025.115470>
- Zhao, J., Liu, Y., & Tu, Z. (2023). Optimal energy management strategy for distributed renewable energy power generation system based on “three-flow” theory. *International Journal of Hydrogen Energy*, 48(87), 34045–34054. <https://doi.org/10.1016/j.ijhydene.2023.05.183>
- Zio, E. (2009). Reliability engineering: Old problems and new challenges. In *Reliability Engineering and System Safety* (Vol. 94, Issue 2, pp. 125–141). <https://doi.org/10.1016/j.res.2008.06.002>
- Żołądek, M., Kafetzis, A., Figaj, R., & Panopoulos, K. (2022). Energy-Economic Assessment of Islanded Microgrid with Wind Turbine, Photovoltaic Field, Wood Gasifier, Battery, and Hydrogen Energy Storage. *Sustainability (Switzerland)*, 14(19). <https://doi.org/10.3390/su141912470>