

DAFTAR PUSTAKA

- Alqamari, Muhammad, dkk. (2023). *Budidaya Tanaman Secara Hidroponik Solusi Bercocok Tanaman di Lahan Sempit*. Medan: UMSU Press.
- Alshnable. F. (2012). *Material & Energy Balances*. Near East Engineering Faculty Food Engineering Department.
- Andrade C. (2021) The Inconvenient Truth About Convenience and Purposive Samples. *Indian Journal of Psychological Medicine*. 43(1):86-88.
- Ariksa, J., Forestico, A. S. S., Setiawan, Y., Saparin, S., & Wijianti, E. S. (2024). Pengaruh Pendinginan Panel Surya Terhadap Efisiensi Daya Keluaran. *Machine: Jurnal Teknik Mesin*, 10(1), 36-40.
- Badan Pusat Statistik Daerah Istimewa Yogyakarta. 2024. Indikator Iklim. Sleman <https://slemankab.bps.go.id/id/statistics-table/2/MTA4IzI=/indikator-iklim-sleman.html>
- Bappenas.(2020). *SDGs Indonesia*. <https://sdgs.bappenas.go.id/product/sdgs-2020/>
- Barkhausen, R., Rostek, L., Miao, Z. C., & Zeller, V. (2023). Combinations of material flow analysis and life cycle assessment and their applicability to assess circular economy requirements in EU product regulations. A systematic literature review. *Journal of Cleaner Production*, 407, 137017.
- Boakye-Yiadom, K. A., Duca, D., Foppa Pedretti, E., & Ilari, A. (2021). Environmental performance of chocolate produced in Ghana using life cycle assessment. *Sustainability*, 13(11), 6155.

Borrion, A., Black, M. J., dan Mwabonje, O. 2021. *Life Cycle Assessment: A Metric for the Circular Economy*. Royal Society of Chemistry. United Kingdom.

Brunner, P. H., & Rechberger, H. (2016). *Handbook of material flow analysis: For environmental, resource, and waste engineers*. CRC press.

Dahiya, S., Katakajwala, R., Ramakrishna, S., & Mohan, S. V. (2020). Biobased products and life cycle assessment in the context of circular economy and sustainability. *Materials Circular Economy*, 2, 1-28.

Devi, S.A., & Mirwan, M. (2023). Analisis Life Cycle Assessment (LCA) pada Proses Produksi Pupuk ZA II Menggunakan Metode Recipe 2016. *INSOLOGI: Jurnal Sains dan Teknologi*, 2(3), 620-632.

Elia, V., Gnoni, M. G., & Tornese, F. (2019). Measuring circular economy strategies through Life Cycle Assessment: A case study of an Italian SME. *Sustainability*, 11(3), 572. doi:10.3390/su11030572

Eskandari, H., & Attar, S. (2015). Energy comparison of two rice cultivation systems. *Renewable and Sustainable Energy Reviews*, 42, 666-671.

EPD. (2021). *Environmental Product Declarations: Introduction to the default list of environmental performance indicators*. Stockholm. Swedia.
<https://www.environdec.com/resources/indicators>

Fadhillah, M. H., & Fahreza, M. (2023). Pendekatan Ekonomi Sirkular sebagai Model Pengembangan Bisnis melalui Pemanfaatan Aplikasi pada Usaha Kecil dan Menengah Pasca Covid-19.

FAO. 2018. *Guidelines for environmental quantification of nutrient flows and impact assessment in livestock supply chains*. Livestock Environmental Assessment and Performance (LEAP) Partnership. Rome, FAO.

FAO. 2020. *Land use in agriculture by the numbers*. In: *FAO Sustainable Food and Agriculture*. Rome. Cited 29 September 2024.
www.fao.org/sustainability/news/detail/en/c/1274219/

Farjana, S. H., Mahmud, M. P., & Huda, N. (2021). *Life cycle assessment for sustainable mining*. Elsevier.

Finnveden. 2009. Recent Developments in Life Cycle Assessment. *Journal of Environmental Management* 91: 1-21.

GaBi. (2009). *Handbook for Life Cycle Assessment (LCA)*. In *Using the GaBi Education Software Package*, PE International (Vol. 60). Leinfelden Echterdingen.

Giudice, Fabio., La Rosa, Guido., & Risitano, Antonino. (2006). *Product design for the environment : a life cycle approach*. CRC Press.

Harahap, L, & Dwiningsih, N. (2022). Pengenalan Ekonomi Sirkular (Circular Economy) bagi Masyarakat Umum. *J Pengabdian Masyarakat*, 1(2), 135-141.

Hauschild, M.Z., Rosenbaum, R.K., Olsen, S.I. (2018). *Life Cycle Assessment Theory and Practice*. Springer International Publishing AG. Switzerland

Hidayat, F., (2023). Kajian Dampak Proses Produksi BBM Di PT X Terhadap Lingkungan Dengan Menggunakan Metode Life Cycle Assessment (LCA). *Environmental Science and Engineering Conference (ESEC) Proceeding*, Vol.4, No.1: 135-140

Ilmi, T. (2021). *Cara Hidroponik Tanaman Tomat*. Elementa Agro Lestari. Jakarta

Indonesia, G. P. C. (2019). *Standar Penilaian Produk Pipa Polimer dan Sambungan*. Green Product Council Indonesia.

Jaehun S. 2016. The Air Emission Assessment of South Korean Traditional Building During Its Life Cycle. Elsevier Building and Environment, issue 105.

Jolliet, O., Saade-Sbeih, M., Shaked, S., Jolliet, A., dan Crettaz, P. 2016. *Environmental Life Cycle Assessment*. CRC Press. New York.

Kannan, M., Elavarasan, G., Balamurugan, A., Dhanusiya, B., & Freedom, D. (2022). Hydroponic farming – *A state of art for the future agriculture*. Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.08.416>

Kementrian Energi dan Sumber Daya. (2024). Faktor Emisi Bahan Bakar Minyak dan Batubara. Cited 12 Januari 2025. <https://www.esdm.go.id/assets/media/content/content-faktor-emisi-bahan-bakar-minyak-bbm-dan-batubara.pdf>

Kim, H. (2021). What is a Circular Economy and How Does it Work?. Network for Business Sustainability. Cited 23 Januari 2025. <https://nbs.net/what-is-a-circular-economy-and-how-does-it-work/>

KLH. (2012). *Pedoman Penyelenggaraan Inventarisasi GRK Nasional: Buku II Volume 1 Metodologi Penghitungan Tingkat Emisi Gas Rumah Kaca*. Kementerian Lingkungan Hidup Republik Indonesia Deputi Bidang Pengendalian Kerusakan Lingkungan dan Perubahan Iklim.

KLHK. (2021). *Pedoman Penyusunan Laporan Penilaian Daur Hidup (LCA)*. Direktorat Jendral Pengendalian Pencemaran Dan Kerusakan Lingkungan, September, 1–82.

Lambey, D. S., Amin, N., Pirade, Y. S., dan Santoso, R. 2021. Analisis Konsumsi Energi Listrik Untuk Pencapaian Efisiensi Energi di Kantor Dewan Perwakilan Rakyat Daerah Kabupaten Tojo Una-Una. *Dalam Jurnal Ilmiah Foristek*, Vol. 11, No. 2: 108-114.

Maimutu, DK., Suryanto. A. 2018. Pengaruh Media Tanam dan Konsentrasi AB-Mix pada Tanaman Kubis Bunga (*Brassica oleraceae* var botrytis L.) Sistem Hidroponik Substrat. *Jurnal Produksi Tanaman*. 6 (4) : 516-523.

Muazu, R. I., & Stegemann, J. A. (2015). Effects of operating variables on durability of fuel briquettes from rice husks and corn cobs. *Fuel Processing Technology*, 133, 137-145.

Mukono, H. J. 2011. *Aspek Kesehatan Pencemaran Udara*. Surabaya: Airlangga University Press.

OECD (Organisation for Economic Co-operation and Development). 2010.

Sustainable management of water resources in agriculture. Paris, OECD.

Park, Y. W., & Tamaki, K. 2025. *Circular Economy Strategy for SDG Bussiness Management*. Singapore: Springer Nature Singapore.

Piasecka, I., Baldowska-Witos, P., Piotrowska, K., & Tomporowski, A. (2020).

Eco-energetical life cycle assessment of materials and components of photovoltaic power plant. *Energies*, 13(6), 1385.

Purba, D. Y., Zambak, M. F., & Hutabarat, P. H. T. (2024). Potensi Pembangkit Listrik Tenaga Bayu Secara Ekonomi di Kawasan Wisata Pantai Cermin Menggunakan Software Homer. *Journal Of Electrical And System Control Engineering*, 8(1), 115-122.

Rajaseger, G., Chan, K. L., Tan, K. Y., Ramasamy, S., Khin, M. C., Amaladoss, A., & Haribhai, P. K. (2023). Hydroponics: current trends in sustainable crop production. *Bioinformation*, 19(9), 925.

Rangappa, S. M., Parameswaranpillai, J., Siengchin, S., Ozbakkaloglu, T., & Wang, H. (Eds.). (2022). *Plant Fibers, Their Composites, and Applications*. Woodhead Publishing.

Robin, Adelemena, R., & Mubaraq Ritonga, I. (2023). Dampak Disiplin Kerja, Semangat Kerja, Beban Kerja dan Kemampuan Kerja Terhadap Kinerja Karyawan di PT. Tales Inti Sawit. *Jurnal Pendidikan Tambusai*, vol. 7(3): 21584-21589

Sabet, H., Moghaddam, S. S., & Ehteshami, M. (2023). A comparative life cycle assessment (LCA) analysis of innovative methods employing cutting-edge technology to improve sludge reduction directly in wastewater handling units. *Journal of Water Process Engineering*, 51, 103354. <https://doi.org/10.1016/j.jwpe.2022.103354>

Salsabil, N., Dhokhikah, Y., & Rohman, A. (2023, November). The carbon footprint from ruminant livestock in the breeding-green farm in Jember. In *IOP Conference Series: Earth and Environmental Science* (Vol. 1263, No. 1, p. 012024). IOP Publishing.

Sims, R., Flammini, A., Puri, M. & Bracco, S. 2015. Opportunities for agri-food chains to become energysmart. Rome, FAO, and Washington, USAID

Singh, A. 2020. Translating the Paris Agreement into Action in the Pacific. Springer. Fiji.

Sitepu, T. (2022). *Produksi Tanaman Selada (*Lactuca Sativa* L.) Pada berbagai Nutrisi Secara Hidroponik* (Doctoral dissertation, Universitas Medan Area).

Siti, M. (2021). *Cara Menanam Selada Hidroponik dan Keuntungannya*. Jakarta. Cited 26 Februari 2025. <https://www.gramedia.com/best-seller/selada-hidroponik/>

Triwahyuni, E., & Lasmini, S. A. (2020). Pengaruh Konsentrasi Nutrisi AB Mix Terhadap Pertumbuhan Dan Hasil Tanaman Selada Merah (*Lactuca sativa* var. *Red Rapids*) Sistem Hidroponik. *Agrotekbis: Jurnal Ilmu Pertanian (e-journal)*, 8(6), 1410-1416.

Tubiello, F.N., Rosenzweig, C., Conchedda, G., Karl, G.K., Gütschow, J., Xueyao, P., Obli-Laryea, G., et al. 2021. Greenhouse Gas Emissions from Food Systems: Building the Evidence Base. *Environmental Research Letters*, 16: 065007.

Yanti, A.L., Ritonga, A.M., & Margiwiyatno, A. (2022). Audit Energi pada Industri Pengolahan Tahu (Studi Kasus Industri Kecil Menengah Desa Sampang dan Desa Brani Kecamatan Sampang Kabupaten Cilacap).

Yudha, A., Abdu, D., & Assomadi, F. (2022). Kajian Dampak Emisi Udara Pada Produksi Minyak Bumi di Perusahaan “A” Menggunakan Metode Life Cycle Assessment (LCA). *Jurnal Purifikasi*, Vol. 21(2): 52-60.