

## DAFTAR PUSTAKA

- Ahn, C. *et al.* (2010) 'Enhanced Estimation of Air Emissions from Construction Operations Based on Discrete-Event Simulation', in Tizzani, W. (ed.) *The International Conference on Computing in Civil and Building Engineering-2010 & The XVII EG-ICE Workshop on Intelligent Computing in Engineering -2010*. Nottingham: The University of Nottingham, pp. 237–243.
- Allen, D. T. *et al.* (2016) 'Carbon Dioxide, Methane And Black Carbon Emissions From Upstream Oil And Gas Flaring In The United States', *Current Opinion in Chemical Engineering*, 13, pp. 119–123. doi: 10.1016/j.coche.2016.08.014.
- Allen, J. (2004) *Ozone and Climate Change, NASA Earth Observatory*,. Available at: [www.TheOzoneHole.htm](http://www.TheOzoneHole.htm).
- American Petroleum Institute (2009) *Compendium of Greenhouse Gas Emissions Methodologies For The Oil And Gas Industry*. Edited by T. M. Shires et al. Washington, DC: American Petroleum Institute,.
- Amin, I. (2011) *Rancangan Proses Pengendalian Dan Pemanfaatan Gas Karbon Dioksida Pada Sumur Minyak Dan Gas Bumi Dengan Teknologi Carbon Capture And Storage*. Institut Pertanian Bogor.
- Andriono, F., Hanafi, I. and Yanuwadi, B. (2013) 'Green Open Space Scenarios in Reducing CO 2 Emissions in Malang City , Indonesia : A Dynamic System Approach', *IOSR Journal of Engineering (IOSRJEN)*, 3(6), pp. 1–13. doi: e-ISSN: 2250-3021, p-ISSN: 2278-8719.
- Annes Nur Soviyanti (2017) *Penilaian Jasa Lingkungan Pohon pada Jalur Hijau Jalan Sebagai Upaya Mereduksi Polusi Udara di Kota Bogor annes nur soviyanti*. Institut Pertanian Bogor.
- Anonymous (2005) *Sekilas Proper, Dulu, Sekarang dan Masa Datang*. Edited by S. Ginting et al. Jakarta: Bidang Pengendalian Dampak Lingkungan Sumber Institusi Kementerian Lingkungan Hidup.
- Anonymous (2017) *SimaPro Database Manual Methods Library*. 3.0. Edited by PRé. California: PRé. Available at: [http://creativecommons.org/licenses/by-nc-sa/3.0/nl/deed.en\\_US](http://creativecommons.org/licenses/by-nc-sa/3.0/nl/deed.en_US).
- Badan Perencanaan Pembangunan Nasional (2014) *Pedoman Teknis Perhitungan Baseline Emisi Gas Rumah Kaca*. Edited by Badan Perencanaan Pembangunan Nasional (BAPPENAS). Jakarta: Badan Perencanaan Pembangunan Nasional (BAPPENAS).

- Badan Standardisasi Nasional (2005) 'Sistem manajemen lingkungan – Persyaratan dan Panduan Penggunaan'. Indonesia: Badan Standardisasi Nasional Indonesia.
- Badan Standardisasi Nasional (2017) 'Manajemen lingkungan – Penilaian daur hidup – Persyaratan dan panduan'. Indonesia: Badan Standardisasi Nasional Indonesia.
- Bond, C. E. *et al.* (2014) *Life-Cycle Assessment of Greenhouse Gas Emissions from Unconventional Gas in Scotland*. Scotland. Available at: <http://www.climatechange.org.uk/reducing-emissions/life-cycle-assessment-ghg-emissions-unconventional-gas1/>.
- Chang, Y. *et al.* (2014) 'Shale-to-Well Energy Use and Air Pollutant Emissions of Shale Gas Production in China', *Applied Energy*. Elsevier Ltd, 125, pp. 147–157. doi: 10.1016/j.apenergy.2014.03.039.
- Chopra, S., Achari, P. and Kulkarni, V. (2016) 'Current Market Techniques Used To Reduce CO<sub>2</sub> Emissions From Diesel Engines TO REDUCE CO<sub>2</sub>', *International Journal of Scientific Engineering and Applied Science (IJSEAS)*, 2(12), pp. 84–93. doi: ISSN: 2395-3470.
- Comodi, G., Renzi, M. and Rossi, M. (2016) 'Energy Efficiency Improvement In Oil Refineries Through Flare Gas Recovery Technique To Meet The Emission Trading Targets', *Energy*, 109, pp. 1–12. doi: 10.1016/j.energy.2016.04.080.
- Davoudi, M. *et al.* (2013) 'The Major Sources Of Gas Flaring And Air Contamination In The Natural Gas Processing Plants: A Case Study', *Journal of Natural Gas Science and Engineering*. Elsevier B.V, 13(May 1991), pp. 7–19. doi: 10.1016/j.jngse.2013.03.002.
- Dhitasari, N. N. A. C. (2011) 'Perbandingan Penipisan Lapisan Ozon Stratosferik di Artik dan Antartika Suatu Ulasan', *Litbang Industri*, XLVI(I), pp. 64–69.
- Ditjen Migas (2016) *Statistika Minyak dan Gas Bumi Minyak dan Gas Bumi 2016*. 2016th edn. Jakarta: Direktorat Jenderal Minyak dan Gas Bumi Kementerian Energi dan Sumber Daya Mineral.
- Dubiel, S. J. *et al.* (2017) 'Analysis of Drill Stem Test ( DST ) Results at Osobnica Oil Field , In Terms of Sampling of Selected Technology parameters', *AGH Drilling, Oil, Gas*, 34(2). doi: 10.7494/drill.2017.34.2.375.
- Effendy, S. (2007) *Keterkaitan Ruang Terbuka Hijau dengan Urban Heat Island Wilayah JABOTABEK*. Institut Pertanian Bogor.
- Esquivel-Patiño, G. G., Serna-González, M. and Nápoles-Rivera, F. (2017) 'Thermal integration of natural gas combined cycle power plants

with CO<sub>2</sub> capture systems and organic Rankine cycles', *Energy Conversion and Management*, 151(May), pp. 334–342. doi: 10.1016/j.enconman.2017.09.003.

- Faramawy, S., Zaki, T. and Sakr, A. A. E. (2016) 'Natural Gas Origin, Composition, And Processing: A Review', *Journal of Natural Gas Science and Engineering*. Elsevier B.V, 34, pp. 34–54. doi: 10.1016/j.jngse.2016.06.030.
- Fawole, O. G., Cai, X. M. and Mackenzie, A. R. (2016) 'Gas Flaring And Resultant Air Pollution: A Review Focusing On Black Carbon', *Environmental Pollution*. Elsevier Ltd, 216, pp. 182–197. doi: 10.1016/j.envpol.2016.05.075.
- Fotouhi, A. *et al.* (2015) 'Investigation of micronucleus induction in MTH1 knockdown cells exposed to UVA, UVB or UVC', *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*. Elsevier Ltd, 793, pp. 161–165. doi: 10.1016/j.mrgentox.2015.06.002.
- Giandadewi, D. S., Andarani, P. and Nugraha, W. D. (2017) 'Potensi Dampak Lingkungan Dalam Sistem Produksi Minyak Kelapa Sawit Mentah ( Crude Palm Oil-CPO ) Dengan Menggunakan Metode Life Cycle Assessment ( Studi Kasus : PT . Sinar Mas Agro Resources And Technology Tbk )', *Teknik Lingkungan Undip*, 6(1), pp. 1–10.
- Giwa, S. O. *et al.* (2017) 'Gas Flaring Attendant Impacts Of Criteria And Particulate Pollutants: A Case Of Niger Delta Region Of Nigeria', *Journal of King Saud University - Engineering Sciences*. The Authors. doi: 10.1016/j.jksues.2017.04.003.
- Giwa, S. O., Nwaokocha, C. N. and Odufuwa, B. O. (2017) 'Mitigating Gas Flare And Emission Footprints Via The Implementation Of Natural Gas Vehicles In Nigeria', *Energy Policy*. Elsevier Ltd, 111(April), pp. 193–203. doi: 10.1016/j.enpol.2017.09.027.
- ICF Consulting Canada (2012) *Life Cycle Greenhouse Gas Emissions Of Natural Gas A Literature Review Of Key Studies Comparing Emissions Life Cycle Greenhouse Gas Emissions Of Natural Gas*. Canada. Available at: <http://www.capp.ca/getdoc.aspx?DocId=215278>.
- IPCC (2006a) *2006 IPCC Guidelines for National Greenhouse Gas Inventory Volume 1 General Guidance and Reporting*. Volume 1. Edited by S. Eggleston *et al.* Kanagawa: Institute for Global Environmental Strategies (IGES) on behalf of IPCC.
- IPCC (2006b) *2006 IPCC Guidelines for National Greenhouse Gas Inventory Volume 2 Energy*. Volume 2. Edited by S. Eggleston *et al.* Kanagawa: Institute for Global Environmental Strategies (IGES) on behalf of IPCC.

- IPCC (2006c) *2006 IPCC Guidelines for National Greenhouse Gas Inventory Volume 3 Industrial Processes and Product Use*. Volume 3. Edited by S. Eggleston et al. Kanagawa: Institute for Global Environmental Strategies (IGES) on behalf of IPCC.
- Irawan, R. B., Purwanto and Hadiyanto (2013) 'Karakterisasi Katalis Tembaga Pada Catalytic Converter Untuk Mengurangi Emisi Gas Carbon Monoksida Motor Bensin', *TRAKSI*, 13(2), pp. 52–62.
- Jane, J. (2019) *Two New Technologies Developed to Reduce Harmful Diesel Engine Emissions*, [www.sciencetimes.com](http://www.sciencetimes.com). Available at: [http://www.sciencetimes.com/articles/16594/20170603/Two New Technologies Developed To Reduce Harmful Diesel Engine.com](http://www.sciencetimes.com/articles/16594/20170603/Two-New-Technologies-Developed-To-Reduce-Harmful-Diesel-Engine.com).
- Jo, H. (2002) 'Impacts of Urban Greenspace on Offsetting Carbon Emissions for Middle Korea', *Environmental Management*, 64, pp. 115–126. doi: 10.1006/jema.2001.0491.
- Karim, A. I. (2010) 'Evaluasi Emisi Kendaraan Bermotor Pada Jalan Tol Jakarta-Cikampek Menggunakan Mobile Versi 6.2.', *Teknik Sipil UBL*, 1(1), pp. 30–40.
- Kawilarang, F. (2013) *Pengukuran albedo dan suhu permukaan beberapa jenis vegetasi di hutan kota srengseng*, *Skripsi*. Bogor: Departemen Konservasi Sumberdaya Hutan dan Ekowisata, Fakultas Kehutanan, Institut Pertanian Bogor.
- Keesom, B., Blieszner, J. and Unnasch, S. (2011) *EU Pathway Study: Life Cycle Assessment of Crude Oils in a European Context Interim*. Canada.
- 'LEMIGAS', P. T. M. dan G. B. (1995) *Kamus Minyak dan Gas Bumi*. 3rd edn. Jakarta: Puslitbang Teknologi Minyak dan Gas Bumi 'LEMIGAS'.
- Maryanto, D., Mulasari, S. A. and Suryani, D. (2009) 'Penurunan Kadar Emisi Gas Buang Karbon Monoksida ( CO ) Dengan Penambahan Arang Aktif', *Kesehatan Masyarakat*, 3(3), pp. 198–204.
- Massoli, P., Maturilli, M. and Neuber, R. (2006) 'Climatology of Arctic polar stratospheric clouds as measured ° lesund , Spitsbergen ( 79 ° N , 12 ° E ) by lidar in Ny-A', *JOURNAL OF GEOPHYSICAL RESEARCH*, 111, pp. 1–12. doi: 10.1029/2005JD005840.
- Nowak, D. J. and Heisler, G. M. (2010) *Air Quality Effects of Urban Trees and Parks*. Ashburn, Virginia.
- Ojijiagwo, E., Oduoza, C. F. and Emekwuru, N. (2016) 'Economics Of Gas To Wire Technology Applied In Gas Flare Management', *Engineering Science and Technology, an International Journal*, 19(4), pp. 2109–2118. doi: 10.1016/j.jestch.2016.09.012.
- Palupi, A. H., Tama, I. P. and Sari, R. A. (2012) 'Evaluasi Dampak

Lingkungan Produk Kertas Dengan Menggunakan Life Cycle Assessment ( LCA ) Dan Analytic Network Process ( ANP ) ( Studi Kasus: PT X Probolinggo )', *Rekayasa dan Manajemen Sistem Industri*, 2(5), pp. 1136–1147.

- Portmann, R. W., Daniel, J. S. and Ravishankara, A. R. (2012) 'Stratospheric ozone depletion due to nitrous oxide: Influences of other gases', *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1593), pp. 1256–1264. doi: 10.1098/rstb.2011.0377.
- Purwaningsih, I. W. (2016) *Penilaian Daur Hidup (Life Cycle Assessment) Gula Tebu di PG Subang, Jawa Barat*. Institut Pertanian Bogor.
- Purwanto (2009) 'Penerapan Teknologi Produksi Bersih Untuk Meningkatkan Efisiensi Dan Mencegah Pencemaran Industri'. Semarang: Universitas Diponegoro.
- Putri, H. P. (2017) *Life Cycle Assessment ( Lca ) Emisi Pada Proses Produksi Bahan Bakar Minyak ( BBM ) Jenis Bensin Dengan Pendekatan Metode Analytical Hierarchy Process ( AHP )*. Institut Teknologi Sepuluh November.
- Rafiq, L., Tajbar, S. and Manzoor, S. (2017) 'Long term temporal trends and spatial distribution of total ozone over Pakistan', *Egyptian Journal of Remote Sensing and Space Science*. National Authority for Remote Sensing and Space Sciences, 20(2), pp. 295–301. doi: 10.1016/j.ejrs.2017.05.002.
- Rahman, M. M., Canter, C. and Kumar, A. (2014) 'Greenhouse Gas Emissions From Recovery Of Various North American Conventional Crudes', *Energy*, 74(C), pp. 607–617. doi: 10.1016/j.energy.2014.07.026.
- Rahman, M. M., Canter, C. and Kumar, A. (2015) 'Well-To-Wheel Life Cycle Assessment Of Transportation Fuels Derived From Different North American Conventional Crudes', *Applied Energy*, 156, pp. 159–173. doi: 10.1016/j.apenergy.2015.07.004.
- Rahmawati, S. N. (2014) *Kemampuan hutan kota dalam ameliorasi iklim mikro di kampus ipb darmaga (studi kasus arboretum arsitektur lanskap)*, *Skripsi*. Bogor: Departemen Konservasi Sumberdaya Hutan dan Ekowisata, Fakultas Kehutanan, Institut Pertanian Bogor.
- Raj, R. *et al.* (2016) 'A well-to-wire life cycle assessment of Canadian shale gas for electricity generation in China', *Energy*. Elsevier Ltd, 111, pp. 642–652. doi: 10.1016/j.energy.2016.05.079.
- Ramirez, M. I. *et al.* (2017) 'Contamination By Oil Crude Extraction – Refinement And Their Effects On Human Health', *Environmental Pollution*. Elsevier Ltd, 231, pp. 415–425. doi:

10.1016/j.envpol.2017.08.017.

- Rangkuti, Z. (2009) *Model Pemanfaatan Gas Ikutan Di Perusahaan Migas Dalam Rangka Mendukung Mekanisme Pembangunan Bersih (Studi Kasus Lapangan Eksploitasi Migas Tugu Barat, Indramayu, Jawa Barat)*. Institut Pertanian Bogor.
- Republik Indonesia (2004) *Peraturan Pemerintah Republik Indonesia Nomor 35 Tahun 2004 Tentang Kegiatan Usaha Hulu Minyak Dan Gas Bumi Presiden*. Jakarta. Indonesia: Sekretaris Negara Republik Indonesia.
- Republik Indonesia (2009) *Peraturan Menteri Energi Dan Sumber Daya Mineral Republik Indonesia Nomor 19 Tahun 2009 Tentang Kegiatan Usaha Gas Bumi Melalui Pipa*. Jakarta, Indonesia: Departemen Energi dan Sumber Daya Mineral, Kepala Biro Hukum dan Humas.
- Republik Indonesia (2012) *Peraturan Menteri Negara Lingkungan Hidup Republik Indonesia Nomor 12 Tahun 2012 Tentang Pedoman Penghitungan Beban Emisi Kegiatan Industri Minyak Dan Gas Bumi*. Jakarta.Indonesia: Menteri Hukum dan Hak Asasi Manusia Republik Indonesia.
- Republik Indonesia (2017) *Peraturan Menteri Energi Dan Sumber Daya Mineral Republik Indonesia Nomor 32 Tahun 2017 Tentang Pemanfaatan Dan Harga Jual Gas Suar Pada Kegiatan Usaha Hulu Minyak Dan Gas Bumi*. Jakarta.Indonesia.
- Rodriguez, J. M. (2007) 'Stratospheric Chemistry. Treatise on Geochemistry', in *Treatise on Geochemistry*. Elsevier Ltd., pp. 1–34.
- Samiaji, T. (2012) 'Karakteristik Gas N<sub>2</sub>O ( Nitrogen Oksida ) Di Atmosfer Indonesia', *Berita Dirgantara*, 13(4), pp. 147–154.
- Sari, A. T. (2017) *Life Cycle Assessment ( Lca ) Emisi Pada Proses Produksi Bahan Bakar Minyak ( BBM ) Jenis Solar Dengan Pendekatan Metode Analytical Hierarchy Process ( AHP )*. Institut Teknologi Sepuluh November.
- Sari, M. S. (2018) 'Determine Environment Impacts in Upstream Processes of Oil and Gas Industries', in Universitas Diponegoro (ed.) *ICENIS 2018*. Semarang: E3S Web Conferences, pp. 8–11. doi: <https://doi.org/10.1051/e3sconf/20187305008>.
- Sari, M. S., Hadiyanto and Muhammad, F. (2018) 'Flare Gas Recovery as One of The Clean Development Mechanism ( CDM ) Practices', in Universitas Sebelas Maret (ed.) *International Conference on Climate Change*. Surakarta: IOP Conf. Series: Earth and Environmental Science, pp. 1–8. doi: 10.1088/1755-1315/200/1/012023.

- Scrivener, M. and Carmical, P. (2012) *Life Cycle Assessment Handbook - A Guide for Environmentally Sustainable Products*. Edited by M. A. Curran. Salem, Massachusetts: Scrivener Publishing LLC.
- Selmi, W. *et al.* (2016) 'Air Pollution Removal by Trees in Public Green Spaces in Strasbourg', *Urban Forestry & Urban Greening*. Elsevier GmbH., 17(2), pp. 192–201. doi: 10.1016/j.ufug.2016.04.010.
- Soltanieh, M., Zohrabian, A. and Javad, M. (2016) 'International Journal Of Greenhouse Gas Control A Review Of Global Gas Flaring And Venting And Impact On The Environment: Case Study Of Iran', *International Journal of Greenhouse Gas Control*. Elsevier Ltd, 49, pp. 488–509. doi: 10.1016/j.ijggc.2016.02.010.
- Stamford, L. and Azapagic, A. (2014) 'Life Cycle Environmental Impacts Of UK Shale Gas', *Applied Energy*, 134, pp. 506–518. doi: 10.1016/j.apenergy.2014.08.063.
- Stone, S., Leon, M. C. and Fredericks, P. (2010) *Perubahan Iklim dan Peran Hutan, Manual Komunitas*. Arlington: Conservation International.
- Sulistiyono (2015) 'Kegiatan Usaha Industri Migas Hubungannya Dengan Dampak Dan Tanggung Jawab Kelestarian Lingkungan Hidup', *Forum Teknologi*, 05(2), pp. 23–30.
- Suyanti, L., Rushayati, S. B. and Hermawan, R. (2008) 'Penurunan Polusi Timbal Oleh Jalur Hijau Tanjung (Mimusops elengi linn) Di Taman Monas Jakarta Pusat', *Media Konservasi*, 13(1), pp. 16–20.
- Tong, F., Jaramillo, P. and Azevedo, I. M. L. (2015) 'Comparison of Life Cycle Greenhouse Gases from Natural Gas Pathways for Light-Duty Vehicles', *Energy & Fuels*, 29(9), pp. 6008–6018. doi: 10.1021/acs.energyfuels.5b01063.
- Ul-haq, Z. *et al.* (2016) 'Emission Quantification of Refrigerant CFCs , HCFCs and HFCs in Megacity Lahore ( Pakistan ) and Contributed ODPs and GWPs', *Earth Syst.*, 125(6), pp. 1273–1284. doi: 10.1007/s12040-016-0724-8.
- Umukoro, G. E. and Ismail, O. S. (2017) 'Modelling emissions from natural gas flaring', *Journal of King Saud University – Engineering Sciences*, (2), pp. 178–182.
- Wang, J. *et al.* (2017) 'Environmental Impacts Of Shale Gas Development In China: A Hybrid Life Cycle Analysis', *Resources, Conservation and Recycling*. Elsevier B.V., 120, pp. 38–45. doi: 10.1016/j.resconrec.2017.01.005.
- Wasiu, A. B., Aziz, A. R. A. and Heikal, M. R. (2012) 'The Effect of Carbon Dioxide Content-Natural Gas on The Performance Characteristics of Engines: A Review', *Applied Science*, 12(23), pp. 2346–2350.

doi: 10.3923/jas.2012.2346.2350.

Wendin, M. (2017) *LCA of Recycling Cotton*. Gothenburg. doi: 10.13140/RG.2.2.22598.57927.

Yani, M., Warsiki, E. and Wulandari, N. (2013) 'Penilaian Daur Hidup Botol Pet ( Polyethylena Terephtalate ) Pada Produk Minuman', *Bumi Lestari*, 13(2), pp. 307–317.

Zhang, X. *et al.* (2017) 'Life Cycle Assessment Of Power-To-Gas: Approaches, System Variations And Their Environmental Implications', *Applied Energy*, 190, pp. 326–338. doi: 10.1016/j.apenergy.2016.12.098.