

DAFTAR PUSTAKA

- Achuo, E. D., & Asongu, S. A. (2024). The impact of public spending on water, sanitation and hygiene adoption: Governance thresholds for complementary policies. *Sustainable Development*, 32(1), 1–18. <https://doi.org/10.1111/issj.12535>
- Amusa, H. A., & Fadiran, D. (2024). The efficiency of public expenditures on basic services: The case of South African municipalities. *South African Journal of Economics*, 92(2), 183–213. <https://doi.org/10.1111/saje.12377>
- Baba, H., & Asami, Y. (2022). Cost-efficient factors in local public spending: Detecting relationships between local environments, population size and urban area category. *Environment and Planning B: Urban Analytics and City Science*, 49(1), 241–258. <https://doi.org/10.1177/23998083211003883>
- Badan Perencanaan Pembangunan Nasional (Bappenas) & UNICEF. (2023). *Metadata indikator tujuan pembangunan berkelanjutan (TPB)/Sustainable Development Goals (SDGs) Indonesia: Pilar pembangunan lingkungan*. Kementerian PPN/Bappenas.
- Badan Pusat Statistik. (2019). *Statistik lingkungan hidup Indonesia 2019*. Badan Pusat Statistik.
- Badan Pusat Statistik. (2025). *Indikator perumahan dan kesehatan lingkungan 2024*. Badan Pusat Statistik.
- Banker, R. D., Charnes, A., & Cooper, W. W. (1984). Some models for estimating technical and scale inefficiencies in data envelopment analysis. *Management Science*, 30(9), 1078–1092. <https://doi.org/10.1287/mnsc.30.9.1078>
- Bayu, T., Kim, H., & Oki, T. (2020). Water governance contribution to water and sanitation accessibility in developing countries. *Water Resources Research*, 56(4). <https://doi.org/10.1029/2019WR025330>
- Becker, G. S. (1964). *Human capital: A theoretical and empirical analysis, with special reference to education*. Columbia University Press.
- Charnes, A., Cooper, W. W., & Rhodes, E. (1978). Measuring the efficiency of decision making units. *European Journal of Operational Research*, 2(6), 429–444. [https://doi.org/10.1016/0377-2217\(78\)90138-8](https://doi.org/10.1016/0377-2217(78)90138-8)
- Coelli, T. J., Rao, D. S. P., O'Donnell, C. J., & Battese, G. E. (2005). *An introduction to efficiency and productivity analysis* (2nd ed.). Springer.

- Cristóbal, J., Ehrenstein, M., Domínguez-Ramos, A., Galán-Martín, A., Pozo, C., Margallo, M., Aldaco, R., Jiménez, L., Irabien, A., & Guillén-Gosálbez, G. (2021). Unraveling the links between public spending and *Sustainable Development Goals*: Insights from data envelopment analysis. *Science of the Total Environment*, 786, 147459. <https://doi.org/10.1016/j.scitotenv.2021.147459>
- Direktorat Jenderal Perimbangan Keuangan. (2025). *Portal data APBD: Realisasi belanja fungsi lingkungan hidup dan perumahan 2015-2024*. Kementerian Keuangan Republik Indonesia. <https://www.djpk.kemenkeu.go.id/>
- Environmental Performance Index. (2024). *2024 EPI results*. Yale Center for Environmental Law & Policy. <https://epi.yale.edu/>
- Farrell, M. J. (1957). The measurement of productive efficiency. *Journal of the Royal Statistical Society: Series A (General)*, 120(3), 253–281. <https://doi.org/10.2307/2343100>
- Fried, H. O., Lovell, C. A. K., & Schmidt, S. S. (Eds.). (2008). *The measurement of productive efficiency and productivity growth*. Oxford University Press.
- Glaeser, E. L. (2011). *Triumph of the city: How our greatest invention makes us richer, smarter, greener, healthier, and happier*. Penguin Press.
- Greene, W. H. (2018). *Econometric analysis* (8th ed.). Pearson Education.
- Gujarati, D. N., & Porter, D. C. (2009). *Basic econometrics* (5th ed.). McGraw-Hill Irwin.
- Hirsch, W. Z. (1965). *Cost functions of an urban government service: Refuse collection*. *The Review of Economics and Statistics*, 47(1), 87–92. <https://doi.org/10.2307/1924127>
- Kementerian Keuangan Republik Indonesia. (2015). *Klasifikasi anggaran fungsi dan sub fungsi*. Direktorat Jenderal Perimbangan Keuangan. [JDIH Kementerian Keuangan](#)
- Koutsoyiannis, A. (1977). *Modern microeconomics* (2nd ed.). Macmillan Press.
- Malthus, T. R. (1798). *An essay on the principle of population*. J. Johnson.
- Mankiw, N. G. (2021). *Principles of economics* (9th ed.). Cengage Learning.
- Mangkoesebroto, G. (2001). *Ekonomi publik* (Ed. 3). BPFE Yogyakarta.
- Martínez-Córdoba, P. J., Raimo, N., Vitolla, F., & Benito, B. (2020). Achieving *Sustainable Development Goals*: Efficiency in the Spanish clean water and

sanitation sector. *Sustainability*, 12(7), 3015.
<https://doi.org/10.3390/su12073015>

- McFadden, D. (1974). Conditional logit analysis of qualitative choice behavior. In P. Zarembka (Ed.), *Frontiers in econometrics* (pp. 105–142). Academic Press.
- Mondal, S., Wangdi, K., Gray, D. J., Kelly, M., & Sarma, H. (2021). Access to water, sanitation, and hygiene (WASH) facilities and key influencing factors in coastal households. *International Journal of Hygiene and Environmental Health*, 232, 113693.
<https://doi.org/10.1016/j.ijhe.2025.107792>
- Musgrave, R. A., & Musgrave, P. B. (1989). *Public finance in theory and practice* (5th ed.). McGraw-Hill.
- Muwirapachena, G., Dikgang, J., & Mulwa, R. (2020). Benchmarking South African water utilities: Using three efficiency analysis methods. *Utilities Policy*, 67, 101119. <https://doi.org/10.1080/00036846.2024.2364074>
- Nicholson, W., & Snyder, C. (2016). *Microeconomic theory: Basic principles and extensions* (12th ed.). Cengage Learning.
- North, D. C. (1990). *Institutions, institutional change and economic performance*. Cambridge University Press.
- O'Sullivan, A. (2012). *Urban economics* (8th ed.). McGraw-Hill/Irwin.
- Peacock, A. T., & Wiseman, J. (1961). *The growth of public expenditure in the United Kingdom*. Princeton University Press.
- Peraturan Menteri Kesehatan Republik Indonesia Nomor 492/MENKES/PER/IV/2010 tentang Persyaratan Kualitas Air Minum.
- Pérez Urdiales, M., López-Luzuriaga, A., Castillo, A., & Couto Ribeiro, B. (2025). *Fragmentation, scale, and management: Determinants of public spending efficiency in Colombia's water and sanitation sector* (IDB Working Paper No. 14276). Inter-American Development Bank.
<https://doi.org/10.18235/0013721>
- Perloff, J. M. (2012). *Microeconomics* (6th ed.). Pearson.
- Pindyck, R. S., & Rubinfeld, D. L. (2013). *Microeconomics* (8th ed.). Pearson.
- Rahman, A., Farhana, Z., & Tushar, H. (2022). The impact of climate change on water availability and quality: A global review. *Environmental Science and Pollution Research*, 29, 12345–12360.
<https://doi.org/10.1016/j.wasec.2023.100133>

- SDGs Indonesia. (2025). *Peta jalan tujuan pembangunan berkelanjutan di Indonesia*. Kementerian PPN/Bappenas.
- Sekaran, U., & Bougie, R. (2016). *Research methods for business: A skill-building approach* (7th ed.). Wiley.
- Shleifer, A., & Vishny, R. W. (1997). A survey of corporate governance. *The Journal of Finance*, 52(2), 737–783. <https://doi.org/10.1111/j.1540-6261.1997.tb04820.x>
- Stiglitz, J. E., & Rosengard, J. K. (2015). *Economics of the public sector* (4th ed.). W. W. Norton & Company.
- Tietenberg, T. H., & Lewis, L. (2018). *Environmental and natural resource economics* (11th ed.). Routledge.
- Tobin, J. (1958). Estimation of relationships for limited dependent variables. *Econometrica*, 26(1), 24–36. <https://doi.org/10.2307/1907382>
- Todaro, M. P., & Smith, S. C. (2015). *Economic development* (12th ed.). Pearson.
- UNICEF Indonesia. (2023). *Sanitasi aman untuk semua: Laporan tahunan*. UNICEF.
- United Nations. (2016). *Goal 6: Ensure availability and sustainable management of water and sanitation for all*. United Nations Statistics Division. <https://unstats.un.org/sdgs/report/2016/goal-06/>
- Varian, H. R. (2010). *Intermediate microeconomics: A modern approach* (8th ed.). New York, NY: W. W. Norton & Company.
- Wang, P. (2018). *Analysis of the efficiency of publik environmental expenditure based on data envelopment analysis (DEA)-Tobit model: Evidence from Central China*. *Nature Environment and Pollution Technology*, 17(1), 43–48. [https://neptjournal.com/upload-images/NL-63-8-\(6\)-G-131.pdf](https://neptjournal.com/upload-images/NL-63-8-(6)-G-131.pdf)
- Wang, S., Zhou, L., Wang, H., & Li, X. (2018). *Water use efficiency and its influencing factors in China: Based on the Data Envelopment Analysis (DEA)-Tobit model*. *Water*, 10(7), 832. <https://doi.org/10.3390/w10070832>
- WHO & UNICEF Joint Monitoring Programme. (2023). *Progress on household drinking water, sanitation and hygiene 2000-2022: Special focus on gender*. World Health Organization.
- Wooldridge, J. M. (2012). *Introductory econometrics: A modern approach* (5th ed.). South-Western Cengage Learning.

World Bank. (2020). *The human capital index 2020 update: Human capital in the time of COVID-19*. The World.

Worthington, A. C., & Dollery, B. E. (2000). *An empirical survey of frontier efficiency measurement techniques in local government*. *Local Government Studies*, 26(2), 23–52. <https://doi.org/10.1080/03003930008433988>

