

DAFTAR PUSTAKA

Alexander, K., Yeganyan, R., Cannone, C., Tan, N. and Howells, M. (2023) “Evidence-Based Policy Making: Analysis and Policy Recommendations for how the Philippines can manage a Cost-Effective Clean Energy Transition.” Available at: <https://doi.org/10.21203/rs.3.rs-2446174/v3>.

Azzuni, A. and Breyer, C. (2020) “Global energy security index and its application on national level,” *Energies*, 13(10). Available at: <https://doi.org/10.3390/en13102502>.

Babatunde, K.A., Mahmoud, M.A., Ibrahim, N. and Said, F.F. (2023) “Malaysia’s Electricity Decarbonisation Pathways: Exploring the Role of Renewable Energy Policies Using Agent-Based Modelling,” *Energies*, 16(4). Available at: <https://doi.org/10.3390/en16041720>.

Boehmke, B. and Greenwell, B. (no date) *Hands-On Machine Learning with R; Edition 1*. Available at: <https://doi.org/10.4324/9780367816377>.

Dixon, L., Yeganyan, R., Tan, N., Cannone, C., Howells, M., Foster, V. and Plazas-Niño, F. (2025) “The Philippines’ Energy Transition: Assessing Emerging Technology Options Using OSeMOSYS (Open-Source Energy Modelling System),” *Climate*, 13(1). Available at: <https://doi.org/10.3390/cli13010014>.

Erdiwansyah, E., Mahidin, M., Husin, H., Nasaruddin, N., Khairil, K., Zaki, M. and Jalaluddin, J. (2021) “Investigation of availability, demand, targets, and development of renewable energy in 2017–2050: a case study in Indonesia,” *International Journal of Coal Science and Technology*, 8(4), pp. 483–499. Available at: <https://doi.org/10.1007/s40789-020-00391-4>.

Galimova, T., Ram, M. and Breyer, C. (2022) “Mitigation of air pollution and corresponding impacts during a global energy transition towards 100% renewable energy system by 2050,” *Energy Reports*, 8, pp. 14124–14143. Available at: <https://doi.org/10.1016/j.egy.2022.10.343>.

Gonocruz, R.A.T., Yoshida, Y., Silava, N.E., Aguirre, R.A., Maguindayao, E.J.H.,

Ozawa, A. and Santiago, J.V. (2024) “A multi-scenario evaluation of the energy transition mechanism in the Philippines towards decarbonization,” *Journal of Cleaner Production*, 438. Available at: <https://doi.org/10.1016/j.jclepro.2024.140819>.

Grazioli, G., Chlela, S., Selosse, S. and Maïzi, N. (2022) “The Multi-Facets of Increasing the Renewable Energy Integration in Power Systems,” *Energies*, 15(18). Available at: <https://doi.org/10.3390/en15186795>.

Han, X. and Chang, J. (2021) “A hybrid prediction model based on improved multivariable grey model for long-term electricity consumption,” *Electrical Engineering*, 103(2), pp. 1031–1043. Available at: <https://doi.org/10.1007/s00202-020-01124-1>.

Hassan, R., Das, B.K. and Hasan, M. (2022) “Integrated off-grid hybrid renewable energy system optimization based on economic, environmental, and social indicators for sustainable development,” *Energy*, 250. Available at: <https://doi.org/10.1016/j.energy.2022.123823>.

Hoffmann, M., Kotzur, L. and Stolten, D. (no date) *The Pareto-Optimal Temporal Aggregation of Energy System Models*. Available at: <https://github.com/FZJ-IEK3-VSA/tsam>.

Ju-Long, D. (1982) “Control problems of grey systems,” *Systems & Control Letters*, 1(5), pp. 288–294. Available at: [https://doi.org/https://doi.org/10.1016/S0167-6911\(82\)80025-X](https://doi.org/https://doi.org/10.1016/S0167-6911(82)80025-X).

Langer, J., Quist, J. and Blok, K. (2021) “Review of renewable energy potentials in indonesia and their contribution to a 100% renewable electricity system,” *Energies*. MDPI. Available at: <https://doi.org/10.3390/en14217033>.

Meha, D., Pfeifer, A., Sahiti, N., Schneider, D.R. and Duić, N. (no date) *Sustainable transition pathways with high penetration of variable renewable energy in the coal-based energy systems*.

Osman, A.I., Chen, L., Yang, M., Msigwa, G., Farghali, M., Fawzy, S., Rooney, D.W. and Yap, P.S. (2023) “Cost, environmental impact, and resilience of

renewable energy under a changing climate: a review,” *Environmental Chemistry Letters*, 21(2), pp. 741–764. Available at: <https://doi.org/10.1007/s10311-022-01532-8>.

Peyerl, D., Barbosa, M.O., Ciotta, M., Pelissari, M.R. and Moretto, E.M. (2022) “Linkages between the Promotion of Renewable Energy Policies and Low-Carbon Transition Trends in South America’s Electricity Sector,” *Energies*, 15(12). Available at: <https://doi.org/10.3390/en15124293>.

Rabbi, M.F., Popp, J., Máté, D. and Kovács, S. (2022) “Energy Security and Energy Transition to Achieve Carbon Neutrality,” *Energies*. MDPI. Available at: <https://doi.org/10.3390/en15218126>.

Renewable Energy Agency, I. (2025) *RENEWABLE ENERGY STATISTICS 2025 STATISTIQUES D’ÉNERGIE RENOUVELABLE 2025 ESTADÍSTICAS DE ENERGÍA RENOVABLE 2025*. Available at: www.irena.org.

Seckinger, N. and Radgen, P. (2021) “Dynamic prospective average and marginal GHG emission factors—scenario-based method for the german power system until 2050,” *Energies*, 14(9). Available at: <https://doi.org/10.3390/en14092527>.

Shidhani, T. Al, Ioannou, A. and Falcone, G. (2020) “Multi-objective optimisation for power system planning integrating sustainability indicators,” *Energies*, 13(9). Available at: <https://doi.org/10.3390/en13092199>.

Silalahi, D.F., Blakers, A. and Cheng, C. (2024) “100% Renewable Electricity in Indonesia,” *Energies*, 17(1). Available at: <https://doi.org/10.3390/en17010003>.

Solé, J., Samsó, R., García-Ladona, E., García-Olivares, A., Ballabrera-Poy, J., Madurell, T., Turiel, A., Osychenko, O., Álvarez, D., Bardi, U., Baumann, M., Buchmann, K., Capellán-Pérez, Černý, M., Carpintero, De Blas, I., De Castro, C., De Lathouwer, J.D., Duce, C., Eggler, L., Enríquez, J.M., Falsini, S., Feng, K., Ferreras, N., Frechoso, F., Hubacek, K., Jones, A., Kaclíková, R., Kerschner, C., Kimmich, C., Lobejón, L.F., Lomas, P.L., Martelloni, G., Mediavilla, M., Miguel, L.J., Natalini, D., Nieto, J., Nikolaev, A., Parrado, G., Papagianni, S., Perissi, I., Ploiner, C., Radulov, L., Rodrigo, P., Sun, L. and Theofilidi, M. (2020) “Modelling the renewable transition: Scenarios and pathways for a decarbonized

future using pymedeas, a new open-source energy systems model,” *Renewable and Sustainable Energy Reviews*, 132. Available at: <https://doi.org/10.1016/j.rser.2020.110105>.

Sun, Y. and Zhang, F. (2022) “Grey Multivariable Prediction Model of Energy Consumption with Different Fractional Orders,” *Sustainability (Switzerland)*, 14(24). Available at: <https://doi.org/10.3390/su142416426>.

Supapo, K.R.M., Lozano, L., Tabañag, I.D.F. and Querikol, E.M. (2022) “A Backcasting Analysis toward a 100% Renewable Energy Transition by 2040 for Off-Grid Islands,” *Energies*, 15(13). Available at: <https://doi.org/10.3390/en15134794>.

Ulrich, P., Naegler, T., Becker, L., Lehr, U., Simon, S., Sutardhio, C. and Weidlich, A. (2022) “Comparison of macroeconomic developments in ten scenarios of energy system transformation in Germany: National and regional results,” *Energy, Sustainability and Society*, 12(1). Available at: <https://doi.org/10.1186/s13705-022-00361-5>.

Wang, H. and Zhang, Z. (2023) “Forecasting per Capita Energy Consumption in China Using a Spatial Discrete Grey Prediction Model,” *Systems*, 11(6). Available at: <https://doi.org/10.3390/systems11060285>.

Wu, G., Hu, Y.C., Chiu, Y.J. and Tsao, S.J. (2023) “A new multivariate grey prediction model for forecasting China’s regional energy consumption,” *Environment, Development and Sustainability*, 25(5), pp. 4173–4193. Available at: <https://doi.org/10.1007/s10668-022-02238-1>.

Xu, A., Awalin, L.J., Al-Khaykan, A., Fard, H.F., Alhamrouni, I. and Salem, M. (2023) “Techno-Economic and Environmental Study of Optimum Hybrid Renewable Systems, including PV/Wind/Gen/Battery, with Various Components to Find the Best Renewable Combination for Ponorogo Regency, East Java, Indonesia,” *Sustainability (Switzerland)*, 15(3). Available at: <https://doi.org/10.3390/su15031802>.

Yazdanie, M. (2023) “Resilient energy system analysis and planning using optimization models,” *Energy and Climate Change*, 4. Available at:

<https://doi.org/10.1016/j.egycc.2023.100097>.

Yudha, S.W., Tjahjono, B. and Longhurst, P. (2022) “Unearthing the Dynamics of Indonesia’s Geothermal Energy Development,” *Energies*, 15(14). Available at: <https://doi.org/10.3390/en15145009>.

Zahari, T.N. and McLellan, B.C. (2023) “Review of Policies for Indonesia’s Electricity Sector Transition and Qualitative Evaluation of Impacts and Influences Using a Conceptual Dynamic Model,” *Energies*. MDPI. Available at: <https://doi.org/10.3390/en16083406>.

Zhang, Z., Zhang, Y. and Wu, D. (2019) “Hybrid model for the prediction of municipal solid waste generation in Hangzhou, China,” *Waste Management and Research*, 37(8), pp. 781–792. Available at: <https://doi.org/10.1177/0734242X19855434>.

Zhao, L. and Zhou, X. (2018) “Forecasting electricity demand using a new grey prediction model with smoothness operator,” *Symmetry*, 10(12). Available at: <https://doi.org/10.3390/sym10120693>.