# DAFTAR PUSTAKA


Adami, L., & Schiavon, M. (2021). From circular economy to circular ecology: A review on the solution of environmental problems through circular waste management approaches. *Sustainability (Switzerland)*, *13*(2), 1–20. https://doi.org/10.3390/su13020925

Al-ezzi, A. S. (2022). *Photovoltaic Solar Cells : A Review*. 1–17.

Al-Ezzi, A. S., & Ansari, M. N. M. (2022). Photovoltaic Solar Cells: A Review. *Applied System Innovation*, *5*(4), 1–17. https://doi.org/10.3390/asi5040067

Al Badwawi, R., Abusara, M., & Mallick, T. (2015). A review of hybrid solar PV and wind energy system. *Smart Science*, *3*(3), 127–138. https://doi.org/10.6493/SmartSci.2015.324

Arslan, T. A., & Kocakulak, T. (2023). A Comprehensive Review on Stirling Engines. *Engineering Perspective*, *3*(3), 42–56. https://doi.org/10.29228/eng.pers.66847

Bakhshi, R., & Sandborn, P. A. (2018). A return on investment model for the implementation of new technologies on wind turbines. *IEEE Transactions on Sustainable Energy*, *9*(1), 284–292. https://doi.org/10.1109/TSTE.2017.2729505

Bošnjaković, M., Santa, R., Crnac, Z., & Bošnjaković, T. (2023). Environmental Impact of PV Power Systems. *Sustainability (Switzerland)*, *15*(15). https://doi.org/10.3390/su151511888

Brkić, D., & Stajić, Z. (2021). Offshore oil and gas safety: Protection against explosions. *Journal of Marine Science and Engineering*, *9*(3). https://doi.org/10.3390/jmse9030331

Candra, O., Chammam, A., Alvarez, J. R. N., Muda, I., & Aybar, H. (2023). The Impact of Renewable Energy Sources on the Sustainable Development of the Economy and Greenhouse Gas Emissions. *Sustainability (Switzerland)*, *15*(3). https://doi.org/10.3390/su15032104

Chauhan, A., Sharma, M., & Baghel, S. (2020). Designing and Performance Analysis of 15KWP Grid Connection Photovoltaic System Using Pvsyst Software. *Proceedings of the 2nd International Conference on Inventive Research in Computing Applications, ICIRCA 2020*, 1003–1008. https://doi.org/10.1109/ICIRCA48905.2020.9183386

Chí, T. Ạ P., & Khí, D. Ầ U. (2018). *Phân vùng nguy cơ cháy nổ cho các công trình dầu khí*. *Bảng 2*, 45–53.

Chudy-Laskowska, K., & Pisula, T. (2022). An Analysis of the Use of Energy from Conventional Fossil Fuels and Green Renewable Energy in the Context of the European Union's Planned Energy Transformation. *Energies*, *15*(19). https://doi.org/10.3390/en15197369

Dallaev, R., Pisarenko, T., & Papež, N. (2023). *Overview of the Current State of Flexible Solar Panels and Photovoltaic Materials*.

Dong, H., Guo, J. e., Liu, J., Meng, T., Li, M., Chen, X., Li, N., & Alavi, H. (2021). Energy generation and storing electrical energy in an energy hybrid system consisting of solar thermal collector, Stirling engine and thermoelectric generator. *Sustainable Cities and Society*, *75*(August). https://doi.org/10.1016/j.scs.2021.103357

Dufo-López, R., Cortés-Arcos, T., Artal-Sevil, J. S., & Bernal-Agustín, J. L. (2021). Comparison of lead-acid and li-ion batteries lifetime prediction models in stand-alone photovoltaic systems. *Applied Sciences (Switzerland)*, *11*(3), 1–16. https://doi.org/10.3390/app11031099

Emam, M. M., El-Sattar, H. A., Houssein, E. H., & Kamel, S. (2025). Optimized design and integration of an off-grid solar PV-biomass-battery hybrid energy system using an enhanced educational competition algorithm for cost-effective rural electrification. *Journal of Energy Storage*, *120*(February), 116381. https://doi.org/10.1016/j.est.2025.116381

Faturachman, D., Yandri, E., Pujiastuti, E. T., Anne, O., Setyobudi, R. H., Yani, Y., Susanto, H., Purba, W., & Wahono, S. K. (2021). Techno-Economic analysis of photovoltaic utilization for lighting and cooling system of ferry Ro/Ro ship 500 GT. *E3S Web of Conferences*, *226*. https://doi.org/10.1051/e3sconf/202122600012

Fukuda, I., Plated, P., & Cadmium, N. (n.d.). *No Title*.

Geng, J., Murè, S., Demichela, M., & Baldissone, G. (2020). Atex-HOF methodology: Innovation driven by human and organizational factors (HOF) in explosive atmosphere risk assessment. *Safety*, *6*(1). https://doi.org/10.3390/safety6010005

González-Peña, D., García-Ruiz, I., Díez-Mediavilla, M., Dieste-Velasco, M. I., & Alonso-Tristán, C. (2021). Photovoltaic prediction software: Evaluation with real data from northern Spain. *Applied Sciences (Switzerland)*, *11*(11). https://doi.org/10.3390/app11115025

Gropper, J. (2014). *Small ORC (Organic Rankine Cycle) Power Units for Remote Applications*. *8*, 2065–2073.

Halkos, G. E., & Gkampoura, E. C. (2020). Reviewing usage, potentials, and limitations of renewable energy sources. *Energies*, *13*(11). https://doi.org/10.3390/en13112906

He, M., Forootan Fard, H., Yahya, K., Mohamed, M., Alhamrouni, I., & Awalin, L. J. (2023). Optimal Design of Hybrid Renewable Systems, Including Grid, PV, Bio Generator, Diesel Generator, and Battery. *Sustainability (Switzerland)*, *15*(4).

https://doi.org/10.3390/su15043297

Hilmi, E., Yandri, E., Uhanto, U., Saiful, R., & Hamja, N. (2024). *Hybrid Energy Solutions for Sustainable Offshore Oil and Gas Operations : Leveraging Thermoelectric , Solar , and Wind Potential*. *2*(2), 52–61. https://doi.org/10.60084/ljes.v2i2.218

Igbinenikaro, O. P., Adekoya, O. O., & Etukudoh, E. A. (2024). *Conceptualizing sustainable offshore operations : integration of renewable energy systems*.

Jiménez-García, J. C., Ruiz, A., Pacheco-Reyes, A., & Rivera, W. (2023). A Comprehensive Review of Organic Rankine Cycles. *Processes*, *11*(7). https://doi.org/10.3390/pr11071982

Kenu E. Sarah. (2020). A Review of Solar Photovoltaic Technologies. *International Journal of Engineering Research And*, *V9*(07), 741–749. https://doi.org/10.17577/ijertv9is070244

Khaleel, A., & Engineering, A. (2024). *ATEX Designing Guide*.

Khurshid, H., Mohammed, B. S., Al-Yacouby, A. M., Liew, M. S., & Zawawi, N. A. W. A. (2024). Analysis of hybrid offshore renewable energy sources for power generation: A literature review of hybrid solar, wind, and waves energy systems. *Developments in the Built Environment*, *19*(July), 100497. https://doi.org/10.1016/j.dibe.2024.100497

Kiamansouri, M., & Branch, N. (2025). *Original Article: Integration of Renewable Energy Sources in Oil and Gas Operations a Sustainable Future*. *4*(1), 111–135.

Kumar, R., Rajoria, C. S., Sharma, A., & Suhag, S. (2020). Design and simulation of standalone solar PV system using PVsyst Software: A case study. *Materials Today: Proceedings*, *46*(October), 5322–5328. https://doi.org/10.1016/j.matpr.2020.08.785

Lee, J., Kim, J. M., Yi, J., & Won, C. Y. (2021). Battery management system algorithm for energy storage systems considering battery efficiency. *Electronics (Switzerland)*, *10*(15), 1–19. https://doi.org/10.3390/electronics10151859

León Gómez, J. C., De León Aldaco, S. E., & Aguayo Alquicira, J. (2023). : Architectures, Battery Systems, anA Review of Hybrid Renewable Energy Systemsd Optimization Techniques. *Eng*, *4*(2), 1446–1467. https://doi.org/10.3390/eng4020084

Li, T., Li, A., & Song, Y. (2021). Development and utilization of renewable energy based on carbon emission reduction—evaluation of multiple mcdm methods. *Sustainability (Switzerland)*, *13*(17). https://doi.org/10.3390/su13179822

Luo, H. (2024). *Efficiency Improvement and Key Opportunities of Stirling Engine*. *88*, 835–846.

Madaleno, M., & Nogueira, M. C. (2023). How Renewable Energy and CO2 Emissions

Contribute to Economic Growth, and Sustainability—An Extensive Analysis. *Sustainability (Switzerland)*, *15*(5), 1–15. https://doi.org/10.3390/su15054089

Maienza, C., Maria, A., Vincenzo, A., & Francesco, P. (2022). Feasibility analysis for floating offshore wind energy. *The International Journal of Life Cycle Assessment*, 796–812. https://doi.org/10.1007/s11367-022-02055-8

Majeed, R., Waqas, A., Sami, H., Ali, M., & Shahzad, N. (2020). Experimental investigation of soiling losses and a novel cost-effective cleaning system for PV modules. *Solar Energy*, *201*(March), 298–306. https://doi.org/10.1016/j.solener.2020.03.014

Moldovan, L., Magyari, M., Fotău, D., & Moldovan, C. S. (2022). Specific aspects on the adequate selection of electric equipment intended for use in potentially explosive atmospheres. *MATEC Web of Conferences*, *354*, 00043. https://doi.org/10.1051/matecconf/202235400043

Muller, D. C., Selvanathan, S. P., Cuce, E., & Kumarasamy, S. (2023). Hybrid solar, wind, and energy storage system for a sustainable campus: A simulation study. *Science and Technology for Energy Transition (STET)*, *78*. https://doi.org/10.2516/stet/2023008

Oyekale, J., Petrollese, M., Tola, V., & Cau, G. (2020). Impacts of renewable energy resources on effectiveness of grid-integrated systems: Succinct review of current challenges and potential solution strategies. *Energies*, *13*(18). https://doi.org/10.3390/en13184856

R-Smith, N. A. Z., Kasper, M., Kumar, P., Nilsson, D., Mårlid, B., & Kienberger, F. (2022). Advanced Electrochemical Impedance Spectroscopy of Industrial Ni-Cd Batteries. *Batteries*, *8*(6), 1–14. https://doi.org/10.3390/batteries8060050

Razmjoo, A., Gakenia Kaigutha, L., Vaziri Rad, M. A., Marzband, M., Davarpanah, A., & Denai, M. (2021). A Technical analysis investigating energy sustainability utilizing reliable renewable energy sources to reduce CO2 emissions in a high potential area. *Renewable Energy*, *164*, 46–57. https://doi.org/10.1016/j.renene.2020.09.042

Razmjoo, A., Ghazanfari, A., Østergaard, P. A., & Abedi, S. (2023). Design and Analysis of Grid-Connected Solar Photovoltaic Systems for Sustainable Development of Remote Areas. *Energies*, *16*(7). https://doi.org/10.3390/en16073181

Sabat, R. R., Ali, S. M., & Panigrahy, R. (2015). Design and Simulation of Reliable and Efficient Hybrid Solar- Wind Power System Using Improved MPPT P & O Algorithm. *International Research Journal of Engineering and Technology (IRJET)*, 72–77.

Shamarova, N., Suslov, K., Ilyushin, P., & Shushpanov, I. (2022). Review of Battery Energy Storage Systems Modeling in Microgrids with Renewables Considering Battery

Degradation. *Energies*, *15*(19), 1–18. https://doi.org/10.3390/en15196967

Solomin, E., Kaixuan, G., Yanming, J., & Minghan, D. (2019). Off-shore PV and wind based energy generation. *2019 International Conference on Industrial Engineering, Applications and Manufacturing, ICIEAM 2019*, 8742965. https://doi.org/10.1109/ICIEAM.2019.8742965

Sund, N. (2022). *Guidelines for Documentation and Electrical Installations in Explosive Atmospheres ATEX guide at Wärtsilä*.

Taherdoost, H. (2023). *Multi-Criteria Decision Making ( MCDM ) Methods and Concepts*. *Mcdm*, 77–87.

*Technical Application Papers No.10 Photovoltaic plants*. (n.d.). *10*.

Uhanto, U., Yandri, E., Hilmi, E., Saiful, R., & Hamja, N. (2024). Predictive Maintenance with Machine Learning: A Comparative Analysis of Wind Turbines and PV Power Plants. *Heca Journal of Applied Sciences*, *2*(2), 87–98. https://doi.org/10.60084/hjas.v2i2.219

Yasemi, S., Khalili, Y., Sanati, A., & Bagheri, M. (2023). Carbon Capture and Storage: Application in the Oil and Gas Industry. *Sustainability (Switzerland)*, *15*(19). https://doi.org/10.3390/su151914486

Yimen, N., Tchotang, T., Kanmogne, A., Idriss, I. A., Musa, B., Aliyu, A., Okonkwo, E. C., Abba, S. I., Tata, D., Meva, L., Hamandjoda, O., & Dagbasi, M. (2020). Optimal Sizing and Techno-Economic Analysis of Hybrid Renewable Energy Systems — A Case Study of. *Processes*, 2–25.

Zereshkian, S., & Mansoury, D. (2023). Solar-wind hybrid energy system to supply electricity for offshore oil and gas platforms in the Caspian Sea: A case study. *The Journal of Engineering*, *2023*(2), 1–9. https://doi.org/10.1049/tje2.12239

Zoui, M. A., Stocholm, J. G., & Bourouis, M. (2020). *A Review on Thermoelectric Generators : March 2011*.

**LAMPIRAN**

**Lampiran 1. CCVT**