

DAFTAR PUSTAKA

- AEA Technology Environment, 2006. Task 24: *Energy from biological conversion of organicwaste*. [Online] Available at: www.ieabioenergy.com
- AFROX, 2011. *Material Safety Data Sheet: Ethylene*. [Online] Available at: www.afrox.co.za [Accessed 01 January 2024].
- Agency, Ardhin I dkk, 2012. *Pembuatan dan Pemanfaatan Etilen Sebagai Energi Alternatif Dengan Menggunakan Tabung Digester Metode kultur Kontinyu*.
- Agustina, S. (2016). *Skrinning Fitokimia Tanaman Obat di Kabupaten Bima*. Indonesia E-Journal of Applied Chemistry. Vol (4), 1.
- Air Liquide, 2018. *Safety Data Sheet: Methane*. [Online] Available at: Alsafetydatasheets.com [Accessed 23 July 2023].
- Alibaba.com Low Temperature Pressure Vessel ETILEN Liquefied Natural Gas Storage Tank. https://www.alibaba.com/product-detail/Low-Temperature-Pressure-Vessel-ETILEN-Liquefied_62168218157.html?spm=a2700.galleryofferlist.normal_offer.d_title.5e102087EuyqYn&s=p
- Ali, Sun J. 2015. *Physico-chemical pretreatment and fungal biotreatment for park wastes and cattle dung for Etilen production*. Springerplus 2015;4(1):1–14. <https://doi.org/10.1186/s40064-015-1466-9>
- Ali, Ahmad Amiruddin Mohd, Mohd Ridzuan Othman, Yoshihito Shirai, and Mohd Ali Hassan. 2015. *Sustainable and Integrated Palm Oil Biorefinery Concept with Value-Addition of Biomass and Zero Emission System*. Journal of Cleaner Production, 91, 96–99.
- Amaru, K. (2004). *Rancang Bangun dan Uji Kinerja Biodigester Plastik Polyethylene Skala Kecil (Studi Kasus Ds. Cidatar Kec. Cisurupan Kab. Garut)*. Skripsi. Jurusan Teknologi Pertanian, Fakultas Pertanian. Universitas Padjajaran. Bandung
- Amnuaycheewa, P. et al., 2016. *Enhancing enzymatic hydrolysis and Etilen production from rice straw by pretreatment with organic acids*. Industrial Crops and Products, Volume 87, pp. 247- 254.
- Anonim. (1989). *The Etilen Technology in China*. Chengdu Etilen Research Institute, Chengdu, China. ASME, 2018. ASME Setting the Standard. [Online] Available at: <https://www.asme.org/codes-standards/find-codes-standards/b31-8-gas-transmission-distribution-piping-systems>.
- ASME, 2018. *ASME Setting the Standard*. [Online] Available at:

<https://www.asme.org/codes-standards/find-codes-standards/b31-8-gas-transmission-distribution-piping-systems>.

Atidhira Y, Noviansyah A, dan Taufany F, 2017, *Pengembangan Metode Pretreatment Melalui Proses Fisik dan Kimia untuk Optimasi Produksi Etilen dari Eceng Gondok (Eichhornia crassipes) sebagai Alternatif Energi Listrik – Etilen*, Departemen Teknik Kimia, Fakultas Teknologi Industri, Institut Teknologi Sepuluh Nopember (ITS).

Badan Pusat Statistik, 2021. *Suhu kota Cilegon 2022-2023*. [Online] Available at : [Badan Pusat Statistik Kota Cilegon \(bps.go.id\)](https://bps.go.id) [Akses 23 Juli 2023].

Bethell, W. J., 2010. Etilen Upgrading. Auckland (NZ), Patent No. US20100107872A1.

Brown, G.G. 1978. *Unit Operation*. Modern Asia Edition. New York: John Wiley and Sons Inc. Brownell, L.E., and Young, E.H. 1959. *Process Equipment Design*. New York: John Wiley and

Sons Inc.

Carl L. Yaws & McGraw-Hill, 1999. *Chemical Properties Handbook: Physical, Thermodynamic, Environmental Transport, Safety & Health Properties*.

Chemical Engineering Plant Cost Index, www.chemengonline.com/pci

Chemical Engineering World, 2019. *Spherical Storage Tank Design*. [Online] Available at: <https://chemicalengineeringworld.com/spherical-storage-tank-design/>

Chemical Engineering, 2011. *Chemical Engineering Cost Index*. [Online] Available at: http://folk.ntnu.no/magnehi/cepci_2011_py.pdf.

Chemical Engineering, 2014. *Economic Indicator*. [Online] Available at: www.chemeng.queensu.ca/courses/CHEE332/files/CEPCI_2014.pdf

CR Clean Air, 2015. *The Importance of Selecting the Right Wet Scrubber Materials*. [Online] Available at: <https://www.crcleanair.com/uncategorized/the-importance-of-selecting-wet-scrubber-materials/>

Max S. Peters, Klaus D. Timmerhaus. 1991. *Plant design and economics for chemical engineers*.

New York : [McGraw-Hill](http://www.mcgraw-hill.com), chemical engineering series.

MERCK, 2018. *Lembaran Data Keselamatan Bahan*, s.l.: Peraturan (UE) No.1907/2006.

- Perry, R.H. and Green, D. 1999. *Chemical Engineering Handbook*. ed. 7. New York: Mc Graw Hill.
- Peters, M.S. and Timmerhause, K.D. 1991. *Plant Design and Economics for Chemical Engineering*. ed. 7.
- DACHENG corp., n.d. *Centrifugal Pump*. [Online] Available at: [https://dachengpump.en.made-in-china.com/product/zKNEfpkYaPRC/China-1-5dk-20-Centrifugal Pump-Industrial-Pump-1HP-Pump-Price.html](https://dachengpump.en.made-in-china.com/product/zKNEfpkYaPRC/China-1-5dk-20-Centrifugal-Pump-Industrial-Pump-1HP-Pump-Price.html) [Accessed 26 November 2023].
- Deublein, D. & Steinhäuser, A., 2008. *Etilen from Waste and Renewable Resource*. Jerman: Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim.
- Dinas Perkebunan Kalimantan Timur, Data Statistik Perkebunan Tahun 2018-2021, [Dinas Perkebunan Provinsi Kalimantan Timur \(kaltimprov.go.id\)](http://kaltimprov.go.id)
- Direktorat Jenderal Minyak dan Gas Bumi- Kementerian ESDM, 2020, www.migas.esdm.go.id Direktorat Jenderal Energi Baru Terbarukan dan Konversi Energi, 2015
- Direktorat Jendral Peternakan dan Kesehatan Hewan, 2022, [Direktorat Jenderal Peternakan dan Kesehatan Hewan, Kementerian Pertanian](http://www.kemtan.go.id)
- Disidry Silica Gel, n.d. *How to regenerate*. [Online] Available at: <https://www.silica-gel.it/en/content/14-how-to-regenerate-> [Accessed November 2023].
- Disidry Silica Gel, n.d. *How to Regenerate Silica Gel*. [Online] Available at: <https://www.silica-gel.it/en/content/14-how-to-regenerate>
- Donaldson Filtration Solutions, n.d. *Heat Regenerated Adsorption Dryer*. [Online] Available at: <https://www.donaldson.com/en-be/compressed-air-process/products/compressed-air-gas/dryers/heat-regenerated-adsorption/>
- Drosig B, Braun R, Bochmann G, 2013, *Analysis and characterization of Etilen feedstocks*, University of Natural Resources and Life Sciences, Austria and Teodorita Al Saedi, Biosantect, Denmark.
- Duangmanee, T., 2009. *Micro-aeration for hydrogen sulfide removal from Etilen*.
- Dwinanda, V. C., 2017. *Perancangan Wet Scrubber sebagai Unit Pengurang Kadar H₂S pada Produksi Etilen di PT Enero Mojokerto*. Surabaya: Fakultas Teknik Industri, Institut Teknologi Sepuluh Nopember.
- Energy Smarts, 2013. *Anaerobic Digestion: Turning Waste into Renewable Energy*. [Online] Available at: <http://blog.mass.gov/energy/green-business/anaerobic-digestion-turning-waste-into-renewable-energy/>
- https://www.engineeringtoolbox.com/coal-heating-values-d_1675.html
- Engineeringtoolbox.com. *Ethylene – Density and Specific Weight vs Temperature and Pressure*.

- Diakses pada 18 September 2023 dari Methane - Density and Specific Weight vs. Temperature and Pressure (engineeringtoolbox.com).
- Gantina, T. M., Iriani, P., Maridjo, & Wachjoe, C. K. (2020). *Etilen purification using water scrubber with variations of water flow rate and Etilen pressure*. Journal of Physics: Conference Series, 1450(1). <https://doi.org/10.1088/1742-6596/1450/1/012011>
- Geankoplis, C.J. 1983. *Transport Process and Unit Operation*. Third Edition. New Delhi: Prentice-Hall International, Inc.
- Grand View Research, 2021, [Bio-energy Market Size | Global Industry Report, 2019-2025 \(grandviewresearch.com\)](https://www.grandviewresearch.com)
- Handayani, Sri. 2022. *Diktat Ekonomi Teknik*. Serpong: Institut Teknologi Indonesia.
- Harmsen P, Huijgen W, Bermúdez L, Bakker R (2010) *Literature review of physical and chemical pretreatment processes for lignocellulosic biomass*, 1st edn. ISBN 9789-085-857-570, Netherlands.
- Haryati, T. (2006). Etilen: *Limbah peternakan yang menjadi sumber energi alternatif*. Jurnal Wartazoa, 16(3), 160-169.
- Heryadi, Eko, and Pawinee Chaiprasert. 2017. *Methane Production Potential of Oil Palm Mesocarp Fiber Using Variuos Seed Inoculums and Pretreatments*. South East Asian Technical University Consortium Symposium (SEATUC), (1), 1–7.
- Himmelblau, David M. dan James B. riggs. 1989. *Basic Principles and Calculations in Chemical Engineering*. New Jersey: Prentice Hall.
- Husnil, Y.A. 2018. *Diktat Operasi Teknik Kimia 2*. Tangerang Selatan : Institut Teknologi Indonesia.
- Indiamart, n.d. Stainless Steel Silo Tank. [Online] Available at: <https://www.indiamart.com/proddetail/stainless-steel-silo-tank-15320061055.html>
- Iskandar, Muhammad Johan, Azizah Baharum, Farah Hannan Anuar, and Rizafizah Othaman. 2018. Palm Oil Industry in South East Asia and the Effluent Treatment Technology—A Review. *Environmental Technology and Innovation*, 9, 169–85.
- J&M Industrial, n.d. *Carbon Steel Tanks*. [Online] Available at: <https://www.jmindustrial.com/product/13723-used-2500-gallon-carbon-steel-tank-with-stainless-mixer-8%C3%B8/>
- Joelianingsih. 2020. *Azaz Teknik kimia 1 dan 2 : Mass Balance and Energy Balance*. Serpong: Institut Teknologi Indonesia.
- Kaparaju, P, Buendia I, Ellegaard L, and Angelidakia I, (2008). *Effects of mixing on methane production during thermophilic anaerobic digestion of manure*, Lab-scale and pilot-scale studies. *Bioresource Technology* 99: 4919–4928.
- Kementrian Energi dan Sumber Daya Mineral, 2022. *Data Penjualan, Ekspor dan impor LPG*

- 2016-Semester I 2021. Direktorat Jenderal Minyak dan Gas Bumi.
Kompas.com, 2023. Besaran UMP dan UMK 2024 di Provinsi Kalimantan Timur.
<https://regional.kompas.com/read/2023/12/04/205154078/besaran-ump-dan-umk-2024-di-provinsi-kalimantantimur> (Diakses tgl 6 Jan 24, 10:06)
- Kumar, A., & Samadder, S. R. (2020). *Performance evaluation of anaerobic digestion technology for energy recovery from organic fraction of municipal solid waste : a review*