

DAFTAR PUSTAKA

- [1] H. Ali and H. A. Khan, "Evaluation of Low-Voltage Loss under Partial Shading Conditions in Solar Photovoltaic Systems," *2018 IEEE Energy Convers. Congr. Expo. ECCE 2018*, pp. 1–6, 2018, doi: 10.1109/ECCE.2018.8558269.
- [2] A. Mansur, "Analisa Dampak Bayangan Modul Terhadap Output PLTS," *Energi & Kelistrikan*, vol. 11, no. 2, pp. 160–169, 2019, doi: 10.33322/energi.v11i2.746.
- [3] F. HIDAYAT, D. RUSIRAWAN, and I. R. FAJAR TANJUNG, "Evaluasi Kinerja PLTS 1000 Wp di Itenas Bandung," *ELKOMIKA J. Tek. Energi Elektr. Tek. Telekomun. Tek. Elektron.*, vol. 7, no. 1, p. 195, 2019, doi: 10.26760/elkomika.v7i1.195.
- [4] A. Mansur, "Analisa Kinerja Plts on Grid 50 Kwp Akibat Efek Bayangan Menggunakan Software Pvsyst," *Transmisi*, vol. 23, no. 1, pp. 28–33, 2021, doi: 10.14710/transmisi.23.1.28-33.
- [5] A. S. Sampeallo and W. F. Galla, "Analisis Kinerja Plts 25 Kwp Di Gedung Laboratorium Riset Terpadu Lahan Kering Kepulauan Undana Terhadap Variasi Beban," *J. Media Elektro / Vol. VII / No. 1*, vol. VII, no. 1, 2021.
- [6] Widiyanti, A. Ayu, and H. Hermawan, "Analisis Penempatan Sel Surya Pada Atap Setengah Lingkaran Sebagai Aplikasi Sistem Tenaga Off Grid," *Transient*, vol. II, no. 3, pp. 791–798, 2013.
- [7] B. Sutanto, Y. DewantoroHerlambang, Bono, A. S. Alfauzi, and D. A. Munawwaroh, "Optimalisasi Arah Sudut Tilt Dan Sudut Azimuth Dari," vol. 17, no. 2, pp. 145–154, 2021.
- [8] A. Giyantara and R. B. Rizqullah, "Pengaruh Partial Shading Terhadap Daya Keluaran Pada Panel Surya," *Semin. Nas. ...*, 2020, [Online]. Available: <https://conference.kahuripan.ac.id/index.php/SNapan/article/view/67%0Ahttps://conference.kahuripan.ac.id/index.php/SNapan/article/download/67/66>
- [9] M. Syahwil and N. Kadir, "Rancang Bangun Modul Pembangkit Listrik Tenaga Surya (PLTS) Sistem Off-grid Sebagai Alat Penunjang Praktikum Di Laboratorium," *J. Pengelolaan Lab. Pendidik.*, vol. 3, no. 1, pp. 26–35, 2021, doi: 10.14710/jplp.3.1.26-35.
- [10] L. M. Hayusman and N. Saputera, "STUDI PERENCANAAN PANEL KENDALI PLTS-PLN BERDASARKAN KAPASITAS BATERAI UNTUK PLTS OFF-GRID," vol. 8, no. 1, 2022.
- [11] A. Amalia, "Kesiapan Masyarakat Semarang dalam Pemanfaatan Potensi Energi Surya sebagai Sumber Energi Alternatif Berkelanjutan," *SAINTEK J. Ilm. Sains dan Teknol. Ind.*, vol. 2, no. 2, p. 39, 2019, doi: 10.32524/saintek.v2i2.462.
- [12] P. Pengembangan Energi Baru Dan Energi *et al.*, "Potensi Pengembangan Energi Baru Dan Energi Terbarukan Di Kota Semarang," *J. Riptek*, vol. 13, no. 2, pp. 177–186, 2019, [Online]. Available: <http://ripteck.semarangkota.go.id>
- [13] N. Rusdiana, D. Pravitasari, and ..., "Perencanaan PLTS Untuk Bisnis Indekos Ramah Lingkungan," *Pros. Semin. Nas. Ris. Teknol. Terap.*, pp. 2–7, 2021.
- [14] M. Naim, "Rancangan Sistem Kelistrikan Plts Off Grid 1000 Watt Di Desa

- Mahalona Kecamatan Towuti,” *Din. J. Ilm. Tek. Mesin*, vol. 9, no. 1, pp. 27–32, 2017, [Online]. Available: <http://ojs.uho.ac.id/index.php/dinamika/article/view/3216>
- [15] S. Eka, P. Pagan, I. D. Sara, and H. Hasan, “Komparasi Kinerja Panel Surya Jenis Monokristal Dan Polykristal Studi Kasus Cuaca Banda Aceh,” *J. Karya Ilm. Tek. Elektro*, vol. 3, no. 4, pp. 19–23, 2018.
- [16] I. A. Treesna, P. Jannus, and ..., “Analisis Faktor Daya Output Yang Dihasilkan Panel Surya Jenis Monocrystalline 60 Watt-peak,” *Semin. Nas. Tek. ...*, pp. 407–414, 2021, [Online]. Available: <http://prosiding.pnj.ac.id/index.php/sntm/article/view/4217>
- [17] H. Ismail, S. Mathew, S. Aloka, B. Narayanaswamy, L. C. Ming, and S. A. Hussain, “Comparative performance of grid integrated solar photovoltaic systems under the tropical environment,” *2013 IEEE Innov. Smart Grid Technol. - Asia, ISGT Asia 2013*, pp. 1–6, 2013, doi: 10.1109/ISGT-Asia.2013.6698758.
- [18] T. Alamsyah, A. Hiendro, and Z. Abidin, “Analisis Potensi Energi Matahari Sebagai Pembangkit Listrik Tenaga Surya Menggunakan Panel Mono-Crystalline dan Poly-Crystalline Di Kota Pontianak dan Sekitarnya,” *J. Tek. Elektron.*, p. 10, 2019, [Online]. Available: <https://jurnal.untan.ac.id/index.php/jteuntan/article/viewFile/48425/75676590121>
- [19] M. Boccard *et al.*, “High-stable-efficiency tandem thin-film silicon solar cell with low-refractive-index silicon-oxide interlayer,” *IEEE J. Photovoltaics*, vol. 4, no. 6, pp. 1368–1373, 2014, doi: 10.1109/JPHOTOV.2014.2357495.
- [20] Yanuar, L. Umar, R. N, and Setiadi, “Evaluasi Nilai Tahanan Internal Modul Panel Fotovoltaik (PV) Berdasarkan Pemodelan Kurva I (V) Normal Light Dan Dark Current,” *Pres. Semin. Nas. Fisiika Terap. III Dep. Fis. FST, Univ. Airlangga Surabaya*, no. 15 September, pp. 978–979, 2012.
- [21] A. Warsito, E. Adriono, M. Y. Nugroho, and B. Winardi, “DIPO PV COOLER , PENGGUNAAN SISTEM PENDINGIN TEMPERATUR HEATSINK FAN PADA PANEL SEL SURYA (PHOTOVOLTAIC) SEBAGAI PENINGKATAN KERJA ENERGI LISTRIK BARU TERBARUKAN Metode”.
- [22] S. Bahari and A. Laka, “PENGARUH PERUBAHAN ARAH SUDUT SEL SURYA TERHADAP TEGANGAN,” no. November, pp. 1–2, 2017.
- [23] P. Harahap, “Implementasi karakteristik arus dan tegangan plts terhadap peralatan trainer energi baru terbarukan,” pp. 152–157, 2019.
- [24] S. C. Controllers, “Analysis of PWM- and MPPT-solar charge controller efficiency by simulation Analysis of PWM- and MPPT-solar charge controller efficiency by simulation,” 2021, doi: 10.1088/1742-6596/1918/2/022004.
- [25] I. Mustiadi and E. L. Utari, “Perbandingan Efektivitas Pengisian Baterai Menggunakan Metode PWM dan MPPT pada Modul Solar Panel 50 WP,” 2019.
- [26] N. F. Wahidin, E. Yadie, and M. A. Putra, “Analisis Perbandingan Charging SCC Jenis PWM Dan MPPT Pada Automatic Handwasher with Workstation Bertenaga Surya Politeknik Negeri Samarinda,” vol. 3, no. 1, pp. 12–20, 2022.

- [27] Isra Nuur Darmawan; Kholistianingsih Kholistianingsih; Burhan Alnovda Azaria; Priyono Yulianto; Kelly Rossa Sungkono; Riyanarto Sarno; Fara Dinda Mutia Kinanggit; Irsyadhani Dwi Shubhi; Khofifah Nurlaela, "ANALYSIS OF THE INFLUENCE OF SUN INTENSITY ON POWER ON COASTAL AND HIGH LANDS USING SOLAR TRACKER BASED ON ARDUINO," *Univ. WIJAYA KUSUMA PURWOKERTO*, no. 2, pp. 2–5, 2022, doi: 10.1109/ICIEE55596.2022.10010010.
- [28] W. NINO, "ANALISA PERBANDINGAN OPTIMASI PENGISIAN DAYA BATERAI (ACCU) PADA PLTB DAN PLTS MENGGUNAKAN SOLAR CHARGER CONTROLLER TIPE PWM DAN MPPT," 2019.
- [29] F. Aprian, "PERANCANGAN STAND ALONE PV SYSTEM DENGAN MAXIMUM POWER POINT TRACKER (MPPT) MENGGUNAKAN METODE MODIFIED HILL CLIMBING," pp. 1–8.
- [30] W. Noviandi and A. Hiendro, "RANCANG BANGUN SOLAR SEL SEBAGAI ENERGI LISTRIK ALTERNATIF (Studi Kasus : Gedung Kantor Dinas Pekerjaan Umum Kabupaten Sintang Provinsi Kalimantan Barat) Dimana : Dimana : Dimana :," pp. 1–9.
- [31] K. Vidhia Kumara, I. N. Satya Kumara, and W. G. Ariastina, "Tinjauan Terhadap Plts 24 Kw Atap Gedung Pt Indonesia Power Pesanggaran Bali," *J. SPEKTRUM*, vol. 5, no. 2, p. 26, 2018, doi: 10.24843/spektrum.2018.v05.i02.p04.
- [32] R. Sianipar, "Dasar Perencanaan Pembangkit Listrik Tenaga Surya," *Jetri J. Ilm. Tek. Elektro*, vol. 11, pp. 61–78, 2017, doi: 10.25105/jetri.v11i2.1445.
- [33] S. Das, M. R. Haque, and M. A. Razzak, "Development of One-kilowatt Capacity Single Phase Pure Sine Wave Off-grid PV Inverter," *2020 IEEE Reg. 10 Symp. TENSYP 2020*, no. June, pp. 774–777, 2020, doi: 10.1109/TENSYP50017.2020.9230909.
- [34] Samsurizal, H. Husada, A. Makkulau, and Christiono, "Perencanaan Pembangkit Listrik Tenaga Surya (PLTS) Terpusat Di Kecamatan Embaloh Hulu," *Epsil. J. Electr. Eng. Inf. Technol.*, vol. 18, no. 2, pp. 41–49, 2020.
- [35] L. E. Nuryanto, "Perancangan Sistem Kontrol Pembangkit Listrik Tenaga Hybrid (Pln Dan Plts) Kapasitas 800 Wp," *Orbith*, vol. 17, no. 3, pp. 196–205, 2021.
- [36] M. Z. Reza Marzuki Putra1, "Menentukan Performance Baterai LiFePO4 Pada PLTS Menggunakan Battery Management System (BMS)," *ZhiHu*, p. 2021, 2021, [Online]. Available: <https://www.zhihu.com/question/61446243/answer/1748688714>
- [37] A. Azis and I. K. Febrianti, "Analisis Sistem Proteksi Arus Lebih Pada Penyulang Cendana Gardu Induk Bungaran Palembang," *J. Ampere*, vol. 4, no. 2, p. 332, 2019, doi: 10.31851/ampere.v4i2.3468.
- [38] E. Supriyadi, "Penyempurnaan Proteksi Pada Sistem Tenaga Listrik Di Indonesia," pp. 1–14, 2019.
- [39] I. Sugirianta, G. Saputra, and G. Sunaya, "Modul Praktek PLTS On-Grid Berbasis Micro Inverter," *J. Matrix*, vol. 9, no. 1, pp. 19–27, 2019, [Online]. Available: <https://ojs.pnb.ac.id/index.php/matrix/article/view/1168>
- [40] B. M. Pangaribuan, I. Ayu, D. Giriantari, and I. W. Sukerayasa, "DESAIN PLTS ATAP KAMPUS UNIVERSITAS UDAYANA : GEDUNG REKTORAT," vol. 7, no. 2, 2020.

- [41] A. K. Al Bahar and A. T. Maulana, "Perencanaan dan Simulasi Sistem PLTS Off-Grid Untuk Penerangan Gedung Fakultas Teknik UNKRIS," *J. Ilm. Elektrokrisna*, vol. 6, no. 3, pp. 97–107, 2018.
- [42] V. R. Kossi, "Perencanaan PLTS Terpusat (Off-Grid) Di Dusun Tikalong Kabupaten Mempawah," *J. SI Tek. Elektro UNTAN*, 2018.
- [43] A. G. Hutajulu, M. RT Siregar, and M. P. Pambudi, "Rancang Bangun Pembangkit Listrik Tenaga Surya (Plts) on Grid Di Ecopark Ancol," *TESLA J. Tek. Elektro*, vol. 22, no. 1, p. 23, 2020, doi: 10.24912/tesla.v22i1.7333.
- [44] A. R. Idris and S. Thaha, "Desain Sistem Pembangkit Listrik Tenaga Surya Pada Tambak Udang sebagai Penggerak Aerator," *INTEK J. Penelit.*, vol. 6, no. 1, p. 36, 2019, doi: 10.31963/intek.v6i1.1012.
- [45] R. K. Pachauri *et al.*, "Impact of partial shading on various PV array configurations and different modeling approaches: A comprehensive review," *IEEE Access*, vol. 8, pp. 181375–181403, 2020, doi: 10.1109/ACCESS.2020.3028473.
- [46] T. J. Silverman and I. Repins, "Partial Shade Endurance Testing for Monolithic Photovoltaic Modules," *2018 IEEE 7th World Conf. Photovolt. Energy Conversion, WCPEC 2018 - A Jt. Conf. 45th IEEE PVSC, 28th PVSEC 34th EU PVSEC*, pp. 3932–3937, 2018, doi: 10.1109/PVSC.2018.8547832.