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Model Optimasi Multivariabel Rute Dan Green Shipping Sebagai Strategi Transisi Energi : Analisis Pencapaian ESG Pada Transportasi Batubara
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DAFTAR PUSTAKA

Andrikopoulos, A. (2025). ESG in the shipping industry: a literature review. In *Corporate Governance (Bingley)*. Emerald Publishing. https://doi.org/10.1108/CG-05-2024-0264

Chen, Y., Zhang, C., Guo, Y., Wang, Y., Lang, X., Zhang, M., & Mao, W. (2025). State-of-the-art optimization algorithms in weather routing — ship decision support systems: challenge, taxonomy, and review. *Ocean Engineering*, *331*. https://doi.org/10.1016/j.oceaneng.2025.121198

Gao, J., Wang, J., & Liang, J. (2024). A unified operation decision model for dry bulk shipping fleet: ship scheduling, routing, and sailing speed optimization. *Optimization and Engineering*, *25*(1), 301–324. https://doi.org/10.1007/s11081-023-09803-1

Hadi, I., Yola, L., Hanifa, A. S., & Muzhaffar, M. H. (2025). Decarbonization Strategy towards Net Zero Emission for International Shipping on International Shipping Routes in Indonesian Archipelago Sea Lanes. *International Journal of Technology*, *16*(1), 8–26. https://doi.org/10.14716/ijtech.v16i1.7106

Hu, C., Wang, Y., Han, X., Liu, H., Sun, Q., & Zhou, B. (2025). Research on speed optimization of fixed route ship with low data dependence. *Ocean Engineering*, *328*. https://doi.org/10.1016/j.oceaneng.2025.121065

Huang, L. (2023). A Mathematical Modeling and an Optimization Algorithm for Marine Ship Route Planning. *Journal of Mathematics*, *2023*. https://doi.org/10.1155/2023/5671089

Jung, S. (2025). MILP-based cost and time-competitive vehicle routing problem for last-mile delivery service using a swarm of UAVs and UGVs. *Journal of Air Transport Management*, *124*. https://doi.org/10.1016/j.jairtraman.2024.102736

Khayenzeli, A. W., Son, W. J., Jo, D. J., & Cho, I. S. (2025). An AIS-Based Study to Estimate Ship Exhaust Emissions Using Spatio-Temporal Approach. *Journal of Marine Science and Engineering*, *13*(5). https://doi.org/10.3390/jmse13050922

Lei, J., Topsoe, H., & Co, B. (n.d.). *Efficient Strategies on Supply Chain Network Optimization for Industrial Carbon Emission Reduction*.

Liu, Q., Wang, X., Liu, H., Meng, L., & Hao, C. (2025). Optimization of sustainable coal procurement for power plants under maritime transportation uncertainty. *Cleaner Logistics and Supply Chain*, *14*. https://doi.org/10.1016/j.clscn.2025.100204

Ma, W., Ma, D., Ma, Y., Zhang, J., & Wang, D. (2021). Green maritime: a routing and speed multi-objective optimization strategy. *Journal of Cleaner Production*, *305*. https://doi.org/10.1016/j.jclepro.2021.127179

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Qiu, M., Gao, L., Lin, Z., Zheng, M., & Lin, Q. (2024). Green logistics optimization for coal supply in a power plant connecting maritime port. *Cleaner Logistics and Supply Chain*, *13*. https://doi.org/10.1016/j.clscn.2024.100177

Robalo-Cabrera, I., Alcayde, A., Filgueira-Vizoso, A., Castro-Santos, L., García-Diez, A. I., & Manzano-Agugliaro, F. (2025). Shipping sector decarbonisation measures: A review. In *Sustainable Energy Technologies and Assessments* (Vol. 82). Elsevier Ltd. https://doi.org/10.1016/j.seta.2025.104549

Sirait, M., Charnsethikul, P., & Paoprasert, N. (2025). A Multi-Type Ship Allocation and Routing Model for Multi-Product Oil Distribution in Indonesia with Inventory and Cost Minimization Considerations: A Mixed-Integer Linear Programming Approach. *Logistics*, *9*(1). https://doi.org/10.3390/logistics9010035

Subramaniam, Y., Ilyana, H., Hashim, C., Loganathan, N., Effandi Bin Yusoff, M., & Palanimuthu, R. (2023). ESG Dimensions and the Energy Transition in Indonesia. In *Journal of Contemporary Management Studies* (Vol. 1, Number 1).

Tarkun, S. (2025). Logistics, energy, and inflation in trade-dependent economies: A political economy of shock transmission across maritime supply chains. *Research in Transportation Economics*, *113*. https://doi.org/10.1016/j.retrec.2025.101642

Ulsrud, K. P., Vandvik, A. H., Ormevik, A. B., Fagerholt, K., & Meisel, F. (2022). A time-dependent vessel routing problem with speed optimization. *European Journal of Operational Research*, *303*(2), 891–907. https://doi.org/10.1016/j.ejor.2022.03.015

Zhen, L., Jiang, M., Wang, S., & Wu, J. (2025). Ship fleet scheduling and deployment optimization considering carbon and sulfur emissions. *European Journal of Operational Research*. https://doi.org/10.1016/j.ejor.2025.07.021