

DAFTAR PUSTAKA

- [1] H. Gunatilake and P. Perera, "Utility Tariff Setting for Economic Efficiency and Financial Sustainability—A Review".
- [2] United Nations, *Transforming our world: the 2030 Agenda for Sustainable Development*. New York: United Nations, 2015. [Online]. Available: <https://sustainabledevelopment.un.org/content/documents/21252030%20Agenda%20for%20Sustainable%20Development%20web.pdf>
- [3] R. Passey, N. Haghdadi, A. Bruce, and I. MacGill, "Designing more cost reflective electricity network tariffs with demand charges," *Energy Policy*, vol. 109, pp. 642–649, Oct. 2017, doi: 10.1016/j.enpol.2017.07.045.
- [4] R. Hledik, "Rediscovering Residential Demand Charges," *Electr. J.*, vol. 27, no. 7, pp. 82–96, Aug. 2014, doi: 10.1016/j.tej.2014.07.003.
- [5] T. Brown, A. Faruqui, and L. Grausz, "Efficient tariff structures for distribution network services," *Econ. Anal. Policy*, vol. 48, pp. 139–149, Dec. 2015, doi: 10.1016/j.eap.2015.11.010.
- [6] N. Li, R. A. Hakvoort, and Z. Lukszo, "Cost allocation in integrated community energy systems - A review," *Renew. Sustain. Energy Rev.*, vol. 144, p. 111001, Jul. 2021, doi: 10.1016/j.rser.2021.111001.
- [7] N. Haghdadi, R. Passey, A. Bruce, S. Young, and I. MacGill, "Tariff Design and Analysis (TDA) Users Guide," 2017, doi: 10.13140/RG.2.2.19940.68487.
- [8] N. Haghdadi, I. MacGill, N. Gorman, R. Passey, and A. Bruce, "An open source tool for analyzing the impact of electricity network and retail tariffs on consumers," in *2020 IEEE Power & Energy Society General Meeting (PESGM)*, Montreal, QC, Canada: IEEE, Aug. 2020, pp. 1–5. doi: 10.1109/PESGM41954.2020.9281742.
- [9] P. D. Necochea-Porras, A. López, and J. C. Salazar-Elena, "Deregulation in the Energy Sector and Its Economic Effects on the Power Sector: A Literature Review," *Sustainability*, vol. 13, no. 6, p. 3429, Mar. 2021, doi: 10.3390/su13063429.
- [10] Y.-F. Zhang, D. Parker, and C. Kirkpatrick, "Electricity sector reform in developing countries: an econometric assessment of the effects of privatization, competition and regulation," *J. Regul. Econ.*, vol. 33, no. 2, pp. 159–178, Apr. 2008, doi: 10.1007/s11149-007-9039-7.
- [11] V. Azarova, D. Engel, C. Ferner, A. Kollmann, and J. Reichl, "Exploring the impact of network tariffs on household electricity expenditures using load profiles and

- socio-economic characteristics,” *Nat. Energy*, vol. 3, no. 4, pp. 317–325, Mar. 2018, doi: 10.1038/s41560-018-0105-4.
- [12] N. Morell-Dameto, J. P. Chaves-Ávila, T. Gómez San Román, and T. Schittekatte, “Forward-looking dynamic network charges for real-world electricity systems: A Slovenian case study,” *Energy Econ.*, vol. 125, p. 106866, Sep. 2023, doi: 10.1016/j.eneco.2023.106866.
- [13] N. Morell-Dameto, J. P. Chaves-Ávila, T. Gómez San Román, P. Dueñas-Martínez, and T. Schittekatte, “Network tariff design with flexible customers: Ex-post pricing and a local network capacity market for customer response coordination,” *Energy Policy*, vol. 184, p. 113907, Jan. 2024, doi: 10.1016/j.enpol.2023.113907.
- [14] S. J. Taylor and B. Letham, “Forecasting at Scale,” *Am. Stat.*, vol. 72, no. 1, pp. 37–45, Jan. 2018, doi: 10.1080/00031305.2017.1380080.
- [15] Q. Qiao, A. Yunusa-Kaltungo, and R. Edwards, “Predicting building energy consumption during holiday periods,” in *2021 IEEE PES/IAS PowerAfrica*, Nairobi, Kenya: IEEE, Aug. 2021, pp. 1–5. doi: 10.1109/PowerAfrica52236.2021.9543455.
- [16] A. L. Sya’bani, “Pengembangan Model Mesin Pembelajaran Prediksi Konsumsi Energi Listrik Menggunakan Algoritma Prophet,” Undergraduate Thesis, Universitas Gadjah Mada, Yogyakarta, 2024.
- [17] H. Sebastian Oliva and I. MacGill, “Dynamic Model Approach to Assess Feed-in tariffs for Residential PV Systems,” 2013, doi: 10.13140/RG.2.1.5174.1522.
- [18] D. Kelly, A. Bruce, I. MacGill, and R. Passey, “An Assessment of the Cost-Reflectivity of Proposed Network Tariffs in Australia,” in *Asia-Pacific Solar Research Conference*, 2015.
- [19] S. Young, A. Bruce, and I. MacGill, “Electricity network revenue under different Australian residential tariff designs and customer interventions,” in *2016 IEEE Power and Energy Society General Meeting (PESGM)*, Boston, MA, USA: IEEE, Jul. 2016, pp. 1–5. doi: 10.1109/PESGM.2016.7741536.
- [20] V. Nair and U. Nair, “Selection of Electricity Tariff Designs for Distribution Networks Using Analytic Network Process,” *Int. J. Anal. Hierarchy Process*, vol. 15, no. 2, Oct. 2023, doi: 10.13033/ijahp.v15i2.1052.
- [21] J. C. Bonbright, *Principles of Public Utility Rates*. New York: Columbia University Press, 1961.
- [22] J. Lawrence and P. E. Vogt, *Electricity Pricing: Engineering Principles and Methodologies*, 1st ed. CRC Press, 2017. doi: 10.1201/9781315221472.

- [23] J. Reneses, T. Gómez, J. Rivier, and J. L. Angarita, “Electricity tariff design for transition economies,” *Energy Econ.*, vol. 33, no. 1, pp. 33–43, Jan. 2011, doi: 10.1016/j.eneco.2010.04.005.
- [24] M. P. Rodríguez Ortega, J. I. Pérez-Arriaga, J. R. Abbad, and J. P. González, “Distribution network tariffs: A closed question?,” *Energy Policy*, vol. 36, no. 5, pp. 1712–1725, May 2008, doi: 10.1016/j.enpol.2008.01.025.
- [25] J. Reneses and M. P. Rodríguez Ortega, “Distribution pricing: theoretical principles and practical approaches,” *IET Gener. Transm. Distrib.*, vol. 8, no. 10, pp. 1645–1655, Oct. 2014, doi: 10.1049/iet-gtd.2013.0817.
- [26] N. Li, R. A. Hakvoort, and Z. Lukszo, “Cost allocation in integrated community energy systems — Performance assessment,” *Appl. Energy*, vol. 307, p. 118155, Feb. 2022, doi: 10.1016/j.apenergy.2021.118155.
- [27] L. Yang, C. Dong, C. L. J. Wan, and C. T. Ng, “Electricity time-of-use tariff with consumer behavior consideration,” *Int. J. Prod. Econ.*, vol. 146, no. 2, pp. 402–410, Dec. 2013, doi: 10.1016/j.ijpe.2013.03.006.
- [28] R. De Sa Ferreira, L. A. Barroso, P. Rochinha Lino, M. M. Carvalho, and P. Valenzuela, “Time-of-Use Tariff Design Under Uncertainty in Price-Elasticities of Electricity Demand: A Stochastic Optimization Approach,” *IEEE Trans. Smart Grid*, vol. 4, no. 4, pp. 2285–2295, Dec. 2013, doi: 10.1109/TSG.2013.2241087.
- [29] S. Borenstein, “The economics of fixed cost recovery by utilities,” *Electr. J.*, vol. 29, no. 7, pp. 5–12, Sep. 2016, doi: 10.1016/j.tej.2016.07.013.
- [30] P. M. Sotkiewicz and J. M. Vignolo, “Towards a Cost Causation-Based Tariff for Distribution Networks With DG,” *IEEE Trans. Power Syst.*, vol. 22, no. 3, pp. 1051–1060, Aug. 2007, doi: 10.1109/TPWRS.2007.901284.
- [31] R. Baldick, “Incentive properties of coincident peak pricing,” *J. Regul. Econ.*, vol. 54, no. 2, pp. 165–194, Oct. 2018, doi: 10.1007/s11149-018-9367-9.
- [32] J. Zarnikau and D. Thal, “The response of large industrial energy consumers to four coincident peak (4CP) transmission charges in the Texas (ERCOT) market,” *Util. Policy*, vol. 26, pp. 1–6, Sep. 2013, doi: 10.1016/j.jup.2013.04.004.
- [33] J. Ajello, “Electric utility cost allocation manual,” National Association of Regulatory Utility Commissioners, 1992. [Online]. Available: <https://tinyurl.com/3vxad7mv>

- [34] L. Blank and D. Gegax, “Residential Winners and Losers behind the Energy versus Customer Charge Debate,” *Electr. J.*, vol. 27, no. 4, pp. 31–39, May 2014, doi: 10.1016/j.tej.2014.04.001.
- [35] NREL, “Chapter 10, Peak Demand and Time-Differentiated Energy Savings Cross-Cutting Protocols: The Uniform Methods Project: Methods for Determining Energy Efficiency Savings for Specific Measures,” 2013, [Online]. Available: <https://www.energy.gov/sites/prod/files/2013/05/f0/53827-10.pdf>
- [36] J. Urpelainen and J. Yang, “Global patterns of power sector reform, 1982–2013,” *Energy Strategy Rev.*, vol. 23, pp. 152–162, Jan. 2019, doi: 10.1016/j.esr.2018.12.001.
- [37] C. Özden-Schilling, “The infrastructure of markets: From electric power to electronic data,” *Econ. Anthropol.*, vol. 3, no. 1, pp. 68–80, Jan. 2016, doi: 10.1002/sea2.12045.
- [38] T. Chen, Q. Alsafasfeh, H. Pourbabak, and W. Su, “The Next-Generation U.S. Retail Electricity Market with Customers and Prosumers—A Bibliographical Survey,” *Energies*, vol. 11, no. 1, p. 8, Dec. 2017, doi: 10.3390/en11010008.
- [39] S. R. Brockschink, J. H. Gurney, and D. B. Seely, “Hydroelectric power generation,” in *Electric power generation, transmission, and distribution*, CRC Press, 2018, pp. 5–1.
- [40] M. Kaselimi, E. Protopapadakis, A. Voulodimos, N. Doulamis, and A. Doulamis, “Towards Trustworthy Energy Disaggregation: A Review of Challenges, Methods, and Perspectives for Non-Intrusive Load Monitoring,” *Sensors*, vol. 22, no. 15, p. 5872, Aug. 2022, doi: 10.3390/s22155872.
- [41] T. Mamchych-Mitkalik and F. Wallin, “Stability of Patterns in Residential Electricity Consumption,” *Energy Procedia*, vol. 75, pp. 2738–2744, Aug. 2015, doi: 10.1016/j.egypro.2015.07.494.
- [42] M. Zeifman and K. Roth, “Nonintrusive appliance load monitoring: Review and outlook,” *IEEE Trans. Consum. Electron.*, vol. 57, no. 1, pp. 76–84, Feb. 2011, doi: 10.1109/TCE.2011.5735484.
- [43] A. Zoha, A. Gluhak, M. Imran, and S. Rajasegarar, “Non-Intrusive Load Monitoring Approaches for Disaggregated Energy Sensing: A Survey,” *Sensors*, vol. 12, no. 12, pp. 16838–16866, Dec. 2012, doi: 10.3390/s121216838.

- [44] L. Pereira and N. Nunes, "Performance evaluation in non-intrusive load monitoring: Datasets, metrics, and tools—A review," *WIREs Data Min. Knowl. Discov.*, vol. 8, no. 6, p. e1265, Nov. 2018, doi: 10.1002/widm.1265.
- [45] O. S. Ajani, A. Kumar, R. Mallipeddi, S. Das, and P. N. Suganthan, "Benchmarking Optimization-Based Energy Disaggregation Algorithms," *Energies*, vol. 15, no. 5, p. 1600, Feb. 2022, doi: 10.3390/en15051600.
- [46] R. Wu, "Behavioral analysis of electricity consumption characteristics for customer groups using the k-means algorithm," *Syst. Soft Comput.*, vol. 6, p. 200143, Dec. 2024, doi: 10.1016/j.sasc.2024.200143.
- [47] B. Biantoro and Hernadewita, "K-means clustering on quality of radial run out tires," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1034, no. 1, p. 012122, Feb. 2021, doi: 10.1088/1757-899X/1034/1/012122.
- [48] A. Pugazhenthii and L. S. Kumar, "Selection of Optimal Number of Clusters and Centroids for K-means and Fuzzy C-means Clustering: A Review," in *2020 5th International Conference on Computing, Communication and Security (ICCCS)*, Patna, India: IEEE, Oct. 2020, pp. 1–4. doi: 10.1109/ICCCS49678.2020.9276978.
- [49] Y. Xiong, Q. Peng, and Z. Zhang, "Research on MapReduce Parallel Optimization Method Based on Improved K-means Clustering Algorithm," in *Proceedings of the 3rd International Conference on Data Science and Information Technology*, Xiamen China: ACM, Jul. 2020, pp. 47–52. doi: 10.1145/3414274.3414282.
- [50] A. Belikov, G. Matheron, and J. Sassi, "Domain knowledge aids in signal disaggregation; the example of the cumulative water heater," *Energy Build.*, vol. 268, p. 112200, Aug. 2022, doi: 10.1016/j.enbuild.2022.112200.
- [51] H. Wang and W. Yang, "An Iterative Load Disaggregation Approach Based on Appliance Consumption Pattern," *Appl. Sci.*, vol. 8, no. 4, p. 542, Apr. 2018, doi: 10.3390/app8040542.
- [52] P. Michaud, "Clustering techniques," *Future Gener. Comput. Syst.*, vol. 13, no. 2–3, pp. 135–147, Nov. 1997, doi: 10.1016/S0167-739X(97)00017-4.
- [53] K. R. Shahapure and C. Nicholas, "Cluster Quality Analysis Using Silhouette Score," in *2020 IEEE 7th International Conference on Data Science and Advanced Analytics (DSAA)*, Sydney, Australia: IEEE, Oct. 2020, pp. 747–748. doi: 10.1109/DSAA49011.2020.00096.

- [54] A. Punhani, N. Faujdar, K. K. Mishra, and M. Subramanian, "Binning-Based Silhouette Approach to Find the Optimal Cluster Using K-Means," *IEEE Access*, vol. 10, pp. 115025–115032, 2022, doi: 10.1109/ACCESS.2022.3215568.
- [55] F. Galton, "Co-relations and their measurement, chiefly from anthropometric data," *Proc. R. Soc. Lond.*, vol. 45, no. 273–279, pp. 135–145, Dec. 1889, doi: 10.1098/rspl.1888.0082.
- [56] Dulau and Co, "Generalised idea of correlation. The correlation ratio η and its relation to the correlation coefficient r ," in *K. Pearson*, in *On the General Theory of Skew Correlation and Nonlinear Regression.*, 1905, pp. 9–10.
- [57] Committee of Public Accounts, "Update on the rollout of smart meters," UK Parliament, London, Oct. 2023. Accessed: Jul. 24, 2024. [Online]. Available: <https://publications.parliament.uk/pa/cm5803/cmselect/cmpubacc/1332/report.html>
- [58] K. Zhou, D. Hu, R. Hu, and J. Zhou, "High-resolution electric power load data of an industrial park with multiple types of buildings in China," *Sci. Data*, vol. 10, no. 1, p. 870, Dec. 2023, doi: 10.1038/s41597-023-02786-9.
- [59] M. H. Hasan, T. M. I. Mahlia, and H. Nur, "A review on energy scenario and sustainable energy in Indonesia," *Renew. Sustain. Energy Rev.*, vol. 16, no. 4, pp. 2316–2328, May 2012, doi: 10.1016/j.rser.2011.12.007.
- [60] Law Business Research, *Energy Regulation and Markets Review*, vol. Twelfth Edition. London, 2023. [Online]. Available: www.thelawreviews.co.uk
- [61] B. Letham, "Strategies for positive prediction issue no. 1668." 2020. [Online]. Available: <https://github.com/facebook/prophet/issue/1668>
- [62] Universitas Indonesia, *BUKU MANUAL TARIF DASAR LISTRIK*. Gd. Engineering Center Ruang 315: Fakultas Teknik Universitas Indonesia, 2008.
- [63] S. A. Kurniawan, Sarjiya, and Y. S. Wijoyo, "Household Electricity Tariff Analysis in Smart City Development Using Tariff Design and Analysis (TDA) Tool," in *2024 16th International Conference on Information Technology and Electrical Engineering (ICITEE)*, Bali, Indonesia: IEEE, Oct. 2024, pp. 270–275. doi: 10.1109/ICITEE62483.2024.10809012.
- [64] R. P. Gallardo, "A comparative study of correlation coefficients used to assess the solar and wind complementarity in Mexico," in *Complementarity of Variable Renewable Energy Sources*, Elsevier, 2022, pp. 269–290. doi: 10.1016/B978-0-323-85527-3.00004-2.

- [65] D. Syafrianto, K. Marojahan Banjar-Nahor, and N. Hariyanto, "Optimized Allocation of Solar PV in Batam-Bintan Power System 2021-2025," in *2021 3rd International Conference on High Voltage Engineering and Power Systems (ICHVEPS)*, Bandung, Indonesia: IEEE, Oct. 2021, pp. 149–154. doi: 10.1109/ICHVEPS53178.2021.9601028.
- [66] G. S. Ramnath, R. Harikrishnan, S. M. Muyeen, and K. Kotecha, "Household electricity consumption prediction using database combinations, ensemble and hybrid modeling techniques," *Sci. Rep.*, vol. 14, no. 1, Oct. 2024, doi: 10.1038/s41598-024-57550-9.
- [67] Y. He and K. F. Tsang, "Universities power energy management: A novel hybrid model based on iCEEMDAN and Bayesian optimized LSTM," *Energy Rep.*, vol. 7, pp. 6473–6488, Nov. 2021, doi: 10.1016/j.egyr.2021.09.115.
- [68] J. Hwang, D. Suh, and M.-O. Otto, "Forecasting Electricity Consumption in Commercial Buildings Using a Machine Learning Approach," *Energies*, vol. 13, no. 22, p. 5885, Nov. 2020, doi: 10.3390/en13225885.
- [69] E. Vivas, H. Allende-Cid, and R. Salas, "A Systematic Review of Statistical and Machine Learning Methods for Electrical Power Forecasting with Reported MAPE Score," *Entropy*, vol. 22, no. 12, p. 1412, Dec. 2020, doi: 10.3390/e22121412.