

## DAFTAR PUSTAKA

- [1] B. P. S. Indonesia, “Jumlah Penduduk Pertengahan Tahun - Tabel Statistik.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://www.bps.go.id/id/statistics-table/2/MTk3NSMy/jumlah-penduduk-pertengahan-tahun--ribu-jiwa-.html>
- [2] Sekretariat Perusahaan PT PLN (Persero), “Statistik PLN 2022,” PT PLN (Persero), Jakarta, ISSN 0852-8179, Jun 2023.
- [3] *Pertamina energy outlook, 2023: panduan transisi energi Indonesia : risiko dan peluang terkait iklim*. Pertamina Energy Institute, 2023.
- [4] Lawrence Berkeley National Laboratory, United States, dan United States, Ed., *ASEAN-USAID Buildings Energy Conservation Project. Final report, Volume 3: Audits*. Washington, D.C.: Oak Ridge, Tenn: United States. Agency for International Development ; distributed by the Office of Scientific and Technical Information, U.S. Dept. of Energy, 1992. Diakses: 4 Oktober 2024. [Electronic resource]. Tersedia pada: <http://www.osti.gov/servlets/purl/10167947-ptM8BE>
- [5] T. S. Soedirdjo dan W. Gonardi, “PROYEK PEMBANGUNAN GEDUNG PERKANTORAN ENZO DI BEKASI,” s1, Universitas Atma Jaya Yogyakarta, 2023. Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://e-journal.uajy.ac.id/30172/>
- [6] K. P. D. A. K. Putra, I. M. Jaya, dan I. M. S. Kader, “Perencanaan Struktur Gedung Kantor Camat Payangan Menggunakan Struktur Baja,” diploma, Politeknik Negeri Bali, 2022. Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://repository.pnb.ac.id/3658/>
- [7] H. I. Dewi, C. Mustofa, dan T. Riyanto, “KONSEP MIXED-USE BUILDING DAN CENTRAL BUSINESS DISTRICT SEBAGAI ALTERNATIF PENATAAN BANGUNAN DAN KAWASAN UNTUK KEBERLANJUTAN KOTA,” *Pros. Semnastek*, no. 0, Art. no. 0, Nov 2016,



- Diakses: 8 Oktober 2024. [Daring]. Tersedia pada:  
<https://jurnal.umj.ac.id/index.php/semnastek/article/view/775>
- [8] M. Zhang dan P. Li, “Analyzing the impact of urbanization on energy consumption in Jiangsu Province,” *Nat. Hazards*, vol. 76, no. 1, hlm. 177–190, Mar 2015, doi: 10.1007/s11069-014-1479-7.
- [9] Z. Shari, N. L. Mohamad, dan N. D. Dahlan, “BUILDING ENVELOPE RETROFIT FOR ENERGY SAVINGS IN MALAYSIAN GOVERNMENT HIGH-RISE OFFICES: A CALIBRATED ENERGY SIMULATION,” *J. Teknol. Sci. Eng.*, vol. 85, no. 4, Art. no. 4, Jun 2023, doi: 10.11113/jurnalteknologi.v85.15124.
- [10] A. Martin, D. R. Agusta, dan N. Simangunsong, “Audit energi sistem tata cahaya dan tata udara lantai 2 & 3 pada bangunan gedung toko buku di Pekanbaru,” *Turbo J. Program Studi Tek. Mesin*, vol. 11, no. 2, Art. no. 2, Des 2022, doi: 10.24127/trb.v11i2.2133.
- [11] H. Gao, C. Koch, dan Y. Wu, “Building information modelling based building energy modelling: A review,” *Appl. Energy*, vol. 238, hlm. 320–343, Mar 2019, doi: 10.1016/j.apenergy.2019.01.032.
- [12] M. S. Al-Homoud, “Computer-aided building energy analysis techniques,” *Build. Environ.*, vol. 36, no. 4, hlm. 421–433, Mei 2001, doi: 10.1016/S0360-1323(00)00026-3.
- [13] A. E. Pravitasari dkk., “Measuring Urban and Regional Sustainability Performance in Java: A Comparison Study Between 6 Metropolitan Areas,” *IOP Conf. Ser. Earth Environ. Sci.*, vol. 556, no. 1, hlm. 012004, Agu 2020, doi: 10.1088/1755-1315/556/1/012004.
- [14] “Provinsi DKI Jakarta Dalam Angka 2024 - Badan Pusat Statistik Provinsi Dki Jakarta.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada:  
<https://jakarta.bps.go.id/id/publication/2024/02/28/baae7b80d16101c7bef30cc0/provinsi-dki-jakarta-dalam-angka-2024.html>
- [15] B. P. S. K. Bandung, “Kota Bandung Dalam Angka 2024 - Badan Pusat Statistik Kota Bandung.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada:



<https://bandungkota.bps.go.id/id/publication/2024/02/28/991b8451fddb9bdd7d374894/kota-bandung-dalam-angka-2024.html>

- [16] B. P. S. K. Yogyakarta, “Kota Yogyakarta Dalam Angka 2024.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://jogjakota.bps.go.id/id/publication/2024/02/28/6a6d984e3d10d2113c9d3f3b/kota-yogyakarta-dalam-angka-2024.html>
- [17] B. P. S. K. Surakarta, “Kota Surakarta Dalam Angka 2024 - Badan Pusat Statistik Kota Surakarta.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://surakartakota.bps.go.id/id/publication/2024/02/28/349be2091435020bbd015a7a/kota-surakarta-dalam-angka-2024.html>
- [18] B. P. S. K. Surabaya, “Kota Surabaya Dalam Angka 2024.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://surabayakota.bps.go.id/id/publication/2024/02/28/38c76de6074beea6951be69e/kota-surabaya-dalam-angka-2024.html>
- [19] B. P. S. K. Semarang, “Kota Semarang Dalam Angka 2024 - Badan Pusat Statistik Kota Semarang.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://semarangkota.bps.go.id/id/publication/2024/02/28/a1c4e17788918ee0a85fe480/kota-semarang-dalam-angka-2024.html>
- [20] I. Chairil, “KAJIAN PENGARUH PENINGKATAN JUMLAH PENDUDUK TERHADAP KETERSEDIAAN INFRASTRUKTUR (Studi Kasus di Kota Pontianak),” *J. Tek.-SIPIL*, vol. 17, Des 2017, doi: 10.26418/jtsft.v17i2.42167.
- [21] D. J. Ketenagalistrikan, “Statistik Ketenagalistrikan 2023,” 2024. Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: [https://gatrik.esdm.go.id/frontend/download\\_index?kode\\_category=statistik](https://gatrik.esdm.go.id/frontend/download_index?kode_category=statistik)
- [22] B. P. S. K. Bandung, “Pelanggan, Daya Tersambung dan Energi Terjual Perusahaan Listrik Negara Berdasarkan Jenis Tarif Di Kota Bandung, 2017 - Tabel Statistik.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://bandungkota.bps.go.id/id/statistics-table/1/MjIzIzE=/pelanggan-daya-tersambung-dan-energi-terjual-perusahaan-listrik-negara-berdasarkan-jenis-tarif-di-kota-bandung-2017.html>



- [23] J. Hendri, R. Nusa, dan H. Prasetyowati, “DISTRIBUSI DAN KEPADATAN VEKTOR DEMAM BERDARAH DENGUE (DBD) BERDASARKAN KETINGGIAN TEMPAT DI KABUPATEN CIAMIS JAWA BARAT,” *J. Ekol. Kesehat.*, vol. 14, Mei 2016, doi: 10.22435/jek.v14i1.4654.17-28.
- [24] N. D. Istiawan dan D. Kastono, “Pengaruh Ketinggian Tempat Tumbuh terhadap Hasil dan Kualitas Minyak Cengkih ( *Syzygium aromaticum* (L.) Merr. & Perry.) di Kecamatan Samigaluh, Kulon Progo,” *Vegetalika*, vol. 8, no. 1, Art. no. 1, Feb 2019, doi: 10.22146/veg.35744.
- [25] “Laporan Pemantauan Kualitas Udara | Dinas Lingkungan Hidup DKI Jakarta.” Diakses: 4 Oktober 2024. [Daring]. Tersedia pada: <https://lingkunganhidup.jakarta.go.id/publikasi/laporanudara>
- [26] B. P. S. K. Bandung, “Temperatur (Derajat Celcius) per Bulan di kota Bandung - Tabel Statistik.” Diakses: 4 Oktober 2024. [Daring]. Tersedia pada: <https://bandungkota.bps.go.id/id/statistics-table/2/MTI0OCMy/temperatur-derajat-celcius-per-bulan-di-kota-bandung.html>
- [27] W. Anggraini dan D. Fardila, “Efektivitas Konsep Green Building Terhadap Efisiensi dan Konservasi Energi pada Gedung Perkantoran (Studi Kasus: Kantor Bupati Kabupaten Sumbawa),” *J. Tek. Ind. Terintegrasi JUTIN*, vol. 6, no. 3, hlm. 636–644, Jul 2023, doi: 10.31004/jutin.v6i3.16303.
- [28] R. Madani dan A. E. Winahyo, “Simulation-Based Exploration with Energyplus as an Energy Efficiency Strategy,” *UKaRsT*, vol. 8, no. 1, Art. no. 1, Apr 2024, doi: 10.30737/ukarst.v8i1.5534.
- [29] H. Fitriani, M. Rifqi, M. Foralisa, A. Muhtarom, dan G. Taylor, “Investigation of Energy Saving Using Building Information Modeling for Building Energy Performance in Office Building,” *Civ. Eng. Archit.*, vol. 10, hlm. 1280–1292, Mei 2022, doi: 10.13189/cea.2022.100404.
- [30] “Efficiency Energy on Office Building in South Jakarta - IOPscience.” Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: <https://iopscience.iop.org/article/10.1088/1755-1315/520/1/012022>
- [31] B. A. Wibawa, R. S. Saraswati, A. B. Chandra, dan B. E. Saputro, “Energy Optimization on Campus Building Using Sefaira,” *IOP Conf. Ser. Earth*



- Environ. Sci.*, vol. 738, no. 1, hlm. 012015, Apr 2021, doi: 10.1088/1755-1315/738/1/012015.
- [32] M. M. Fahmi dan F. Mutia, “Optimasi Penggunaan Fasad Berdasarkan Energi dalam Proses Perancangan Gedung Perkantoran di Surabaya,” *INERSIA Informasi Dan Ekspose Has. Ris. Tek. Sipil Dan Arsit.*, vol. 18, no. 1, Art. no. 1, Jun 2022, doi: 10.21831/inersia.v18i1.48915.
- [33] M. Mukhtar, B. Hamzah, dan R. Mulyadi, “PENGARUH GEOMETRI DAN WINDOW TO WALL RATIO TERHADAP OVERALL THERMAL TRANSFER VALUE DAN KONSUMSI ENERGI PENDINGIN BANGUNAN,” *Nat. Natl. Acad. J. Archit.*, vol. 10, no. 1, Art. no. 1, Jun 2023, doi: 10.24252/nature.v10i1a2.
- [34] F. S. Utama, *Simulasi konsumsi energi gedung A Kuliah Bersama Universitas Negeri Malang dengan empat konservasi energi Greenship EEC menggunakan EDGE dan Ecotect / Fergiharto Surya Utama*. Universitas Negeri Malang. Program Studi Teknik Sipil, 2020. Diakses: 8 Oktober 2024. [Daring]. Tersedia pada: [//mulok.lib.um.ac.id%2Findex.php%3Fp%3Dshow\\_detail%26id%3D104699](http://mulok.lib.um.ac.id%2Findex.php%3Fp%3Dshow_detail%26id%3D104699)
- [35] N. Al-Tamimi, “Building Envelope Retrofitting Strategies for Energy-Efficient Office Buildings in Saudi Arabia,” *Buildings*, vol. 12, no. 11, Art. no. 11, Nov 2022, doi: 10.3390/buildings12111900.
- [36] A. N. Zoure dan P. V. Genovese, “Implementing natural ventilation and daylighting strategies for thermal comfort and energy efficiency in office buildings in Burkina Faso,” *Energy Rep.*, vol. 9, hlm. 3319–3342, Des 2023, doi: 10.1016/j.egyr.2023.02.017.
- [37] B. Panjaitan dkk., *Energy Consumption Model in Commercial Buildings in Samarinda: Analysis and Recommendations for Energy Efficiency Improvement*. 2023.
- [38] B. D. Hunn, *Fundamentals of Building Energy Dynamics*. MIT Press, 1996.
- [39] S. Birkha Mohd Ali, M. Hasanuzzaman, N. A. Rahim, M. A. A. Mamun, dan U. H. Obaidallah, “Analysis of energy consumption and potential energy



- savings of an institutional building in Malaysia,” *Alex. Eng. J.*, vol. 60, no. 1, hlm. 805–820, Feb 2021, doi: 10.1016/j.aej.2020.10.010.
- [40] A. Effendi dan Miftahul, “EVALUASI INTENSITAS KONSUMSI ENERGI LISTRIK MELALUI AUDIT AWAL ENERGI LISTRIK DI RSJ.PROF.HB.SAANIN PADANG,” *J. Tek. Elektro*, vol. 5, no. 2, Art. no. 2, Jul 2016.
- [41] C. Radityatama, J. Windarta, dan E. Handoyo, “ANALISA INDEKS KONSUMSI ENERGI DAN KUALITAS DAYA LISTRIK DI KAMPUS UNDIP,” *Transient J. Ilm. Tek. Elektro*, vol. 10, no. 1, Art. no. 1, Mar 2021, doi: 10.14710/transient.v10i1.168-175.
- [42] R. P. N. Budiarti, F. A. Susanto, B. Riskianto, dan P. Nerisafitra, “Pengembangan Desain Interaktif 3D VR-Room Patient Menggunakan Unity 3D Engine Dan Evaluasi Usability Testing,” *J. Ilm. Inform.*, vol. 4, no. 2, Art. no. 2, 2019.
- [43] H. L. Koçalioglu dan A. Onat, *UNIVERSITY CAMPUS BUILDING ENERGY MODELING: A CASE STUDY*. 2021.
- [44] T. Hemsath dan K. A. Bandhosseini, *Energy Modeling in Architectural Design*. Taylor & Francis, 2017.
- [45] D. Crawley, L. Lawrie, F. Winkelmann, dan C. Pedersen, *EnergyPlus: New Capabilities in a Whole-Building Energy Simulation Program*. 2001.
- [46] I. Qaisar dan Q. Zhao, “Energy baseline prediction for buildings: A review,” *Results Control Optim.*, vol. 7, hlm. 100129, Jun 2022, doi: 10.1016/j.rico.2022.100129.
- [47] M. Krones, *A Method to Identify Energy Efficiency Measures for Factory Systems Based on Qualitative Modeling*. Springer, 2017.
- [48] UNINDO, *Module 18: Energy Efficiency in Buildings*. [Daring]. Tersedia pada: [https://www.unido.org/sites/default/files/2009-02/Module18\\_0.pdf](https://www.unido.org/sites/default/files/2009-02/Module18_0.pdf)
- [49] J. P. HOLMAN, *Heat Transfer*. 1968.
- [50] L. PERMATASARI, “PENGARUH KECEPATAN ALIRAN TERHADAP EFEKTIVITAS DARI HEAT EXCHANGER SHELL AND TUBE 1-2 PASS (The Effect of Flow Rate on The Effectivity of Heat Exchanger Shell and Tube



- 1-2 Pass),” other, undip, 2016. Diakses: 20 Mei 2024. [Daring]. Tersedia pada:  
<http://eprints.undip.ac.id/58296/>
- [51] U. Knaack, E. Koenders, dan E. Koenders, *Building Physics of the Envelope: Principles of Construction*. Walter de Gruyter GmbH, 2018.
- [52] B. Firmansyah dan K. M., “PENGARUH VARIASI KETEBALAN ISOLATOR TERHADAP LAJU KALOR DAN PENURUNAN TEMPERATUR PADA PERMUKAAN DINDING TUNGKU BIOMASSA,” *Semin. Nas. Mesin Dan Ind. SNMI9 2014*, hlm. 208–214, Des 2019.
- [53] J. Pohl, “Building Science: Concepts and Application,” hlm. 259–265, Mei 2011, doi: 10.1002/9781444392333.refs.
- [54] P. U. Pramesti, M. Ramandhika, M. I. Hasan, dan H. Werdiningsih, “The influence of building envelope design in energy efficiency: OTTV calculation of multi storey building,” *IOP Conf. Ser. Earth Environ. Sci.*, vol. 623, no. 1, hlm. 012075, Jan 2021, doi: 10.1088/1755-1315/623/1/012075.
- [55] W. L. Angel, *HVAC Design Sourcebook*. McGraw Hill Professional, 2011.
- [56] P. Tymkow, S. Tassou, M. Kolokotroni, dan H. Jouhara, *Building Services Design for Energy Efficient Buildings*. Routledge, 2013.
- [57] A. M. Nugroho dan W. Iyati, *Arsitektur Bioklimatik: Inovasi Sains Arsitektur Negeri untuk Kenyamanan Termal Alami Bangunan*. Universitas Brawijaya Press, 2021.
- [58] S. S. Utami dkk., *KARYA HIJAU KU UNTUK KAMPUS BIRUKU*. UGM PRESS, 2021.
- [59] V. Ž. Leskovar dan M. Premrov, *Energy-Efficient Timber-Glass Houses*. Springer Science & Business Media, 2013.
- [60] L. Brackney, A. Parker, D. Macumber, dan K. Benne, *Building Energy Modeling with OpenStudio: A Practical Guide for Students and Professionals*. Springer, 2018.
- [61] M. Pinterić, *Building Physics: From physical principles to international standards*. Springer International Publishing, 2021.





- [62] Z. Y. Yu, V. K. Soo, dan M. Doolan, “The Effect of Consumer Behaviour on the Life Cycle Assessment of Energy Efficient Lighting Technologies,” *Procedia CIRP*, vol. 40, hlm. 185–190, Jan 2016, doi: 10.1016/j.procir.2016.01.097.
- [63] M. S. Cengiz, “Efficiency Relationship of LED Parameters in Solid State Lighting,” *Bitlis Eren Univ. J. Sci. Technol.*, vol. 9, no. 1, Art. no. 1, Jun 2019, doi: 10.17678/beuscitech.479116.
- [64] M. S. Kandelousi, *HVAC System*. BoD – Books on Demand, 2018.
- [65] A. D. Smith dan G. Gill, *Toward Zero Carbon: The Chicago Central Area Decarbonization Plan*. Images Publishing, 2011.
- [66] M. Elnour dkk., “Performance and energy optimization of building automation and management systems: Towards smart sustainable carbon-neutral sports facilities,” *Renew. Sustain. Energy Rev.*, vol. 162, hlm. 112401, Jul 2022, doi: 10.1016/j.rser.2022.112401.
- [67] B. Briheim dan J.-O. Dalenbäck, “SOLAR DHW SYSTEM EVALUATION WITH F-CHART,” dalam *Energy Conservation in Buildings*, A. A. M. Sayigh, Ed., Oxford: Pergamon, 1991, hlm. 260–265. doi: 10.1016/B978-0-08-037215-0.50051-1.
- [68] J. E. Piper, *Operations and Maintenance Manual for Energy Management*. M.E. Sharpe, 1999.
- [69] A. Hakansson, M. Höjer, R. J. Howlett, dan L. C. Jain, *Sustainability in Energy and Buildings: Proceedings of the 4th International Conference in Sustainability in Energy and Buildings (SEB'12)*. Springer Science & Business Media, 2013.
- [70] J. Mathur dan A. Bhatia, *Building Energy Simulation: A Workbook Using DesignBuilderTM*. CRC Press, 2017.
- [71] S. K. Sahu, “Cooling Load Estimation for a Multi-story office building,” MTech, 2014. Diakses: 14 Oktober 2024. [Daring]. Tersedia pada: <http://ethesis.nitrkl.ac.in/5804/>





- [72] F. Carlucci, *Responsive Envelopes and Climate Change: State of the Art, Design Strategies, and Future Perspectives for Resilient Buildings*. Springer Nature.

