

DAFTAR PUSTAKA

- ABB SACE “Photovoltaic Plants.” (2014). *Technical Application Papers No.10*.
- African Union. (2021). *Is energy transition the answer to Africa’s Climate Change and Socio-Economic Development? What will it take for Africa to reach net-zero emissions?* <https://au.int/en/pressreleases/20211109/energy-transition-answer-africas-climate-change-and-socio-economic>
- Aggarwal, S. (2020). Pathways To Net Zero Carbon Buildings In Reach Around The World Today. *Forbes*.
<https://www.forbes.com/sites/energyinnovation/2020/01/29/pathways-to-net-zero-carbon-buildings-in-reach-around-the-world-today/?sh=5c2489623b40>
- Ahirwar, P., Kori, A. K., & Kapoor, S. (2021). Pre-Installation Analysis via “PVsyst” “HOMER Pro” to Design Simulate a 50kWp Solar Grid-Tied PV System for Rural Area Electrification, India. *2021 5th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, ICEECOT 2021 - Proceedings*, 388–394. <https://doi.org/10.1109/ICEECOT52851.2021.9708056>
- Attia, S. (2018). Net Zero Energy Buildings (NZEB): Concepts, Frameworks and Roadmap for Project Analysis and Implementation. Dalam *Net Zero Energy Buildings (NZEB) : concepts, frameworks and roadmap for project analysis and implementation*. Elsevier.
<http://www.sciencedirect.com:5070/book/9780128124611/net-zero-energy-buildings-nzeb?via=ihub=>
- Babatunde, A. A., & Abbasoglu, S. (2015). Evaluation of field data and simulation results of a photovoltaic system in countries with high solar radiation. *Turkish Journal of Electrical Engineering & Computer Sciences*, 23, 1608–1618.
<https://doi.org/10.3906/elk-1402-313>
- Badan Perencanaan Pembangunan Daerah (Bappeda), & Badan Penelitian dan Pengembangan Daerah (Litbangda) Kabupaten Magelang. (2021). *Kajian Lingkungan Hidup Strategis (KLHS) Perubahan Rencana Pembangunan*

Jangka Menengah Daerah (RPJMD) Kabupaten Magelang Tahun 2019 - 2024.

Badan Pusat Statistik Kabupaten Magelang. (2017). Kabupaten Magelang Dalam Angka 2017. Dalam 2017. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2018a). Kabupaten Magelang Dalam Angka 2018. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2018b). Statistik Daerah Kabupaten Magelang 2018. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2019a). Kabupaten Magelang Dalam Angka 2019. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2019b). Statistik Daerah Kabupaten Magelang 2019. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2020a). Kabupaten Magelang Dalam Angka 2020. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2020b). Statistik Daerah Kabupaten Magelang 2020. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2021a). Kabupaten Magelang Dalam Angka 2021. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2021b). Statistik Daerah Kabupaten Magelang 2021. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2022a). Kabupaten Magelang Dalam Angka 2022. <https://magelangkab.bps.go.id/>

Badan Pusat Statistik Kabupaten Magelang. (2022b). Statistik Daerah Kabupaten Magelang 2022. <https://magelangkab.bps.go.id/>

Badan Pusat Statistika. (2023, Agustus 1). Juli 2023 inflasi Year on Year (y-on-y) sebesar 3,08 persen. Inflasi tertinggi terjadi di Merauke sebesar 5,21 persen. <https://www.bps.go.id/pressrelease/2023/08/01/1956/juli-2023-inflasi-year-on-year--y-on-y--sebesar-3-08-persen--inflasi-tertinggi-terjadi-di-merauke-sebesar-5-21-persen.html>.

Standar Nasional Indonesia 8395:2017, (2017).

Bagaskara, A., Kurniawan, D., Bintang, H. M., Julion, R., Shahnaz, S., Firdausi, N., Diah, H., Christian, P. J., Citraningrum, M., & Tumiwa, F. (2023). *Indonesia Solar Energy Outlook 2023 The emergence of solar PV in fueling Indonesia's energy transition.*

Bank Mandiri. (2023). *BMRI 2023 Q2 Presentation.*
<https://www.bankmandiri.co.id/documents/38265486/0/BMRI+2023+Q2+Presentation.pdf/8a81e605-7cfb-766b-eb6e-f84e0d648a20?t=1693558431364>

Bansal, H., Yawle, S., & Suhane, P. (2017). Design and Economic Analysis of Stand Alone Solar PV Energy System by using HOMER and Pvsyst Software. Dalam *International Journal of Research* (Nomor 2).

Baqir, M., & Channi, H. K. (2021). Analysis and design of solar PV system using Pvsyst software. *Materials Today: Proceedings*, 48, 1332–1338.
<https://doi.org/10.1016/j.matpr.2021.09.029>

Belussi, L., Barozzi, B., Bellazzi, A., Danza, L., Devitofrancesco, A., Fanciulli, C., Ghellere, M., Guazzi, G., Meroni, I., Salamone, F., Scamoni, F., & Scrosati, C. (2019). A review of performance of zero energy buildings and energy efficiency solutions. *Journal of Building Engineering*, 25, 100772.
<https://doi.org/10.1016/J.JOBE.2019.100772>

Boedoyo, M. S. (2013). Potensi dan Peranan Plts Sebagai Energi Alternatif Masa Depan di Indonesia. *Jurnal Sains dan Teknologi Indonesia.*
https://www.researchgate.net/profile/m-boedoyo/publication/277916035_potensi_dan_peranan_plts_sebagai_energi_alternatif_masa_depan_di_indonesia/links/55769f6d08aeb6d8c01af43f/potensi-dan-peranan-plts-sebagai-energi-alternatif-masa-depan-di-indonesia

Bogacka, M., Pikoń, K., & Landrat, M. (2017). Environmental impact of PV cell waste scenario. *Waste Management*, 70, 198–203.
<https://doi.org/10.1016/J.WASMAN.2017.09.007>

Boxwell, M. (2012). *Solar Electricity Handbook A simple, practical guide to solar energy: how to design and install photovoltaic solar electric systems.* Greenstream Publishing. www.GreenstreamPublishing.com

- Celik, I., Song, Z., Phillips, A. B., Heben, M. J., & Apul, D. (2018). Life cycle analysis of metals in emerging photovoltaic (PV) technologies: A modeling approach to estimate use phase leaching. *Journal of Cleaner Production*, 186, 632–639. <https://doi.org/10.1016/J.JCLEPRO.2018.03.063>
- Chenni, R., Matagne, E., & Khennane, M. (2011). Study of Solar Radiation in View of Photovoltaic Systems Optimization. *Smart Grid and Renewable Energy*, 02(04), 367–374. <https://doi.org/10.4236/SGRE.2011.24042>
- Curtis, T. L., Buchanan, H., Heath, G., Smith, L., & Shaw, S. (2021). *Solar Photovoltaic Module Recycling: A Survey of U.S. Policies and Initiatives*. www.nrel.gov/publications.
- Curtis, T. L., Buchanan, H., Smith, L., & Heath, G. (2030). *A Circular Economy for Solar Photovoltaic System Materials: Drivers, Barriers, Enablers, and U.S. Policy Considerations*. www.nrel.gov/publications.
- Dinas Pekerjaan Umum Sumber Daya Air dan Penataan Ruang Provinsi Jawa Tengah. (2021). *Rata-Rata Suhu Udara, Kelembaban, Tekanan Udara, Kecepatan Angin, Curah Hujan, dan Penyinaran Matahari Kabupaten Magelang*.
- Direktorat Jenderal Energi Baru Terbarukan dan Konservasi Energi - Kementerian Energi Sumber Daya Mineral. (2021). *Public Hearing Revisi Peraturan Menteri Tentang PLTS Atap*. <https://ebtke.esdm.go.id/post/2023/01/10/3396/public.hearing.revisi.peraturan.menteri.tentang.plts.atap>
- Direktorat Jenderal Pengendalian Perubahan Iklim, & Kementerian Lingkungan Hidup dan Kehutanan. (2016). *Perubahan Iklim, Perjanjian Paris, dan Nationally Determined Contribution*.
- Diwania, S., Agrawal, S., Siddiqui, A. S., & Singh, S. (2020). Photovoltaic–thermal (PV/T) technology: a comprehensive review on applications and its advancement. *International Journal of Energy and Environmental Engineering*, 11(1), 33–54. <https://doi.org/10.1007/S40095-019-00327-Y/TABLES/2>

- Duffie, J. A., Beckman, W. A., & Blair, Nate. (2020). *Solar engineering of thermal processes, photovoltaics and wind* (Fifth). Wiley.
- Dwi, M., Ramadhan, C., Aji, P., Sidiq, R., Ulfa, A. N., Ahmad, R. Z., & Putra, J. T. (2021). Perancangan Pembangkit Listrik Tenaga Surya (PLTS) pada Kolam Budidaya di Daerah Sentono Menggunakan Software Pvsyst. *JUPITER (Jurnal Pendidikan Teknik Elektro)*, 6(2), 18–30. <http://e-journal.unipma.ac.id/index.php/JUPITER/article/view/10519>
- E. A. Karuniawan. (2021). Analisis Perangkat Lunak PV syst, PV Sol, dan HelioScope dalam simulasi Fixed Tilt Photovoltaic. *Mercubuana*, 12, 100–105. <https://doi.org/10.22441/jte.2021.v12i3.001>.
- Endriatno, N., Sudarsono, S., Sudia, B., Imran, A. I., Aminur, A., & Aksar, P. (2019). Analisis Potensi Energi Matahari di Kota Kendari. *DINAMIKA : Jurnal Ilmiah Teknik Mesin*, 11(1), 19. <https://doi.org/10.33772/djitm.v11i1.9055>
- Energy Agency, I., & Nations Environment Programme, U. (2020). *GlobalABC Roadmap for Buildings and Construction Towards a zero-emission, efficient, and resilient buildings and construction sector*. www.iea.org
- European Union. (2019). *OVERVIEW | Zero-Energy Buildings: does the definition influence their design and implementation?* <https://build-up.ec.europa.eu/en/resources-and-tools/articles/overview-zero-energy-buildings-does-definition-influence-their-design>
- Google Earth. (2023). *Lokasi Dinas Pendidikan Dan Kebudayaan Kabupaten Magelang*. <https://www.google.com/maps/place/Dinas+Pendidikan+Dan+Kebudayaan+Kabupaten+Magelang/data=!4m2!3m1!1s0x2e7a8c6297a95c19:0x9405aeaa5837892b?gl=ID&hl=id>.
- Hapsari, M. A., & Subiyanto, S. (2020). Fuzzy AHP based optimal design building-attached photovoltaic system for academic campus. *International Journal of Photoenergy*, 2020. <https://doi.org/10.1155/2020/6508329>
- Harb, S., Kedia, M., Zhang, H., & Balog, R. S. (2013). Microinverter and string inverter grid-connected photovoltaic system - A comprehensive study.

- Conference Record of the IEEE Photovoltaic Specialists Conference*, 2885–2890. <https://doi.org/10.1109/PVSC.2013.6745072>
- Harkouss, F., & Côte, U. (2018). *Optimal design of net zero energy buildings under different climates Optimal design of net zero energy buildings under different climates. Mechanical engineering [physics.class-ph]. COMUE.* <https://theses.hal.science/tel-01891916>
- Hidayat, F., Winardi, B., & Nugroho, A. (2018). Analisis Ekonomi Perencanaan Pembangkit Listrik Tenaga Surya (PLTS) Di Departemen Teknik Elektro Universitas Diponegoro. *TRANSIENT*, 7.
- <https://amper.md/>. (2020). *Datasheet Inverter “X.”* <https://amper.md/wp-content/uploads/2020/05/gw50-60k-mt.pdf>.
- <https://d2fp8gxc7iq0s.cloudfront.net/>. (2023). *Datasheet Panel Surya “X.”* <https://d2fp8gxc7iq0s.cloudfront.net/documents/wFKGH5yWLpSHiu7gCpA0zqKaGdJccitimCGKRgG.pdf>.
- <https://ebtke.esdm.go.id>. (2022). *Aplikasi Pelayanan dan Pelaporan PLTS Atap.* <https://ebtke.esdm.go.id/simantaps/faq>
- <https://ergisnodiffusion.com>. (2023). *Thin Film Photovoltaics.* <https://ergisnodiffusion.com/thin-film-photovoltaics>.
- <https://goodwe-inverter.hu/>. (2020). *Dataseheet Inverter “Y.”* <https://goodwe-inverter.hu/wp-content/uploads/SMT-LVSMT.pdf>.
- <https://list.solar>. (2021). *PVSyst Review: Pros and Cons of PV system design software package.* <https://list.solar/news/pvsyst-review/>
- <https://rollsbattery.com>. (2023). *Datasheet Baterai.* <https://rollsbattery.com/battery/s12-95agm-re/>.
- <https://shopee.co.id/>. (2023). *Harga SCC.* https://shopee.co.id/product/239556532/20812599081?gclid=CjwKCAjwxOymBhAFeiwAnodBLHBLOQpkLjjXb3nYWb35X7u0sFYx_FMTFVH7SwhbYEEvM5HsNgIkPRoCs20QAvD_BwE.
- <https://solinved.com>. (2016). *Datasheet SCC MPK.* <https://solinved.com/wp-content/uploads/2022/03/MPK-usersmanual.pdf>.

- <https://tokopedia.com>. (2023a). *Harga Baterai*.
<https://tokopedia.link/DG8IIEvB0Cb>.
- <https://tokopedia.com>. (2023b). *Harga Inverter* “X.”
<https://tokopedia.link/BJK8IFbD0Cb>.
- <https://tokopedia.com>. (2023c). *Harga Inverter* “Y.”
<https://tokopedia.link/6iJX8WwD0Cb>.
- <https://tokopedia.com>. (2023d). *Harga Panel Surya* “X.”
<https://tokopedia.link/JCbzlKzE0Cb>.
- <https://tokopedia.com>. (2023e). *Harga Panel Surya* “Y.”
<https://tokopedia.link/MF01RDTE0Cb>.
- <https://www.enfsolar.com>. (2022). *Datasheet Panel Surya* "Y:
https://www.enfsolar.com/pv/panel-datasheet/crystalline/47504?gclid=Cj0KCQjwib2mBhDWARIsAPZUn_10aVItAnoqE3H25e0kKW1QTOyEI3GsxPYv-- .
- Indonesia Clean Energy Development. (2020). *Panduan Perencanaan dan Pemanfaatan PLTS Atap di Indonesia*.
- Indonesia.go.id. (2023). *Indonesia.go.id - Kini Beli PLTS Atap Bisa Dicicil*.
<https://indonesia.go.id/kategori/berita/2849/kini-beli-plts-atap-bisa-dicicil?lang=1>
- Institute for Essential Services Reform. (2023). *Pemprov Jateng Genjot Pemanfaatan PLTS Atap di Lingkungan Pemda - IESR*.
<https://iesr.or.id/pemprov-jateng-genjot-pemanfaatan-plts-atap-di-lingkungan-pemda>
- Institute of Electrical and Electronic Engineering. (2000). IEEE Recommended Practice for Utility Interface of Photovoltaic (PV) Systems. *IEEE Std 929-2000*, i-. <https://doi.org/10.1109/IEEESTD.2000.91304>
- International Renewable Energy Agency (IRENA), & International Energy Agency Photovoltaic Power Systems (IEA-PVPS). (2016). *End-of-life Management Solar Photovoltaic Panels*. <https://www.irena.org/publications/2016/Jun/End-of-life-management-Solar-Photovoltaic-Panels>

- Iskandar, H. R. (2020). *Praktis Belajar Pembangkit Listrik Tenaga Surya*. Deepublish.
- Jones, R. (2015). Observing classroom behavior: A qualitative study. *Educational Research Quarterly*, 39(2), 123–145.
- Kalogirou, S. A. (2014). *Solar Energy Engineering Processes and Systems Second Edition* (2 ed.). Elsevier Inc. <http://store.elsevier.com/>
- Kementerian Energi Sumber Daya Mineral. (2012). *Matahari Untuk PLTS di Indonesia*. <https://www.esdm.go.id/id/media-center/arsip-berita/matahari-untuk-plts-di-indonesia#:~:text=Potensi%20energi%20surya%20di%20Indonesia,dimanfaatkan%20baru%20sekitar%2010%20MWp>. <https://www.esdm.go.id/id/media-center/arsip-berita/matahari-untuk-plts-di-indonesia>
- Permen ESDM No. 26 Tahun 2021 tentang PLTS Atap, Pub. L. No. 26 (2021).
- Kementrian Energi Sumber Daya Mineral. (2021). *Kerja Sama Setjen DEN, Bank Mandiri, dan PT LEN Dukung Pemanfaatan PLTS Atap di Indonesia*. <https://www.esdm.go.id/id/media-center/arsip-berita/kerja-sama-setjen-den-bank-mandiri-dan-pt-len-dukung-pemanfaatan-plts-atap-di-indonesia>
- Kumar, R., Rajoria, C. S., Sharma, A., & Suhag, S. (2020). Design and simulation of standalone solar PV system using PVsyst Software: A case study. *Materials Today: Proceedings*, 46, 5322–5328. <https://doi.org/10.1016/j.matpr.2020.08.785>
- Kumar, R., & Rosen, M. A. (2011). A critical review of photovoltaic–thermal solar collectors for air heating. *Applied Energy*, 88(11), 3603–3614. <https://doi.org/10.1016/J.APENERGY.2011.04.044>
- Kumar, S., Upadhayaya, P., & Kumar, A. (2019). *Performance Analysis of Solar Energy Harnessing System Using Homer Energy Software and PV Syst Software*. IEEE, 2019 2nd International Conference on Power Energy, Environment and Intelligent Control (PEEIC).
- Latif, N. N., Sihana, & Suryopratomo, K. (2022). *Simulasi dan Analisis Sistem Pembangkit Listrik Tenaga Surya Atap Terhubung Jaringan untuk Suplai*

Kebutuhan Listrik Rumah Tangga 900 VA di Kota Pekalongan.

<http://etd.repository.ugm.ac.id/penelitian/detail/208656>

Lee, G. R., Frearson, L., & Rodden, P. (2011). *An Assessment Of Photovoltaic Modelling Software Using Real World Performance Data.* www.catprojects.com.au

Lemay, A. C., Wagner, S., & Rand, B. P. (2023). Current status and future potential of rooftop solar adoption in the United States. *Energy Policy*, 177, 113571. <https://doi.org/10.1016/J.ENPOL.2023.113571>

Manurung, J. P., & Boedoyo, M. S. (2022). Life Cycle Assessment pada Solar Photovoltaics: Review. *Jurnal Penelitian Sains Teknologi*, 13(1), 20–27. <http://journals2.ums.ac.id/index.php/saintek>

Messenger, R. A., & Ventre, J. (2004). *Photovoltaic Systems Engineering 2nd Edition* (2 ed.). References - Scientific Research Publishing. [https://www.scirp.org/\(S\(351jmbntvnsjt1aadkposzje\)\)/reference/ReferencesPapers.aspx?ReferenceID=125677](https://www.scirp.org/(S(351jmbntvnsjt1aadkposzje))/reference/ReferencesPapers.aspx?ReferenceID=125677)

Modeste, K. N., & Reiter, S. (2019). *Net Zero Energy Buildings and Low Carbon Emission, a Case of Study of Madagascar Island.* <https://doi.org/10.5772/intechopen.90854>

Mohammadi, S. A. D., & Gezezin, C. (2022). Design and Simulation of Grid-Connected Solar PV System Using PVSYST, PVGIS and HOMER Software. *International Journal of Pioneering Technology and Engineering*, 1(01), 36–41. <https://doi.org/10.56158/jpte.2022.24.1.01>

Mohammed, B. U., Wiysahnyuy, Y. S., Ashraf, N., Mempouo, B., & Mengata, G. M. (2023). Pathways for efficient transition into net zero energy buildings (nZEB) in Sub-Sahara Africa. Case study: Cameroon, Senegal, and Côte d'Ivoire. *Energy and Buildings*, 296, 113422. <https://doi.org/10.1016/J.ENBUILD.2023.113422>

Morshed, M. S., Ankon, S. M., Chowdhury, M. T. H., & Rahman, M. A. (2015, November 2). Designing of a 2kW stand-alone PV system in Bangladesh using PVsyst, Homer and SolarMAT. *2015 International Conference on Green*

Energy and Technology, ICGET 2015.

<https://doi.org/10.1109/ICGET.2015.7315090>

Niyonteze, J. D. D., Zou, F., Norensa Osarumwense Asemota, G., Bimenyimana, S., & Shyirambere, G. (2020). Key technology development needs and applicability analysis of renewable energy hybrid technologies in off-grid areas for the Rwanda power sector. *Heliyon*, 6(1).

<https://doi.org/10.1016/J.HELIYON.2020.E03300>

Pal, D., Koniki, H., & Bajpai, P. (2016). Central and Micro Inverters for Solar Photovoltaic Integration in AC grid. *National Power Systems Conference (NPSC)*.

Panggabean, B. T. G. B. (2021). Civil Law Commons, Commercial Law Commons, Constitutional Law Commons, Contracts Commons, Criminal Law Commons, and the International Law Commons Recommended Citation Recommended Citation Panggabean. *Kesiapan Indonesia dalam Memenuhi Nationally Determined Contribution*, 1.

<https://scholarhub.ui.ac.id/dharmasisya>Availableat:<https://scholarhub.ui.ac.id/dharmasisya/vol1/iss1/21>

Pemerintah Kabupaten Magelang-Dinas Lingkungan Hidup. (2017). *Kajian Lingkungan Hidup Strategis Revisi RTRW Kab Magelang Tahun 2011-2031*.

Perusahaan Listrik Negara. (2021, Juli). *Penetapan Penyesuaian Tarif Tenaga Listrik*. <https://web.pln.co.id/statics/uploads/2023/06/ttl-Juli-September-2023.jpg>.

Phap, V. M., & Hang, L. T. T. (2020). Comparison of Central Inverter and String Inverter for Solar Power Plant: Case Study in Vietnam. *Journal of Nuclear Engineering & Technology*, 9(3), 11–23.
<https://doi.org/10.37591/JONET.V9I3.3538>

Pharne, I. D., & Bhosale, Y. N. (2013). A review on multilevel inverter topology. *Proceedings of 2013 International Conference on Power, Energy and Control, ICPEC 2013*, 700–703. <https://doi.org/10.1109/ICPEC.2013.6527746>

- Precup, R.-E., & Kamal, T. (2019). *Power Systems Solar Photovoltaic Power Plants Advanced Control and Optimization Techniques* (S. Z. Hassan, Ed.). Springer Nature Singapore Pte.Ltd. <http://www.springer.com/series/4622>
- Peraturan Presiden Republik Indonesia Nomor 22 Tahun 2017 Tentang Rencana Umum Energi Nasional (RUEN), (2017).
- Pusat Penelitian dan Pengembangan Teknologi Ketenagalistrikan, E. B. T. dan K. E.-K. E. S. D. dan M. (2023). *E-SMART | Home*. <https://p3tkebt.esdm.go.id/esmart/>
- Ramadhani, A., Ulfiana, A., & Mafendro, Y. (2022). *Analisis Perancangan Sistem PLTS Terhubung Jaringan PLN di Gedung A Teknik Mesin Politeknik Negeri Jakarta Menggunakan Software PVSyst 7.2*. <https://prosiding.pnj.ac.id/index.php/sntm/article/view/170/171>
- Rekstad, J., Martínez-Rodríguez N. L., Belaidi, A., & Platzer-Björkman, C. (2020). Performance analysis of thin-film photovoltaic technologies under low irradiance conditions. *Solar Energy*, 205, 331–342.
- Reza, S., Shiblee, A. A. F., Mawla, R., Jain, J. N., & Rahman, M. M. (2018). *Design and Analysis of Solar PV System for Marine Fishing Trawlers in Bangladesh; Design and Analysis of Solar PV System for Marine Fishing Trawlers in Bangladesh*.
- Rout, K. C., & Kulkarni, P. S. (2020, Februari 1). Design and Performance evaluation of Proposed 2 kW Solar PV Rooftop on Grid System in Odisha using PVSyst. *2020 IEEE International Students' Conference on Electrical, Electronics and Computer Science, SCEECS 2020*. <https://doi.org/10.1109/SCEECS48394.2020.124>
- Salim, H. K., Stewart, R. A., Sahin, O., & Dudley, M. (2019). Drivers, barriers and enablers to end-of-life management of solar photovoltaic and battery energy storage systems: A systematic literature review. *Journal of Cleaner Production*, 211, 537–554. <https://doi.org/10.1016/J.JCLEPRO.2018.11.229>
- Saliman, H., Suliestyah, & Putra, D. (2019). View of Kajian Penggunaan Life Cycle Cost, Life Cycle Saving, dan Payback Period untuk Menganalisis Keekonomian Pembangkit Listrik Tenaga Surya. *Indonesian Mining and*

- Energy Journal*, 2(2). <https://e-journal.trisakti.ac.id/index.php/imej/article/view/9178/6480>
- SansPower. (2020). *Panel Surya: Jenis-Jenis Dan Rekomendasi Pemilihan*. <https://www.sanspower.com/jenis-jenis-panel-surya-yang-bagus.html>
- Saputro, P. H., Juwita, & Hidayat, Z. (2022). *Pemanfaatan Pembangkit Listrik Tenaga Surya (PLTS) Sebagai Alat Penerangan Rumah Tangga Di Desa Air Naga Galang Kota Batam*. Media Sains Indonesia.
- Sari, D. A. K., Wijaya, F. D., & Ali, H. R. (2022). View of Optimization of Hybrid Power Plant System in Enggano Island. *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, 11(2). <https://jurnal.ugm.ac.id/v3/JNTETI/article/view/3849/1662>
- Sekretariat Jenderal Dewan Energi Nasional. (2022). *Outlook Energi Nasional Indonesia*.
- Sekretariat Jenderal Dewan Energi Nasional, & Nasional, E. (2019). *Laporan Kinerja Sekretariat Jenderal Dewan Energi Nasional*.
- Silva, J. L. de S., Costa, T. S., Melo, K. B. de, Sako, E. Y., Moreira, H. S., & Villalva, M. G. (2020). *A Comparative Performance of PV Power Simulation Software with an Installed PV Plant*. IEEE.
- Smets, A., Jäger, K., Isabella, O., Swaaij, R. A. van, & Zeman, M. (2015). *Solar energy The physics and engineering of photovoltaic conversion, technologies and systems*. UIT Cambridge.
- Smith, J. (2018). The role of social media in marketing. *Journal of Marketing*, 23(1), 45–58.
- Sneij, J., & Vilar, D. (2013). *The HOMER Simulation Tool PROS & CONS ECREEE Regional Training of Trainers Workshop: HOMER software for RE project design*.
- T. Huld, S. Renné, & R. Perez. (2013). PVsyst: software for modeling photovoltaic systems. *IEEE Journal of Photovoltaics*, 3(1), 1–9.
- Tang, M., Liu, S., Zhou, Z., Chen, Y., Li, Y., Li, X., & Li, J. (2017). Efficiency enhancement of monocrystalline silicon solar cells by optimizing the front grid

- and Al₂O₃ passivation layer. *Materials Science in Semiconductor Processing*, 60, 149–155.
- Tawalbeh, M., Al-Othman, A., Kafiah, F., Abdelsalam, E., Almomani, F., & Alkasrawi, M. (2021). Environmental impacts of solar photovoltaic systems: A critical review of recent progress and future outlook. *Science of The Total Environment*, 759, 143528. <https://doi.org/10.1016/J.SCITOTENV.2020.143528>
- Temiz, M., & Javani, N. (2020). Design and analysis of a combined floating photovoltaic system for electricity and hydrogen production. *International Journal of Hydrogen Energy*, 45(5), 3457–3469. <https://doi.org/10.1016/j.ijhydene.2018.12.226>
- Tim Sekretaris Jenderal Dewan Energi Nasional. (2019). *Indonesia Energy Outlook 2019*.
- Torcellini, P., Grant, R., Taylor, C., Punjabi, S., Diamond, R., Colker, R., Moy AECOM, G., & Kennett, E. (2015). *A Common Definition For Zero Energy Buildings*.
- United States Environmental Protection Agency. (2023, Juni 20). *Solar Panel Recycling*. <https://www.epa.gov/hw/solar-panel-recycling>.
- Utami, S. S., Faridah, Perdamaian, L. G., Budiarto, R., Salis, F. R., Yanti, R. J., Ridwan, M. K., Avoressi, D. D., Fela, R. F., Suroso, D. J., Effendy, N., & Luckyarno, Y. F. (2021). *Menuju Bangunan Zero Energy Di Indonesia*. Gadjah Mada University Press. <https://play.google.com/books/reader?id=f3RPEAAAQBAJ&pg=GBS.PA237>
- van Zalk, J., & Behrens, P. (2018). The spatial extent of renewable and non-renewable power generation: A review and meta-analysis of power densities and their application in the U.S. *Energy Policy*, 123, 83–91. <https://doi.org/10.1016/J.ENPOL.2018.08.023>
- Wang, X., Gao, X., & Wu, Y. (2023). Comprehensive analysis of tropical rooftop PV project: A case study in nanning. *Heliyon*, 9(3), e14131. <https://doi.org/10.1016/J.HELİYON.2023.E14131>

Wisnubroto, K. (2023, Februari 11). *Merangsang Kontribusi Industri Pasang PLTS Atap*. Indonesia.go.id.

<https://www.indonesia.go.id/kategori/editorial/6865/merangsang-kontribusi-industri-pasang-plts-atap?lang=1>

Zheng, J., Guo, Y., Huang, H., Sun, H., & Zhang, J. (2016). Investigation of electrical and photovoltaic properties of polycrystalline silicon solar cells. *Applied Surface Science*, 378, 416–420.

Zulkifli, Wilopo, W., & Ridwan, M. K. (2020). *Analisis Kinerja PLTS Rooftop On Grid Pada Gedung Pemerintah dalam Skema Ekspor Impor Energi Studi Kasus : Gedung Kantor Setjen KESDM - Jakarta*. <http://etd.repository.ugm.ac.id/penelitian/detail/191384>