

DAFTAR PUSTAKA

- [1] International Energy Agency (IEA), "Building." [Daring]. Tersedia pada: <https://www.iea.org/energy-system/buildings>
- [2] U. Khayam *dkk.*, "Status of Lighting Technology Application in Indonesia," *Sustain.*, vol. 15, no. 7, 2023, doi: 10.3390/su15076283.
- [3] W. Y. Hong dan B. N. N. Rahmat, "Energy consumption, CO2 emissions and electricity costs of lighting for commercial buildings in Southeast Asia," *Sci. Rep.*, vol. 12, no. 1, hal. 1–11, 2022, doi: 10.1038/s41598-022-18003-3.
- [4] C. Jettanasen *dkk.*, "An approach to energy conservation in lighting systems using luminaire-based sensor for automatic dimming," *Sci. Rep.*, vol. 15, no. 1, hal. 3302, 2025, doi: 10.1038/s41598-025-87813-y.
- [5] D. Pandu Wiyana dan M. Mardiaman, "Optimalisasi Penghematan Energi Listrik Untuk Penerangan Di Gedung Utama Mako Polres Jakarta Barat," *Pros. TAU SNARS-TEK Semin. Nas. Rekayasa dan Teknol.*, vol. 3, no. 1, hal. 48–61, Jan 2024, doi: 10.47970/snarstek.v2i1.550.
- [6] T. Soleha, A. Oktavia, dan S. Zein, "Peran Pencahayaana pada Suasana Perpustakaan Pusat Informasi & Kebudayaan Korea di Jakarta," *Rekajiva J. Desain Inter.*, vol. 1, no. 1, hal. 67–77, 2022.
- [7] Badan Standardisasi Nasional (BSN), *SNI 6197-2020 Konservasi Energi pada Sistem Pencahayaana*. Badan Standardisasi Nasional, 2020. [Daring]. Tersedia pada: [https://akses-sni.bsn.go.id/dokumen/2020/SNI 6197-2020/](https://akses-sni.bsn.go.id/dokumen/2020/SNI%206197-2020/)
- [8] R. Nazir, F. Akbar, H. Malik, D. A. Saputra, dan I. C. Muharram, "Analysis of the effect of environmental conditions on energy savings in lighting systems with dimming method in campus buildings," *Int. J. Power Electron. Drive Syst.*, vol. 16, no. 1, hal. 657–672, 2025, doi: 10.11591/ijpeds.v16.i1.pp657-672.
- [9] M. A. Khairi, "Rancang Bangun Sistem Kontrol Penerangan Ruangan Menggunakan Lampu Light Emitting Diode (LED) dengan Mempertimbangkan Cahaya Alami," *Univ. Andalas*, hal. 1–44, 2021.
- [10] A. S. Siregar, "Perancangan Alat Monitor Pada Sistem Penerangan Hemat Energi Dengan Pengaturan cahaya Lampu Led Menggunakan Ac - Chopper," *Univ. Andalas*, 2024.
- [11] K. R. Wagiman, M. N. Abdullah, M. Y. Hassan, N. H. Mohammad Radzi, A. H. Abu Bakar, dan T. C. Kwang, "Lighting system control techniques in commercial buildings: Current trends and future directions," *J. Build. Eng.*, vol. 31, no. September 2019, hal. 101342, 2020, doi: 10.1016/j.jobe.2020.101342.
- [12] STMicroelectronics, *Counting people with the VL53L1X long-distance ranging Time-of-Flight sensor*, no. December. 2020. [Daring]. Tersedia pada: https://www.st.com/resource/en/user_manual/dm00626942-counting-people-with-the-vl53l1x-longdistance-ranging-timeofflight-sensor-stmicroelectronics.pdf
- [13] V. N. Sulistyawan, N. A. Salim, F. G. Abas, dan N. Aulia, "Parking Tracking System Using Ultrasonic Sensor HC-SR04 and NODEMCU ESP8266 Based

- IoT,” *IOP Conf. Ser. Earth Environ. Sci.*, vol. 1203, no. 1, hal. 012028, Jun 2023, doi: 10.1088/1755-1315/1203/1/012028.
- [14] E. J. Morgan, *HC-SR04 Ultrasonic Sensor Datasheet*. 2014.
 - [15] P. Discription, “Adjustment : HC-SR501 PIR MOTION DETECTOR,” hal. 3–5, 2011.
 - [16] STMicroelectronics, *VL53L1X A new generation, long distance ranging Time-of-Flight sensor based on ST’s FlightSense™ technology*, no. August. 2024.
 - [17] STMicroelectronics, *Datasheet STHS34PF80 Low-power, high-sensitivity infrared (IR) sensor for presence and motion detection*, no. July. 2023.
 - [18] A. Khuriati, “Sistem Pemantau Intensitas Cahaya Ambien dengan Sensor BH1750 Berbasis Mikrokontroler Arduino Nano,” *Berk. Fis.*, vol. 25, no. 13, hal. 105–110, 2022.
 - [19] Nordic Semiconductor, *nRF24L01+ Single Chip 2.4GHz Transceiver Product Specification v1.0*, no. 1. 2008.
 - [20] I. Gede Putu Nobby Aswi Phala, “Perancangan Dan Implementasi Pemilihan Cluster Pada Jaringan Sensor Nirkabel Dengan Modul,” *Inst. Teknol. Sepuluh Nop.*, hal. 1–105, 2018.
 - [21] P. Christ, B. Neuwinger, F. Werner, dan U. Ruckert, “Performance analysis of the nRF24L01 ultra-low-power transceiver in a multi-transmitter and multi-receiver scenario,” in *2011 IEEE SENSORS Proceedings*, IEEE, Okt 2011, hal. 1205–1208. doi: 10.1109/ICSENS.2011.6127100.
 - [22] C. P. Hadisusila, “Aplikasi Arduino dalam Teknik I/O untuk Mengintegrasikan dan Mengendalikan Perangkat Elektronik,” *Nusant. Eng.*, vol. 6, no. 2, hal. 96–102, Okt 2023, doi: 10.29407/noe.v6i2.21308.

