

REFERENCES

- [1] C. Wortmann, A. M. Syré, A. Grahle, and D. Göhlich, "Analysis of electric moped scooter sharing in berlin: A technical, economic and environmental perspective," *World Electr. Veh. J.*, vol. 12, no. 3, 2021, doi: 10.3390/wevj12030096.
- [2] E. Fishman and C. Cherry, "E-bikes in the Mainstream: Reviewing a Decade of Research," *Transp. Rev.*, vol. 36, no. 1, pp. 72–91, 2016, doi: 10.1080/01441647.2015.1069907.
- [3] ReGlobal, "Decarbonising Transport: Overview of Sri Lanka's EV Market," 2024. <https://reglobal.org/decarbonising-transport-overview-of-sri-lankas-ev-market/> (accessed Nov. 17, 2024).
- [4] 6Wresearch, "Sri Lanka Electric Scooters Market Report," 2024. <https://www.6wresearch.com/industry-report/sri-lanka-electric-scooters-market-2020-2026> (accessed Nov. 17, 2024).
- [5] E. Nesbo, "How to choose an eBike: 8 key features to look for," 2022. <https://www.makeuseof.com/how-to-choose-an-ebike-key-features/> (accessed Nov. 18, 2024).
- [6] JYC Battery Manufacturer, "The Characteristics and Performance Parameters of Lead-Acid Batteries," 2024. <https://www.jycbattery.com/the-characteristics-and-performance-parameters-of-lead-acid-batteries/> (accessed Nov. 20, 2024).
- [7] Electricity and Magnetism, "Characteristics of Lithium-ion Batteries," 2024. <https://www.electricity-magnetism.org/electric-battery/characteristics-of-lithium-ion-batteries/> (accessed Nov. 20, 2024).
- [8] J. M. Bhatt, P. V. Ramana, and J. R. Mehta, "Performance assessment of valve regulated lead acid battery for E-bike in field test," *Mater. Today Proc.*, vol. 49, no. xxxx, pp. 2058–2065, 2021, doi: 10.1016/j.matpr.2021.08.305.
- [9] R. Hutchinson, "SANDIA REPORT TEMPERATURE EFFECTS ON SEALED LEAD ACID BATTERIES AND CHARGING TECHNIQUES TO PROLONG CYCLE LIFE," 2004. [Online]. Available: <http://www.ntis.gov/help/ordermethods.asp?loc=7-4-0#online>
- [10] T. M. Layadi, G. Champenois, M. Mostefai, and D. Abbes, "Lifetime estimation tool of lead-acid batteries for hybrid power sources design," *Simul. Model. Pract. Theory*, vol. 54, pp. 36–48, 2015, doi: 10.1016/j.simpat.2015.03.001.
- [11] S. M. Rezvanizani, Z. Liu, Y. Chen, and J. Lee, "Review and recent advances in battery health monitoring and prognostics technologies for electric vehicle (EV) safety and mobility," vol. 256, pp. 110–124, 2014.
- [12] K. Qian, C. Zhou, Y. Yuan, and M. Allan, "Temperature Effect on Electric Vehicle Battery Cycle Life in Vehicle-to-Grid Applications," no. 1, pp. 1–6, 2010.
- [13] S. C. Chen, C. C. Wan, and Y. Y. Wang, "Thermal analysis of lithium-ion batteries," *J. Power Sources*, vol. 140, no. 1, pp. 111–124, 2005, doi: 10.1016/j.jpowsour.2004.05.064.
- [14] M. Dubarry *et al.*, "Identifying battery aging mechanisms in large format Li ion

- cells,” *J. Power Sources*, vol. 196, no. 7, pp. 3420–3425, 2011, doi: 10.1016/j.jpowsour.2010.07.029.
- [15] N. Omar *et al.*, “Lithium iron phosphate based battery - Assessment of the aging parameters and development of cycle life model,” *Appl. Energy*, vol. 113, pp. 1575–1585, 2014, doi: 10.1016/j.apenergy.2013.09.003.
 - [16] J. J. An, S. Chen, and K. Yang, “Temperature characterization analysis of LiFePO₄/C power battery during charging and discharging,” *J. Therm. Anal. Calorim.*, vol. 99, no. 2, pp. 515–521, 2010, doi: 10.1007/s10973-009-0623-1.
 - [17] M.-S. Wu, K. H. Liu, Y.-Y. Wang, and C.-C. Wan, “Heat dissipation design for lithium-ion batteries.”
 - [18] A. Babak, V. Esfahanian, and F. Torabi, “Discharge , rest and charge simulation of lead-acid batteries using an efficient reduced order model based on proper orthogonal decomposition,” *Appl. Energy*, vol. 173, pp. 152–167, 2016, doi: 10.1016/j.apenergy.2016.04.008.
 - [19] F. Torabi and V. Esfahanian, “Study of Thermal-Runaway in Batteries II . The Main Sources of Heat Generation in Lead-Acid Batteries,” vol. 160, no. 2, pp. 223–234, 2013, doi: 10.1149/2.030302jes.
 - [20] S. H. Kamble, T. V. Mathew, and G. K. Sharma, “Development of real-world driving cycle: Case study of Pune, India,” *Transp. Res. Part D Transp. Environ.*, vol. 14, no. 2, pp. 132–140, 2009, doi: 10.1016/j.trd.2008.11.008.
 - [21] R. M. T. D. I D M H Jayantha, H D C Hettiarachchi, S M V P D Senananayake, Kapila Peris, “Examining Electric Bike Performance in Sri Lanka comparing battery performance: A Practical Study,” 2024.
 - [22] C. R. Cherry, H. Yang, L. R. Jones, and M. He, “Dynamics of electric bike ownership and use in Kunming, China,” *Transp. Policy*, vol. 45, pp. 127–135, 2016, doi: 10.1016/j.tranpol.2015.09.007.
 - [23] 2025 Monolithic Power Systems, “How Resistance, Temperature, and Charging Behaviors Impact Battery SOC and SOH,” 2025. <http://www.monolithicpower.com/learning/resources/how-resistance-temperature-and-charging-behaviors-impact-battery-soc-and-soh#:~:text=At higher temperatures%2C battery performance,more quickly at higher temperatures.> (accessed Feb. 02, 2025).