

DAFTAR PUSTAKA

Referensi

- [0] <https://www.mckinsey.com/id/our-insights/how-to-power-indonesias-solar-pv-growth-opportunities>
- [1]. K. Vidyanandan, “An Overview of Factors Affecting the Performance of Solar PV
- [2]. M. M. Fouad, L. A. Shihata, and E. S. I. Morgan, “An integrated review of factors influencing the performance of photovoltaic panels,” *Renew. Sustain. Energy Rev.*, vol. 80, no. December, pp. 1499–1511, 2017.
- [3]. Imam Fajar Nur Diansyah*) , Susatyo Handoko dan Jaka Windarta, “Implementasi Dan Evaluasi Performa Pembangkit Listrik Tenaga Surya (Plts) On Grid Studi Kasus Smp N 3 Purwodadi” *TRANSIENT*, VOL. 10, NO. 4, DESEMBER 2021, e-ISSN: 2685-0206
- [4]. I. K. A. Setiawan, I. N. S. Kumara, and I. W. Sukerayasa, “Analisis Unjuk Kerja Pembangkit Listrik Tenaga Surya (Plts) Satu MWP Terinterkoneksi Jaringan di Kayubihi, Bangli,” *Maj. Ilm. Tek. Elektro*, vol. 13, no. 1, 2014.
- [5]. B. Shiva Kumar and K. Sudhakar, “Performance evaluation of 10 MW grid connected solar photovoltaic power plant in India,” *Energy Reports*, vol. 1, pp. 184– 192, 2015.
- [6]. S. Ekici and M. A. Kopru, “Investigation of PV system cable losses,” *Int. J. Renew. Energy Res.*, vol. 7, no. 2, pp. 807–815, 2017.
- [7]. G. Knežević, D. Topić, M. Žnidarec, B. Štumberger, M. Hadžiselimović, and S. Seme, “Comparison of the Shading Influence on PV Modules of Different Technologies,” no. June, pp. 203–214, 2017.
- [8]. A. A. N. B. B. Nathawibawa, I. N. S. Kumara, and W. G. Ariastina, “Analisis Produksi Energi dari Inverter pada Grid-connected PLTS 1 MWp di Desa Kayubihi Kabupaten Bangli,” *Maj. Ilm. Teknol. Elektro*, vol. 16, no. 1, p. 131, 2016.
- [8]. Ramadhani B. Instalasi Pembangkit Listrik Tenaga Surya Dos & Don'ts. Jakarta: Energising Development (EnDev) Indonesia. 2018.
- [9]. SNI IEC. 62446-2016. Sistem fotovoltaik terhubung ke jaringan listrik - Persyaratan minimum untuk sistem dokumentasi, uji komisioning dan inspeksi. Jakarta. Badan Standar Nasional. 2016.
- [10]. SNI. 0225. Persyaratan Umum Instalasi Listrik 2011 (PUIL 2011). Jakarta. Badan Standar Nasional. 2011.
- [11]. Windarta J, Pratama A, Denis, dan Nugroho A. Testing of Solar Power Plant Components Off-Grid Systems and Engineering Economic Analysis at Cemara Island, Brebes Regency,

Indonesia. International Journal of Research Studies in Electrical and Electronics Engineering (IJRSEEE). 2019; 5(2): 9-17.

[12]. Solis Inverter, "PV monitoring." <https://m.ginlong.com/main.html>. Diakses: Nov. 01, 2021.

[13]. Permen ESDM Nomor 2 Tahun 2024_PLTS Atap

[14]. Emmanuel Ayora, Mathew Munji, Keren Kabere, Bundi Thomas " Performance analysis of 600 kWp grid-tied rooftop solar photovoltaic systems at strathmore university in Kenya". www.sciencedirect.com/journal/results-in-engineering 19 (2023) 101302.

[15] Nandi, A. (2021). "Potensi Radiasi Matahari di Jawa Barat untuk Pembangkit Listrik Tenaga Surya." Jurnal Energi Terbarukan, 10(2), 55-68

[16] Houghton, J., Ding, Y., Griggs, D., Noguer, M., van der Linden, P., Dai, X., & Maskell, K. (2001). Climate Change 2001: The Scientific Basis. Cambridge University Press.

[17] <https://www.esdm.go.id/assets/media/content/content-outlook-energi-indonesia-2019-bahasa-indonesia.pdf>

[18] Kumar, R., & Kumar, V. (2020). Comparative Analysis of Monocrystalline and Polycrystalline Solar Panels. International Journal of Renewable Energy Research, 10(1), 1-12.

[19] Blaabjerg, F., Chen, Z., & Kjaer, S. B. (2004). Power Electronics as Efficient Interface in Dispersed Power Generation Systems. IEEE Transactions on Power Electronics, 19(5), 1184-1194. García, P., Mendoza-Araya, P. A., & Moran, L. (2013). Grid-Connected PV System Using a Three-Phase Inverter for Residential Applications. IEEE Transactions on Industrial Electronics, 60(4), 1536-1544.

[20] Kerekes, T., Teodorescu, R., Liserre, M., & Bessonov, V. (2011). High-Efficiency Transformerless PV Inverter for Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 58(1), 294-301.

[21] Liu, G., Yang, D., Xu, Z., & Zhu, C. (2017). IoT-Based Smart PV Inverter for Photovoltaic Power System. IEEE Internet of Things Journal, 4(4), 1096-1106.

[22] Piegari, L., & Rizzo, R. (2010). Adaptive Perturb and Observe Algorithm for Photovoltaic Maximum Power Point Tracking. IET Renewable Power Generation, 4(4), 317-328.

[23] Timbus, A. V., Liserre, M., Teodorescu, R., & Rodriguez, P. (2009). Evaluation of Current Controllers for Distributed Power Generation Systems. IEEE Transactions on Power Electronics, 24(3), 654-664.

[24] Zhao, B., Zhang, X., Li, P., & Wang, K. (2017). Next-Generation Multi-Functional Modular Intelligent Inverter for Smart Grid Integration and Energy Storage. IEEE Transactions on Industrial Informatics, 13(4), 1455-1466

- [25] Green, M. A., Emery, K., Hishikawa, Y., Warta, W., & Amft, M. (2017). Solar Cell Efficiency Tables (Version 54). *Progress in Photovoltaics: Research and Applications*, 25(7), 668-676.
- [26] Kumar, R., & Kumar, V. (2020). Comparative Analysis of Monocrystalline and Polycrystalline Solar Panels. *International Journal of Renewable Energy Research*, 10(1), 1-12.
- [27] Rooftop Solar. (2021). Monocrystalline vs. Polycrystalline Solar Panels. Retrieved from <https://www.rooftopsolar.com/monocrystalline-vs-polycrystalline-solar-panels>
- [28] Chi-ming Lai, R.H. Chen, Novel heat dissipation design incorporating heat pipes for DC combiner boxes of a PV system, *Solar Energy*, Volume 85, Issue 9, 2011, Pages 2053-2060,
- [29] <https://etd.repository.ugm.ac.id/penelitian/detail/129151>
- [30] Saleheen Mohammed Zeehan, "Performance analysis, techno-economic assessment, and optimization of Grid Connected PV (GCPV) system for commercial building". Monash University Malaysia in 2020
- [31] Luiz Felipe de Oliveira Costa; Estellito Rangel; José Maria de Carvalho Filho; Rogério C. Barros *IEEE Transactions on Industry Applications*, "Differences and Similarities Between ANSI and IEC Cultures for MV Assemblies—The Brazilian Experience" 2014
- [32] Katherine A. Klise; Joshua S. Stein; Joseph Cunningham, "Application of IEC 61724 Standards to Analyze PV System Performance in Different Climates" *IEEE Journal of Photovoltaics*, Volume: 13, Issue: 5. 2017
- [33] A.M. Khalid, I. Mitra, W. Warmuth, V. Schacht. Performance ratio—Crucial parameter for grid connected PV plants. *Renewable and Sustainable Energy Reviews*. 65 (2016) 1139-58.
- [34] J. Leloux, L. Narvarte, D. Trebosc. Review of the performance of residential PV systems in Belgium. *Renewable and Sustainable Energy Reviews*. 16 (2012) 178-84.
- [35] F. Cherfa, A.H. Arab, R. Oussaid, K. Abdeladim, S. Bouchakour. Performance analysis of the mini-grid connected photovoltaic system at Algiers. *Energy Procedia*. 83 (2015) 226-36.
- [36] M. Hussin, A. Omar, Z. Zain, S. Shaari. Performance of grid-connected photovoltaic system in equatorial rainforest fully humid climate of Malaysia. *Int J Appl Power Eng(IJAPE)*. 2 (2013) 10514.
- [37] H.A.Kazem, M.T.Chaichan, A.H.Al-Waeli, K.Sopian. Evaluation of aging and performance of grid-connected photovoltaic system northern Oman: Sevenyears experimental study. *SolarEnergy*. 207(2020)1247-58.
- [38] R. Sharma, S. Goel. Performance analysis of a 11.2 kWp roof top grid-connected PV system in Eastern India. *Energy Reports*. 3 (2017) 76-84.

- [39] S. Mau, U. Jahn. Performance analysis of grid-connected PV systems. 21st EUPVSEC. (2006) 2676-80.
- [40] B.S. Kumar, K. Sudhakar. Performance evaluation of 10 MW grid connected solar photovoltaic power plant in India. Energy reports. 1 (2015) 184-92.
- [41] R. Srivastava, A. Tiwari, V. Giri. An overview on performance of PV plants commissioned at different places in the world. Energy for Sustainable Development. 54 (2020) 51-9.
- [42] H.A. Kazem, M.T. Chaichan, A.H. Al-Waeli, K. Sopian. Evaluation of aging and performance of grid-connected photovoltaic system northern Oman: Seven years' experimental study. Solar
- [43] R.H. Chaudhari, B.H. Chaudhari, P.D. Chavda, V.L. Aal. To study the temporal variation of capacity utilization factor (CUF) of PV based solar power plant with respect to climatic condition. Current World Environment. 11 (2016) 654.
- [44] S. Sreenath, K. Sudhakar, A. Yusop, E. Solomin, I. Kirpichnikova. Solar PV energy system in Malaysian airport: Glare analysis, general design and performance assessment. Energy Reports. 6 (2020) 698-712.
- [45] J.M. Xavier. Performance Analysis of a PV Grid-connected System at the Universidade Nacional Timor Lorosa'e. (2019).
- [46] Z. Corba, B. Popadic, D. Milicevic, B. Dumnic, V.A. Katic. A Long-Term Condition Monitoring and Performance Assessment of Grid Connected PV Power Plant with High Power Sizing Factor under Partial Shading Conditions. Energies. 13 (2020) 4810.
- [47] P. Ramanan, A. Karthick. Performance analysis and energy metrics of grid-connected photovoltaic systems. Energy for Sustainable Development. 52 (2019) 104-15.
- [48] K. Vidyanandan. An overview of factors affecting the performance of solar PV systems. Energy Scan. 27 (2017) 2-8.
- [49] L. Ayompe, A. Duffy, S. McCormack, M. Conlon. Measured performance of a 1.72 kW rooftop grid connected photovoltaic system in Ireland. Energy conversion and management. 52 (2011) 816-25.
- [50] S. Edalati, M. Ameri, M. Iranmanesh. Comparative performance investigation of mono- and poly-crystalline silicon photovoltaic modules for use in grid-connected photovoltaic systems in dry climates. Applied Energy. 160 (2015) 255-65.
- [51] F. Tahri, A. Tahri, T. Oozeki. Performance evaluation of grid-connected photovoltaic systems based on two photovoltaic module technologies under tropical climate conditions. Energy Conversion and Management. 165 (2018) 244-52.
- [52] L. Kamanja, V. Komarala, V. Dutta, S. Waita and K. Wachira, "Techno-Economic Analysis of a Rooftop Grid-connected Photovoltaic Solar System: A case study of Jomo

Kenyatta University of Agriculture and Technology (SAJOREC)," 2022 IEEE PES/IAS PowerAfrica, Kigali, Rwanda, 2022,

[53] M. T. Patel, R. Asadpour, M. Woodhouse, C. Deline and M. A. Alam, "LCOE*: Rethinking LCOE for Photovoltaic Systems," 2019 IEEE 46th Photovoltaic Specialists Conference (PVSC), Chicago, IL, USA, 2019, pp. 1711-1713

[54] I Kadek Adi Febriana Putra, Ida Ayu Dwi Giriantari, I Wayan Sukerayasa. "ANALISIS PENGHEMATAN BIAYA LISTRIK DI KANTOR DINAS KETENAGAKERJAAN DAN ESDM PROVINSI BALI PASCA TERPASANG PLTS ATAP 40 KWP" Jurnal SPEKTRUM Vol. 9, No. 2 Juni 2022

[55] Laila Febrina, Dedy Wahyudi, Refsiela Dwi Harki "KAJIAN EMISI CO2 BERDASARKAN JEJAK KARBON SEKUNDER DI LINGKUNGAN UNIVERSITAS SAHID JAKARTA" sustainable Environmental and optimizing industry jurnal , Vol 3, No 1 (2021)

[56] Fthenakis, V., & Kim, H. C. (2011). Photovoltaics: Life-cycle analyses. Solar Energy, 85(8), 1609-1628.

[57] Duffie, J.A., & Beckman, W.A. (2013). Solar Engineering of Thermal Processes (4th Edition). John Wiley & Sons

[58] Muneer, T., Asif, M., & Munawwar, S. (2005). Sustainable production of solar electricity with particular reference to the Indian economy. Renewable and Sustainable Energy Reviews, 9(5), 444-473.

[59] L.D. Mensah, J.O. Yamoah, M.S. Adaramola. Performance evaluation of a utility-scale gridtied solar photovoltaic (PV) installation in Ghana. Energy for sustainable development. 48 (2019) 82-7.

[60] V. Sharma, S. Chandel. Performance analysis of a 190 kWp grid interactive solar photovoltaic power plant in India. Energy. 55 (2013) 476-85.

[61] Branker, K., Pathak, M. J. M., & Pearce, J. M. (2011). A review of solar photovoltaic leveled cost of electricity. Renewable and Sustainable Energy Reviews, 15(9), 4470-4482. DOI: 10.1016/j.rser.2011.07.104

[62] https://voi.id/en/economy/417429#google_vignette

[63] <https://www.bi.go.id/en/statistik/indikator/data-inflasi.aspx>

[64] <https://setkab.go.id/pemerintah-terbitkan-aturan-terbaru-plts-atap-kapasitas-pemasangan-tidak-dibatasi/>

[65] Model of Operation-and-Maintenance Costs for Photovoltaic Systems Andy Walker,¹ Eric Lockhart,¹ Jal Desai,¹ Kristen Ardani, ¹ Geoff Klise,² Olga Lavrova,² Tom Tansy,³ Jessie Deot,³ Bob Fox,³ and Anil Pochiraju³, National Renewable Energy Laboratory (NREL)2020. <https://www.nrel.gov/docs/fy20osti/74840.pdf>

- [67] Benchmarking Utility-Scale PV Operational Expenses and Project Lifetimes: Results from a Survey of U.S. Solar Industry Professionals Ryan Wiser, Mark Bolinger, and Joachim Seel, Lawrence Berkeley National Laboratory, 2020 https://eta-publications.lbl.gov/sites/default/files/solar_life_and_opex_report.pdf
- [68] Cherfa F, Hadj Arab A, Oussaid R, Abdeladim K, Bouchakour S. Performance analysis of the mini-grid connected photovoltaic system at Algiers. *Energy Procedia* 2015;83:226–36. <https://doi.org/10.1016/j.egypro.2015.12.177>
- [69] El Banany, Cheikh, Sidi, Elhadj, Lamine, Ndiaye Mamadou, Menny, El Bah, Abdoukarim, Mbodji, Ababacar, Ndiaye, & Alioune, Ndiaye Papa (2016). Performance analysis of the first large-scale (15 MWp) grid-connected photovoltaic plant in Mauritania. *Energy Conversion and Management*, 119,411–421. <https://doi.org/10.1016/j.enconman.2016.04.070>.
- [70]AL-Rasheedi, Majed, Gueymard, Christian A., Al-Khayat, Mohammad, Ismail, Alaa, Lee, Jared A., & Al-Duaj, Hamad (2020). Performance evaluation of a utility-scale dual-technology photovoltaic power plant at the Shagaya Renewable Energy Park in Kuwait. *Renewable and Sustainable Energy Reviews*. <https://doi.org/10.1016/j.rser.2020.110139>.
- [71]Alshare, Aiman, Tashtoush, Bourhan, Altarazi, Safwan, & El-khalil, Hossam(2020). Energy and economic analysis of a 5 MW photovoltaic system in Northern Jordan. *Case Studies in Thermal Engineering*. <https://doi.org/10.1016/j.csite.2020.100722>.
- [72]Martín-Martínez, S., Cañas-Carretón, M., Honrubia-Escribano, A., & Gómez-Lázaro, E. (2019). Performance evaluation of large solar photovoltaic power plants in Spain. *Energy Conversion and Management*, 183,515–528. <https://doi.org/10.1016/j.enconman.2018.12.116>.
- [73]Lena, D. Mensah, Yamoah, John O., & Adaramola, Muiyiwa S. (2019). Performance evaluation of a utility-scale grid-tied solar photovoltaic (PV) installation in Ghana. *Energy for Sustainable Development*, 48,82–87. <https://doi.org/10.1016/j.esd.2018.11.003>.
- [74]Cubukcu, Mete, & Gumus, Harun (2020). Performance analysis of a grid-connected photovoltaic plant in eastern Turkey. *Sustainable Energy Technologies and Assessments*. <https://doi.org/10.1016/j.seta.2020.100724>.
- [75]Salas et al. (2006) Review of the maximum power point tracking algorithms for stand-alone photovoltaic systems. *Solar Energy Materials and Solar Cells*. 2. Esram et al. (2007) Comparison of photovoltaic array maximum power point tracking techniques. *IEEE Transactions on Energy Conversion*.
- [76]Esram, T., & Chapman, P. L. (2007). Comparison of photovoltaic array maximum power point tracking techniques. *IEEE Transactions on Energy Conversion*.
- [77] Walker, G. (2001). Evaluating MPPT converter topologies using a MATLAB PV model. *Journal of Electrical & Electronics Engineering*, 21(1), 49-56. <https://doi.org/10.1049/ip-rpg:20010700>

- [78] Yakobus Kariongan¹, Joni² "Evaluasi Kinerja Pembangkit Listrik Tenaga Surya Terpusat 20 KWP di Kampung Ampas Distrik Waris Kabupaten Keerom" ISSN: 2614-3097(online) Jurusan Teknik Elektro, Fakultas Teknik, Universitas Cenderawasih Halaman 3591-3598 Volume 6 Nomor 1 Tahun 2022
- [79] Eka Meilia Suryanti¹, Rosmaliati², Ida Bagus Fery Citarsa³ "Photovoltaic System Performance Analysis On-Grid On Solar Power Plant (PLTS) Gili Trawangan" Dielektrika, ISSN 2086-9487 Vol. 1, No. 2 : 82 - 95, Agustus 2014
- [80]. S. M. A. Solar and T. Ag, "Performance ratio-Quality factor for the PV plant," Sma, pp. 1–9, 2016.
- [81] Adrian Mansur "Analisa Kinerja Plts On Grid 50 Kwp Akibat Efek Bayangan Menggunakan Software Pvsyst" Transmisi, 23, (1), Januari 2021, p-ISSN 1411-0814 e-ISSN 2407-642
- [82] T. Aziz, N. Ketjoy and C. Sirisamphanwong, "Determination of PV module power output degradation after long term operation," *2014 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*, Pattaya, Thailand, 2014, pp. 1-6.
- [83] A. S. Kumar, Sreeranganayakulu, B. L. Prasanna, G. Kavya, G. D. Reddy and S. K. Mohiddin, "Reliability Assessment of PV Inverter Considering Degradation Rate and Panel Oversizing," *2024 Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)*, Bhilai, India, 2024, pp. 1-5, doi: 10.1109/ICAECT60202.2024.10469089.
- [84] Jordan, D.C. & Kurtz, S.R. (2013). Photovoltaic Degradation Rates—An Analytical Review. *Progress in Photovoltaics: Research and Applications*.
- [85] IEC 60891: Procedures for temperature and irradiance corrections to measured I-V characteristics of crystalline silicon photovoltaic devices.
- [86] Fthenakis, V. M., & Kim, H. C. (2011). Photovoltaics: Life-cycle analyses. *Solar Energy*, 85(8), 1609-1628.
- [87] International Renewable Energy Agency (IRENA), "Renewable Energy Technologies: Life Cycle Greenhouse Gas Emissions".