DAFTAR PUSTAKA

[1] Badan Pengkajian dan Penerapan Teknologi, *Outlook Energi Indonesia 2021 Perspektif Teknologi Energi Indonesia: Tenaga Surya untuk Penyediaan Energi Charging Station*. Jakarta: Pusat Pengkajian Industri Proses dan Energi (PPIPE) dan Badan Pengkajian dan Penerapan Teknologi (BPPT), 2021.

[2] Badan Pengkajian dan Penerapan Teknologi, *Indonesia Energy Outlook 2018. Energi Berkelanjutan untuuk Transportasi Darat*. Jakarta: Pusat Pengkajian Industri Proses dan Energi (PPIPE) dan Badan Pengkajian dan Penerapan Teknologi (BPPT), 2018.

[3] O. S. E. Saputra, 'Rancangan Sistem Pembangkit Listrik Tenaga Surya (PLTS) sebagai Komponen Pendukung Green Building Asrama Mahasiswa Kinanti 2 dan 3', Universitas Gadjah Mada, 2015.

[4] R. Pratama, 'Efek Rumah Terhadap Bumi', *Bul. Utama Tek.*, vol. 14, no. 2, p. 7, 2019.

[5] Institute for Essential Services Reform (IESR), 'Laporan Status Energi Bersih Indonesia: Potensi, Kapasitas Terpasang, dan Rencana Pembangunan Pembangkit Listrik Energi Terbarukan 2019', IESR, Jakarta, 2019.

[6] H. S. Tira, 'Pengaruh Sudut Surya Terhadap Daya Keluaran Sel Surya 10 WP Tipe Polycristalline', *J. Tek. Mesin*, vol. 7, no. 2, pp. 69–74, Jul. 2018, doi: 10.22441/jtm.v7i2.2676.

[7] 'Effect of Temperature on Solar Photovoltaic Panel Efficiency', *Int. J. Eng. Adv. Technol.*, vol. 8, no. 6, pp. 2593–2595, Aug. 2019, doi: 10.35940/ijeat.F8745.088619.

[8] M. Kumar, S. S. Chandel, and A. Kumar, 'Performance analysis of a 10 MWp utility scale grid-connected canal-top photovoltaic power plant under Indian climatic conditions', *Energy*, vol. 204, p. 117903, Aug. 2020, doi: 10.1016/j.energy.2020.117903.

[9] Suwarti, Wahono, and B. Prasetiyo, 'Analisis Pengaruh Intensitas Matahari, Suhu Permukaan & Sudut Pengarah Terhadap Kinerja Panel', *J. Tek. Energi*, vol. 14, no. 3, p. 8, 2018.

[10] P. Harahap, 'Pengaruh Temperatur Permukaan Panel Surya Terhadap Daya Yang Dihasilkan Dari Berbagai Jenis Sel Surya', *RELE Rekayasa Elektr. Dan Energi J. Tek. Elektro*, vol. 2, no. 2, pp. 73–80, Mar. 2020, doi: 10.30596/rele.v2i2.4420.

[11] S. Yuliananda, G. Sarya, and R. R. Hastijanti, 'Pengaruh Perubahan Intensitas Matahari Terhadap Daya Keluaran Panel Surya', p. 10.

[12] L. C. de Lima, L. de Araújo Ferreira, and F. H. B. de Lima Morais, 'Performance analysis of a grid connected photovoltaic system in northeastern Brazil', *Energy Sustain. Dev.*, vol. 37, pp. 79–85, Apr. 2017, doi: 10.1016/j.esd.2017.01.004.

[13] M. Cubukcu and H. Gumus, 'Performance analysis of a grid-connected photovoltaic plant in eastern Turkey', *Sustain. Energy Technol. Assess.*, vol. 39, p. 100724, Jun. 2020, doi: 10.1016/j.seta.2020.100724.

[14] M. Luthfi, 'Analisis Tekno-Ekonomi Terhadap Sistem PLTS 28,56 kWp Pada Gedung Soegondo Fakultas Ilmu Budaya, Universitas Gadjah Mada', Undergraduate, Universitas Gadjah Mada, Yogyakarta, 2020.

[15] D. A. Pratama and I. H. Siregar, 'Uji Kinerja Panel Surya Tipe Polycrystalline 100 Wp', vol. 06, p. 7, 2018.

[16] A. Makkulau, Samsurizal, and S. Kevin, 'Karakteristik Temperatur Pada Permukaan Sel Surya Polycrystalline Terhadap Efektifitas Daya Keluaran Pembangkit Listrik Tenaga Surya', *Inst. Teknol. PLN*, vol. 10, no. 2, 2020, Accessed: Sep. 09, 2022. [Online]. Available: https://stt-pln.e-journal.id/sutet/article/view/1291

[17] F. Rahman, M. Rokhmat, and I. W. Fathonah, 'Analisis Pengaruh Temperatur Permukaan Panel Surya Terhadap Kapasitas Daya Keluaran', *EProceedings Eng.*, vol. 7, no. 2, Aug. 2020.

[18] A. Tino, 'Dampak Debu Terhadap Kinerja Modul Photovoltaik Di Kampus Politeknik Negeri Kupang', *J. Ilm. Flash*, vol. 2, p. 26, Jun. 2016, doi: 10.32511/jiflash.v2i1.21.

[19] M. S. Ir. Putu Arya Mertasana, 'Pengaruh kebersihan modul surya terhadap daya output yang dihasilkan pada PLTS kayubihi Kabupaten Bangli', *Univ. Udayana*, Jan. 2017.

[20] S. Dody Purwanto, S. Samsurizal, and N. Kurniasih, 'Studi Pengaruh Shading Terhadap Photovoltaic Jenis Polycrystalline', doctoral, Institut Teknologi PLN, 2020.

[21] A. Mansur, 'Analisa Dampak Bayangan Modul Terhadap Output PLTS', *Energi Kelistrikan*, vol. 11, no. 2, pp. 160–169, Nov. 2019, doi: 10.33322/energi.v11i2.746.

[22] S. Priyono, W. Wilopo, and M. K. Ridwan, 'Performance Of Rooftop Photovoltaic System With Additional Water Cooling System', vol. 4, no. 2, p. 6, 2020.

[23] R. Saputra and I. K. Bachtiar, 'Evaluasi Pembangkit Listrik Tenaga Surya (PLTS) Skala Rumah Tangga (SHS) Bantuan Pemerintah Kota Batam Di Pulau

Geranting Dan Pulau Tumbar Kelurahan Pulau Terong Kecamatan Belakang Padang', *Univ. Marit. Raja Ali Haji*, 2017.

[24] J. Liman, N. Djohan, B. Harsono, I. Karnadi, and I. Tanra, 'Perbaikan, Pemeliharaan Dan Perawatan Pembangkit Listrik Sistem Hybrid Di Kawasan Desa Picung, Kabupaten Bogor', *J. Pengabdi. Masy. Tek.*, vol. 2, no. 2, Art. no. 2, Apr. 2020, doi: 10.24853/jpmt.2.2.53-58.

[25] B. Tjasyono HK., *Klimatologi*. Bandung: ITB, 2004.

[26] R. A. Messenger and J. Ventre, *Photovoltaic Systems Engineering*, 2nd ed. Taylor & Francis, 2004.

[27] H. Prasetyo, 'Analisis Kinerja Sistem Sel Surya Asrama Kinanti 2 Dan 3 Yogyakarta', Undergraduate, Universitas Gadjah Mada, Yogyakarta, 2016.

[28] Ferdiansjah, 'Karakteristik Cahaya', presented at the Kuliah 1 Teknologi Fotovoltaik, Yogyakarta, 2020.

[29] Anonim, *Photovoltaic Effect: An Introduction Of Solar Cells*. Florida State University: Sustainable Energy Science and Engineering Center, 2010.

[30] A. A. Luthfie, 'Perancangan Sistem Pembangkit Listrik Tenaga Surya Sebagai Substitusi Sebagian Energi Listrik Gedung Perkantoran Olefin Plant Pt. Chandra Asri Petrochemical Tbk.', Undergraduate, Universitas Gadjah Mada, Yogyakarta, 2013.

[31] I. A. Kurniawan, 'Analisa Potensi Pembangkit Listrik Tenaga Surya (PLTS) Sebagai Pemanfaatan Lahan Pembangkit Listrik Tenaga Uap (PLTU) Paiton', Undergraduate, Institut Teknologi Sepuluh Nopember, 2016.

[32] 'Sistem On-Grid', *Sunergi*. http://www.sunergi.co.id/id/sistem-on-grid/ (accessed Sep. 06, 2022).

[33] 'Stand Alone PV System for Off-grid PV Solar Power', *Alternative Energy Tutorials*. http://www.alternative-energy-tutorials.com/solar-power/stand-alone-pv-system.html (accessed Oct. 07, 2021).

[34] S. T. I Nyoman Satya Kumara and M. T. Ir. I Wayan Sukerayasa, 'Analisis Unjuk Kerja Pembangkit Listrik Tenaga Surya (Plts) Satu MWP Terinterkoneksi Jaringan di Kayubihi, Bangli', *Maj. Ilm. Teknol. Elektro*, vol. 13, no. 1, Art. no. 1, Jun. 2014.

[35] 'Grid Connected PV System Connects PV Panels to the Grid', *Alternative Energy Tutorials*. http://www.alternative-energy-tutorials.com/solar-power/grid-connected-pv-system.html (accessed Oct. 07, 2021).

[36] 'Perbedaan PLTS On-Grid, Off-Grid, dan Hybrid | Sistem Penerapan Panel Surya'. https://www.gesainstech.com/2021/05/ongrid-offgrid-hybrid.html (accessed Sep. 06, 2022).

[37] D. F. Alifyanti and J. M. Tambunan, 'Pengaturan Tegangan Pembangkit Listrik Tenaga Surya (PLTS) 1000 WATT', p. 17, 2014.

[38] R. W. Herlambang, 'Perancangan Sistem Pembangkit Listrik Tenaga Surya Di Desa Marok Kecil, Kec. Singkep, Kab. Lingga, Kepulauan Riau', Undergraduate, Universitas Gadjah Mada, Yogyakarta, 2020.

[39] R. A. Messenger and A. Abtahi, *Photovoltaic Systems Engineering, Second Edition*, 2nd edition. Boca Raton: CRC Press, 2003.

[40] N. A. F. Mohd Nizam Ong, M. Z. Mohd Tohir, M. S. Md Said, M. S. Nasif, A. H. Alias, and M. R. Ramali, 'Development of fire safety best practices for rooftops grid-connected photovoltaic (PV) systems installation using systematic review methodology', *Sustain. Cities Soc.*, vol. 78, p. 103637, Mar. 2022, doi: 10.1016/j.scs.2021.103637.

[41] 'Solar Cell I-V Characteristic and the Solar Cell I-V Curve', *Alternative Energy Tutorials*. https://www.alternative-energy-tutorials.com/photovoltaics/solar-cell-i-v-characteristic.html (accessed Sep. 06, 2022).

[42] S. Safrizal, 'Rancangan Panel Surya Sebagai Sumber Energi Listrik Pada Gedung Fakultas Sains Dan Teknologi Unisnu Jepara', *J. DISPROTEK*, vol. 8, no. 2, Art. no. 2, 2017, doi: 10.34001/jdpt.v8i2.544.

[43] 'Intelligent Lightning PV Combiner Listrik Box, Ac Solar Pv Combiner Box'. http://indonesian.upsuninterruptedpowersupply.com/sale-10013318-intelligent-lightning-pv-electrical-combiner-box-ac-solar-pv-combiner-box.html (accessed Oct. 07, 2021).

[44] Indonesia Clean Energy Development II, *Panduan Perencanaan dan Pemanfaatan PLTS Atap di Indonesia*. Kementerian Energi dan Sumber Daya Mineral Republik Indonesia, 2020.

[45] 'Permen ESDM Nomor 26 Tahun 2021 Disepakati, Indonesia targetkan tercapainya target 3,6 GW PLTS Atap di tahun 2025', *IESR*, Feb. 11, 2022.

[46] Y. Perdana, I. Wardiah, and E. Yohanes, 'Perencanaan Pembangkit Listrik Tenaga Surya Ongrid 5500 Watt Di Rumah Kost Akademi', p. 8, 2018.

[47] D. Martono, 'Evaluasi Rugi-Rugi Jaringan Yang Dilayani Oleh Jaringan PLTS Terpusat Siding', p. 5.

[48] J. Kim, M. Rabelo, S. P. Padi, H. Yousuf, E.-C. Cho, and J. Yi, 'A Review of the Degradation of Photovoltaic Modules for Life Expectancy', *Energies*, vol. 14, no. 14, p. 4278, Jul. 2021, doi: 10.3390/en14144278.

[49] Ross, 'Flat-Plate Photovoltaic Array Design Optimization', 1980.

[50] CEC Austalia, *Grid Connected PV Sistem Design Guidelines*. Australia: Clean Energy Council Australia, 2013.

[51] 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, Mar. 2020, doi: 10.24912/tesla.v22i1.7333.

[52] S. N. Tackie, 'Performance Evaluation Of Serhatkoy Pv Power Plant', Near East University, 2015.

[53] 'Solcast API Toolkit'. https://toolkit.solcast.com.au/live-forecast (accessed Sep. 29, 2022).

[54] 'NASA POWER | Docs | Methodology - NASA POWER | Docs'. https://power.larc.nasa.gov/docs/methodology/ (accessed Oct. 03, 2022).

[55] 'Satellite Missions – CERES'. https://ceres.larc.nasa.gov/instruments/satellite-missions/ (accessed Oct. 03, 2022).

[56] 'Irradiance and Weather Data'. https://solcast.com/irradiance-data-methodology (accessed Oct. 03, 2022).

[57] 'Solcast: Solar irradiance forecasting for the solar powered future | AWS Public Sector Blog', Oct. 14, 2019. https://aws.amazon.com/blogs/publicsector/solcast-solar-irradiance-forecasting-for-the-solar-powered-future/ (accessed Oct. 03, 2022).

[58] E. N. F. Ltd, 'ENF Ltd.' https://www.enfsolar.com/pv/panel-datasheet/crystalline/26521 (accessed Sep. 05, 2022).

[59] M. A. Gumintang, M. F. Sofyan, and I. Sulaeman, *Design and Control of PV Hybrid System in Practice*. Kementerian Energi dan Sumber Daya Mineral Republik Indonesia, 2022.

[60] D. Quansah, 'Reliability and Degradation of Solar PV Modules—Case Study of 19-Year-Old Polycrystalline Modules in Ghana', *Technologies*, vol. 2, May 2017, doi: 10.3390/technologies5020022.

[61] 'POWER | Data Access Viewer'. https://power.larc.nasa.gov/data-access-viewer/ (accessed Sep. 06, 2022).

[62] 'KACO | Powador 39.0-72.0 TL3 | Solar Inverter Datasheet | ENF Inverter Directory'. https://www.enfsolar.com/pv/inverter-datasheet/12214 (accessed Sep. 07, 2022).