

DAFTAR PUSTAKA

- [1] G. Zola *et al.*, “Inovasi kendaraan listrik sebagai upaya meningkatkan kelestarian lingkungan dan mendorong pertumbuhan ekonomi hijau di Indonesia,” *Ekon. Sumberd. dan Lingkung.*, vol. 11, no. 3, pp. 2303–1220, 2023.
- [2] A. Skuza and R. S. Jurecki, “Analysis of factors affecting the energy consumption of an EV vehicle - a literature study,” *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1247, no. 1, p. 012001, 2022, doi: 10.1088/1757-899x/1247/1/012001.
- [3] A. Donkers, D. Yang, and M. Viktorović, “Influence of driving style, infrastructure, weather and traffic on electric vehicle performance,” *Transp. Res. Part D Transp. Environ.*, vol. 88, no. October, 2020, doi: 10.1016/j.trd.2020.102569.
- [4] E. Rita, N. Carlo, H. Warman, and Y. Mahendra, “Penyebab Terjadinya Justifikasi Teknis Pada Pekerjaan Jalan di Sumatera Barat,” *J. Penelit. dan Pengabd. Masy.*, vol. 5, no. 1, pp. 91–96, 2017.
- [5] D. B. Prasetyo and U. Wasiwitono, “Desain dan Analisa Sistem Tenaga dan Transmisi pada Mobil Angkutan Multiguna Pedesaan Bertenaga Listrik,” *J. Tek. ITS*, vol. 6, no. 2, 2018, doi: 10.12962/j23373539.v6i2.27130.
- [6] N. Karya Yudha, A. Hiendro, and R. Aldrian Wicaksono, “Pemodelan dan Simulasi Mobil Listrik Kapuas 2 Guna Memperoleh Metode Berkendara Dengan Konsumsi Energi Minimal Menggunakan,” *Hiendro & Wicaksono*, vol. 4, no. 1, pp. 14–23, 2023.
- [7] I. Miri, A. Fotouhi, and N. Ewin, “Electric Vehicle energy consumption modelling and estimation-a case study,” p. 6, 2015.
- [8] C. Sudjoko, “Strategi Pemanfaatan Kendaraan Listrik Berkelanjutan Sebagai Solusi Untuk Mengurangi Emisi Karbon”, *Jurnal Paradigma: Jurnal Multidisipliner Mahasiswa Pascasarjana Indonesia*,” 2021.
- [9] Wuling Motors, “Wuling Air EV.” Accessed: Feb. 02, 2025. [Online]. Available: <https://wuling.id/id/air-ev>
- [10] A. Faraz, A. Ambikapathy, S. Thangavel, K. Logavani, and G. Arun Prasad, “Battery Electric Vehicles (BEVs),” *Green Energy Technol.*, no. January 2021, pp. 137–160, 2021, doi: 10.1007/978-981-15-9251-5_8.
- [11] M. Mujahed, “Hybrid Electric Vehicles (HEV): classification, configuration, and vehicle control,” *J. SA Electron.*, vol. 1, no. 1, p. 10, 2021, doi: 10.31219/osf.io/b95nh.
- [12] H. T. Madhu, T. S. Gouda, T. K. S. B, G. Vikas, and B. N. Vinay, “Plug-in Hybrid-Electric Vehicle,” *Int. J. Eng. Res. Technol.*, vol. 10, no. 11, pp. 188–191, 2022.
- [13] A. Rukma, A. K. Sistem, and P. Roda, “Analisis Gaya-gaya Hambatan Dinamis Pada Kendaraan,” pp. 67–74.
- [14] S. Chauhan, “Motor Torque Calculations For Electric Vehicle,” *Int. J. Sci. Technol. Res.*, vol. 4, no. 08, p. 8, 2015, [Online]. Available: www.ijstr.org
- [15] R. Faisal, L. Lulusi, and S. Sanra, “Perancangan Geometrik Jalan Antar Kota Menggunakan Autocad Civil 3D Student Version (Studi Kasus Jalan Mandeh Provinsi Sumatera Barat),” *J. Arsip Rekayasa Sipil dan Perenc.*, vol. 4, no. 3, pp. 133–142, 2022, doi: 10.24815/jarsp.v4i3.24182.
- [16] V. Kshirsagar and J. V Chopade, “Aerodynamics of High Performance Vehicles,” *Int. Res. J. Eng. Technol.*, vol. 05, no. 03, pp. 2182–2186, 2018, [Online]. Available: https://www.academia.edu/36833746/Aerodynamics_High_Performance_Vehicles

- [17] V. T. Nguyen, V. D. Nguyen, and M. Bouteldja, "Estimation of Rolling Resistance, Tire Temperature and Inflation Pressure of Heavy-duty Vehicle," *Int. J. Mech. Eng. Robot. Res.*, vol. 11, no. 4, pp. 255–261, 2022, doi: 10.18178/ijmerr.11.4.255-261.
- [18] J. Taborek, *Mechanics of Vehicles*. Ohio: Penton Publishing Co, 1957.
- [19] B. P. Wiegand, "Estimation of the Rolling Resistance of Tires," *SAE Tech. Pap.*, vol. 2016-April, no. April, 2016, doi: 10.4271/2016-01-0445.
- [20] K. Atamnia, A. Lebaroud, and S. Adikari, "Forward-Looking Model Dedicated to the Study of Electric Vehicle Range Considering Drive Cycles," *Sci. Bull. Electr. Eng. Fac.*, vol. 21, no. 1, pp. 52–59, 2021, doi: 10.2478/sbeef-2021-0011.
- [21] A. Gambhir, R & Jha, "Brushless Dc Motor: Construction and Applications," *Int. J. Eng. Sci.*, vol. 2, no. 5, pp. 72–77, 2013, [Online]. Available: www.theijes.com
- [22] E. Cetin, "Brushless Direct Current Motor Design and Analysis," *COJ Electron. Commun.*, vol. 2, no. 2, pp. 1–13, 2021, doi: 10.31031/cojec.2020.02.000534.
- [23] "Hall Sensor Working Principle In BLDC Motor." Accessed: Feb. 02, 2025. [Online]. Available: <https://infoupdate.org/hall-sensor-working-principle-in-bldc-motor/>
- [24] M. A. A. Aziz *et al.*, "A Review on BLDC Motor Application in Electric Vehicle (EV) using Battery, Supercapacitor and Hybrid Energy Storage System: Efficiency and Future Prospects," *J. Adv. Res. Appl. Sci. Eng. Technol.*, vol. 30, no. 2, pp. 41–59, 2023, doi: 10.37934/araset.30.2.4159.
- [25] M. Inc., "ME1917." Accessed: Feb. 02, 2025. [Online]. Available: <https://www.motenergy.com/me1115motor.html>
- [26] H. Wang, T. Sun, X. Zhou, and Q. Fan, "Research on the Electric Vehicle Control System," *Int. J. u- e-Service, Sci. Technol.*, vol. 8, no. 8, pp. 103–110, 2015, doi: 10.14257/ijunesst.2015.8.8.11.
- [27] M. Mahmud, S. M. A. Motakabber, A. H. M. Z. Alam, and A. N. Nordin, "Control BLDC motor speed using PID controller," *Int. J. Adv. Comput. Sci. Appl.*, vol. 11, no. 3, pp. 477–481, 2020, doi: 10.14569/ijacsa.2020.0110359.
- [28] T. Erfidan, S. Urgun, and B. Hekimoglu, "Low cost microcontroller based implementation of modulation techniques for three-phase inverter applications," *Proc. Mediterr. Electrotech. Conf. - MELECON*, no. June 2008, pp. 541–546, 2008, doi: 10.1109/MELCON.2008.4618491.
- [29] S. A. E. Hamza, "The Common Use of Pulse Width Modulation 'PWM' Technique in Power Electronics," *Int. J. Sci. Res.*, vol. 3, no. 11, p. —, 2014, [Online]. Available: <https://www.ijsr.net/archive/v3i11/T0NUMTQxMTYw.pdf>
- [30] V. Jose, "Sinusoidal Commutation of Three Phase Brushless Dc Motor Using Low-Cost Linear Hall Effect Sensors," *Int. J. Creat. Res. Thoughts*, vol. 9, no. 4, pp. 2320–2882, 2021, [Online]. Available: www.ijert.org
- [31] F. Borgia and S. Samuel, "Design of Drive Cycle For Electric Powertrain Testing," 2022.
- [32] W. T. Hung, H. Y. Tong, C. P. Lee, K. Ha, and L. Y. Pao, "Development of a practical driving cycle construction methodology: A case study in Hong Kong," *Transp. Res. Part D Transp. Environ.*, vol. 12, no. 2, pp. 115–128, 2007, [Online]. Available: <https://doi.org/10.1016/j.trd.2007.01.002>.
- [33] M. Cultu, "Battery and Their Chemistry," *Encycl. Life Support Syst.*, vol. II, [Online]. Available: <https://www.eolss.net/Sample-Chapters/C08/E3-14-04-01.pdf>
- [34] A. Marongiu, A. Damiano, and M. Heuer, "Experimental Analysis of Lithium Iron Phosphate Battery Performances," no. August 2010, pp. 3420–3424, 2010, doi: 10.1109/ISIE.2010.5637749.

- [35] HiMAX, "Rechargeable Lithium Ion Phosphate Cell 32700 LiFePO₄ 6000mAh 3.2V and Li Ion Customized Battery Manufacturing", [Online]. Available: <https://himaxelectronics.com/>. Accessed: May 15, 2024. [Online]. Available: <https://himaxelectronics.com/product-item/32700-lifepo4-3-2v-%0A6000mah>
- [36] A. Rosman, Risdayanan, E. Yuliani, and Vovi, "Karakteristik Arus dan Tegangan pada Rangkaian Seri dan Paralel menggunakan Resistor," *J. Ilm. d'Computare*, vol. 9, pp. 40–43, 2019.
- [37] M. Vairavel, R. Girimurugan, C. Shilaja, G. B. Loganathan, and J. Kumaresan, "Modeling, validation and simulation of electric vehicles using MATLAB," *AIP Conf. Proc.*, vol. 2452, no. November, 2022, doi: 10.1063/5.0114084.
- [38] MathWorks, "Blok Library pada Simulink." Accessed: Feb. 02, 2025. [Online]. Available: <https://www.mathworks.com/help/simulink/block-libraries/>
- [39] Code Sector, "GPS Log pada Laman Internet." Accessed: Feb. 02, 2025. [Online]. Available: <https://gpslog.com/>
- [40] Strava Ltd., "Perangkat Lunak Strava pada Laman Internet." Accessed: Feb. 02, 2025. [Online]. Available: <https://www.strava.com/onboarding>
- [41] J. D. K. Bishop, N. P. D. Martin, and A. M. Boies, "Cost-effectiveness of alternative powertrains for reduced energy use and CO₂ emissions in passenger vehicles," *Appl. Energy*, vol. 124, no. July 2014, pp. 44–61, 2014, doi: 10.1016/j.apenergy.2014.02.019.
- [42] Google LLC., "Google Earth pada Laman Internet." Accessed: Feb. 02, 2025. [Online]. Available: <https://earth.google.com/>
- [43] K. P. BPS, "Rata-Rata Suhu, Kelembaban Udara, Tekanan Udara dan Kecepatan Angin Menurut Bulan di Stasiun Meteorologi Maritim Teluk Bayur Padang, 2021-2023." Accessed: Feb. 02, 2025. [Online]. Available: <https://sumbar.bps.go.id/id/statistics-table?subject=539>

