

DAFTAR PUSTAKA

- [1] P. A. M. Hambali, Syamsuddin, M. R. Effendi, and E. A. Z. Hamidi, "Prototype Design of Monitoring System Base Transceiver Station (BTS) Base on Internet of Things," in *2020 6th International Conference on Wireless and Telematics (ICWT)*, 2020, pp. 1–6. doi: 10.1109/ICWT50448.2020.9243661.
- [2] A. Ibáñez-Rioja *et al.*, "Off-grid solar PV–wind power–battery–water electrolyzer plant: Simultaneous optimization of component capacities and system control," *Appl. Energy*, vol. 345, p. 121277, 2023, doi: <https://doi.org/10.1016/j.apenergy.2023.121277>.
- [3] H. W. Yan, A. Narang, H. D. Tafti, G. G. Farivar, and J. Pou, "Reduced Battery Usage in a Hybrid Battery and Photovoltaic Stand-Alone DC Microgrid with Flexible Power Point Tracking," in *2020 IEEE Energy Conversion Congress and Exposition (ECCE)*, 2020, pp. 3894–3899. doi: 10.1109/ECCE44975.2020.9235615.
- [4] M. Nirmala, R. S. Kumar, V. V. Varshini, and S. Siva, "IoT Based Battery Monitoring System For Solar PV Fed DC-DC Converter," in *2023 9th International Conference on Electrical Energy Systems (ICEES)*, 2023, pp. 322–327. doi: 10.1109/ICEES57979.2023.10110230.
- [5] O. M. Babatunde, I. H. Denwigwe, D. E. Babatunde, A. O. Ayeni, T. B. Adedaja, and O. S. Adedaja, "Techno-economic assessment of photovoltaic-diesel generator-battery energy system for base transceiver stations loads in Nigeria," *Cogent Eng.*, vol. 6, no. 1, p. 1684805, Jan. 2019, doi: 10.1080/23311916.2019.1684805.
- [6] M. N. Alam, S. Aziz, R. Karim, and S. A. Chowdhury, "Impact of Solar PV Panel Cleaning Frequency on the Performance of a Rooftop Solar PV Plant," in *2021 6th International Conference on Development in Renewable Energy Technology (ICDRET)*, 2021, pp. 1–4. doi: 10.1109/ICDRET54330.2021.9752681.
- [7] T.-Z. Ang, M. Salem, M. Kamarol, H. S. Das, M. A. Nazari, and N. Prabakaran, "A comprehensive study of renewable energy sources: Classifications, challenges and suggestions," *Energy Strateg. Rev.*, vol. 43, p. 100939, 2022, doi: <https://doi.org/10.1016/j.esr.2022.100939>.
- [8] A. H. Pandyaswargo, A. D. Wibowo, and H. Onoda, "Reusing solar panels to improve access to information and communication in an off-grid village: A financial feasibility assessment," *Energy Reports*, vol. 8, pp. 857–865, 2022, doi: <https://doi.org/10.1016/j.egyr.2022.05.141>.
- [9] D. Jiang, F. Wu, C. Wang, L. Wang, and D. Zhao, "Research on the control strategy of energy storage system in photovoltaic power station," in *8th Renewable Power Generation Conference (RPG 2019)*, 2019, pp. 1–6. doi:

- 10.1049/cp.2019.0553.
- [10] W. Jie, L. Hua, C. Peijie, Q. Deyu, and L. Shan, "Design of Energy Storage System using Retired Valve Regulated Lead Acid (VRLA) Batteries in Substations," in *2019 IEEE Conference on Energy Conversion (CENCON)*, 2019, pp. 132–136. doi: 10.1109/CENCON47160.2019.8974821.
- [11] A. Sedighfar and M. R. Moniri, "Battery state of charge and state of health estimation for VRLA batteries using Kalman filter and neural networks," in *2018 5th International Conference on Electrical and Electronic Engineering (ICEEE)*, 2018, pp. 41–46. doi: 10.1109/ICEEE2.2018.8391298.
- [12] L. He and D. Guo, "An Improved Coulomb Counting Approach Based on Numerical Iteration for SOC Estimation With Real-Time Error Correction Ability," *IEEE Access*, vol. 7, pp. 74274–74282, 2019, doi: 10.1109/ACCESS.2019.2921105.
- [13] V. Sidorov, A. Chub, and D. Vinnikov, "Efficiency Improvement of Step-Up Series Resonant DC-DC Converter in Buck Operating Mode," in *2020 IEEE 61th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON)*, 2020, pp. 1–6. doi: 10.1109/RTUCON51174.2020.9316574.
- [14] J. Ingilala and I. Vairavasundaram, "Investigation of high gain DC/DC converter for solar PV applications," *e-Prime - Adv. Electr. Eng. Electron. Energy*, vol. 5, p. 100264, 2023, doi: <https://doi.org/10.1016/j.prime.2023.100264>.
- [15] A. Najmurokhman, Kusnandar, T. Hambali, M. T. A. Hakim, and N. Ismail, "Solar Panel Charge Controller using PWM Regulation for Charging Lead Acid Batteries," in *2022 8th International Conference on Wireless and Telematics (ICWT)*, 2022, pp. 1–4. doi: 10.1109/ICWT55831.2022.9935443.
- [16] H. Andre *et al.*, "LPWAN Communication in IoT Network for Electrical Energy Monitoring," in *2022 International Symposium on Information Technology and Digital Innovation (ISITDI)*, 2022, pp. 32–35. doi: 10.1109/ISITDI55734.2022.9944470.
- [17] A. Celik, I. Romdhane, G. Kaddoum, and A. M. Eltawil, "A Top-Down Survey on Optical Wireless Communications for the Internet of Things," *IEEE Commun. Surv. Tutorials*, vol. 25, no. 1, pp. 1–45, 2023, doi: 10.1109/COMST.2022.3220504.
- [18] K. Shafique, B. A. Khawaja, F. Sabir, S. Qazi, and M. Mustaqim, "Internet of Things (IoT) for Next-Generation Smart Systems: A Review of Current Challenges, Future Trends and Prospects for Emerging 5G-IoT Scenarios," *IEEE Access*, vol. 8, pp. 23022–23040, 2020, doi: 10.1109/ACCESS.2020.2970118.
- [19] N. Sugiarta, M. A. A. Pradnyana, D. G. S. Cantona, I. M. Sugina, I. D. G.

- A. T. Putra, and I. K. E. H. Wiryanta, "Solar DC Power System Monitoring for Thermoelectric Mini-Fridge Using Blynk App," in *2021 International Conference on Advanced Mechatronics, Intelligent Manufacture and Industrial Automation (ICAMIMIA)*, 2021, pp. 168–172. doi: 10.1109/ICAMIMIA54022.2021.9807826.
- [20] G. F. L. R. Bernardes, R. Ishibashi, A. A. S. Ivo, V. Rosset, and B. Y. L. Kimura, "Prototyping low-cost automatic weather stations for natural disaster monitoring," *Digit. Commun. Networks*, vol. 9, no. 4, pp. 941–956, 2023, doi: <https://doi.org/10.1016/j.dcan.2022.05.002>.
- [21] K. Krismadinata, I. Husnaini, H. Hazman, and E. Astrid, "Real-Time Monitoring System Using *IoT* for Photovoltaic Parameters," *TEM J.*, vol. 12, pp. 1316–1322, Aug. 2023, doi: 10.18421/TEM123-11.
- [22] A. Varghese, A. M. Vasanthakumary, J. Freeman, and K. Achuthan, "Remote triggered solar energy assessment using a Pyrheliometer and a Pyranometer," in *2017 IEEE 6th International Conference on Renewable Energy Research and Applications (ICRERA)*, 2017, pp. 115–120. doi: 10.1109/ICRERA.2017.8191251.
- [23] F. Raduan and Syed Zahurul Islam, "*IoT* Enabled Environmental Data Monitoring System to Forecast Solar Generation," *Evol. Electr. Electron. Eng.*, vol. 3, no. 1 SE-Electrical and Power Electronics, pp. 469–476, Jun. 2022, [Online]. Available: <https://publisher.uthm.edu.my/periodicals/index.php/eeee/article/view/6860>
- [24] S. Zakaria, P. Mativenga, and E. A. R. E. Ariff, "An Investigation of Energy Consumption in Fused Deposition Modelling using ESP32 *IoT* Monitoring System," *Procedia CIRP*, vol. 116, pp. 263–268, 2023, doi: <https://doi.org/10.1016/j.procir.2023.02.045>.
- [25] M. Alajmi, O. Aljasem, N. Ali, A. Alqurashi, and I. Abdel-Qader, "Fault Detection and Localization in Solar Photovoltaic Arrays Framework: Hybrid Methods of Data-Analysis and a Network of Voltage-Current Sensors," in *2018 IEEE International Conference on Electro/Information Technology (EIT)*, 2018, pp. 404–410. doi: 10.1109/EIT.2018.8500264.
- [26] M.-S. Kim, H. Cho, and S. Solve, "Implementation of Fluke 8588A multimeter for differential sampling of AC waveforms based on a programmable Josephson voltage standard," in *2020 Conference on Precision Electromagnetic Measurements (CPEM)*, 2020, pp. 1–2. doi: 10.1109/CPEM49742.2020.9191801.
- [27] T. Mulyana and R. Ibrahim, "Digital anemometer and solar power meter analysis measurements for installation of wind and solar hybrid power plants," *J. Adv. Res. Fluid Mech. Therm. Sci.*, vol. 55, pp. 119–125, Mar. 2019.
- [28] Sunardi, A. Yudhana, and Furizal, "Tsukamoto Fuzzy Inference System on Internet of Things-Based for Room Temperature and Humidity Control,"

IEEE Access, vol. 11, pp. 6209–6227, 2023, doi: 10.1109/ACCESS.2023.3236183.

- [29] A. Sandryadi, Yulkifli, Yohandri, and H. Tarigan, “Development of Solar Radiation Intensity Measurement Tool Using BH1750 Sensor Based on The Internet Of Things with Smartphone Display,” *Pilar Phys.*, vol. 15, no. 2, pp. 149–157, 2022, [Online]. Available: <http://dx.doi.org/>

