

DAFTAR PUSTAKA

- Aakko-Saksa, PT., M, W., R, P., C, S., P, R., . . . J., E. (2020). Renewable Methanol With Ignition Improver Additive For Diesel Engines. *Energy Fuels* 34:379–388, 379-388.
- ABS. (2021). *Sustainability Whitepaper : Methanol as Marine Fuel. Februari 2021*. USA: American Bureau Shipping.
- Ammar, N. R. (2019). An environmental and economic analysis of methanol fuel for a cellular container ship. *Transportation Research Part D* 69, 66–76.
- Andersson, P. K., & Salazar, C. M. (2015). *Methanol a Marine Fuel Report*. Florida: FC Business Intelligent Energy Ltd.
- Balcombe, P., Brierley, J., Lewis, C., Skatvedt, L., Speirs, J., Hawkes, A., & Staffell, I. (2019). How to Decarbonize International Shipping : Options for fuels, technologies, and policies. *Energy Conversion and Management Elsevier, Imperial College London, UK*.
- Björnestrand, L. (2017). *Efficiency and emissions analysis of amethanol fuelled direct injection spark ignition heavy duty engine*. Swedia: Master Thesis, Department of Energy Sciences, Lund University, Sweden.
- Bureau Veritas. (2022). *METHANOL & ETHANOL FUELLED SHIPS : NR670 - August 2022*. Paris, Prancis: Bureau Veritas.
- Bureau Veritas. (2023). *AN INSIDE LOOK AT METHANOL AS FUEL*. Diambil kembali dari Marine Offshore Bureau Veritas: <https://marine-offshore.bureauveritas.com/inside-look-methanol-fuel>
- C., C., Balland, O., Tvette, H., & Brandsaeter, A. (2014). Alternative Fuels for Shipping. *Høvik, Norway: DNV GL. DNV Position Paper 17*.
- ECHA. (2021). *Methanol Substance Infocard*. Diambil kembali dari ECHA Europe: <https://echa.europa.eu/substanceinformation/-/substanceinfo/100.000.599>
- Ellis, J., B, R., J, B., P, M., M, T., P, A.-S., . . . T, R. (2018). *SUMMETH—sustainable marine methanol. Final Report Summary of the SUMMETH Project Activities and Results. Doc. Number: D6.2, 10.04.2018*. Swedia: SUMMETH.

- Ellis, J., Olafsson, M., Olsson, T., Dolan, G., Yalcin, A., Jonkers, P., & Copin, M. (2021). *Report on Methanol Supply, Bunkering Guidelines, and Infrastructure*. Swedia: FAST Track to Clean and Carbon Neutral WATERborne Transport (FASTWATER) Project : Lunds Universitet.
- European Commission. (2020). *CORDIS EU Research Results. METHAPU*. Europe: EC. <https://cordis.europa.eu/project/id/31414>.
- Faber, J., Hanayama, S., Zhang, S., Pereda, P., Comer, B., Hauerhof, E., . . . Humm, D. (2020). *Fourth IMO Green House Gas Study*. CE Delft : Delft. <https://www.imo.org/en/OurWork/Environment/Pages/Fourth-IMO-Greenhouse-Gas-Study-2020.aspx>: International Maritime Organisation.
- Fagerlund, P., & Ramne, B. (2013). *Effship project: summary and conclusions*. Jerman: Germany Government.
- FCBI Energy. (2015). *Methanol as a Marine Fuel*. Swedia: FCBI Energy.
- GESAMP. (2019). *GESAMP Hazard Evaluation Procedure for Chemicals Carried by Ships*. London: Joint Group of Experts on the Scientific Aspects of Marine Enviromental Protection Hazard Procedure System.
- Glis, Ikvah, T., Pasymi, & Mulyazmi. (2021). Pra Rancangan Metanol dari Gas Alam dengan Kapasitas Produksi 350.000 Ton/Tahun. *Skripsi : Universitas Bung Hatta*, 1.
- Global Data Energy. (2022, Mei 13). *Asia to dominate global methanol capacity additions by 2026*. Diambil kembali dari Offshore Technology: <https://www.offshore-technology.com/comment/global-methanol-capacity-additions/>
- Globe Newswire. (2021, September 1). *Insights on the Methanol Global Market to 2026 - Players Include Celanese, Eastman Chemical and SABIC Among Others*. Diambil kembali dari Globe Newswire by notified, Research and Markets the World's Largest Market Research Store: <https://www.globenewswire.com/en/news-release/2021/09/01/2290023/28124/en/Insights-on-the-Methanol-Global-Market-to-2026-Players-Include-Celanese-Eastman-Chemical-and-SABIC-Among-Others.html>
- IMO. (2016). *Methanol as marine fuel : Environmental benefits, technology*

- readiness, and economic feasibility.* International Maritime Organisation.
- IMO. (2016). *Module 2 – Ship Energy Efficiency Regulations and Related Guidelines.* London: International Maritime Organisation.
- IMO. (2020). *INTERIM GUIDELINES FOR THE SAFETY OF SHIPS USING METHYL/ETHYL ALCOHOL AS FUEL.* November 2020. London: International Maritime Organization (IMO).
- Iqbal, M. I. (2017). *Methanol as an Alternative Fuel for Shipping.* Surabaya: Institut Teknologi Sepuluh Nopember.
- IRENA. (2021). *A pathway to DECARBONISE THE SHIPPING SECTOR By 2050.* Abu Dhabi: International Renewable Energy Agency.
- IRENA. (2021, January). *Innovation Outlook : Renewable Methanol. Report produced in partnership with the Methanol Institute.* Diambil kembali dari IRENA Website: <https://www.irena.org/publications/2021/Jan/Innovation-Outlook-Renewables-Methanol>
- Jacobsen, S. (2021, August 24). *Maersk Accelerates fleet decarbonisation with new vessel order.* Diambil kembali dari Reuters: <https://www.reuters.com/business/sustainable-business/maersk-orders-eight-vessels-able-run-carbon-neutral-methanol-2021-08-24/>
- Johansson, B. (2016). *Fuels and combustion.* In *BootM(eds) Biofuels from lignocellulosic biomass: innovation beyond bioethanol.* 1-27: Wiley-VCH Verlag GmbH & Co. KGaA.
- Jurnal Maritim. (2017, August 22). *Mengenal Oil Tanker dan Chemical Tanker.* Diambil kembali dari Jurnal Maritim: <https://jurnalmaritim.com/mengenal-oil-tanker-dan-chemical-tanker/>
- Malcolm Pirnie Incorporated. (1999). *EVALUATION OF THE FATE AND TRANSPORT OF METHANOL IN THE ENVIRONMENT.* Oakland, California 94612: Malcom Pirnie.
- Maritime Knowledge Center (MKC). (2018). *Methanol as an alternative fuel for vessels.* London: TNO; TU Delft. Public Final Report, MIIP001-2017.
- Martin, A. (2021, September 1). *A step forward for “green” methanol and its potential to deliver deep GHG reductions in maritime shipping.* Diambil kembali dari International Council on Clean Transportation website:

<https://theicct.org/blog/staff/green-methanol-ghg-reductions-marine-sept21>

- Methanex. (2022). *2022 Annual Report*. Dallas, USA: Methanex : the power of agility.
- Methanex. (2023). *Methanol as a Marine Fuel*. Diambil kembali dari Methanex Website: <https://www.methanex.com/about-methanol/marine-fuel/>
- Methanol Institute . (2023). *Methanol Fuelled Vessels on the Water and on the Way*. Singapore - Washington - Brussel: Methanol Institute.
- Methanol Institute. (2020). Methanol as a Marine Fuel. *Methanol Institute : Methanol as a Marine Fuel*. New York: Methanol Institute.
- Methanol Institute. (2023). *MARINE METHANOL : Future-Proof Shipping Fuel*. United States of America: Methanol Institute.
- Methanol Institute. (2023). *Methanol Safe Handling Manual 5th Edition*. Diambil kembali dari <https://www.methanol.org/safe-handling/>
- Methanol Institute. (2023). *The Marine Fuel of the Future*. Diambil kembali dari Methanol Institute : Marine: <https://www.methanol.org/marine/>
- Moirangthem, K. (2016). *Alternative fuels for marine and inland waterways – an exploratory study*. Luxembourg. [https://publications.jrc.ec.europa.eu/repository/handle/JRC100405:](https://publications.jrc.ec.europa.eu/repository/handle/JRC100405) European Commission Joint Research Centre, Institute for Energy and Transport.
- Netzer, D., J., A., & Goldwine, G. (2015). Methanol proves low-cost, sustainable option for gasoline blending. *Oil and Gas Journal*.
- Olah, G. A., Goeppert, A., & Prakash, G. K. (July 2018). *Beyond Oil and Gas: The Methanol Economy, 3rd Edition*. California: Wiley-VCH.
- Paulauskas, V., & V, L. (2013). *CleanShip, clean Baltic Sea shipping. 3.6 Sustainable shipping and port development*. . Klaipeda: Klaipeda Science and Technology Park.
- Rachow, M., Loest, S., & Bramastha, A. D. (2018). Analysis of the Requirement for the Ships Using Metanol as Fuel. *Internatioanl Journal of Marine Engineering Innovation and Research, Vol. 3 (2)*, 62.
- Rachow, M., Loest, S., & Bramastha, A. D. (2018). Analysis of the Requirements

for the Design of Ships Using Methanol as Fuel. *International Journal of Marine Engineering Innovation and Research*, Vol. 3(2), Dec. 2018. , 58-68.

Salo, J. (2023). *Feasibility of Methanol as a Retrofit Fuel Solution for Ferries and Cruise Ships*. Turku, Finlandia: YRKESHOGSKOLAN NOVIA.

Shamun, S. (2019). Characterization of the combustion of light alcohols in CI engine: performance, combustion characteristics and emissions. *PhD Thesis, Department of Energy Sciences, Lund University, Sweden*.

Ship Technology. (2021, October 22). *Proman, Stena join forces to develop methanol retrofit solution*. Diambil kembali dari Ship Technology: <https://www.ship-technology.com/news/proman-stena-methanol-retrofit-solution/>

Splitter, D., Wissink, M., Vescovo, D. D., & Reitz, D. (2013). *RCCI engine operation towards 60% thermal efficiency*. United States of America: SAE International. SAE Technical Paper 2013-01-0279, 2013. <https://doi.org/10.4271/2013-01-0279>.

Statista. (2023, Maret 24). *Global production capacity of methanol 2018-2021*. Diambil kembali dari Statista, Chemicals & Resources, Chemical Industry, Methanol. Published by Statista Research Department: <https://www.statista.com/statistics/1065891/global-methanol-production-capacity/>

SUMMETH. (2020). *Sustainable Marine Methanol*. Diambil kembali dari SUMMETH : Sustainable Marine Methanol: <https://summeth.marinemethanol.com/?page=home>

Sustainable Ships. (2023, March 23). *The State of Methanol as Marine Fuel 2023*. Diambil kembali dari Sustainable Ships : Sustainability on Demand: <https://www.sustainable-ships.org/stories/2023/methanol-marine-fuel>

Trading Economics. (2023, Juni 10). *Methanol Prices*. Diambil kembali dari Trading Economics: <https://tradingeconomics.com/commodity/methanol>

Ventura, M. (2011). *Tanker Ship Design I*. (hal. 3-4). Lisbon: Instituto Superior Tecnico.

Verhelst, S., Turner, J., Sileghem, L., & Vancoillie, J. (2019). *Methanol as a fuel*

for internal combustion engines. *Progress in Energy and Combustion Science* 70 (2019), 43-88.

Wikipedia. (2023, Juni). *Methanol*. Diambil kembali dari Wikipedia:
<https://en.wikipedia.org/wiki/Methanol>

Wikipedia. (2023, May 26). *Retrofit*. Diambil kembali dari Wikipedia:
<https://id.wikipedia.org/wiki/Retrofit>

Zincir, B. (2021). An alternative fuel assessment model for ships and experiments on the effect of methanol on diesel engines. Dalam P. C. Shukla, G. Belgiorno, G. D. Blasio, & A. K. Agarwal, *Alcohol as an Alternative Fuel for Internal Combustion Engines* (hal. 61-63). Singapore: Springer Nature Singapore.

Zincir, B., Deniz, C., & Tuner, M. (2021). Investigation of environmental, operational and economic performance of methanol partially premixed combustion at slow speed operation of a marine engine. Dalam P. C. Shukla, G. Belgiorno, G. D. Blasio, & A. K. Agarwal, *Alcohol as an Alternative* (hal. 67-71). Singapore: Springer Nature Singapore.