

## DAFTAR PUSTAKA

- [1] Center for Global Development. *Electricity Consumption and Development Indicators* [daring]. Tersedia di <https://www.cgdev.org/media/electricity-consumption-and-development-indicators> [Diakses: 15 Mei 2019]
- [2] Kementrian Energi dan Sumberdaya Mineral, *Statistik Ketenagalistrikan 2017*, Edisi 31. 2018.
- [3] Institute for Essential Service Reform, *Strategi Penyediaan akses Listrik di Pedesaan dan Daerah Terpencil di Indonesia*. 2018.
- [4] Institute of Energy Agency. *Energy Access Outlook*. 2017.
- [5] CENELEC. "Photovoltaic system performance monitoring guideliness for measurement, data exchange, and analysis". British standard, BS EN 61724
- [7] Heru Prasetyo, *Analisis Kinerja Sistem Sel Surya Asrama Kinanti 2 dan 3 Yogyakarta*, Departemen Teknik Nuklir dan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2016.
- [8] Sofyan Yusuf, *Pemantauan dan analisis kinerja panel surya untuk memenuhi kebutuhan energi listrik perpustakaan pusat UGM*. Departemen Teknik Nuklir dan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2016.
- [9] Fiki Rahmatika Salis, "Analisi Kinerja Sistem Pembangkit Listrik Tenaga Surya untuk Pemenuhan Kebutuhan Listrik pada 8 Desa Periode 2015," Universitas Gadjah Mada, 2017.
- [10] Husain, Naveed & Zainal, Nor & Singh, Balbir & Mohammed, Norani & Nor, Nursyarizal. (2011). Integrated PV based solar insolation measurement and performance monitoring system. 10.1109/CHUSER.2011.6163827.
- [11] *Bethe, Hans A.. "The Hydrogen Bomb". Bulletin of the Atomic Scientists. 1950. 6 (4): 99–104. doi:10.1080/00963402.1950.11461231*



- [12] Solar Energy Research Institute. *Basic Photovoltaic Principles and Modules*. 1982. USA.
- [13] Yahia Baghzouz. University of Nevada, Las Vegas. *Sunlights and its Properties* [daring]. Tersedia di <http://www.egr.unlv.edu/~eebag/Sunlight%20and%20its%20Properties.pdf> [Diakses: 16 September 2019].
- [14] The National Renewable Energy Laboratory. Air Mass 1.5: ASTM G-173-03. 2012.
- [15] Hamdi, Elrika. *Indonesia's Solar Policies*. 2019. Institute for Energy Economics and Financial Analysis.
- [16] Bates, david & Malvino, Albert Paul. *Electronic Principles*. McGraw-Hill Higher Education. 2007.
- [17] Satish Kyashap, *PN Junction Tutorial* [daring]. Tersedia di <http://www.satishkashyap.com/2015/08/solutions-for-tutorial-2-on-pn-junction.html> [Diakses: 20 september 2019]
- [18] J. E. Cotter, J. H. Guo, P. J. Cousins, M. D. Abbott, F. W. Chen, and K. C. Fisher, "P-Type Versus n-Type Silicon Wafers: Prospects for High-Efficiency Commercial Silicon Solar Cells" in IEEE transactions on electron devices, vol. 53, no. 8, pp 1893-1901 august 2006.
- [19] Learn Engineering, *How do solar cells work?* [daring]. Tersedia di: [https://www.youtube.com/watch?v=L\\_q6LRgKpT](https://www.youtube.com/watch?v=L_q6LRgKpT) [Diakses 28 September 2019]
- [20] Kumar, Anil. *Solar Photovoltaic Technology and Its Sustainability*. Green and Energy Techology. 2015. India.
- [21] Doyle, James. *Solar Power: Going Off-Grid or Staying Connected?*[Daring]. Tersedia di: <https://solarbay.com.au/solar-power-going-off-grid-staying-connected/> [Diakses 28 September 2018]
- [22] Cutho Ansyasar Firdaus, Analisis Perbandingan Rancangan Pebangkit Listrik Tenaga Surya dan Tenaga Diesel di Pulau Bukide. Departemen Teknik Nuklir dan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2019.
- [23] Anonim, *30A AMP PV Solar Charge Controller PWM w/USB 12 Volt Solar Panel Battery*. [Daring] Tersedia di: <http://www.mlsolar.com/30a-amp-pv-solar-charge-controller-pwm-w-usb-12-volt-solar-panel-battery-rv-boat/> [Diakses pada: 28 September 2019]



- [24] Anonim. *Basics of MPPT Solar Charge Controller*. [Daring]. Tersedia di: [http://www.leonics.com/support/article2\\_14j/articles2\\_14j\\_en.php](http://www.leonics.com/support/article2_14j/articles2_14j_en.php) [Diakses pada: 28 September 2019]
- [25] Anonim, *Battery VRLA 12V 100Ah*. [Daring] Tersedia di: <https://panelsuryajakarta.com/battery-vrla-luminous-12-v-100ah/> [Diakses pada 2 September 2019]
- [26] Anonim, *Deep Cycle Vs Starting Battery*. [Daring] Tersedia di: <https://www.batterysystems.net/deep-cycle-vs-starting-battery/> [Diakses pada 2 September 2019]
- [27] Anonim, *How does an Inverter Works?* [Daring]. Tersedia di: <https://www.mpptsolar.com/en/how-does-an-inverter-work.html> [Diakses pada 29 September 2019]
- [28] Ross, R.G. (1980), '*Flat-plate photovoltaic array design optimization*', Proc. 14h IEEE Photovoltaic Specialists Conference, San Diego, pp. 1126–1132.
- [29] Anonim, *How Do Manufacturing Tolerances Work?* [Daring] Tersedia online di: <https://www.orcad.com/ru/node/6596> [Diakses pada 1 Oktober 2019]
- [30] Anonim, *Matching solar modules to MPPT charge controllers* [Daring]. Tersedia di: <https://www.victronenergy.com/blog/2014/03/28/matching-victron-energy-solar-modules-to-the-new-mppt-charge-regulators/> [Diakses: 22-September-2019]
- [31] Anonim, *Efficiency of Inverter* [Daring]. Tersedia di: <https://www.e-education.psu.edu/eme812/node/738> [Diakses: 22-September-2019]
- [32] S.Kessler Dipl.Ing.ETH, R Nutzi Dipl.Ing.HTL. 1995. *Photovoltaik*, Malang: VEDC
- [33] Anonim, *Remote Monitoring kantor Desa Pulau Parang Karimunjawa*. [Daring] tersedia di: <http://pse.ugm.ac.id/monitoring/cdsr/k-parang/>. [ Diakses 4 Oktober 2019.]



- [34] NASA. *Power* [Daring]. diakses secara online dari <https://power.larc.nasa.gov/> [diakses pada 20 Agustus 2019.]
- [35] *Installation of photovoltaic (PV) arrays*. AS/NZS 5033:2005. This Joint Australian/New Zealand Standard.
- [36] Aris Bodhi, Perancangan *Solar Home System* (SHS) Pada Puskesmas Purwosari, Kabupaten Gunungkidul, Departemen Teknik Nuklir dan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2016.
- [37] Paul W. Stackhouse, Jr, Taiping Zhang, David Westberg, A. Jason Barnett, Tyler Bristow, Bradley Macpherson &, James M. Hoell, *POWER Data Methodology* [Daring]. Diunduh secara online dari: [https://power.larc.nasa.gov/documents/POWER\\_Data\\_v9\\_methodology.pdf](https://power.larc.nasa.gov/documents/POWER_Data_v9_methodology.pdf). Version 8.01. December 2018.
- [38] NASA's Goddard Space Flight Center, *MODIS Design* [Daring] Tersedia di: <https://modis.gsfc.nasa.gov/about/design.php> [Diakses pada 20 Agustus 2019]
- [39] Ryan C, Vignola F, McDaniels D, Solar cell arrays: degradation due to dirt. In: Proceedings of the American section of the international solar energy society; 1989. p. 234–237.
- [40] Anonim, MPPT Charger Controller and its Advantages Compared to Standard PWM [Daring]. Tersedia di: <https://www.meee-services.com/mppt-charge-controller-advantages-compare-standard-pwm/> [Diakses 19- September-2019]