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- [1] "Emission control technologies - ULEV - EC Public Wiki." Accessed: Jan. 24, 2025. [Online]. Available: <https://wikis.ec.europa.eu/display/ULEV/Emission+control+technologies>
- [2] "1 new message." Accessed: Jan. 24, 2025. [Online]. Available: <https://www.marketresearchfuture.com/reports/emission-control-technology-market-24572>
- [3] "Emission Control Technology Market Size to Hit USD 328.1 Bn by 2034." Accessed: Jan. 24, 2025. [Online]. Available: <https://www.precedenceresearch.com/emission-control-technology-market>
- [4] "Emissions control - International Council on Clean Transportation." Accessed: Jan. 24, 2025. [Online]. Available: <https://theicct.org/technology/emissions-control/>
- [5] "(PDF) Effect of Car Emissions on Human Health and the Environment." Accessed: Feb. 06, 2025. [Online]. Available: https://www.researchgate.net/publication/272073031_Effect_of_Car_Emissions_on_Human_Health_and_the_Environment
- [6] Lubrizol Corporation, "How it Works - Selective Catalytic Reduction (SCR)," Lubrizol360.com.
- [7] Engine Technology Forum, "What is Selective Catalytic Reduction?," Engine Technology Forum.
- [8] M. Jabłońska and A. O. Hernández, "Selective Catalytic Reduction of Nitrogen Oxides with Hydrogen (H₂-SCR-DeNO_x) over Platinum-Based Catalysts," *ChemCatChem*, vol. 16, no. 22, p. e202400977, Nov. 2024, doi: 10.1002/CCTC.202400977.
- [9] P. Ndlovu, R. Bulannga, and L. L. Mguni, "Progress in carbon dioxide capture, storage and monitoring in geological landform," *Front Energy Res*, vol. 12, p. 1450991, Oct. 2024, doi: 10.3389/FENRG.2024.1450991/BIBTEX.
- [10] "Frontiers | Progress in carbon dioxide capture, storage and monitoring in geological landform." Accessed: Jan. 14, 2025. [Online]. Available: <https://www.frontiersin.org/journals/energy-research/articles/10.3389/fenrg.2024.1450991/full>
- [11] Universal Technical Institute, "The Guide to Diesel Particulate Filters (DPFs)," UTI.edu.
- [12] M. W. Chang, "Advancements in Electrostatic Precipitators and Their Role in Reducing Industrial Emissions," vol. 13, p. 12, 2024, doi: 10.4172/2319.

- [13] B. Pellegrin, P. Berne, H. Giraud, and A. Roussey, "Exploring the potential of electrostatic precipitation as an alternative particulate matter filtration system in aircraft cabins", doi: 10.1111/ina.12990.
- [14] Y. Zhang and H. Stripple, *Scrubbers: Closing the loop Activity 3: Task 4 Evaluation of exhaust gas scrubber systems for ship applications from a system perspective*. 2019. [Online]. Available: www.ivl.se
- [15] "Air emissions and water pollution discharges from ships with scrubbers - International Council on Clean Transportation." Accessed: Jan. 13, 2025. [Online]. Available: <https://theicct.org/publication/air-emissions-and-water-pollution-discharges-from-ships-with-scrubbers/>
- [16] "Wet Scrubbers vs Dry Scrubbers." Accessed: Jan. 24, 2025. [Online]. Available: <https://www.nedermanmikropul.com/en-US/knowledge-center/wet-scrubbers-vs-dry-scrubbers>
- [17] "Wet Scrubbers vs. Dry Scrubbers For Air Pollution." Accessed: Jan. 24, 2025. [Online]. Available: <https://www.machengineering.com/blog/wet-vs-dry-industrial-scrubbers-for-air-pollution/>
- [18] J. M. Lahtinen, *Closed-loop Exhaust Gas Scrubber Onboard a Merchant Ship*.
- [19] K. Ramaswamy *et al.*, "Reduction of environmental chemicals, toxicity and particulate matter in wet scrubber device to achieve zero emissions," *Sci Rep*, vol. 12, no. 1, p. 9170, Dec. 2022, doi: 10.1038/S41598-022-13369-W.
- [20] "Air emissions and water pollution discharges from ships with scrubbers - International Council on Clean Transportation." Accessed: Jan. 13, 2025. [Online]. Available: <https://theicct.org/publication/air-emissions-and-water-pollution-discharges-from-ships-with-scrubbers/>
- [21] P. Puzdrowska, "Diagnostic Information Analysis of Quickly Changing Temperature of Exhaust Gas from Marine Diesel Engine Part i Single Factor Analysis," *Polish Maritime Research*, vol. 28, no. 4, pp. 97–106, Dec. 2021, doi: 10.2478/pomr-2021-0052.
- [22] "Laminar vs. Turbulent Flow: Difference, Examples, and Why It Matters." Accessed: Feb. 04, 2025. [Online]. Available: <https://www.ansys.com/blog/laminar-vs-turbulent-flow>
- [23] "Sampoerna Academy." Accessed: Feb. 02, 2025. [Online]. Available: <https://www.sampoernaacademy.sch.id/news/perpindahan-kalor>
- [24] R. Eickenhorst and T. Koch, "An experimental study on aging effects of fuel-cut events including sound optimized torque reduction on modern three-way catalysts," *Automotive and Engine Technology 2024 9:1*, vol. 9, no. 1, pp. 1–23, May 2024, doi: 10.1007/S41104-024-00144-4.

- [25] M. Durat, Z. Parlak, M. Kapsiz, A. Parlak, and ve Ferit FIÇICI, "CFD AND EXPERIMENTAL ANALYSIS ON THERMAL PERFORMANCE OF EXHAUST SYSTEM OF A SPARK IGNITION ENGINE," *J. of Thermal Science and Technology*, vol. 33, pp. 89–99, 2013.
- [26] A. Kuranc, J. Caban, B. Šarkan, A. Dudziak, and M. Stoma, "Emission of selected exhaust gas components and fuel consumption in different driving cycles," *Communications - Scientific Letters of the University of Žilina*, vol. 23, no. 4, pp. B265–B277, Oct. 2021, doi: 10.26552/COM.C.2021.4.B265-B277.
- [27] "Montiro.id | Manifold (Intake & Exhaust)." Accessed: Feb. 03, 2025. [Online]. Available: <https://montiro.id/otopedia/abjad/m/manifold-intake-exhaust>
- [28] M. Durat, Z. Parlak, M. Kapsiz, A. Parlak, and ve Ferit FIÇICI, "CFD AND EXPERIMENTAL ANALYSIS ON THERMAL PERFORMANCE OF EXHAUST SYSTEM OF A SPARK IGNITION ENGINE," *J. of Thermal Science and Technology*, vol. 33, pp. 89–99, 2013.
- [29] R. Saputra Nursal, A. H. Hashim, M. Afandi, A. Hamid, and M. R. Danuri, "CFD ANALYSIS ON THE EFFECTS OF EXHAUST BACKPRESSURE GENERATED BY FOUR-STROKE MARINE DIESEL GENERATOR AFTER MODIFICATION OF SILENCER AND EXHAUST FLOW DESIGN," vol. 12, no. 4, 2017, [Online]. Available: www.arnjournals.com
- [30] J. R. Allwardt, J. F. Stebbins, B. C. Schmidt, D. J. Frost, A. C. Withers, and M. M. Hirschmann, "Aluminum coordination and the densification of high-pressure aluminosilicate glasses," *American Mineralogist*, vol. 90, no. 7, pp. 1218–1222, 2005, doi: 10.2138/am.2005.1836.
- [31] H. W. Nesbitt, P. Richet, G. S. Henderson, and G. M. Bancroft, "Thermal Expansion of Metal Oxides in Silicate Melts: A Simple Theoretical Analysis," *Am J Sci*, vol. 324, p. 7, Apr. 2024, doi: 10.2475/001C.115477.
- [32] W. Xu, S. Van Alphen, V. V. Galvita, V. Meynen, and A. Bogaerts, "Effect of Gas Composition on Temperature and CO₂ Conversion in a Gliding Arc Plasmatron reactor: Insights for Post-Plasma Catalysis from Experiments and Computation," *ChemSusChem*, vol. 17, no. 16, p. e202400169, Aug. 2024, doi: 10.1002/CSSC.202400169.
- [33] "What is Ansys? ⚡ Features, Application and Benefits of Ansys." Accessed: Jan. 26, 2025. [Online]. Available: <https://www.mr-cfd.com/what-is-ansys/>
- [34] "What is Computational Fluid Dynamics (CFD)? | Ansys." Accessed: Jan. 26, 2025. [Online]. Available: <https://www.ansys.com/simulation-topics/what-is-computational-fluid-dynamics>
- [35] "Ansys CFX | Industry-Leading CFD Software." Accessed: Jan. 26, 2025. [Online]. Available: <https://www.ansys.com/products/fluids/ansys-cfx>

- [36] "Ansys CFD Simulation Software | CFD Analysis - Simutech." Accessed: Jan. 26, 2025. [Online]. Available: <https://simutechgroup.com/ansys-software/fluids/>
- [37] M. Bellows, T. Fixed, F. X. Beveled, and W. End, "Engine exhaust catalog".
- [38] "Find your ideal ship engine - Wärtsilä engine configurator." Accessed: Feb. 03, 2025. [Online]. Available: <https://www.wartsila.com/marine/engine-configurator>
- [39] Wärtsilä, "Wärtsilä 26 - Product Guide," 2022.

