

## DAFTAR PUSTAKA

- [1] I. N. Darmawan, Kholistianingsih, B. A. Azaria, and P. Yulianto, "Analysis of The Influence of Sun Intensity on Power on Coastal and High Lands Using Solar Tracker Based on Arduino Microcontroller," in *2022 International Conference on Informatics Electrical and Electronics (ICIEE)*, 2022, pp. 1–8. doi: 10.1109/ICIEE55596.2022.10010309.
- [2] M. E. Murniati, "Analisis Potensi Energi Angin Sebagai Pembangkit Energi Listrik Tenaga Angin Di Daerah Banyuwangi Kota Menggunakan Database Online-BMKG," *J. Surya Energy*, vol. 6, no. 1, pp. 9–16, 2022, doi: 10.32502/jse.v6i1.3364.
- [3] A. L. Wardani, A. H. Andriawan, and N. A. Basyarach, "Perbandingan Antara Solar Cell Tipe Monocrystalline Dan Polycrystalline Pada Keadaan Terhalang Untuk Pertimbangan Pemilihan Pembangkit Tenaga Surya," *Pros. Nas. Rekayasa Teknol. Ind. dan Inf. XIV Tahun 2019*, vol. 2019, no. November, pp. 251–256, 2019, [Online]. Available: <http://journal.itny.ac.id/index.php/ReTII>
- [4] - Sahid and S. Priyoatmojo, "Rancang Bangun Turbin Angin Poros Horizontal Tiga Sudu Flat Berlapis Tiga Dengan Variasi Sudut Dan Posisi Sudu," *Eksergi*, vol. 15, no. 1, p. 14, 2019, doi: 10.32497/eksergi.v15i1.1462.
- [5] M. Y. Puriza, W. Yandi, and A. Asmar, "Perbandingan Efisiensi Konversi Energi Panel Surya Tipe Polycrystalline dengan Panel Surya Monocrystalline Berbasis Arduino di Kota Pangkalpinang," *J. Ecotipe (Electronic, Control. Telecommun. Information, Power Eng.)*, vol. 8, no. 1, pp. 47–52, 2021, doi: 10.33019/jurnalecotipe.v8i1.2034.
- [6] A. Anwani, "Analisis Obyek Daya Tarik Wisata Dan Aksesibilitas Terhadap Minat Berkunjung Wisatawan Di Pantai Baru Yogyakarta," *Khasanah Ilmu - J. Pariwisata Dan Budaya*, vol. 12, no. 1, pp. 57–64, 2021, doi: 10.31294/khi.v12i1.10182.
- [7] A. Sheptiawan, D. Notosudjono, and D. Bangun Fiddiansyah, "Studi Potensi Energi Angin Di Merak Banten Untuk Membangkitkan Energi Listrik," *J. Online Mhs.*, vol. 19, no. 5, pp. 1–16, 2018.
- [8] M. H. Darajat, "untuk memenuhi salah satu persyaratan mencapai derajat Sarjana S1 Jurusan Teknik Elektro Fakultas Teknologi Industri Universitas Islam Indonesia Yogyakarta," 2020.
- [9] A. Rachman, "Analisis Dan Pemetaan Potensi Energi Angin Di Indonesia," *Skripsi, Progr. Stud. Tek. Mesin Fak. Tek. Univ. Indones.*, p. 64, 2012.
- [10] L. Bimantara and H. Setiawan, "Uji Potensi Kecepatan Angin Sebagai Sumber Energi Alternatif di Kampus Terpadu Universitas Islam Indonesia," *AJIE-Asian J. Innov. Entrep.*, vol. 5, no. 1, pp. 12–19, 2020, [Online]. Available: <https://dspace.uui.ac.id/handle/123456789/23891?show=full>
- [11] B. Augustiantyo, R. Setiawan, and O. Oleh, "Optimasi Desain Bilah Dengan Metode Linearisasi Chord Dan Twist Terhadap Performa Turbin Angin Sumbu Horizontal," *Media Mesin Maj. Tek. Mesin*, vol. 22, no. 2, pp. 97–110, 2021, doi: 10.23917/mesin.v22i2.14712.
- [12] M. Adam, P. Harahap, and M. R. Nasution, "Analisa Pengaruh Perubahan

- Kecepatan Angin Pada Pembangkit Listrik Tenaga Angin (PLTA) Terhadap Daya Yang Dihasilkan Generator Dc,” *RELE (Rekayasa Elektr. dan Energi) J. Tek. Elektro*, vol. 2, no. 1, pp. 30–36, 2019, doi: 10.30596/rele.v2i1.3648.
- [13] M. Premkumar, M. Raj, and J. J. Isaac, “Design and Experimental Analysis of Oscillating Pitch Bi-rotor Horizontal Axis Wind Turbine,” pp. 437–440, 2019.
- [14] M. Saputra, “Kajian Literatur Sudu Turbin Angin Untuk Skala Kecepatan Angin Rendah,” *Mekanova*, vol. 2, no. 1, pp. 74–83, 2016.
- [15] R. Wibowo, U. M. Kudus, M. Kabib, and U. S. Pati, “DESAIN TURBIN ANGIN TIPE HORIZONTAL DENGAN 3 SUDU UNTUK,” no. September, pp. 10–20, 2022, doi: 10.24176/crankshaft.v5i2.7647.
- [16] L. F. R. Simanjuntak and B. Suhendra, “Analisis Performa Airfoil Usa-35B Dalam Perancangan Bilah Jenis Taperless Pada Turbin Angin Sumbu Horizontal 500 Watt,” *Al Jazari J. Ilm. Tek. Mesin*, vol. 7, no. 1, pp. 7–15, 2022, doi: 10.31602/al-jazari.v7i1.7104.
- [17] N. Sinaga, J. P. Soedharto, and A. Pemanfaatan, “Analisis Aliran Pada Rotor Turbin Angin Sumbu Horizontal Menggunakan Pendekatan Komputasional,” *EKSERGI J. Tek. Energi*, vol. 13, no. 3, pp. 84–91, 2017.
- [18] R. Syahyuniar, Y. Ningsih, and H. Herianto, “RANCANG BANGUN BLADE TURBIN ANGIN TIPE Syahyuniar, R., Ningsih, Y., & Herianto, H. (2018). RANCANG BANGUN BLADE TURBIN ANGIN TIPE HORIZONTAL. *Jurnal Elemen*, 5(1), 28–34. Retrieved from <http://je.politala.ac.id/index.php/JE/article/view/74> HORIZONTAL,” *J. Elem.*, vol. 5, no. 1, pp. 28–34, 2018.
- [19] M. Nuarsa, J. Teknik, M. Fakultas, and T. Universitas, “TERHADAP UNJUK KERJA TURBIN ANGIN POROS HORIZONTAL,” vol. 3, no. 1, pp. 50–59, 2013.
- [20] S. Aji and M. Widyartono, “Pengaruh Jumlah Sudu Terhadap Kinerja Generator Pada Turbin Angin Sumbu Vertikal,” *J. Tek. Elektro*, pp. 579–586, 2020, [Online]. Available: <https://ejournal.unesa.ac.id/index.php/JTE/article/view/39230%0Ahttps://ejournal.unesa.ac.id/index.php/JTE/article/download/39230/34356>
- [21] Zamzani Muhammad, Bahri Samsul, and Jufriadi, “Pembuatan Cetakan Dan Produksi Sudu Aerator Kincir Dari Bahan Komposit Dengan Variasi Diameter Lubang,” *J. Mesin Sains Terap.*, vol. 3, no. 2, pp. 1–5, 2019.
- [22] S. Chetan, C. Festila, E. Dulf, and R. Both-rusu, “Analysis of a New Horizontal Axes Wind Turbine with 6 / 3 Blades,” pp. 8–11.
- [23] S. P. Sidabutar, “Perancangan Bilah Inverse Taper Berbahan Styrofoam Dengan Airfoil Naca 4412,” *Rotor*, vol. 14, no. 2, p. 70, 2022, doi: 10.19184/rotor.v14i2.26812.
- [24] M. Alaskari, O. Abdullah, and M. H. Majeed, “Analysis of Wind Turbine Using QBlade Software,” *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 518, no. 3, 2019, doi: 10.1088/1757-899X/518/3/032020.
- [25] A. Rachman, P. Pratiwi, and L. Ashari, “Rancang Bangun dan Uji Prestasi Horizontal Axis Wind Turbine Jenis Taper Design and Performance Horizontal Axis Wind Turbine Taper Type,” *J. Tek. Mesin Inst. Teknol. Padang*, vol. 9, no. 2, pp. 2089–4880, 2019, [Online]. Available: <https://ejournal.itp.ac.id/index.php/jtm>

- [26] I. I. Cahyadi and R. D. Anjani, "Analisa Performa Bilah Taperless Dengan Airfoil S2091 Pada Turbin Angin Sumbu Horizontal," *J. Tek. Mesin*, vol. 14, no. 2, pp. 64–69, 2021, doi: 10.30630/jtm.14.2.567.
- [27] P. Bhattacharjee, R. K. Jana, and S. Bhattacharya, "1st International Conference on Engineering and Applied Natural Sciences Improving the Design of Blade for Horizontal Axis Wind Turbine with QBlade Software," no. May, 2022.
- [28] M. A. Ghofur, P. M. I. P, and R. A. Funny, "Perancangan Simulasi Turbin Angin Sumbu Horizontal (TASH) Dengan Variasi Jumlah Blade Dan Variasi Sudut Pitch Menggunakan Aplikasi Q-Blade," *Conf. Senat. STT Adisutjipto Yogyakarta*, vol. 6, pp. 133–144, 2020, doi: 10.28989/senatik.v6i0.420.
- [29] N. Erraissi, M. Raoufi, N. Aarich, M. Akhsassi, and A. Bennouna, "Implementation of a low-cost data acquisition system for 'PROPRE.MA' project," *Meas. J. Int. Meas. Confed.*, vol. 117, no. November 2017, pp. 21–40, 2018, doi: 10.1016/j.measurement.2017.11.058.
- [30] T. Mukai, S. Kawamoto, Y. Ueda, M. Saijo, and N. Abe, "Residential PV system users' perception of profitability, reliability, and failure risk: An empirical survey in a local Japanese municipality," *Energy Policy*, vol. 39, no. 9, pp. 5440–5448, 2011, doi: 10.1016/j.enpol.2011.05.019.
- [31] P. P. T. D. Priatam, "Analisa Radiasi Sinar Matahari Terhadap Panel Surya 50 WP," *RELEJurnal Tek. Elektro*, vol. 4, no. 1, pp. 48–54, 2021, [Online]. Available: <http://jurnal.umsu.ac.id/index.php/RELE/article/view/7825>
- [32] P. Harahap, "Pengaruh Temperatur Permukaan Panel Surya Terhadap Daya Yang Dihasilkan Dari Berbagai Jenis Sel Surya," pp. 73–80, 2020.
- [33] E. Urrejola *et al.*, "Effect of soiling and sunlight exposure on the performance ratio of photovoltaic technologies in Santiago, Chile," *Energy Convers. Manag.*, vol. 114, pp. 338–347, 2016, doi: 10.1016/j.enconman.2016.02.016.
- [34] D. PRATAMA and I. SIREGAR, "Uji Kinerja Panel Surya Tipe Polycrystalline 100 Wp," *J. Pendidik. Tek. Mesin UNESA*, vol. 6, no. 03, p. 251734, 2018.
- [35] D. Amalia, H. Abdillah, and T. W. Hariyadi, "5187-Article Text-12825-1-10-20220531," vol. 8, no. 1, pp. 12–21, 2022.
- [36] L. Rudawin, N. Rajabiah, and D. Irawan, "Analisa sistem kerja photovoltaic berdasarkan sudut kemiringan menggunakan monocrystalline dan polycrystalline," *Turbo J. Progr. Stud. Tek. Mesin*, vol. 9, no. 1, pp. 129–137, 2020, doi: 10.24127/trb.v9i1.1221.
- [37] S. Hernowo, "Rancang bangun turbin angin sumbu horizontal sederhana dengan panjang sudu 1 meter sigit hernowo," *J. Voering*, vol. 5, no. 1, pp. 15–21, 2020.
- [38] M. H. Kurniawan, K. K. Ayuningtiyas, and R. D. Syahrial, "Desain Turbin Angin Sumbu Horizontal Sudu Airfoil NREL S823 dan NREL S823 Sebagai Energi Alternative Di Kabupaten Malang," *Metrotech (Journal Mech. Electr. Technol.*, vol. 2, no. 1, pp. 30–40, 2023, doi: 10.33379/metrotech.v2i1.2116.
- [39] T. N. Hidayat and S. Sutrisno, "Analisis Output Daya Pada Pembangkit Listrik Tenaga Surya Dengan Kapasitas 10Wp, 20Wp, Dan 30Wp," *J. Crankshaft*, vol. 4, no. 2, pp. 9–18, 2021, doi:

- 10.24176/crankshaft.v4i2.6013.
- [40] R. Mardani, R. F. Gusa, A. Asmar, and W. Sunanda, "Pengaruh Sudut Kemiringan Terhadap Unjuk Kerja Panel Surya (Studi di Universitas Bangka Belitung)," *Setrum Sist. Kendali-Tenaga-elektronika-telekomunikasi-komputer*, vol. 11, no. 1, pp. 90–97, 2022, doi: 10.36055/setrum.v11i1.14579.
- [41] Putriani, M. Basyir, and Muhaimin, "Sistem Monitoring Alat Uji Karakteristik Panel Surya Berbasis Mikrokontroler," *J. Tektro*, vol. 3, no. 2, pp. 102–112, 2019.