

REFERENCES

- Anindya, M. (2024, 26. August). *Indonesia's EV ambitions highlight urgent battery recycling challenges*. Dialogue Earth.
- ANTARA Indonesian News Agency. (2024, 1. March). *Indonesia's two-wheeled EV sales surge 262 percent in 2023*. ANTARA Indonesian News Agency.
- Bhat, F. A. & Verma, A. (2024). Electric two-wheeler adoption in India – A discrete choice analysis of motivators and barriers affecting the potential electric two-wheeler buyers. *Transport Policy*, 152, 118–131. <https://doi.org/10.1016/j.tranpol.2024.05.004>
- Chi, X., Streicher-Porte, M., Wang, M. Y. L. & Reuter, M. A. (2011). Informal electronic waste recycling: A sector review with special focus on China. *Waste Management*, 31(4). <https://doi.org/10.1016/j.wasman.2010.11.006>
- Choi, T. M., Li, Y. & Xu, L. (2013). Channel leadership, performance and coordination in closed loop supply chains. *International Journal of Production Economics*, 146(1). <https://doi.org/10.1016/j.ijpe.2013.08.002>
- D Insights Team. (2023, 24. May). *Tianneng to Build EV Battery Plant, Recycle Facilities in Indonesia*. D Insights.
- Dai, Q., Spangenberg, J., Ahmed, S., Gaines, L., Kelly, J. C. & Wang, M. (2019). A Closed-loop Battery Recycling Cost and Environmental Impacts Model. *Argonne National Laboratory*.
- Dehghani Sadrabadi, M. H., Makui, A., Ghousi, R. & Jabbarzadeh, A. (2024). Optimal pricing strategy in the closed-loop supply chain using game theory under government subsidy scenario: A case study. *Journal of Energy Storage*, 87. <https://doi.org/10.1016/j.est.2024.111423>
- European Union. (2016, 22. February). *Recycling and Reuse: Batteries and Accumulators: European Union Directive*. EPA.
- EVERTIQ. (2024, 18. October). *Indonesia, CATL form \$1.2 billion battery venture*. EVERTIQ.
- GAIKINDO. (2024). *Indonesian Automobile Industry Data*. <https://www.gaikindo.or.id/indonesian-automobile-industry-data/>
- Gong, B., Gao, Y., Li, K. W., Liu, Z. & Huang, J. (2024). Cooperate or compete? A strategic analysis of formal and informal electric vehicle battery recyclers under government

- intervention. *International Journal of Logistics Research and Applications*, 27(1), 149–169. <https://doi.org/10.1080/13675567.2022.2047621>
- Gu, X., Ieromonachou, P., Zhou, L. & Tseng, M. L. (2018). Optimising quantity of manufacturing and remanufacturing in an electric vehicle battery closed-loop supply chain. *Industrial Management and Data Systems*, 118(1). <https://doi.org/10.1108/IMDS-04-2017-0132>
- Hao, H., Xu, W., Wei, F., Wu, C. & Xu, Z. (2022). Reward–Penalty vs. Deposit–Refund: Government Incentive Mechanisms for EV Battery Recycling. *Energies*, 15(19). <https://doi.org/10.3390/en15196885>
- Harper, G., Sommerville, R., Kendrick, E., Driscoll, L., Slater, P., Stolkin, R., Walton, A., Christensen, P., Heidrich, O., Lambert, S., Abbott, A., Ryder, K., Gaines, L. & Anderson, P. (2019). Recycling lithium-ion batteries from electric vehicles. *Nature*, 575(7781). <https://doi.org/10.1038/s41586-019-1682-5>
- Hu, X., Yang, Z., Sun, J. & Zhang, Y. (2023). Optimal pricing strategy for electric vehicle battery swapping: Pay-per-swap or subscription? *Transportation Research Part E: Logistics and Transportation Review*, 171. <https://doi.org/10.1016/j.tre.2023.103030>
- Huda, A. A., Bridle, R. & Suharsono, A. (2025, 7. February). *Indonesian Electric Vehicle Boom: A temporary trend or a long-term vision?* IISD.
- IEA. (2021). *Prospects for electric vehicle deployment – Global EV Outlook 2021*. The International Energy Agency.
- IPI. (2020). *IPI (Ikatan Pemulung Indonesia) PIM (Pemulung Indonesia Mandiri)*. IPI.
- Jayaraman, R. (2024). *EV Battery Recycling: Opportunities to Foster Circular Economy*. <https://doi.org/10.20944/preprints202404.0649.v1>
- Jiang, S., Zhang, L., Hua, H., Liu, X., Wu, H. & Yuan, Z. (2021). Assessment of end-of-life electric vehicle batteries in China: Future scenarios and economic benefits. *Waste Management*, 135. <https://doi.org/10.1016/j.wasman.2021.08.031>
- Jiang, W., Han, H., He, M. & Gu, W. (2024). When game theory meets satellite communication networks: A survey. In *Computer Communications* (Vol. 217). <https://doi.org/10.1016/j.comcom.2024.02.005>
- Jindel, J., Chandra, A., Allirani, H. & Verma, A. (2022). Studying Two-Wheeler Usage in the Context of Sustainable and Resilient Urban Mobility Policies in India. In *Transportation Research Record* (Vol. 2676, Issue 6). <https://doi.org/10.1177/03611981221074644>

- Lai, X., Huang, Y., Gu, H., Deng, C., Han, X., Feng, X. & Zheng, Y. (2021). Turning waste into wealth: A systematic review on echelon utilization and material recycling of retired lithium-ion batteries. In *Energy Storage Materials* (Vol. 40). <https://doi.org/10.1016/j.ensm.2021.05.010>
- Li, Y., Xu, F. & Zhao, X. (2017). Governance mechanisms of dual-channel reverse supply chains with informal collection channel. *Journal of Cleaner Production*, 155, 125–140. <https://doi.org/10.1016/j.jclepro.2016.09.084>
- Liu, H., Lei, M., Deng, H., Keong Leong, G. & Huang, T. (2016). A dual channel, quality-based price competition model for the WEEE recycling market with government subsidy. *Omega (United Kingdom)*, 59, 290–302. <https://doi.org/10.1016/j.omega.2015.07.002>
- Mao, J., Ye, C., Zhang, S., Xie, F., Zeng, R., Davey, K., Guo, Z. & Qiao, S. (2022). Toward practical lithium-ion battery recycling: adding value, tackling circularity and recycling-oriented design. In *Energy and Environmental Science* (Vol. 15, Issue 7). <https://doi.org/10.1039/d2ee00162d>
- MCD Team. (2025, 22. January). *Indonesia 2024. Government Incentives Pushed Up EVs Segment inside an Healthy MC Market*. MotorCycles Data.
- Miao, Z., Fu, K., Xia, Z. & Wang, Y. (2017). Models for closed-loop supply chain with trade-ins. *Omega (United Kingdom)*, 66. <https://doi.org/10.1016/j.omega.2015.11.001>
- Ministry of Environment and Forestry. (2024). *E-WASTE MANAGEMENT IN INDONESIA*.
- Narang, P., Kanti De, P., Peng Lim, C. & Kumari, M. (2024). Optimal recycling model selection in a closed-loop supply chain for electric vehicle batteries under carbon cap-trade and reward-penalty policies using the Stackelberg game. *Computers and Industrial Engineering*, 196. <https://doi.org/10.1016/j.cie.2024.110512>
- Noble, P. M. & Gruca, T. S. (1999). Industrial pricing: Theory and managerial practice. *Marketing Science*, 18(3). <https://doi.org/10.1287/mksc.18.3.435>
- NREL. (2021). *NREL Study Analyzes Existing Policy and Regulations that Could Impact a Circular Economy for Lithium-Ion Battery Energy Storage Materials*. National Renewable Energy Laboratory.
- Ray, S., Boyaci, T. & Aras, N. (2005). Optimal prices and trade-in rebates for durable, remanufacturable products. *Manufacturing and Service Operations Management*, 7(3). <https://doi.org/10.1287/msom.1050.0080>
- SISAPIRA. (2024). *PROGRAM BANTUAN PEMERINTAH UNTUK PEMBELIAN KENDARAAN BERMOTOR LISTRIK BERBASIS BATERAI RODA DUA*. SISAPIRA.

- Syahr, Z. H. A. & Putra, S. G. M. S. R. (2023). Informal sector management policy in electric vehicle battery recycling. *AIP Conference Proceedings*, 2932(1). <https://doi.org/10.1063/5.0174797>
- Trung, N. T. & Urmee, T. (2024). Electrifying Vietnam's streets: Identifying the determinants of electric two-wheelers uptake. *Transportation Research Part D: Transport and Environment*, 129. <https://doi.org/10.1016/j.trd.2024.104116>
- Tsao, Y. C. & Ai, H. T. T. (2024). Remanufacturing electric vehicle battery supply chain under government subsidies and carbon trading: Optimal pricing and return policy. *Applied Energy*, 375. <https://doi.org/10.1016/j.apenergy.2024.124063>
- UNEP. (2021). *Promoting the Environmentally Sound Management of Waste Lead Acid Batteries (WLAB)*. UN Environment Programme.
- United E-Motors. (2025). *United Motor Products*. UNITED.
- Wang, J., & He, S. (2023). Government interventions in closed-loop supply chains with modularity design. *International Journal of Production Economics*, 264. <https://doi.org/10.1016/j.ijpe.2023.108965>
- Wang, W., Zhang, Y., Zhang, K., Bai, T. & Shang, J. (2015). Reward-penalty mechanism for closed-loop supply chains under responsibility-sharing and different power structures. *International Journal of Production Economics*, 170. <https://doi.org/10.1016/j.ijpe.2015.09.003>
- Wang, Y., Fan, R., Shen, L. & Miller, W. (2020). Recycling decisions of low-carbon e-commerce closed-loop supply chain under government subsidy mechanism and altruistic preference. *Journal of Cleaner Production*, 259. <https://doi.org/10.1016/j.jclepro.2020.120883>
- Wang, Z., Wang, Y., Gong, Y. & Zhan, J. (2024). Cooperate or not? Strategic analysis of formal and informal recyclers under different retired power battery recycling market structures. *Computers and Industrial Engineering*, 193. <https://doi.org/10.1016/j.cie.2024.110294>
- Wendy Torell. (2018, 29. August). *Calculate and Compare the TCO of your Lithium-Ion vs. VRLA Batteries*. Schneider Electric.
- World Economic Forum. (2020, 6. May). *Protector or polluter? The impact of COVID-19 on the movement to end plastic waste*. WEFORUM.
- Wu, W., Li, M., Zhang, M., Wang, Y., Wang, L. & You, Y. (2024). Electric vehicle battery closed-loop supply chain pricing and carbon reduction decisions under the carbon cap-

- and-trade and reward-penalty policies. *Process Safety and Environmental Protection*, 192, 1467–1482. <https://doi.org/10.1016/j.psep.2024.10.121>
- Xiao, M., Xu, C. & Xie, F. (2024). Research on the impact of information sharing and government subsidy on competitive power battery recycling. *Journal of Cleaner Production*, 467. <https://doi.org/10.1016/j.jclepro.2024.142989>
- Zare Ghaleh Seyyedi, A., Akbari, E., Atazadegan, M. H., Mahmoudi Rashid, S., Niazazari, A. & Shahmoradi, S. (2022). A stochastic tri-layer optimization framework for day-ahead scheduling of microgrids using cooperative game theory approach in the presence of electric vehicles. *Journal of Energy Storage*, 52. <https://doi.org/10.1016/j.est.2022.104719>
- Zhan, W., Pan, W., Zhao, Y., Zhang, S., Wang, Y. & Jiang, M. (2023). The optimal decision of e-retailer based on return-freight insurance – considering the loss aversion of customers. *Kybernetes*. <https://doi.org/10.1108/K-07-2023-1187>
- Zhang, Q., Tang, Y., Bunn, D., Li, H. & Li, Y. (2021). Comparative evaluation and policy analysis for recycling retired EV batteries with different collection modes. *Applied Energy*, 303. <https://doi.org/10.1016/j.apenergy.2021.117614>
- Zhang, W., Zhu, L., Liu, X., Wang, W. & Song, H. (2024a). Optimal strategies in electric vehicle battery closed-loop supply chain considering government subsidies and echelon utilization. *Journal of Energy Storage*, 99. <https://doi.org/10.1016/j.est.2024.113341>
- Zhang, W., Liu, X., Zhu, L., Wang, W., & Song, H. (2024b). Pricing and production R&D decisions in power battery closed-loop supply chain considering government subsidy. *Waste Management*, 190, 409–422. <https://doi.org/10.1016/j.wasman.2024.10.004>
- Zhao, X., Peng, B., Zheng, C. & Wan, A. (2022). Closed-loop supply chain pricing strategy for electric vehicle batteries recycling in China. *Environment, Development and Sustainability*, 24(6). <https://doi.org/10.1007/s10668-021-01755-9>
- Zhou, L., Naim, M. M. & Wang, Y. (2007). Soft systems analysis of reverse logistics battery recycling in China. *International Journal of Logistics Research and Applications*, 10(1). <https://doi.org/10.1080/13675560600717847>
- Zhou, Y., Zhang, Y., Wahab, M. I. M., & Goh, M. (2023). Channel leadership and performance for a closed-loop supply chain considering competition. *Transportation Research Part E: Logistics and Transportation Review*, 175. <https://doi.org/10.1016/j.tre.2023.103151>